

RECEIVED By OCD; Dr. Oberding at 11:30 am, Apr 26, 2016

January 29, 2016

Reference No. 082149

Dr. Tomas Oberding Energy, Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Dear Dr. Oberding:

Re: 2014/2015 Annual Groundwater Monitoring Report ETC Field Services LLC Boyd Compressor Station AP-106 Lea County, New Mexico

On behalf of ETC Field Services LLC, GHD Services, Inc. is pleased to submit the 2014/2015 Annual Groundwater Monitoring Report for the Boyd Compressor Station site. The report details all 2014 and 2015 groundwater monitoring and assessment activities performed at the referenced site.

If you have any questions or require additional information, please feel free to contact us at (505) 884-0672, or christine.mathews@ghd.com or bernard.bockisch@ghd.com.

Sincerely,

GHD

Christine Mathews, Project Scientist/Coordinator

Bernard Bockisch Project Manager

CM/mc/1

cc: Stacy Boultinghouse, Energy Transfer Company (electronic only)





2014/2015 Annaul Groundwater Monitoring Report

Boyd Compressor Station Lea County, New Mexico AP-106

ETC Field Services LLC

6121 Indian School Road, NE Suite 200 Albuquerque New Mexico 87110 082149 | Report No 1 | January 29 2016

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1. Introduction

1.1 Introduction

This report presents the results of groundwater monitoring during 2014 and 2015 at the ETC Field Services LLC (ETC) Boyd Compressor Station (Site). The Site is located approximately seven miles south of Jal, New Mexico and one mile west of New Mexico Highway 18. The Site is regulated by the New Mexico Oil Conservation Division (NMOCD). Field work was conducted by Apex TITAN, Inc. (Apex) from July 2014 through April of 2015 and by GHD Services Inc. (GHD) from September 2015 to present.

1.2 Background

The Site is an inactive compressor station located in Section 26, Township 22 South, Range 37 East in Lea County, New Mexico (Figure 1). Property affected by a release at the Site is owned by Mr. R.D. Simms of Eunice, New Mexico.

Soil investigation at the Site began on September 18, 2007 using a hand auger. Soil samples collected at two locations indicated hydrocarbon impacts. Historical records indicate that soil boring SB-1 was located in the vicinity of existing monitoring well MW-1, although the location of soil boring SB-2 in unclear.

Basin Environmental Services (Basin) oversaw the removal of an 80 barrel (bbl) and a 460 bbl tank on June 17, 2008. During removal, corrosion was observed around the bolts used to join the two halves of one of the tanks. The corrosion appeared to have allowed release of liquids from the tank into surrounding soil.

Decommissioning of the compressor station began June 18, 2008. A soil excavation occurred in conjunction with Site decommissioning due to impacted soil encountered during hand auger and tank removal activities. Excavated soil was stockpiled onsite and sampled. Soil exceeding NMOCD guidelines was hauled offsite.

The NMOCD approved backfilling of the excavation in December 2008. The excavation was backfilled to a depth of 10 feet (ft) below ground surface (bgs) and a 20- mil polyethylene liner measuring 20ft by 20ft was then installed. The upper 10ft of the excavation was backfilled to grade.

In January 2009, four groundwater monitoring wells were installed to a total depth of approximately 65 ft bgs. Monitoring well MW-1 was installed immediately south (downgradient) of the excavation and monitoring wells MW-2, MW-3, and MW-4 were installed north, southwest, and southeast of the excavation, respectively. Monitoring wells MW-2, MW-3, and MW-4 are located approximately 70 ft away from MW-1.

The compressor station operated under New Mexico Discharge Plan & Permit GW 269. The discharge permit was rescinded by the NMOCD in February 2012, and Abatement Plan number AP 106 was issued.

Site monitoring wells have been sampled on a roughly quarterly basis since installation, most recently by Apex on January 23, 2015 and April 20, 2015, and by GHD on September 30, 2015 and December 15, 2015.

Consulting duties were transferred from Apex to GHD during August 2015. This report details groundwater monitoring conducted by Apex from August 2014 to April 2015 and by GHD during September and December 2015.

2. Groundwater Monitoring Summary, Methodology, and Analytical Results

2.1 Groundwater Monitoring Summary

During each groundwater monitoring event groundwater elevation measurements were recorded from Site monitoring wells. A summary of historical groundwater elevations for the Site is presented in Table 1.

Groundwater flow direction is towards the south and is consistent with historical Site data. Groundwater gradient was calculated for each monitoring period and ranged between 0.00092 feet per foot (ft/ft) at its lowest in April 2015 and 0.00138 ft/ft at its highest in October 2014. A groundwater gradient map has been prepared for each groundwater monitoring event and are included as Figure 3 through Figure 8.

2.2 Groundwater Monitoring Methodology

During groundwater monitoring events conducted by GHD, monitoring wells were purged of at least three casing volumes of water using a dedicated, disposable, polyethylene bailer prior to sampling. Groundwater quality parameters including pH, temperature, oxidation reduction potential, total dissolved solids, and conductivity were collected using a calibrated multi-parameter groundwater quality meter and were recorded on GHD groundwater sampling field forms.

Groundwater samples were placed in laboratory prepared bottles, packed on ice and delivered or shipped under chain-of-custody documentation to Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico. Groundwater samples were analyzed for chloride by EPA Method 300.0 and for total dissolved solids (TDS) by SM2540C.

Details regarding the groundwater monitoring methodology employed by Apex for the August 2014 through April 2015 monitoring events were not readily available to GHD at the time of this report.

A summary of laboratories and analytical methods pertaining to Apex conducted groundwater monitoring events are listed below;

- August 2014 Xenco Laboratories (Xenco) located in East Odessa, Texas. Groundwater samples from monitor wells MW-1 through MW-4 were analyzed for BTEX by Method 8021B and for Chlorides by EPA Method 300.0
- October 2014, January 2015, and April 2015 Trace Analysis Laboratories (Trace) located in Midland, Texas. Groundwater samples from monitor wells MW-1 through MW-4 were analyzed for BTEX by 8021B and for chlorides by EPA Method 300.0.

2.3 Groundwater Monitoring Analytical Results

Laboratory analytical results indicate that groundwater samples collected from all site monitoring wells are below laboratory detection limits for BTEX. All Site wells have been below laboratory

detection limits or below NMWQCC standard for BTEX since monitoring began in 2009. During 2014 and the first half of 2015, Apex conducted groundwater monitoring events included BTEXas part of the suite of analyses. Due to detections consistently being below NMWQCC standards or laboratory detection limits, GHD discontinued analysis of BTEX as of September 2015.

Groundwater collected from MW-1 has consistently exceeded the NMWQCC standard for chloride. During the December 2015 monitoring event the concentration of chloride in MW-1 was 1,700 milligrams per liter (mg/L). The NMWQCC standard for chloride is 250 mg/L. It should be noted however that analytical results from samples collected from MW-1 show a decreasing trend in chloride concentrations over time. See Figure 9 for a graph of chloride concentrations versus time.

All other Site wells have consistently been below the NMWQCC standard for chloride since initiation of monitoring in 2009. A chloride concentration map depicting chloride concentrations for each 2014 and 2015 sampling event is included as Figure 10. A summary of the historical groundwater laboratory analytical results is presented in Table 2. Corresponding laboratory analytical reports from 2014 and 2015 monitoring events are included as Appendix A.

3. Pumping Event

A groundwater pumping event was performed by GHD Services Inc. between October 26 and October 29, 2015. The pumping event consisted of pumping approximately 4,900 gallons of groundwater from monitoring well MW-1 at an average of approximately 3.08 gallons per minute for a total of 26.5 hours. Pumping was performed for 1.5 hours on October 26, 10 hours each day on October 27 and 28, and for 5 hours on October 28, 2015. During the pumping event chloride concentrations were field screened using HACH chloride test strips. Confirmatory samples were collected for laboratory analysis approximately every five hours during pumping. A summary of field and analytical data from the pumping event is presented in Table 3.

Both the field screening and laboratory analytical results showed a decreasing trend in chloride concentrations of approximately 500 mg/L to 600 mg/L over the duration of the event. An assessment of the analytical and field data indicates the following:

- The analytical data generally showed a decrease in chloride concentrations each day while pumping was occurring.
- An increase (rebound) in chloride concentrations was observed at the beginning of each day
 when pumping was resumed after well recharge overnight. This rebound is to be expected
 because pumping was not performed overnight, allowing chloride concentrations to move towards
 equilibrium.
- Chloride concentrations at the end of each subsequent day are generally lower than concentrations observed at the end of pumping the previous day. Chloride concentrations were 600 mg/l lower at the end of the three day event.

Chloride concentrations observed in MW-1 during the December sampling event were equivalent to the chloride concentration observed at the beginning of the pumping event (1700 mg/l). However, these concentrations were significantly lower than those observed during the September 30, 2015 event (3100 mg/l).

4. Conclusions and Recommendations

4.1 Conclusions

Based on the above referenced information, GHD makes the following conclusions:

- Groundwater collected from three Site wells (MW-2, MW-3, and MW-4) have consistently been below laboratory detection limits or below NMWQCC standard for all constituents of concern since sampling began.
- Chloride concentrations in samples collected from MW-1 have consistently exceeded the NMWQCC standard.
- Concentrations of BTEX constituents have consistently been below laboratory detection limits.

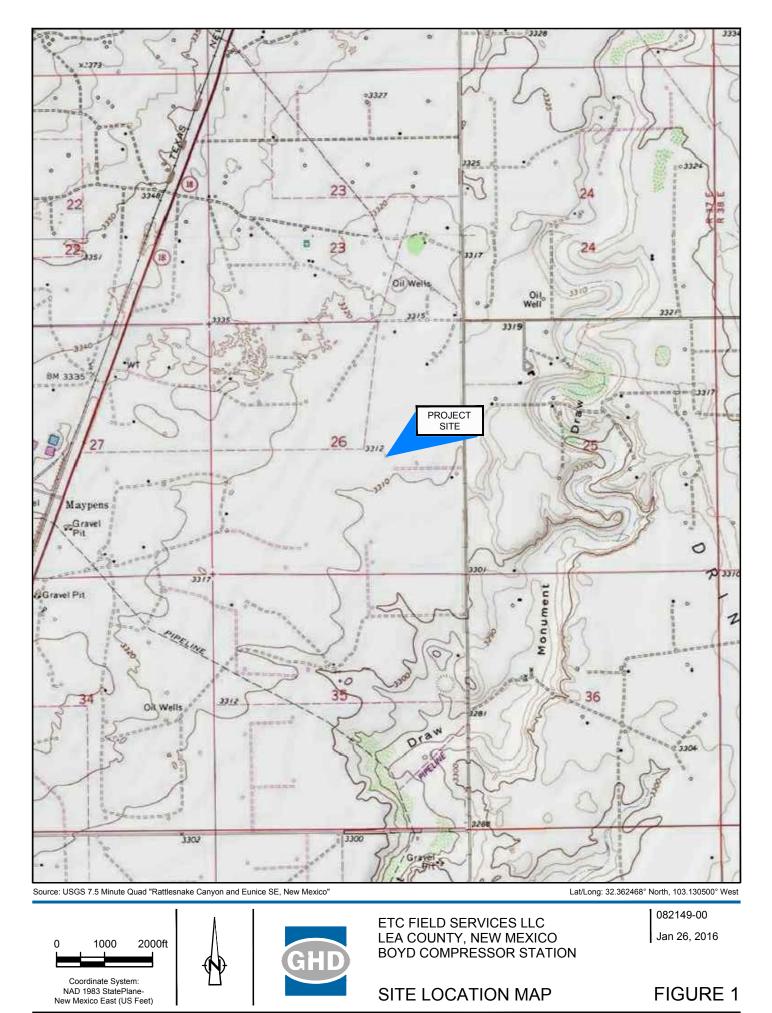
4.2 Recommendations

Due to the above conclusions, GHD recommends:

- Discontinue sampling Site wells for BTEX constituents (See Section 2.3).
- Continue sampling Site monitoring wells for chloride only. Sampling should continue on a quarterly basis.
- Continue to evaluate chloride concentrations to determine if the decrease is a seasonal or longterm trend. Based upon the evaluation of 2016 sampling data, determine whether an additional pumping event would be beneficial.

Figures

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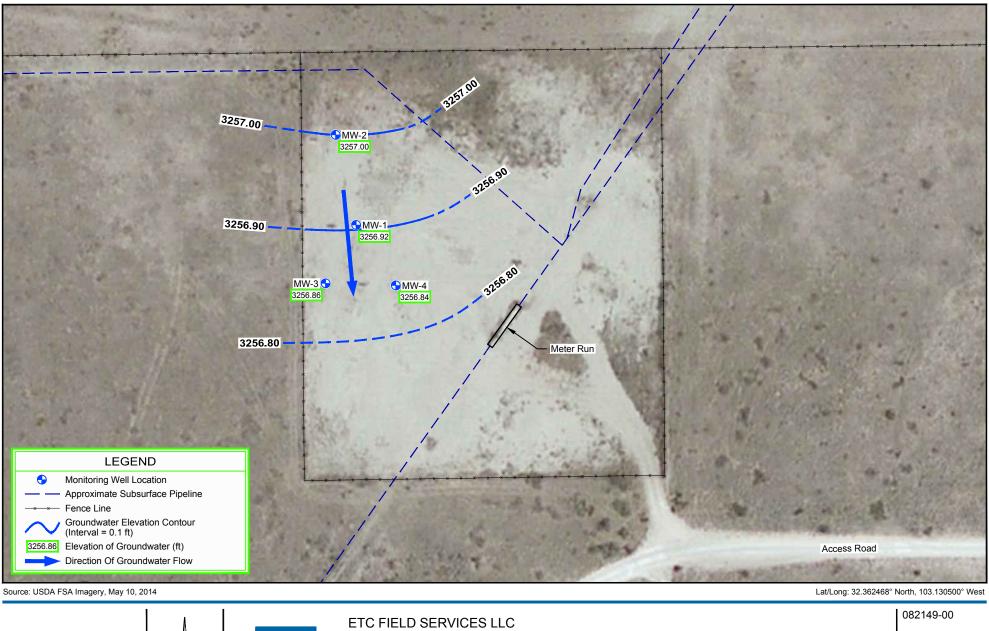


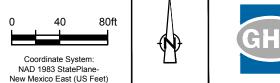
SITE MAP

CAD File: I:\CAD\Files\08----\082149-Energy Transfer-Boyd Compressor\082149-00\082149-00(001)\082149-00(001)GN-GN-DL001.dwg

New Mexico East (US Feet)

FIGURE 2

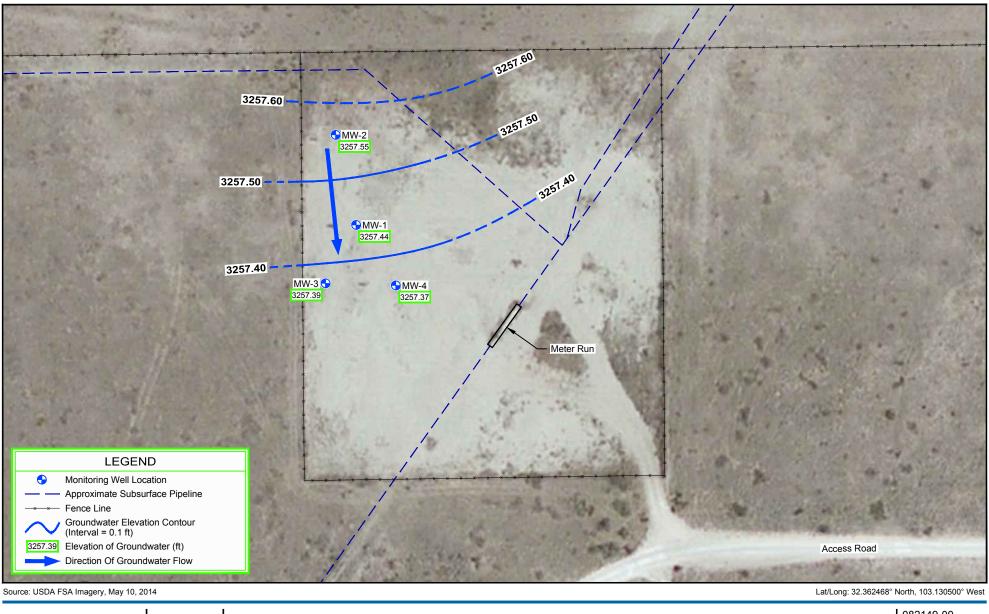


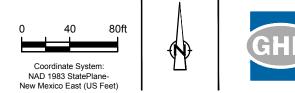


LEA COUNTY, NEW MEXICO **BOYD COMPRESSOR STATION** Jan 26, 2016

GROUNDWATER GRADIENT MAP - AUGUST 2014

FIGURE 3

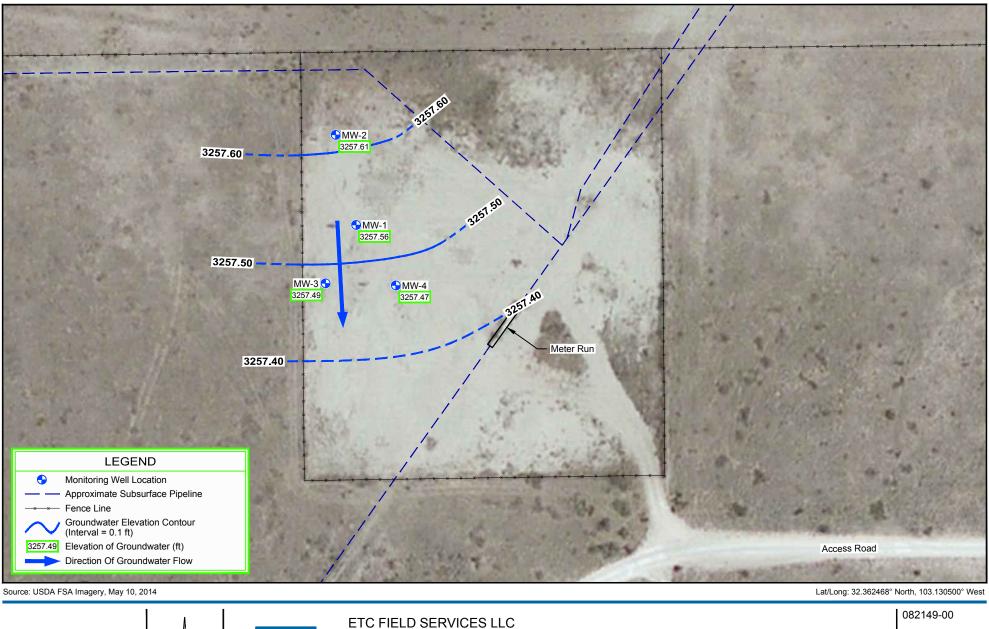


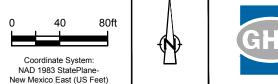


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GROUNDWATER GRADIENT MAP - OCTOBER 2014

FIGURE 4

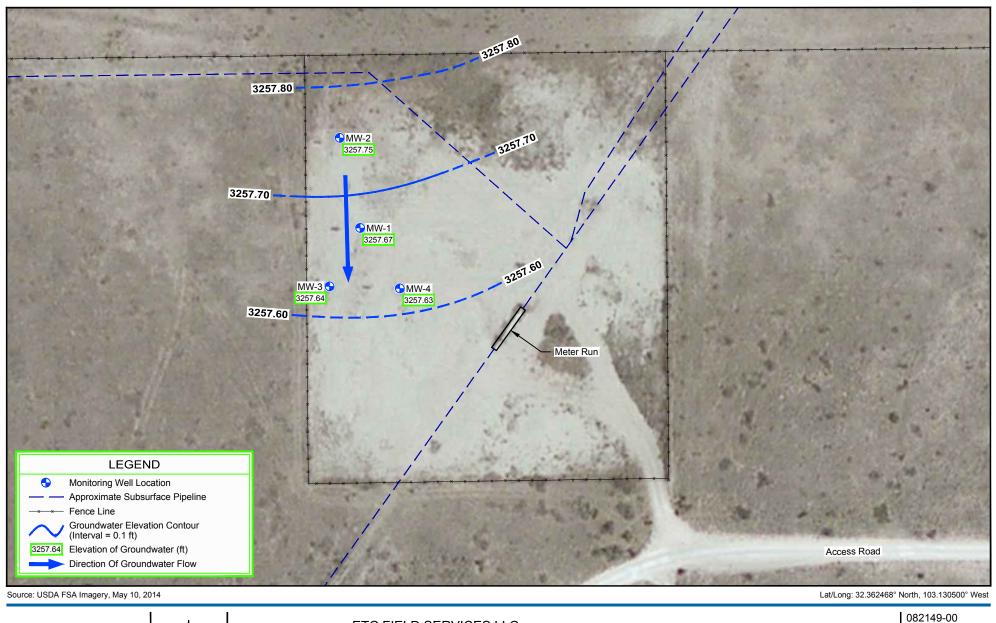


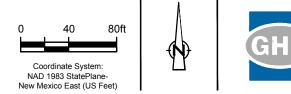


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GROUNDWATER GRADIENT MAP - JANUARY 2015

FIGURE 5

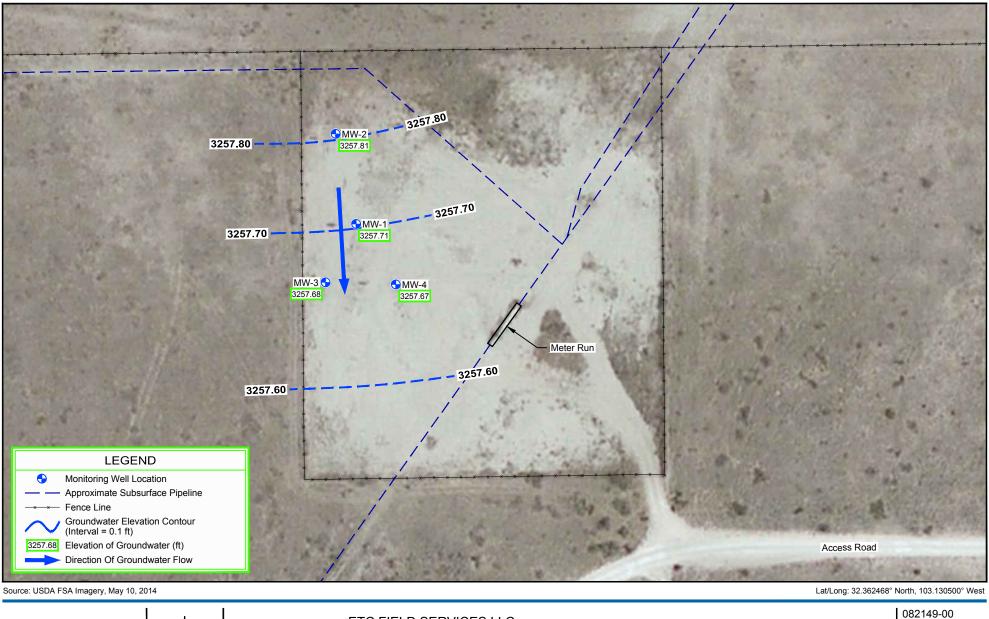


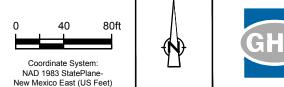


Jan 26, 2016

GROUNDWATER GRADIENT MAP - APRIL 2015

FIGURE 6

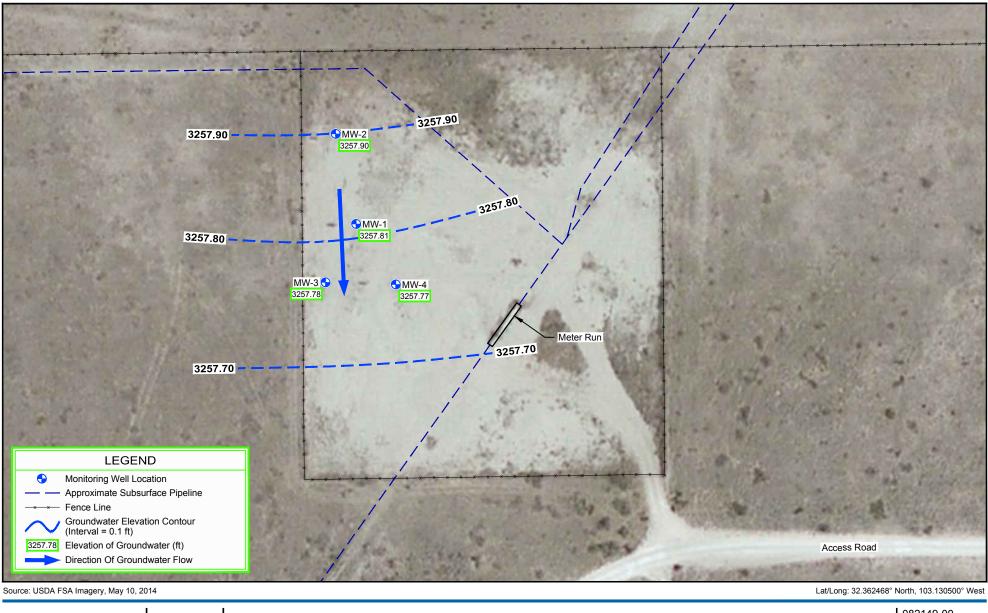


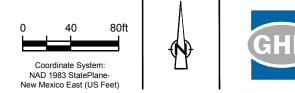


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GROUNDWATER GRADIENT MAP - SEPTEMBER 2015

FIGURE 7

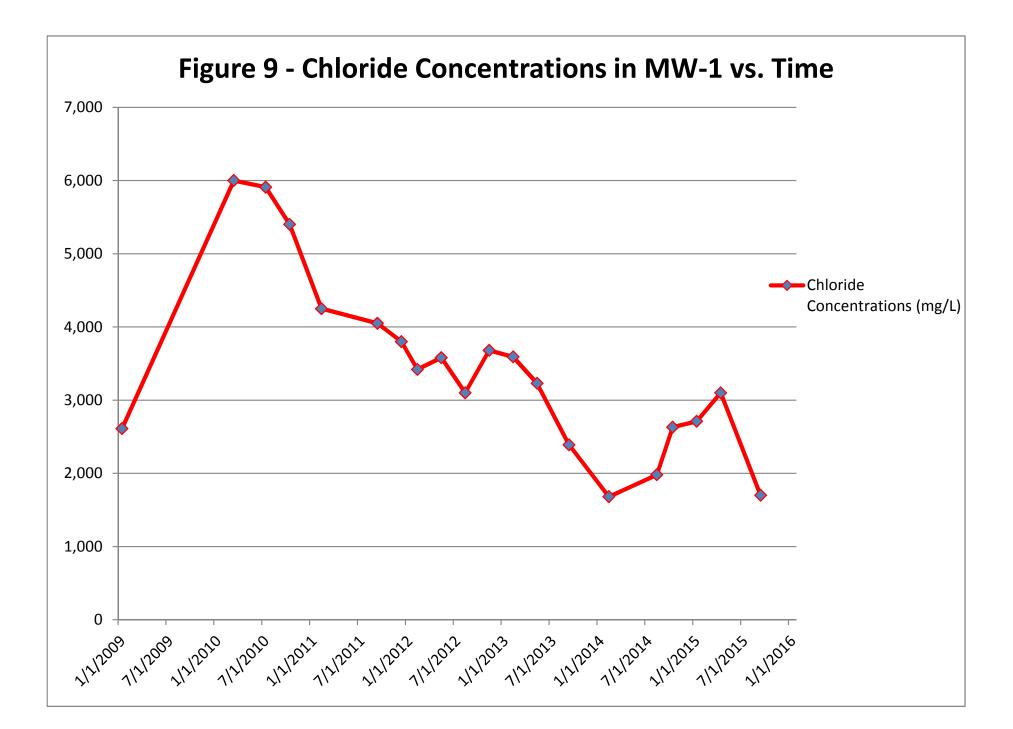


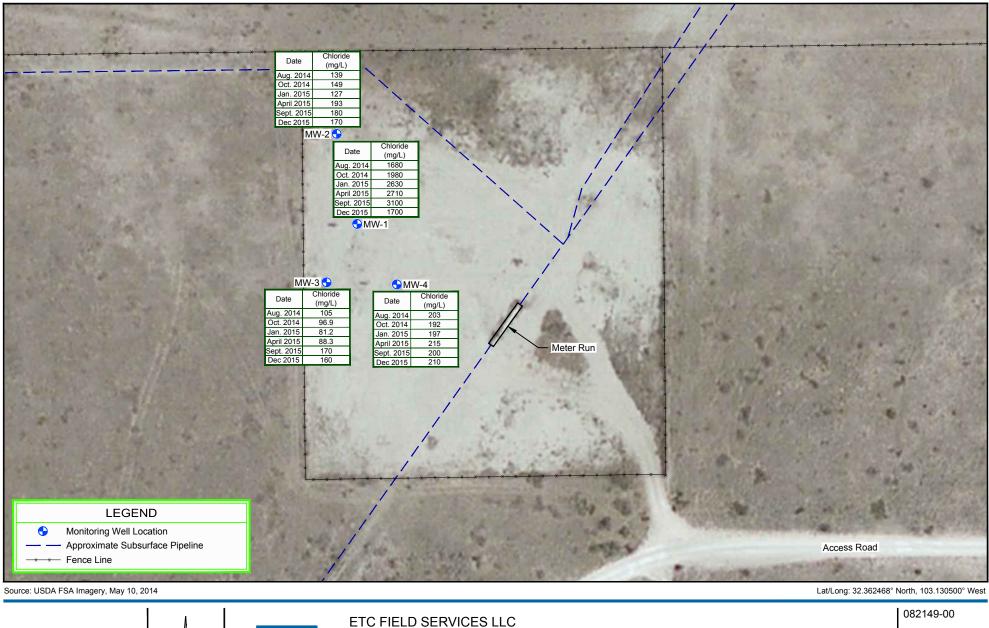


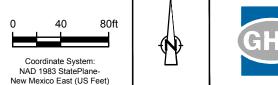
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GROUNDWATER GRADIENT MAP - DECEMBER 2015

FIGURE 8







Jan 26, 2016

CHLORIDE CONCENTRATIONS IN GROUNDWATER

FIGURE 10

Tables

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MONITORING WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS ETC FIELD SERVICES LLC BOYD COMPRESSOR STATION LEA COUNTY, NEW MEXICO

Well Number	Casing Well Elevation	Total Depth	Date Measured	Depth to LNAPL	Depth to Water	LNAPL Thickness	Corrected Groundwater Elevation	
			6/26/2009	-	58.95	-	3,257.72	
			3/25/2010	-	59.07	-	3,257.60	
			6/28/2010	-	59.32	-	3,257.35	
			10/29/2010	-	59.12	-	3,257.55	
			2/8/2011	-	59.17	-	3,257.50	
			9/28/2011	-	59.36	-	3,257.31	
			12/1/2011	-	59.36	-	3,257.31	
			2/9/2012	-	59.45	-	3,257.22	
			5/16/2012	-	58.00	-	3,258.67	
			8/31/2012	-	58.01	-	3,258.66	
MW-1	3,316.67	69.35	11/2/2012	-	59.50	-	3,257.17	
			2/7/2013	-	59.67	-	3,257.00	
			5/10/2013	-	59.48	-	3,257.19	
			9/4/2013	-	59.71	-	3,256.96	
			8/12/2014	-	59.75	-	3,256.92	
			10/23/2014	-	59.23	-	3,257.44	
			1/23/2015	-	59.11	-	3,257.56	
			4/20/2015	-	59.00	-	3,257.67	
			9/30/2015	-	58.96	-	3,257.71	
			12/15/2015	-	58.86	-	3,257.81	
			6/26/2009	-	59.16	-	3,257.86	
			3/25/2010	-	59.32	-	3257.70	
			6/28/2010	-	59.97	-	3,257.05	
			10/29/2010	-	57.36	-	3,259.66	
			2/8/2011	-	59.4	-	3,257.62	
			9/28/2011	-	59.57	-	3,257.45	
			12/1/2011	-	60.65	-	3,256.37	
			2/9/2012	-	59.65	-	3,257.37	
			5/16/2012	-	59.65	-	3,257.37	
			8/31/2012	-	59.60	-	3,257.42	
MW-2	3,317.02	69.64	11/2/2012	-	59.75	-	3,257.27	
			2/7/2013	-	59.84	-	3,257.18	
			5/10/2013	-	59.86	-	3,257.16	
			9/4/2013	-	59.00	-	3,258.02	
			8/12/2014	-	60.02	-	3,257.00	
			10/23/2014	-	59.47	-	3,257.55	
			1/23/2015	-	59.41	-	3,257.61	
				-	59.27	-	3,257.75	
			4/20/2013					
			4/20/2015 9/30/2015	-		-		
			4/20/2015 9/30/2015 12/15/2015		59.21 59.12	-	3,257.81 3,257.90	

MONITORING WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS ETC FIELD SERVICES LLC BOYD COMPRESSOR STATION LEA COUNTY, NEW MEXICO

Well Number	Casing Well Elevation	Total Depth	Date Measured	Depth to LNAPL	Depth to Water	LNAPL Thickness	Corrected Groundwater Elevation
			6/26/2009	-	59.16	-	3,258.36
			3/25/2010	-	59.92	-	3,257.60
			6/28/2010	-	59.97	-	3,257.55
			10/29/2010	-	60.16	-	3,257.36
			2/8/2011	-	59.40	-	3,258.12
			9/28/2011	-	60.23	-	3,257.29
			12/1/2011	-	65.20	-	3,252.32
			2/9/2012	-	60.30	-	3,257.22
			5/16/2012	-	60.30	-	3,257.22
			8/31/2012	-	60.30	-	3,257.22
MW-3	3,317.52	69.50	11/2/2012	-	59.97	-	3,257.55
			2/7/2013	-	60.55	-	3,256.97
			5/10/2013	-	60.48	-	3,257.04
			9/4/2013	-	60.80	-	3,256.72
			8/12/2014	-	60.66	-	3,256.86
			10/23/2014	-	60.13	-	3,257.39
			1/23/2015	-	60.03	-	3,257.49
			4/20/2015	-	59.88	-	3,257.64
			9/30/2015	-	59.84	-	3,257.68
			12/15/2015	-	59.74	-	3,257.78
							,
			6/26/2009	-	59.36	-	3,257.70
			3/25/2010	-	59.50	-	3,257.56
			6/28/2010	-	59.12	-	3,257.94
			10/29/2010	-	59.58	-	3,257.48
			2/8/2011	-	59.61	-	3,257.45
			9/28/2011	-	59.78	-	3,257.28
			12/1/2011	-	59.25	-	3,257.81
			2/9/2012	-	59.85	-	3,257.21
			5/16/2012	-	59.85	-	3,257.21
			8/31/2012	-	59.80	-	3,257.26
MW-4	3,317.06	68.95	11/2/2012	-	59.80	-	3,257.26
			2/7/2013	-	60.10	-	3,256.96
			5/10/2013	-	60.63	-	3,256.43
			9/4/2013	-	60.21	-	3,256.85
			8/12/2014	-	60.22	-	3,256.84
			10/23/2014	-	59.69	-	3,257.37
			1/23/2015	-	59.59	-	3,257.47
			4/20/2015	-	59.43	-	3,257.63
			9/30/2015	-	59.39	-	3,257.67
			12/15/2015	-	59.29	-	3,257.77
			12/15/2015				

Notes:

LNAPL = Light non-aqueous phase liquid

GROUNDWATER ANALYTICAL RESULTS SUMMARY ETC FIELD SERVICES LLC BOYD COMPRESSOR STATION LEA COUNTY, NEW MEXICO

				Methods: EPA SW 846-8021b							
Sample Location	Sample Type	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	M,P- Xylenes (mg/L)	O-Xylenes (mg/L)	Total Xylene (mg/L)	Total BTEX (mg/L)	Chloride (mg/L)	TDS (mg/L)
NMWQCC Grou	undwater St	andards	0.01	0.75	0.75	тот	AL XYLENES	0.62	-	250	1000
		1/15/2009	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	2,610	-
		3/25/2010	0.0015	0.0019	<0.0010	<0.0020	<0.0010	<0.0010	0.0034	-	-
		7/1/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	6,000	-
		10/29/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	5,910	-
		2/8/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	5,400	-
		9/28/2011	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	4,250	-
		12/1/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	4,050	-
		2/9/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	3,800	-
		5/16/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	3,420	-
		8/31/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	3,580	-
		11/2/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	3,100	-
MW-1		2/7/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	3680	-
		5/10/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	3590	-
		9/4/2013	<0.00100	<0.00200	< 0.00100	-	-	<0.00200	< 0.00600	3230	-
		2/28/2014	<0.00100	<0.00200	<0.00100	-	-	<0.00100	<0.00600	2390	-
		8/12/2014	<0.00100	<0.00200	<0.00100	-	-	<0.00100	<0.00600	1680	-
		10/23/2014	<0.00100	<0.00100	<0.00100	-	-	<0.00100	<0.00600	1980	-
		1/23/2015	<0.00100	<0.00100	<0.00100	-	-	<0.00100	<0.00600	2630	-
		4/20/2015	<0.00100	<0.00100	<0.00100	-	-	<0.00100	<0.00600	2710	-
		9/30/2015	-	-	-	-	-	-	-	3100	5860
	Original	12/15/2015	-	-	-	-	-	-	-	1700	3680
	Dup	12/15/2015	-	-	-	-	-	-	-	1900	3510

GROUNDWATER ANALYTICAL RESULTS SUMMARY ETC FIELD SERVICES LLC BOYD COMPRESSOR STATION LEA COUNTY, NEW MEXICO

				Methods: EPA SW 846-8021b							
Sample Location	Sample Type	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	M,P- Xylenes (mg/L)	O-Xylenes (mg/L)	Total Xylene (mg/L)	Total BTEX (mg/L)	Chloride (mg/L)	TDS (mg/L)
NMWQCC Grou	NMWQCC Groundwater Standards			0.75	0.75	тот	AL XYLENES	0.62	-	250	1000
		1/15/2009	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	145	-
		3/25/2010	<0.0010	0.0013	<0.0010	<0.0020	<0.0010	<0.0010	0.0013		-
		7/1/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	130	-
		10/29/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	141	-
		2/8/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	126	-
		9/28/2011	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	148	-
		12/1/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	126	-
		2/9/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	129	-
		5/16/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	135	-
		8/31/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	132	-
MW-2		11/2/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	164	-
IVIVV-Z		2/7/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	169	-
		5/10/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	144	-
		9/4/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	155	-
		2/28/2014	<0.00100	<0.00200	<0.00100	-	-	<0.00100	<0.00500	161	-
		8/12/2014	<0.00100	<0.00200	<0.00100	-	-	<0.00100	<0.00500	139	-
		10/23/2014	<0.00100	<0.00100	<0.00100	-	-	<0.00100	< 0.00400	149	-
		1/23/2015	<0.00100	<0.00100	<0.00100	-	-	<0.00100	<0.00400	127	-
		4/20/2015	<0.00100	<0.00100	<0.00100	-	-	<0.00100	<0.00400	193	-
	Original	9/30/2015	-	-	-	-	-	-	-	180	-
	Dup	9/30/2015	-	-	-	-	-	-	-	190	835
		12/15/2015	-	-	-	-	-	-	-	170	880

GROUNDWATER ANALYTICAL RESULTS SUMMARY ETC FIELD SERVICES LLC BOYD COMPRESSOR STATION LEA COUNTY, NEW MEXICO

				Methods: EPA SW 846-8021b							
Sample Location	Sample Type	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	M,P- Xylenes (mg/L)	O-Xylenes (mg/L)	Total Xylene (mg/L)	Total BTEX (mg/L)	Chloride (mg/L)	TDS (mg/L)
NMWQCC Grou	undwater St	tandards	0.01	0.75	0.75	тот	AL XYLENES	0.62	-	250	1000
		1/15/2009	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	150	-
		3/25/2010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	-	-
		7/1/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	124	-
		10/29/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	124	-
		2/8/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	109	-
		9/28/2011	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	138	-
		12/1/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	115	-
		2/9/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	107	-
		5/16/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	110	-
		8/31/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	109	-
MW-3		11/2/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	126	-
		2/7/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	127	-
		5/10/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	100	-
		9/4/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	115	-
		2/28/2014	<0.00100	<0.00200	<0.00100	-	-	<0.00100	<0.00500	117	-
		8/12/2014	<0.00100	<0.00200	<0.00100	-	-	<0.00100	<0.00500	105	-
		10/23/2014	<0.00100	<0.00100	<0.00100	-	-	<0.00100	< 0.00400	97	-
		1/23/2015	<0.00100	<0.00100	<0.00100	-	-	<0.00100	<0.00400	81	-
		4/20/2015	<0.00100	<0.00100	<0.00100	-	-	<0.00100	<0.00400	88	-
		9/30/2015	-	-	-	-	-	-	-	170	740
		12/15/2015	-	-	-	-	-	-	-	160	852

GROUNDWATER ANALYTICAL RESULTS SUMMARY ETC FIELD SERVICES LLC BOYD COMPRESSOR STATION LEA COUNTY, NEW MEXICO

				Methods: EPA SW 846-8021b							SM2540C
Sample Location	Sample Type	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	M,P- Xylenes (mg/L)	O-Xylenes (mg/L)	Total Xylene (mg/L)	Total BTEX (mg/L)	Chloride (mg/L)	TDS (mg/L)
NMWQCC Grou	Indwater St	andards	0.01	0.75	0.75	тот	AL XYLENES	0.62	-	250	1000
		1/15/2009	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	208	-
		3/25/2010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	-	-
		7/1/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	187	-
		10/29/2010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	196	-
		2/8/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	180	-
		9/28/2011	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	221	-
		12/1/2011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	206	-
		2/9/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	214	-
		5/16/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	195	-
		8/31/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	216	-
MW-4		11/2/2012	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	216	-
		2/7/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	227	-
		5/10/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	201	-
		9/4/2013	<0.00100	<0.00200	<0.00100	-	-	<0.00200	<0.00600	195	-
		2/28/2014	<0.00100	<0.00200	<0.00100	-	-	<0.00100	<0.00500	199	-
		8/12/2014	<0.00100	<0.00200	<0.00100	-	-	<0.00100	<0.00500	203	-
		10/23/2014	<0.00100	<0.00100	<0.00100	-	-	<0.00100	< 0.00400	192	-
		1/23/2015	<0.00100	<0.00100	<0.00100	-	-	<0.00100	<0.00400	197	-
		4/20/2015	<0.00100	<0.00100	<0.00100	-	-	<0.00100	<0.00400	215	-
		9/30/2015	-	-	-	-	-	-	-	200	930
		12/15/2015	-	-	-	-	-	-	-	210	980

Notes:

NMWQCC = New Mexico Water Quality Control Comission

PUMPING EVENT CHLORIDE CONCENTRATIONS ETC FIELD SERVICES LLC BOYD COMPRESSOR STATION LEA COUNTY, NEW MEXICO

			Chloride
Sample	Date	Time	(mg/L)
Field 1		745	1488
CM-001		745	1700
Field 2		950	1488
Field 3		1150	1263
Field 4	10/27/2015	1350	1163
CM-002		1350	1500
Field 5		1550	1163
Field 6		1730	1263
CM-003		1730	1500
Field 7		720	1488
CM-004		720	1600
Field 8		915	1263
Field 9		1120	1263
Field 10	10/28/2015	1215	1163
CM-005		1220	1400
Field 11		1530	1163
Field 12		1715	1163
CM-006		1715	1300
Field 13		625	1263
CM-007		625	1500
Field 14	10/29/2015	1030	1071
Field 15	10/29/2013	1130	1071
CM-008		1130	1100
Field 16		1200	1071

Notes:

1) Highlighted cells indicate laboratory analytical result

Appendices

GHD | 2014/2015 Annual Groundwater Monitoring Report |082149 (1)

Appendix A Groundwater Laboratory Analytical Reports

Analytical Report 491314

for APEX/Titan

Project Manager: Lyle Alsobrook

Boyd Compressor Station

19-AUG-14

Collected By: Client





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



19-AUG-14

SAP ACCREDUES

Project Manager: **Lyle Alsobrook APEX/Titan** 505 N. Big Spring Ste. 301 A Midland, TX 79701

Reference: XENCO Report No(s): **491314 Boyd Compressor Station** Project Address: Lea County,NM

Lyle Alsobrook:

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) 491314. 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. 491314 will be filed for 60 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.

Ams boah

 Kelsey Brooks

 Project Manager

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Sample Cross Reference 491314



APEX/Titan, Midland, TX

Boyd Compressor Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-4	W	08-12-14 09:35		491314-001
MW-3	W	08-12-14 10:18		491314-002
Field Duplicate	W	08-12-14 11:00		491314-003
MW-1	W	08-12-14 11:30		491314-004
MW-2	W	08-12-14 12:25		491314-005





Client Name: APEX/Titan Project Name: Boyd Compressor Station

Project ID: Work Order Number(s): 491314
 Report Date:
 19-AUG-14

 Date Received:
 08/12/2014

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Project Id:

Contact: Lyle Alsobrook Project Location: Lea County,NM APEX/Titan, Midland, TX

Project Name: Boyd Compressor Station



Date Received in Lab: Tue Aug-12-14 03:49 pm

Report Date: 19-AUG-14

roject Location: Lea County, NM								-				
								Project Ma	nager:	Kelsey Brook	s	
	Lab Id:	491314-	001	491314-0	002	491314-	003	491314-0	004	491314-	005	
Anglusia Degrasted	Field Id:	MW-4		MW-3	3	Field Dup	Field Duplicate		L	MW-2		
Analysis Requested	Depth:											
	Matrix:	WATE	R	WATE	R	WATE	R	WATE	R	WATE	R	
	Sampled:	Aug-12-14	09:35	Aug-12-14	10:18	Aug-12-14	11:00	Aug-12-14	11:30	Aug-12-14	12:25	
BTEX by EPA 8021B	Extracted:	Aug-15-14	17:00	Aug-15-14	17:00	Aug-15-14	17:00	Aug-15-14	17:00	Aug-15-14	17:00	
	Analyzed:	Aug-16-14	02:36	Aug-16-14	02:52	Aug-16-14	03:09	Aug-16-14	03:25	Aug-16-14	03:42	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	
Benzene		ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	
Toluene		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	
Ethylbenzene		ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	
m_p-Xylenes		ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	ND	0.00200	
o-Xylene		ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	
Total Xylenes		ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	
Total BTEX		ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	ND	0.00100	
Inorganic Anions by EPA 300/300.1	Extracted:	Aug-14-14	17:12	Aug-14-14	17:58	Aug-14-14	18:20	Aug-14-14	18:43	Aug-14-14	19:06	
	Analyzed:	Aug-14-14	17:12	Aug-14-14	17:58	Aug-14-14	18:20	Aug-14-14	18:43	Aug-14-14	19:06	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	
Chloride		203	20.0	105	20.0	105	20.0	1680	100	139	20.0	

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.

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Huns Roah

Kelsey Brooks Project Manager



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
- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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12600 West I-20 East, Odessa, TX 79765
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Boyd Compressor Station

Work Ore Lab Batch #	ders : 49131 # : 948384	4, Sample: 491314-001 / SMP	Bate	Project II h: 1 Matri	D: x: Water				
Units:	mg/L	Date Analyzed: 08/16/14 02:36	SURROGATE RECOVERY STUE						
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluorol	oenzene		0.0297	0.0300	99	80-120			
4-Bromofluo			0.0265	0.0300	88	80-120			
Lab Batch #	: 948384	Sample: 491314-002 / SMP	Bate	h: 1 Matri	x: Water				
Units:	mg/L	Date Analyzed: 08/16/14 02:52	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B Analytes			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorol	anzana	Anarytes	0.0302	0.0300		80-120			
4-Bromofluo				0.0300	101	80-120			
Lab Batch #		Sample: 491314-003 / SMP	0.0268			80-120			
Lab Batch # Units:		•							
Units:	mg/L	Date Analyzed: 08/16/14 03:09	SURROGATE RECOVERY STUDY						
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes					[D]				
1,4-Difluorol	penzene		0.0306	0.0300	102	80-120			
4-Bromofluo	robenzene		0.0272	0.0300	91	80-120			
Lab Batch #	#: 948384	Sample: 491314-004 / SMP	Bate	h: 1 Matri	x: Water				
Units:	mg/L	Date Analyzed: 08/16/14 03:25	SURROGATE RECOVERY STUDY						
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorol	2017010	Anarytes	0.0204	0.0200		80.120			
· ·			0.0304	0.0300	101	80-120			
4-Bromofluorobenzene Lab Batch #: 948384 Sample: 491314-005 / SMP		0.0270 Bate	0.0300	90 x: Water	80-120				
		Date Analyzed: 08/16/14 03:42							
Units:	mg/L	Date Analyzeu: 08/10/14 05:42	SU	JRROGATE I	KECOVERY S	STUDY			
BTEX by EPA 8021B			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1 4 Diffuse-1	2017010	Analytes	0.0200	0.0200		80.120			
1,4-Difluorol			0.0300	0.0300	100	80-120			
4-Bromofluo	robenzene		0.0266	0.0300	89	80-120			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Boyd Compressor Station

Work Orders : 491314, Lab Batch #: 948384 Sample: 660133-1-BLK / BL		LK Batch:	Project ID 1 Matrix	: K: Water					
Units:	mg/L	Date Analyzed: 08/15/14 21:24							
BTEX by EPA 8021B			Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor	obenzene		0.0300	0.0300	100	80-120			
4-Bromoflu	orobenzene		0.0261	0.0300	87	80-120			
Lab Batch	#: 948384	Sample: 660133-1-BKS / B	KS Batch:	1 Matrix	: Water				
Units:	mg/L	Date Analyzed: 08/15/14 21:40	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B Analytes			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1.4 D'fl	-1	Analytes	0.0200	0.0200		00.100			
1,4-Difluor			0.0299	0.0300	100	80-120			
	orobenzene	Secondary ((0122-1-DSD / D	0.0297	0.0300	99	80-120			
	#: 948384	Sample: 660133-1-BSD / BS			: Water				
Units:	mg/L	Date Analyzed: 08/15/14 21:57	SURROGATE RECOVERY STUDY						
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor	obenzene		0.0299	0.0300	100	80-120			
4-Bromoflu	orobenzene		0.0298	0.0300	99	80-120			
Lab Batch	#: 948384	Sample: 491033-001 S / MS	Batch:	1 Matrix	Water				
Units:	mg/L	Date Analyzed: 08/15/14 22:13	SURROGATE RECOVERY STUDY						
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	obenzene	Anarytes	0.0301	0.0300	100	80-120			
·	orobenzene		0.0301	0.0300	99	80-120			
	#: 948384	Sample: 491033-001 SD / N			Water	00-120			
Units:	mg/L	Date Analyzed: 08/15/14 22:30							
omis.	ш <u>а</u> L	Date Analyzeu. 00/13/14 22.30	SUR	KUGATE B	RECOVERY	STUDY			
BTEX by EPA 8021B			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
4 4 50 - 20		Analytes							
1,4-Difluorobenzene			0.0308	0.0300	103	80-120			
4-Bromofluorobenzene			0.0307	0.0300	102	80-120			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Boyd Compressor Station

Work Order	#: 491314							Pro	ject ID:			
Analyst:	ARM	D	ate Prepar	red: 08/15/20	14			Date A	nalyzed: (08/15/2014		
Lab Batch ID:	Sample: 660133-1	-BKS	BKS Batch #: 1						Matrix: \	Water		
Units:	mg/L		BLAN	K /BLANK	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	ΟY	
	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analy	tes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene		< 0.00100	0.100	0.104	104	0.100	0.104	104	0	70-125	25	
Toluene		< 0.00200	0.100	0.103	103	0.100	0.103	103	0	70-125	25	
Ethylbenze	ene	< 0.00100	0.100	0.110	110	0.100	0.109	109	1	71-129	25	
m_p-Xyler	nes	< 0.00200	0.200	0.215	108	0.200	0.212	106	1	70-131	25	
o-Xylene		< 0.00100	0.100	0.104	104	0.100	0.103	103	1	71-133	25	
Analyst:	JUM	D	ate Prepar	red: 08/14/20	14			Date A	nalyzed: (08/14/2014	•	
Lab Batch ID:	Sample: 660022-1	-BKS	Batc	h #: 1					Matrix: V	Water		
Units:	mg/L		BLAN	K /BLANK	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	ЭY	
Inorga Analy	anic Anions by EPA 300/300.1 rtes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		<1.00	25.0	25.8	103	25.0	25.8	103	0	90-110	20	

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries Project Name: Boyd Compressor Station



Work Order #: 491314				
Lab Batch #: 948346		Project II):	
Date Analyzed: 08/14/2014	Date Prepared: 08/14/2014	Analys	t: JUM	
QC- Sample ID: 491314-001 S	Batch #: 1	Matri	k: Water	
Reporting Units: mg/L	MATRIX / MA	ATRIX SPIKE RE	COVERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Spike Result Added	Spiked Sample Result %R [C] [D]	Control Limits %R	Flag
Analytes	[A] [B]			
Chloride	203 500	745 10	8 80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: Boyd Compressor Station



Work Order # :	491314						Project II):				
Lab Batch ID:	948384	QC- Sample ID:	491033	-001 S	Ba	tch #:	1 Matrix	: Water				
Date Analyzed:	08/15/2014	Date Prepared:	08/15/2	014	An	alyst: A	ARM					
Reporting Units:	mg/L		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
]	BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	-	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene		<0.00100	0.100	0.104	104	0.100	0.110	110	6	70-125	25	
Toluene		< 0.00200	0.100	0.103	103	0.100	0.109	109	6	70-125	25	
Ethylbenzene		< 0.00100	0.100	0.108	108	0.100	0.116	116	7	71-129	25	
m_p-Xylenes		< 0.00200	0.200	0.211	106	0.200	0.227	114	7	70-131	25	
o-Xylene		<0.00100	0.100	0.102	102	0.100	0.109	109	7	71-133	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



CHAIN OF CUSTODY

Page ____ Of ____

Stafford, Texas (2	281-240-4200)														Ode	ssa, T	exas (4	132-563	3-1800))			Lake	land, Flo	orida (8	63-646-8	526)	
Dallas, Texas (21)	4-902-0300)														Nore	cross.	Geora	ia (770	-449-8	800)						-620-200		
Service Center - S	San Antonio, Texas	(210-509-3334)					WWW.X	enco.	.com							o Quote					co Job		Tamp	Ha	21	211	Į –	
			Sec.														Áno	lytical Ir		1					11	01-		
Client / Report	ing Information						ormatior										Alla	iyucai ii								Matri	x Codes	1
Company Name / Br	ranch: TAN			Project	Name/Num	nber:	rss	ar	<+	a his	on															A= Air		
Company Address:				Project	ocation:				310	UTT																	il/Sed/So around V	
SOS N. Big	Spring, M	idland, TX.	75791	Lea	. con	nty	, NI	m.																		DW = I	Drinking	
Email:		Phone No:		Invoice																						P = Property SW = S	oduct Surface v	water
Ktoby@a	percos.co	m													00											SL = S		
Project Contact:	yle Alsole	rook		PO Num	ber:										21											W = W	ipe	ater
Project Contact: La Samplers's Name:	Karolann	e Toby													802	S										0 = 0		
				Collectio	n				Num	ber of	prese	rved	bottles			de										WW= V	Vaste Wa	ater
No. Fi	ield ID / Point of Co	llection				7						1		1	N X	, no							-			-		
			Sample Depth	Date	Time	Matrix	# of bottles	Ę	NaOH/Zn Acetate	HNO3	-12SO4	NaOH	MEOH	NONE	51	Chlo												
1 MW-4			Boput		9:35	GW	DOMES	X	ZA	T	<u> </u>	2	ZZ	Z	X	X									Fie	eld Comm	nents	
2 MW-3				1	10:18	1		1							1	,		_										
	Duplicate				11:00	++			-				_		+							_						
4 MW-1					11:30			+				-				+		-	-									
5 MW-2				Shahu	12:25	Gul		· ·								· ·		_		<u> </u>								
				912/19	12.63	GIN		×			_			-	X	X				-								
6												_	_									_						
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	1	VFE KT 9/12/1		-		-					_	-					_	_	-									
9		9/12/1	1								_				_			-										
10 Turnaround T	ime (Business days)) ata Deliv	erable	Inform	ation			-				Color State				-		_					
Same Day TAT		5 Day TAT				vel II Std		Crubic	, morni	<u> </u>								1	Notes		11	0					0	
Next Day EMER(OFNOV												ull Data	PKg	/raw da	ata)			51	31	11	Ke	gl	inc	4:	Frel	d	\rightarrow
		7 Day TAT			Lev	rel III Sto	d QC+ Fo	orms			TRRP	Leve	I IV				_/	5	ser	nvi	le	5 1	Di	rec	Hu	Frei		
2 Day EMERGEN	ICY	Contract TAT			Lev	rel 3 (CL	P Forms	5)			UST /	RG -4	\$11)		
3 Day EMERGEN	ICY				TRI	RP Chec	klist									3												
TAT Starts Day	received by Lab,	if received by 3:00) pm															FED.	.EX / 11	DQ. T	acking	. #						
Relinguished by Sam	plar	SAMPLE CUSTODY					E SAMPI	LES-C	HANGE					COUF	AIER DI			1	EAT 0	10.11	acking	1#			918 M			10. A. 19. 1
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ptice: Signature of this docu	ument and relinquishment	of samples constitutes a v	alid purchas	se order from	n client compa	ny to XEM	VCO Labo	oratorie	es and it	s affiliate	es, sub	contra	ctors an	d assig	jns XEM	VCO's st	andard t	erms and	l conditi	ons of s	service i	unless p	previous	sly negiotia	ted unde	r a fully exe	cuted clien	t contract.

Final 1.000



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: APEX/Titan	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 08/12/2014 03:49:00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 491314	Temperature Measuring device used :
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	0
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Νο
#5 Custody Seals intact on sample bottles?	Νο
#6 *Custody Seals Signed and dated?	Νο
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	Νο
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch l	bubble)? No
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnA	c+NaOH? No

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

Analyst:

PH Device/Lot#:

Date: 08/12/2014

Checklist completed by: Kelsey Brooks Checklist reviewed by: Kelsey Brooks Kelsey Brooks ___

Date: 08/12/2014



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, Texas 79424 Texas 79922 El Paso, Texas 79703 Midland, Carroliton. Texas 75006

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Thomas Franklin APEX/Titan 2351 W. Northwest Hwy. Suite 3321 Dallas, Tx, 75220

Report Date: October 31, 2014

Work Order:	14102431

Project Location: Lea Co, NM **Project Name:** Regency/Boyd Compressor Station Project Number: 7030714G025.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
377868	MW-1	water	2014-10-23	15:15	2014-10-24
377869	MW-2	water	2014-10-23	12:20	2014-10-24
377870	MW-3	water	2014-10-23	13:05	2014-10-24
377871	MW-4	water	2014-10-23	14:15	2014-10-24

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blain Lepturch

Dr. Blair Leftwich, Director James Taylor, Assistant Director Brian Pellam, Operations Manager

Report Contents

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QC Batch 116730 - LCS (1)	10 10 10 11
QC Batch 116730 - MS (1)	12 12 12 13
QC Batch 116730 - CCV (1)	14 14 14 14 15 15
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Case Narrative

Samples for project Regency/Boyd Compressor Station were received by TraceAnalysis, Inc. on 2014-10-24 and assigned to work order 14102431. Samples for work order 14102431 were received intact without headspace and at a temperature of 0.5 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	$\rm QC$	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	98702	2014-10-28 at 07:39	116730	2014-10-29 at 07:40
BTEX	S $8021B$	98704	2014-10-29 at $08:10$	116797	2014-10-30 at $11:51$
Chloride (IC)	E 300.0	98782	2014-10-30 at $10:00$	116834	2014-10-30 at 11:59

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14102431 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 377868 - MW-1

Laboratory: Midland		A 1+:	1 1 1 - 41 - 41	0 00011	7		Duran Mathaali	C FORD
Analysis: BTEX		v	l Method:	S 8021H			Prep Method:	
QC Batch: 116730		Date Ana	v	2014-10)-29		Analyzed By:	AK
Prep Batch: 98702		Sample P	reparation:	2014-10)-28		Prepared By:	AK
				RL				
Parameter	Flag	Cert		Result	Units		Dilution	RL
Benzene	$_{\rm Qr,Qs,U}$	5	<	0.00100	mg/L	1	1	0.00100
Toluene	$_{\rm Qr,Qs,U}$	5	<	0.00100	mg/L		1	0.00100
Ethylbenzene	$_{\rm Qr,Qs,U}$	5	<	0.00100	mg/L		1	0.00100
Xylene	$_{\rm Qr,Qs,U}$	5	<	0.00100	mg/L	1	1	0.00100
						Spike	Percent	Recovery
Surrogate	Fla	ag Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.0780	mg/L	1	0.100	78	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0846	mg/L	1	0.100	85	70 - 130

Sample: 377868 - MW-1

Laboratory: Lub Analysis: Chlo QC Batch: 1168 Prep Batch: 9878	ride (IC) 34	Analytical I Date Analy Sample Pre	zed: 2014-1 paration:	-	Prep Method: Analyzed By: Prepared By:	,
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	1105	1,2,3,4,6	1980	mg/L	100	2.50

Sample: 377869 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	116797	Date Analyzed:	2014-10-30	Analyzed By:	AK
Prep Batch:	98704	Sample Preparation:		Prepared By:	AK

Report Date: October 31, 2014 7030714G025.001		Reger	Work Ord ncy/Boyd (Page Number: 6 of 17 Lea Co, NM				
				RL				
Parameter	Flag	Cert		Result	Units		Dilution	RL
Benzene	U	5	-0.00100 /T				1	0.00100
Toluene	U	5	<(0.00100	mg/L		1	0.00100
Ethylbenzene	U	5	10 00100 /I				1	0.00100
Xylene	U	5	5 <0.00100 mg/L				1	0.00100
						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.0868	$\mathrm{mg/L}$	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0911	$\mathrm{mg/L}$	1	0.100	91	70 - 130
Sample: 377869 - MW-2								
Laboratory: Lubbock Analysis: Chloride (IC)		•	tical Meth		00.0 4-10-30		Prep Met	/
QC Batch: 116834 Prep Batch: 98782		Analyzed: e Preparat		Analyzed By: RL Prepared By: RL				
				BL				

			\mathbf{RL}			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride		1,2,3,4,6	149	$\mathrm{mg/L}$	10	2.50

Sample: 377870 - MW-3

Laboratory: Midland Analysis: BTEX QC Batch: 116797 Prep Batch: 98704		Date	Analy	Method: vzed: eparation:	S 8021E 2014-10-			Prep Method: Analyzed By: Prepared By:	S 5030B AK AK
					RL				
Parameter	Flag	С	ert		Result	Units		Dilution	RL
Benzene	U		5	<(0.00100	mg/L		1	0.00100
Toluene	U		5	<(0.00100	$\mathrm{mg/L}$		1	0.00100
Ethylbenzene	U		5	<(0.00100	$\mathrm{mg/L}$		1	0.00100
Xylene	U		5	<(0.00100	$\mathrm{mg/L}$		1	0.00100
G	D				TT •/		Spike	Percent	Recovery
Surrogate	F.	lag C	ert	Result	Units	Dilution	Amount	v	Limits
Trifluorotoluene (TFT)				0.0845	$\mathrm{mg/L}$	1	0.100	84	70 - 130
4-Bromofluorobenzene (4-BFB)				0.0790	$\mathrm{mg/L}$	1	0.100	79	70 - 130

Report Date: October 31, 2014 7030714G025.001		Work Order: 14102431PRegency/Boyd Compressor Station						Page Number: 7 of 17 Lea Co, NM	
Sample: 377870 - MW-3									
Laboratory: Lubbock			A 1+		-1. F9			Davas Math	J. NI/A
Analysis: Chloride (IC) QC Batch: 116834				tical Metho Analyzed:		800.0 4-10-30		Prep Meth Analyzed I	/
Prep Batch: 98782				e Preparat		Prepared E	v		
					RL				
Parameter	Flag		Cert		Result	Unit		Dilution	RL
Chloride	В		$1,\!2,\!3,\!4,\!6$		96.9	mg/I		10	2.50
Sample: 377871 - MW-4 Laboratory: Midland Analysis: BTEX		Ar	nalvtical	Method:	S 8021E	3		Prep Method:	S 5030B
-		Da	te Analy	Method: vzed: eparation:	2014-10			Prep Method: Analyzed By: Prepared By:	S 5030B AK AK
Laboratory: Midland Analysis: BTEX QC Batch: 116797 Prep Batch: 98704	Flag	Da	ate Analy mple Pre	vzed: eparation:	2014-10 RL	-30		Analyzed By: Prepared By:	AK AK
Laboratory: Midland Analysis: BTEX QC Batch: 116797 Prep Batch: 98704 Parameter	Flag	Da	te Analy	vzed: eparation:	2014-10	-30 Units		Analyzed By:	AK AK RL
Laboratory: Midland Analysis: BTEX QC Batch: 116797	~	Da	te Analy mple Pre	vzed: eparation: <0	2014-10 RL Result	-30		Analyzed By: Prepared By: Dilution	
Laboratory: Midland Analysis: BTEX QC Batch: 116797 Prep Batch: 98704 Parameter Benzene Toluene	U	Da	te Analy mple Pre	vzed: eparation: <0 <0	2014-10 RL Result 0.00100	-30 Units mg/L		Analyzed By: Prepared By: Dilution 1	AK AK RL 0.00100 0.00100
Laboratory: Midland Analysis: BTEX QC Batch: 116797 Prep Batch: 98704 Parameter Benzene Toluene Ethylbenzene	U U	Da	te Analy mple Pre	vzed: eparation: <0 <0 <0	2014-10 RL Result 0.00100 0.00100	-30 Units mg/L mg/L		Analyzed By: Prepared By: Dilution 1 1	AK AK 0.00100 0.00100 0.00100
Laboratory: Midland Analysis: BTEX QC Batch: 116797 Prep Batch: 98704 Parameter Benzene	U U U U	Da	te Analy mple Pre Cert 5 5 5	vzed: eparation: <0 <0 <0	2014-10 RL Result).00100).00100).00100	-30 Units mg/L mg/L mg/L		Analyzed By: Prepared By: Dilution 1 1 1	AK AK RL 0.00100
Laboratory: Midland Analysis: BTEX QC Batch: 116797 Prep Batch: 98704 Parameter Benzene Toluene Ethylbenzene	U U U U	Da	te Analy mple Pre Cert 5 5 5	vzed: eparation: <0 <0 <0	2014-10 RL Result).00100).00100).00100	-30 Units mg/L mg/L mg/L	Spike Amount	Analyzed By: Prepared By: Dilution 1 1 1 1 1 Percent	AK AK 0.00100 0.00100 0.00100 0.00100
Laboratory: Midland Analysis: BTEX QC Batch: 116797 Prep Batch: 98704 Parameter Benzene Toluene Ethylbenzene Xylene	U U U U	Da	te Analy mple Pre	vzed: eparation: <0 <0 <0 <0	2014-10 RL Result).00100).00100).00100).00100	-30 Units mg/L mg/L mg/L	Spike	Analyzed By: Prepared By: Dilution 1 1 1 1 1 Percent	AK AK 0.00100 0.00100 0.00100 0.00100 Recovery

Laboratory: Lubbock Prep Method: N/AAnalysis: Analytical Method: Chloride (IC) E 300.0 QC Batch: 116834Date Analyzed: 2014 - 10 - 30Analyzed By: \mathbf{RL} Prep Batch: 98782Sample Preparation: Prepared By: RL RL Dilution Cert Result Parameter Units Flag RL Chloride 1,2,3,4,6 192mg/L 10 2.50

Method Blank (1)

Method Blanks

QC Batch: 116730

QC Batch: 116730 Prep Batch: 98702			nalyzed: paration:	2014-10- 2014-10-	-		Analyzed By: Prepared By:		
					MDL				
Parameter	Flag		Cert		Result		Units	RL	
Benzene			5		< 0.000299		mg/L	0.001	
Toluene			5		< 0.000247		$\mathrm{mg/L}$	0.001	
Ethylbenzene			5		< 0.000423		mg/L	0.001	
Xylene			5		< 0.000552		mg/L	0.001	
						Spike	Percent	Recovery	
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)			0.0804	mg/L	1	0.100	80	70 - 130	
4-Bromofluorobenzene (4-BFB)			0.0997	$\mathrm{mg/L}$	1	0.100	100	70 - 130	

Method Blank (1) QC Batch: 116797

Prep Batch: 98704QC Preparation: 2014-10-29Prepared By: AKMDLMDLParameterFlagCertResultUnitsRLBenzene5<0.000299mg/L0.001Toluene5<0.000247mg/L0.001Ethylbenzene5<0.000423mg/L0.001Xylene5<0.000552mg/L0.001	QC Batch: 116797		Date A	nalyzed:	2014-10-	30		Analyzed By:			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Prep Batch: 98704		QC Pre	paration:	2014-10-	29		Prepared	By: AK		
ParameterFlagCertResultUnitsRLBenzene5<0.000299											
Benzene 5 <0.000299 mg/L 0.001 Toluene 5 <0.000247						MDL					
Toluene 5 <0.000247	Parameter	Flag		Cert		Result		Units	RL		
Ethylbenzene 5 <0.000423 mg/L 0.001 Xylene 5 <0.000552	Benzene			5		< 0.000299		mg/L	0.001		
Xylene 5 <0.000552 mg/L 0.001 Spike Percent Recovery	Toluene			5		< 0.000247		-,			
Spike Percent Recovery	Ethylbenzene			5		< 0.000423		- ,			
I V	Xylene			5		< 0.000552		$\mathrm{mg/L}$	0.001		
I V							G .1	D (D		
							Spike	Percent			
Surrogate Flag Cert Result Units Dilution Amount Recovery Limits	Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits		
Trifluorotoluene (TFT) 0.0887 mg/L 1 0.100 89 $70 - 130$	Trifluorotoluene (TFT)			0.0887	$\mathrm{mg/L}$	1	0.100	89	70 - 130		
4-Bromofluorobenzene (4-BFB) 0.0915 mg/L 1 0.100 92 70 - 130	4-Bromofluorobenzene (4	-BFB)		0.0915	$\mathrm{mg/L}$	1	0.100	92	70 - 130		

Report Date: October 3 7030714G025.001	31, 2014		er: 14102431 Compressor Station	Page Number: 9 o Lea Co,	
Method Blank (1)	QC Batch: 116834				
QC Batch: 116834 Prep Batch: 98782		Date Analyzed: QC Preparation:	2014-10-30 2014-10-30	Analyzed By: I Prepared By: I	
			MDL		
Parameter	Flag	Cert	Result	Units	RL
Chloride		1,2,3,4,6	1.26	m mg/L	2.5

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch:	116730	Date Analyzed:	2014-10-29	Analyzed By:	AK
Prep Batch:	98702	QC Preparation:	2014-10-28	Prepared By:	AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	0.0979	mg/L	1	0.100	< 0.000299	98	70 - 130
Toluene		5	0.101	$\mathrm{mg/L}$	1	0.100	< 0.000247	101	70 - 130
Ethylbenzene		5	0.102	mg/L	1	0.100	< 0.000423	102	70 - 130
Xylene		5	0.310	$\mathrm{mg/L}$	1	0.300	< 0.000552	103	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	0.0978	$\mathrm{mg/L}$	1	0.100	< 0.000299	98	70 - 130	0	20
Toluene		5	0.0994	$\mathrm{mg/L}$	1	0.100	< 0.000247	99	70 - 130	2	20
Ethylbenzene		5	0.102	$\mathrm{mg/L}$	1	0.100	< 0.000423	102	70 - 130	0	20
Xylene		5	0.311	mg/L	1	0.300	< 0.000552	104	70 - 130	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.0834	0.0843	mg/L	1	0.100	83	84	70 - 130
4-Bromofluorobenzene (4-BFB)	0.117	0.120	$\mathrm{mg/L}$	1	0.100	117	120	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch:	116797		Analyzed	By: AK						
Prep Batch:	98704		Prepared	By: AK						
				LCS			Spike	Matrix		Rec.
Param		\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene			5	0.0995	mg/L	1	0.100	< 0.000299	100	70 - 130
Toluene			5	0.102	$\mathrm{mg/L}$	1	0.100	< 0.000247	102	70 - 130
Ethylbenzene			5	0.102	$\mathrm{mg/L}$	1	0.100	< 0.000423	102	70 - 130
Xylene			5	0.314	$\mathrm{mg/L}$	1	0.300	< 0.000552	105	70 - 130

Report Date: October 31, 2014						:: 14102431							
7030714G025.001			Re	gency/E	Boyd Co	ompressor S	Statior	l				Lea	Co, NM
			I COD			a 11				D			DDD
			LCSD			Spike	Ma	atrix			ec.		RPD
Param	\mathbf{F}	С	Result	Units	Dil.	Amount	$R\epsilon$	sult	Rec.	Liı	mit	RPD	Limit
Benzene		5	0.0989	mg/L	1	0.100	< 0.0	00299	99	70 -	130	1	20
Toluene		5	0.102	mg/L	1	0.100	< 0.0	00247	102	70 -	130	0	20
Ethylbenzene		5	0.102	$\mathrm{mg/L}$	1	0.100	< 0.0	00423	102	70 -	130	0	20
Xylene		5	0.311	mg/L		0.300	< 0.0	00552	104	70 -	130	1	20
Percent recovery is based on the	spike	res	ult. RPD	is based	d on th	e spike and	l spike	duplica	ate res	sult.			
			L	CS 1	LCSD			Spil	xe	LCS	LCS	SD	Rec.
Surrogate			Re	sult l	Result	Units	Dil.	Amo	unt	Rec.	Re	ec.	Limit
			0.0	903 ().0910	mg/L	1	0.10)0	90	9	1	70 - 130
Trifluorotoluene (TFT)						$\mathrm{mg/L}$		0.10		114		4	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch:	116834	Date Analyzed:	2014-10-30	Analyzed By:	RL
Prep Batch:	98782	QC Preparation:	2014-10-30	Prepared By:	RL

_		_	~ ~	LCS			Spike		atrix	_	Rec.
Param		F	C 1	Result	Units	Dil.	Amount	t Re	esult l	Rec.	Limit
Chloride		1,2	,3,4,6	25.1	$\mathrm{mg/L}$. 1	25.0	1		95	90 - 110
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.											
			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		1,2,3,4,6	25.0	$\mathrm{mg/L}$	1	25.0	1.26	95	90 - 110	0	20

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 377928
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QC Batch:	116730	Date Analyzed:	2014-10-29	Analyzed By:	AK
Prep Batch:	98702	QC Preparation:	2014-10-28	Prepared By:	AK

				MS			Spike	Matrix		Rec.
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	$_{\rm Qs}$	$_{\rm Qs}$	5	0.0597	$\mathrm{mg/L}$	1	0.100	< 0.000299	60	70 - 130
Toluene	$_{\rm Qs}$	$_{\rm Qs}$	5	0.0590	$\mathrm{mg/L}$	1	0.100	< 0.000247	59	70 - 130
Ethylbenzene	$_{\rm Qs}$	$_{\rm Qs}$	5	0.0570	$\mathrm{mg/L}$	1	0.100	< 0.000423	57	70 - 130
Xylene	$_{\rm Qs}$	$_{\rm Qs}$	5	0.174	$\mathrm{mg/L}$	1	0.300	< 0.000552	58	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

				MSD			Spike	Matrix		Rec.		RPD
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	\mathbf{Qr}	\mathbf{Qr}	5	0.0983	$\mathrm{mg/L}$	1	0.100	< 0.000299	98	70 - 130	49	20
Toluene	\mathbf{Qr}	\mathbf{Qr}	5	0.0994	$\mathrm{mg/L}$	1	0.100	< 0.000247	99	70 - 130	51	20
Ethylbenzene	\mathbf{Qr}	\mathbf{Qr}	5	0.0973	$\mathrm{mg/L}$	1	0.100	< 0.000423	97	70 - 130	52	20
Xylene	\mathbf{Qr}	\mathbf{Qr}	5	0.296	mg/L	1	0.300	< 0.000552	99	70 - 130	52	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.0831	0.0786	mg/L	1	0.1	83	79	70 - 130
4-Bromofluorobenzene (4-BFB)	0.111	0.110	$\mathrm{mg/L}$	1	0.1	111	110	70 - 130

Matrix Spike (MS-1) Spiked Sample: 377869

QC Batch: 116797		Ι	Date Analy	zed: 20	14-10-30	1	A	Analyzed	By: AK
Prep Batch: 98704		(QC Prepara	ation: 20	14-10-29	1	F	Prepared	By: AK
			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	0.100	mg/L	1	0.100	< 0.000299	100	70 - 130
Toluene		5	0.100	$\mathrm{mg/L}$	1	0.100	< 0.000247	100	70 - 130
Ethylbenzene		5	0.0996	$\mathrm{mg/L}$	1	0.100	< 0.000423	100	70 - 130
Xylene		5	0.300	$\mathrm{mg/L}$	1	0.300	< 0.000552	100	70 - 130

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		MSD			Spike	М	atrix		R	ec.		RPD
Param F	\mathbf{C}	Result	Units	Dil.	Amount	R	esult	Rec.	Li	mit	RPD	Limit
Benzene	5	0.0998	mg/L	1	0.100	<0.	000299	100	70 -	130	0	20
Toluene	5	0.103	mg/L	1	0.100	< 0.	000247	103	70 -	130	3	20
Ethylbenzene	5	0.102	$\mathrm{mg/L}$		0.100	< 0.	000423	102	70 -	130	2	20
Xylene	5	0.307	$\mathrm{mg/L}$	1	0.300	< 0.	000552	102	70 -	130	2	20
Percent recovery is based on the spil	ke res	ult. RPD	is base	d on the	e spike and	d spike	e duplica	te res	ult.			
		Ν	мs	MSD			Spi	ke	MS	MS	SD	Rec.
Surrogate		Re	esult	Result	Units	Dil.	Amo	unt	Rec.	Re	ec.	Limit
Trifluorotoluene (TFT)		0.0	0882	0.0860	mg/L	1	0.	1	88	8	6 7	70 - 130
4-Bromofluorobenzene (4-BFB)		0.	100	0.0921	$\mathrm{mg/L}$	1	0.	1	100	9	2 7	70 - 130
Matrix Spike (MS-1) Spiked S QC Batch: 116834 Prep Batch: 98782	ample		e Analy Prepar		2014-10-30 2014-10-30	-				v	vzed By ared By	
Param	F	С	MS Resu		nits D	il.	Spike Amount		fatrix lesult	Re	c.	Rec. Limit
Chloride	_	1,2,3,4,6	393			0	250		110	11		30 - 120
Percent recovery is based on the spil	ke res							te res	ult.			

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		1,2,3,4,6	377	$\mathrm{mg/L}$	10	250	110	107	80 - 120	4	20

Calibration Standards

Standard (CCV-1)

QC Batch: 116730			Date Ar	nalyzed: 20	14-10-29	Analyzed By: AK				
				CCVs	CCVs	CCVs	Percent			
				True	Found	Percent	Recovery	Date		
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
Benzene		5	mg/L	0.100	0.0981	98	80 - 120	2014-10-29		
Toluene		5	$\mathrm{mg/L}$	0.100	0.0994	99	80 - 120	2014-10-29		
Ethylbenzene		5	$\mathrm{mg/L}$	0.100	0.0981	98	80 - 120	2014-10-29		
Xylene		5	$\mathrm{mg/L}$	0.300	0.299	100	80 - 120	2014-10-29		

Standard (CCV-2)

QC Batch: 116730			Date Ar	nalyzed: 20	Analyzed By: AK						
				CCVs	CCVs	CCVs	Percent				
				True	Found	Percent	Recovery	Date			
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed			
Benzene		5	$\mathrm{mg/L}$	0.100	0.0936	94	80 - 120	2014-10-29			
Toluene		5	$\mathrm{mg/L}$	0.100	0.0950	95	80 - 120	2014 - 10 - 29			
Ethylbenzene		5	$\mathrm{mg/L}$	0.100	0.0912	91	80 - 120	2014 - 10 - 29			
Xylene		5	mg/L	0.300	0.270	90	80 - 120	2014-10-29			

Standard (CCV-1)

QC Batch: 116797			Date An	alyzed: 20	Analyz	zed By: AK		
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	$\mathrm{mg/L}$	0.100	0.0965	96	80 - 120	2014-10-30
Toluene		5	$\mathrm{mg/L}$	0.100	0.103	103	80 - 120	2014-10-30
Ethylbenzene		5	$\mathrm{mg/L}$	0.100	0.0979	98	80 - 120	2014-10-30
Xylene		5	mg/L	0.300	0.298	99	80 - 120	2014-10-30

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Standard (CCV-2)

QC Batch: 116797			Date Ar	nalyzed: 20	Analyz	zed By: AK		
				$\rm CCVs$	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/L	0.100	0.0990	99	80 - 120	2014-10-30
Toluene		5	$\mathrm{mg/L}$	0.100	0.0989	99	80 - 120	2014-10-30
Ethylbenzene		5	$\mathrm{mg/L}$	0.100	0.0978	98	80 - 120	2014-10-30
Xylene		5	$\mathrm{mg/L}$	0.300	0.296	99	80 - 120	2014-10-30

Standard (CCV-1)

QC Batch:	116834			Date A	Analyzed:	2014-10-30		Analy	zed By: RL
					CCVs	$\rm CCVs$	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param	I	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			1,2,3,4,6	$\mathrm{mg/L}$	25.0	25.2	101	90 - 110	2014-10-30

Standard (CCV-2)

QC Batch:	116834			Date	Analyzed:	2014-10-30		Analy	zed By: RL
					CCVs	CCVs	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			1,2,3,4,6	$\mathrm{mg/L}$	25.0	25.2	101	90 - 110	2014-10-30

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.

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F Description

Qsr Surrogate recovery outside of laboratory limits.

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page. Please note, each attachment may consist of more than one page.

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6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, Texas 79424 El Paso, Texas 79922 Texas 79703 Midland, Carroliton. Texas 75006

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915-585-3443

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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Report Date: February 20, 2015

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Project Location: Lea Co, NM **Project Name:** Regency/Boyd Compressor Station Project Number: 7030714G025.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
385176	MW 1	water	2015-01-23	13:30	2015-01-23
385177	MW 2	water	2015-01-23	10:15	2015-01-23
385178	MW 3	water	2015-01-23	12:40	2015-01-23
385179	MW 4	water	2015-01-23	11:30	2015-01-23

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blain Lepturch

Dr. Blair Leftwich, Director James Taylor, Assistant Director Brian Pellam, Operations Manager

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Case Narrative

Samples for project Regency/Boyd Compressor Station were received by TraceAnalysis, Inc. on 2015-01-23 and assigned to work order 15012327. Samples for work order 15012327 were received intact without headspace and at a temperature of 3.8 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	100574	2015-01-28 at 15:00	118957	2015-01-30 at 07:57
Chloride (IC)	E 300.0	101060	2015-02-19 at $09:00$	119497	2015-02-19 at $09:51$
Chloride (IC)	E 300.0	101070	2015-02-19 at $12:00$	119506	2015-02-19 at $15:57$

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15012327 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 385176 - MW 1

Laboratory: Midland									
Analysis: BTEX		Aı	nalytical	Method:	S 8021E	3		Prep Method:	S 5030B
QC Batch: 118957		Da	ate Analy	zed:	2015-01	-30		Analyzed By:	AK
Prep Batch: 100574		Sa	mple Pre	eparation:	2015-01	-28		Prepared By:	AK
					RL				
Parameter	Flag		Cert		Result	Units		Dilution	RL
Benzene	U		5	<(.00100	mg/L		1	0.00100
Toluene	U		5	<0	.00100	mg/L		1	0.00100
Ethylbenzene	U		5	<0	.00100	mg/L		1	0.00100
Xylene	U		5	<0	.00100	mg/L		1	0.00100
							Spike	Percent	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		_		0.0899	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)				0.0926	mg/L	1	0.100	93	70 - 130

Sample: 385176 - MW 1

Laboratory: Lubbock Analysis: Chloride (IC) QC Batch: 119497 Prep Batch: 101060		Analytical M Date Analyz Sample Prej	zed: 2015-0	-	Prep Method: Analyzed By: Prepared By:	,
		~	RL			DI
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride		1,2,3,4,6	2630	$\mathrm{mg/L}$	100	2.50

Sample: 385177 - MW 2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	118957	Date Analyzed:	2015-01-30	Analyzed By:	AK
Prep Batch:	100574	Sample Preparation:	2015-01-28	Prepared By:	AK

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		RL						
Parameter	Flag	Cert	Cert Result Units			Dilution	RL	
Benzene	U	5	<(0.00100	mg/L		1	0.00100
Toluene	U	5	<(0.00100	$\mathrm{mg/L}$		1	0.00100
Ethylbenzene	U	5	<(0.00100	$\mathrm{mg/L}$		1	0.00100
Xylene	U	5	< 0.00100		$\mathrm{mg/L}$	m mg/L		0.00100
						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.0926	mg/L	1	0.100	93	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0948	mg/L	1	0.100	95	70 - 130
Sample: 385177 - MW 2								
Laboratory: Lubbock								
Analysis: Chloride (IC)		Analy	tical Meth	od: E 3	00.0		Prep Met	hod: N/A
QC Batch: 119506		Date A	Analyzed:	201	5-02-19		Analyzed By: RL	
Prep Batch: 101070		Sampl	e Preparat	ion:			Prepared By: RL	

QC Batch:	119506	,	Date Analy	zed: 2015-0	02-19	Analyzed By:	$ {RL}$
Prep Batch:	101070		Sample Pre	paration:		Prepared By:	RL
				RL			
Parameter		Flag	Cert	Result	Units	Dilution	RL
Chloride			1,2,3,4,6	127	$\mathrm{mg/L}$	10	2.50

Sample: 385178 - MW 3

Laboratory: Midland Analysis: BTEX QC Batch: 118957 Prep Batch: 100574		Date	e Analy	Method: zed: paration:	S 8021B 2015-01- 2015-01-	30		Prep Method: Analyzed By: Prepared By:	S 5030B AK AK
					RL				
Parameter	Flag		Cert		Result	Units		Dilution	RL
Benzene	U		5	<0	0.00100	mg/L		1	0.00100
Toluene	U		5	<0	0.00100	$\mathrm{mg/L}$		1	0.00100
Ethylbenzene	U		5	<0	.00100	$\mathrm{mg/L}$		1	0.00100
Xylene	U		5	<0	.00100	mg/L		1	0.00100
	-		C		TT 1 .		Spike	Percent	Recovery
Surrogate	F	lag	Cert	Result	Units	Dilution	Amount	v	Limits
Trifluorotoluene (TFT)				0.0918	$\mathrm{mg/L}$	1	0.100	92	70 - 130
4-Bromofluorobenzene (4-BFB)				0.0948	$\mathrm{mg/L}$	1	0.100	95	70 - 130

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Sample: 385178 - MW 3										
Laboratory: Lubbock										
Analysis: Chloride (IC)				ical Meth	od: E 3	00.0		Prep Meth		
QC Batch: 119506				.nalyzed:		5-02-19		Analyzed I		
Prep Batch: 101070			Sample	e Preparat		Prepared I	By: RL			
					RL					
Parameter	Flag		Cert		Result	Unit	5	Dilution	RL	
Chloride			1,2,3,4,6		81.2	mg/I	_	5	2.50	
Laboratory: Midland		An	alvtical	Method:	S 8021B			Prep Method:	S 5030B	
QC Batch: 118957		Dat	te Analy		2015-01- 2015-01-	-30		Analyzed By: Prepared By:	5 5050B AK AK	
QC Batch: 118957 Prep Batch: 100574		Dat	te Analy nple Pre	zed:	2015-01- 2015-01- RL	-30 -28		Analyzed By: Prepared By:	AK AK	
QC Batch: 118957 Prep Batch: 100574 Parameter	Flag	Dat	te Analy	zed: paration:	2015-01- 2015-01- RL Result	-30 -28 Units		Analyzed By:	AK AK RL	
QC Batch: 118957 Prep Batch: 100574 Parameter Benzene	Flag	Dat	te Analy nple Pre	zed: eparation: <0	2015-01- 2015-01- RL Result).00100	-30 -28 Units mg/L		Analyzed By: Prepared By: Dilution	AK AK RL 0.00100	
QC Batch: 118957 Prep Batch: 100574 Parameter Benzene Toluene	U U	Dat	te Analy nple Pre <u>Cert</u> ⁵	<pre>zed: paration:</pre>	2015-01- 2015-01- RL Result 0.00100 0.00100	-30 -28 Units mg/L mg/L		Analyzed By: Prepared By: Dilution 1 1	AK AK RL 0.00100 0.00100	
QC Batch: 118957 Prep Batch: 100574 Parameter Benzene Toluene Ethylbenzene	บ บ บ	Dat	te Analy mple Pre	<pre>zed: paration:</pre>	2015-01- 2015-01- RL Result 0.00100 0.00100 0.00100	-30 -28 Units mg/L mg/L mg/L		Analyzed By: Prepared By: Dilution 1 1 1	AK AK 0.00100 0.00100 0.00100	
QC Batch: 118957 Prep Batch: 100574 Parameter Benzene Toluene Ethylbenzene	U U	Dat	te Analy nple Pre <u>Cert</u> ⁵	<pre>zed: paration:</pre>	2015-01- 2015-01- RL Result 0.00100 0.00100	-30 -28 Units mg/L mg/L		Analyzed By: Prepared By: Dilution 1 1	AK AK 0.00100 0.00100 0.00100	
QC Batch: 118957 Prep Batch: 100574 Parameter Benzene Toluene Ethylbenzene	บ บ บ	Dat	te Analy mple Pre	<pre>zed: paration:</pre>	2015-01- 2015-01- RL Result 0.00100 0.00100 0.00100	-30 -28 Units mg/L mg/L mg/L		Analyzed By: Prepared By: Dilution 1 1 1	AK AK RL 0.00100 0.00100 0.00100 0.00100	
QC Batch: 118957 Prep Batch: 100574 Parameter Benzene Toluene Ethylbenzene Xylene	บ บ บ	Dat	te Analy mple Pre	<pre>zed: paration:</pre>	2015-01- 2015-01- RL Result 0.00100 0.00100 0.00100	-30 -28 Units mg/L mg/L mg/L	Spike Amount	Analyzed By: Prepared By: Dilution 1 1 1 1 1 Percent	AK AK 0.00100 0.00100 0.00100	
QC Batch: 118957 Prep Batch: 100574 Parameter Benzene	บ บ บ	Da Sar	te Analy nple Pre	<pre>zed: paration: </pre>	2015-01- 2015-01- RL Result).00100).00100).00100).00100	-30 -28 Units mg/L mg/L mg/L	Spike	Analyzed By: Prepared By: Dilution 1 1 1 1 1 Percent	AK AK RL 0.00100 0.00100 0.00100 0.00100 Recovery	

Laboratory: Lubbock Analysis: Chloride (IC) Analytical Method: E 300.0 QC Batch: 119506Date Analyzed: 2015-02-19Prep Batch: 101070 Sample Preparation: RL

Prepared By: Dilution Cert Result Parameter Units Flag Chloride 1,2,3,4,6 197 mg/L 10

Prep Method:

Analyzed By:

N/A

 \mathbf{RL}

 RL

 RL

2.50

Method Blanks

Chloride

	Batch: 118957						
QC Batch: 118957		Date Analyzed:	2015-01-3			Analyze	v
Prep Batch: 100574		QC Preparation:	2015-01-2	28		Prepared	d By: AK
				MDL			
Parameter	Flag	Cert		Result		Units	RL
Benzene		5		< 0.000299		mg/L	0.001
Toluene		5		< 0.000247		mg/L	0.001
Ethylbenzene		5		< 0.000423		mg/L	0.001
Xylene		5		< 0.000552		mg/L	0.001
					Spike	Percent	Recovery
Surrogate	Flag	Cert Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	0	0.0910	mg/L	1	0.100	91	70 - 130
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	70 - 130
Method Blank (1) QC B	atch: 119497						
QC Batch: 119497	Batch: 119497	Date Analyzed: QC Preparation	2015-02- 2015-02-			Analyze Prepare	
QC Batch: 119497	Batch: 119497	Date Analyzed: QC Preparation		19		Analyze Prepare	
QC Batch: 119497							
QC Batch: 119497 Prep Batch: 101060	Batch: 119497 Flag	QC Preparation	2015-02-	19 MDL		Prepare	d By: RL RI
QC Batch: 119497 Prep Batch: 101060 Parameter Chloride Method Blank (1) QC B QC Batch: 119506		QC Preparation Cert 1,2,3,4, Date Analyzed:	2015-02-	19 MDL Result 0.733		Prepare Units mg/L Analyze	d By: RL RI 2.5
QC Batch: 119497 Prep Batch: 101060 Parameter Chloride Method Blank (1) QC B	Flag	QC Preparation Cert	2015-02-	19 MDL Result 0.733 19		Prepare Units mg/L	d By: RL RI 2.5
QC Batch: 119497 Prep Batch: 101060 Parameter Chloride Method Blank (1) QC B QC Batch: 119506	Flag	QC Preparation Cert 1,2,3,4, Date Analyzed:	2015-02-	19 MDL Result 0.733		Prepare Units mg/L Analyze	d By: RL RI 2.5

1,2,3,4,6

0.740

 $\mathrm{mg/L}$

2.5

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch:	118957	Date Analyzed:	2015-01-30	Analyzed By:	AK
Prep Batch:	100574	QC Preparation:	2015-01-28	Prepared By:	AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	0.0991	mg/L	1	0.100	< 0.000299	99	70 - 130
Toluene		5	0.0974	$\mathrm{mg/L}$	1	0.100	< 0.000247	97	70 - 130
Ethylbenzene		5	0.0969	$\mathrm{mg/L}$	1	0.100	< 0.000423	97	70 - 130
Xylene		5	0.294	mg/L	1	0.300	< 0.000552	98	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	0.0996	$\mathrm{mg/L}$	1	0.100	< 0.000299	100	70 - 130	0	20
Toluene		5	0.0976	$\mathrm{mg/L}$	1	0.100	< 0.000247	98	70 - 130	0	20
Ethylbenzene		5	0.0980	$\mathrm{mg/L}$	1	0.100	< 0.000423	98	70 - 130	1	20
Xylene		5	0.297	mg/L	1	0.300	< 0.000552	99	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.0901	0.0881	mg/L	1	0.100	90	88	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0983	0.0951	$\mathrm{mg/L}$	1	0.100	98	95	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	119497 101060			Analyzed Preparation					By: RL By: RL	
				LCS			Spike	Matrix		Rec.
Param		\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			1,2,3,4,6	23.9	$\mathrm{mg/L}$	1	25.0	0.733	93	90 - 110
Democrat moder	ware is based on	the apile near	.14 DDD	in based or	the mile	and an	ile dunlicate	magnit		

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control spikes continued			LCSD			Spike	Matrix		Rec.		RPD		
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit		
Damm	F	С	LCSD Bogult	Unita	Dil.	Spike	Matrix	Rec.	Rec. Limit	RPD	RPD Limit		
Param Chloride	Г	1,2,3,4,6	Result 23.6	Units mg/L	1 1	Amount 25.0	Result 0.733	91	90 - 110	RPD 1	$\frac{11011}{20}$		

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	119506 101070		e Analyzed: Preparation		02-19 02-19			Analyzed Prepared	By: RL By: RL			
Param	F	С	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit			
Chloride		1,2,3,4,6	25.6	$\mathrm{mg/L}$	1	25.0	0.74	99	90 - 110			
Percent recov	Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.											
		LCS	SD		Spike	Matrix	Ree	с.	RPD			

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		1,2,3,4,6	25.6	$\mathrm{mg/L}$	1	25.0	0.74	99	90 - 110	0	20

Matrix Spikes

Matrix Spike	(MS-1) Spiked Sample: 385174
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QC Batch:	118957	Date Analyzed:	2015-01-30	Analyzed By:	AK
Prep Batch:	100574	QC Preparation:	2015-01-28	Prepared By:	AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	0.0973	$\mathrm{mg/L}$	1	0.100	< 0.000299	97	70 - 130
Toluene		5	0.0957	$\mathrm{mg/L}$	1	0.100	< 0.000247	96	70 - 130
Ethylbenzene		5	0.0959	$\mathrm{mg/L}$	1	0.100	< 0.000423	96	70 - 130
Xylene		5	0.290	$\mathrm{mg/L}$	1	0.300	0.0012	96	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	0.0992	$\mathrm{mg/L}$	1	0.100	< 0.000299	99	70 - 130	2	20
Toluene		5	0.0992	$\mathrm{mg/L}$	1	0.100	< 0.000247	99	70 - 130	4	20
Ethylbenzene		5	0.0978	$\mathrm{mg/L}$	1	0.100	< 0.000423	98	70 - 130	2	20
Xylene		5	0.298	$\mathrm{mg/L}$	1	0.300	0.0012	99	70 - 130	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.0912	0.0894	mg/L	1	0.1	91	89	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0973	0.0963	$\mathrm{mg/L}$	1	0.1	97	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 386734

QC Batch: Prep Batch:	$\frac{119497}{101060}$			Analyzed Preparatio					By: RL By: RL	
				MS			Spike	Matrix		Rec.
Param		\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			1,2,3,4,6	187	$\mathrm{mg/L}$	5	125	58.8	102	80 - 120
Democrat magor	rome is based on	the gniles neg		a bagad a	a tha anila	andan	ile dunlieste	magnit		

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matrix spikes continued											
D	Б	C	MSD	TT •/	וית	Spike	Matrix	р	$\operatorname{Rec.}_{\mathbf{T}}$	ססס	$\operatorname{RPD}_{\mathbf{L}}$
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		1,2,3,4,6	185	$\mathrm{mg/L}$	5	125	58.8	101	80 - 120	1	20
QC Batch: 119506	ked Sa	mple: 38	Date A	nalyzed:		5-02-19				yzed By	
Prep Batch: 101070			QC Pre	eparation	: 201	5-02-19			Prep	ared By	: RL
				MS			Spike	M	atrix		Rec.
Param		F	C I	Result	Units	Dil.	Amount	Re	esult R	ec.	Limit
Chloride		1,2	2,3,4,6	2880	$\mathrm{mg/L}$	100	2500	4	498 9	95 8	80 - 120
Percent recovery is based on th	e spike	e result.	RPD is	based on	the spi	ike and spi	ke duplica	te resu	ılt.		
			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		1,2,3,4,6	2920	$\mathrm{mg/L}$	100	2500	498	97	80 - 120	1	20

Calibration Standards

Standard (CCV-1)

QC Batch: 118957			Date Ar	nalyzed: 20	Analyzed By: AK			
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	$\mathrm{mg/L}$	0.100	0.104	104	80 - 120	2015-01-30
Toluene		5	$\mathrm{mg/L}$	0.100	0.102	102	80 - 120	2015-01-30
Ethylbenzene		5	$\mathrm{mg/L}$	0.100	0.101	101	80 - 120	2015-01-30
Xylene		5	$\mathrm{mg/L}$	0.300	0.306	102	80 - 120	2015-01-30

Standard (CCV-2)

QC Batch: 118957		Date Analyzed: 2015-01-30					Analyzed By: AK	
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/L	0.100	0.0997	100	80 - 120	2015-01-30
Toluene		5	$\mathrm{mg/L}$	0.100	0.0976	98	80 - 120	2015-01-30
Ethylbenzene		5	$\mathrm{mg/L}$	0.100	0.0978	98	80 - 120	2015-01-30
Xylene		5	$\mathrm{mg/L}$	0.300	0.294	98	80 - 120	2015-01-30

Standard (CCV-1)

QC Batch:	2C Batch: 119497			Date A	Analyzed:	2015-02-19		Analyzed By: RL	
					CCVs	CCVs	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			1,2,3,4,6	$\mathrm{mg/L}$	25.0	23.3	93	90 - 110	2015-02-19

Standard (CCV-2)

QC Batch: 119497

Date Analyzed: 2015-02-19

Analyzed By: RL

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed		
Chloride	1 lag	1,2,3,4,6	mg/L	25.0	24.1	90 - 110	2015-02-19			
Standard (CO	CV-1)									
QC Batch: 11	.9506		Date .	Analyzed:	2015-02-19		Analy	zed By: RL		
Param	D 1	Cert	Units	CCVs True	CCVs Found Conc.	CCVs Percent	Percent Recovery	Date		
Chloride	Flag	1,2,3,4,6	mg/L	Conc. 25.0	25.5	Recovery 102	Limits 90 - 110	Analyzed 2015-02-19		
Standard (CC	CV-2)									
QC Batch: 11	.9506		Date .	Analyzed:	2015-02-19		Analy	zed By: RL		
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed		

25.0

25.9

 $\mathrm{mg/L}$

1,2,3,4,6

104

90 - 110

2015-02-19

Chloride

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.

Report Date: February 20, 2015 7030714G025.001

Work Order: 15012327 Regency/Boyd Compressor Station Page Number: 16 of 16 Lea Co, NM

F Description

Qsr Surrogate recovery outside of laboratory limits.

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page. Please note, each attachment may consist of more than one page.

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LAB #	FIELD CODE		# CONTAINERS	Volume / Amount	WATER	SOIL	AIR SI UDGE	CLCC CL	HCI	HNO ₃		ICE	NONE		PATE	TIME	MTBE 8021	8021	TPH 418.1 / TX1005 / TX1005 TPH 8015 GPO / DPO / TVHC	PAH 8270 / 625	Total Metals Ag As	TCLP Metals Ag As Ba Cd Cr Pb	TCLP Volatiles	I CLP Semi Volatiles	RCI Tesucio	MS Vol.	GC/MS Semi. Vol. 8270 /	PCB's 8082 / 608	Pesticides 8081 /	Moisture Conto	CI, F, SO ₄ NO ₃ -N	la, Ca, Mg, K,	Solo sele			Turn Around Time if different from standard
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6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, Texas 79424 Texas 79922 El Paso, Texas 79703 Midland, Carroliton. Texas 75006

E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Thomas Franklin APEX/Titan 2351 W. Northwest Hwy. Suite 3321 Dallas, Tx, 75220

Report Date: April 30, 2015

Work Order: 15042018

Project Location: Lea Co, NM **Project Name:** Regency/Boyd Compressor Station Project Number: 7030714G025.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
391266	MW-1	water	2015-04-20	13:25	2015-04-20
391267	MW-2	water	2015-04-20	11:35	2015-04-20
391268	MW-3	water	2015-04-20	12:15	2015-04-20
391269	MW-4	water	2015-04-20	12:55	2015-04-20

Notes

• Work Order 15042018: Straight from the fields

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blain Lepturch

Dr. Blair Leftwich, Director James Taylor, Assistant Director Brian Pellam, Operations Manager

Report Contents

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Laboratory Control Spikes QC Batch 120986 - LCS (1) QC Batch 121167 - LCS (1)	9 9 9
Matrix Spikes QC Batch 120986 - MS (1) QC Batch 121167 - MS (1)	
QC Batch 120986 - CCV (1)	$\begin{array}{c} 13\\ 13 \end{array}$
Appendix Report Definitions Laboratory Certifications Standard Flags Attachments	$15 \\ 15$

Case Narrative

Samples for project Regency/Boyd Compressor Station were received by TraceAnalysis, Inc. on 2015-04-20 and assigned to work order 15042018. Samples for work order 15042018 were received intact at a temperature of 8.4 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	102379	2015-04-22 at 10:13	120986	2015-04-23 at 10:15
Chloride (IC)	E 300.0	102525	2015-04-29 at $10:00$	121167	2015-04-29 at $11:48$

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15042018 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 391266 - MW-1

Laboratory: Midland								
Analysis: BTEX		Analytical	Method:	S 8021E	3		Prep Method:	S 5030B
QC Batch: 120986		Date Anal	yzed:	2015-04	-23		Analyzed By:	AK
Prep Batch: 102379		Sample Pr	eparation:	2015-04	-22		Prepared By:	AK
				RL				
Parameter	Flag	Cert		Result	Units		Dilution	RL
Benzene	U	5	<(0.00100	mg/L		1	0.00100
Toluene	U	5	<(0.00100	mg/L		1	0.00100
Ethylbenzene	U	5	<(0.00100	mg/L		1	0.00100
Xylene	U	5	<(0.00100	mg/L		1	0.00100
						Spike	Percent	Recovery
Surrogate	Fl	lag Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.101	$\mathrm{mg/L}$	1	0.100	101	70 - 130
4-Bromofluorobenzene (4-B	FB)		0.0902	$\mathrm{mg/L}$	1	0.100	90	70 - 130

Sample: 391266 - MW-1

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (IC) 121167 102525		Analytical M Date Analyz Sample Prej	zed: 2015	0.0 -04-29	Prep Method: Analyzed By: Prepared By:	,
				RL			
Parameter		Flag	Cert	Result	Units	Dilution	RL
Chloride			1,2,3,4,6	2710	m mg/L	500	2.50

Sample: 391267 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	120986	Date Analyzed:	2015-04-23	Analyzed By:	AK
Prep Batch:	102379	Sample Preparation:	2015-04-22	Prepared By:	AK

Report Date: April 30, 2015 7030714G025.001			Work Orde cy/Boyd C				0	ber: 6 of 16 Lea Co, NM
D				RL				DI
Parameter	Flag	Cert		Result	Units		Dilution	RL
Benzene	U	5		0.00100	mg/L		1	0.00100
Toluene	U	5	-	0.00100	mg/L		1	0.00100
Ethylbenzene	U	5	-	0.00100	mg/L		1	0.00100
Xylene	U	5	<	0.00100	$\mathrm{mg/L}$		1	0.00100
C	Fla	C (TT •/		Spike	Percent	Recovery
Surrogate		g Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.104	mg/L	1	0.100	104	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0937	$\mathrm{mg/L}$	1	0.100	94	70 - 130
Sample: 391267 - MW-2 Laboratory: Lubbock Analysis: Chloride (IC) QC Batch: 121167 Prep Batch: 102525		Date	vtical Meth Analyzed: le Preparat	201	00.0 5-04-29		Prep Met Analyzed Prepared	By: RL
Parameter	Flag	Cert		RL Result	Units	5	Dilution	RL
Chloride	- 0			193	mg/I	-	10	2.50

Sample: 391268 - MW-3

Laboratory:MidlandAnalysis:BTEXQC Batch:120986Prep Batch:102379		Date A	cal Method: nalyzed: Preparation	2015-04	-23		Prep Method: Analyzed By: Prepared By:	S 5030B AK AK
				RL				
Parameter	Flag	Ce	rt	Result	Units		Dilution	RL
Benzene	U	5		< 0.00100	mg/L		1	0.00100
Toluene	U	5		< 0.00100	$\mathrm{mg/L}$		1	0.00100
Ethylbenzene	U	5		< 0.00100	$\mathrm{mg/L}$		1	0.00100
Xylene	U	5		< 0.00100	mg/L		1	0.00100
~						Spike	Percent	Recovery
Surrogate	F	lag Ce	rt Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.107	- 37	1	0.100	107	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0906	$\mathrm{mg/L}$	1	0.100	91	70 - 130

Report Date: April 30, 2015Work Order: 150420187030714G025.001Regency/Boyd Compressor Station							Page Number: 7 of 16 Lea Co, NM		
Sample: 391268 - MW-3									
Laboratory: Lubbock									
Analysis: Chloride (IC)				ical Metho		00.0 5-04-29		Prep Meth	,
QC Batch: 121167			Date A		Analyzed I				
Prep Batch: 102525			Sample		Prepared I	By: RL			
					RL				
Parameter	Flag		Cert		Result	Unit	5	Dilution	RL
Chloride			1,2,3,4,6		88.3	mg/I	L	5	2.50
Analysis: BTEX QC Batch: 120986		Dat	te Analy	Method: vzed: eparation:	S 8021B 2015-04- 2015-04-	-23		Prep Method: Analyzed By: Prepared By:	S 5030B AK AK
Analysis: BTEX QC Batch: 120986		Dat	te Analy	vzed:	2015-04-	-23		Analyzed By:	AK
Analysis: BTEX QC Batch: 120986 Prep Batch: 102379 Parameter	Flag	Dat	te Analy	vzed: eparation:	2015-04- 2015-04- RL Result	-23 -22 Units		Analyzed By: Prepared By: Dilution	AK AK RL
Analysis: BTEX QC Batch: 120986 Prep Batch: 102379 Parameter Benzene	Flag	Dat	te Analy nple Pre	vzed: eparation: <0	2015-04- 2015-04- RL Result).00100	-23 -22 Units mg/L		Analyzed By: Prepared By: Dilution	AK AK RL 0.00100
Analysis: BTEX QC Batch: 120986 Prep Batch: 102379 Parameter Benzene Toluene	U U	Dat	te Analy nple Pre <u>Cert</u> ⁵	<pre>vzed: eparation:</pre>	2015-04- 2015-04- RL Result 0.00100 0.00100	-23 -22 Units mg/L mg/L		Analyzed By: Prepared By: Dilution 1 1	AK AK RL 0.00100 0.00100
Analysis: BTEX QC Batch: 120986 Prep Batch: 102379 Parameter Benzene Toluene Ethylbenzene	U U U	Dat	te Analy nple Pre	<pre>vzed: eparation:</pre>	2015-04- 2015-04- RL Result 0.00100 0.00100 0.00100	-23 -22 Units mg/L mg/L mg/L		Analyzed By: Prepared By: Dilution 1 1 1	AK AK 0.00100 0.00100 0.00100
Analysis: BTEX QC Batch: 120986 Prep Batch: 102379 Parameter Benzene Toluene Ethylbenzene	U U	Dat	te Analy nple Pre <u>Cert</u> ⁵	<pre>vzed: eparation:</pre>	2015-04- 2015-04- RL Result 0.00100 0.00100	-23 -22 Units mg/L mg/L		Analyzed By: Prepared By: Dilution 1 1	AK AK 0.00100 0.00100 0.00100
Analysis: BTEX QC Batch: 120986 Prep Batch: 102379 Parameter Benzene	U U U	Dat	te Analy nple Pre	<pre>vzed: eparation:</pre>	2015-04- 2015-04- RL Result 0.00100 0.00100 0.00100	-23 -22 Units mg/L mg/L mg/L	Spike	Analyzed By: Prepared By: Dilution 1 1 1	AK AK 0.00100 0.00100 0.00100 0.00100
Analysis: BTEX QC Batch: 120986 Prep Batch: 102379 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	U U U	Dat	te Analy nple Pre	vzed: eparation:	2015-04- 2015-04- RL Result 0.00100 0.00100 0.00100 0.00100 Units	-23 -22 Units mg/L mg/L mg/L	Amount	Analyzed By: Prepared By: Dilution 1 1 1 1 Percent Recovery	AK AK 0.00100 0.00100 0.00100 0.00100 Recovery Limits
Analysis: BTEX QC Batch: 120986 Prep Batch: 102379 Parameter Benzene Toluene Ethylbenzene	U U U	Da Sar	te Analy nple Pre	vzed: eparation: <(<(<(<(2015-04- 2015-04- RL Result).00100).00100).00100).00100	-23 -22 Units mg/L mg/L mg/L	-	Analyzed By: Prepared By: Dilution 1 1 1 1 1 Percent	AK AK RL 0.00100 0.00100 0.00100 0.00100 Recovery

Laboratory: Lubbock Prep Method: N/AAnalysis: Chloride (IC) Analytical Method: E 300.0 QC Batch: 121167Date Analyzed: 2015-04-29Analyzed By: RLPrep Batch: 102525 Sample Preparation: Prepared By: RL RL Dilution Cert Result Parameter Units Flag RL Chloride 1,2,3,4,6 215mg/L 10 2.50

Chloride

Method Blanks

Method Blank (1)	QC Batch: 120986							
QC Batch: 120986		Date A	nalyzed:	2015-04-	-23		Analyzed	l By: AK
Prep Batch: 102379			paration:	2015-04-	22		Preparec	•
					MDL			
Parameter	Flag		Cert		Result		Units	RL
Benzene			5		< 0.000299		mg/L	0.001
Toluene			5		< 0.000247		$\mathrm{mg/L}$	0.001
Ethylbenzene			5		< 0.000423		m mg/L	0.001
Xylene			5		< 0.000552		$\mathrm{mg/L}$	0.001
						Q :1	Developet	D
C	D 1	Cart	D14	TT:+	D:1	Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.104	mg/L	1	0.100	104	70 - 130
4-Bromofluorobenzene (4	-BFB)		0.0925	$\mathrm{mg/L}$	1	0.100	92	70 - 130
Method Blank (1)	QC Batch: 121167							
QC Batch: 121167		Date A	nalyzed:	2015-04	-29		Analyze	d By: RL
Prep Batch: 102525			paration:	2015-04	-29		Prepareo	
					MDL			
Parameter	Flag		Cert		Result		Units	RL
<u><u> </u></u>	0							

1,2,3,4,6

0.926

 $\mathrm{mg/L}$

2.5

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch:	120986	Date Analyzed:	2015-04-23	Analyzed By:	AK
Prep Batch:	102379	QC Preparation:	2015-04-22	Prepared By:	AK

			LCS			Spike	Matrix		Rec.
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	0.117	$\mathrm{mg/L}$	1	0.100	< 0.000299	117	70 - 130
Toluene		5	0.103	$\mathrm{mg/L}$	1	0.100	< 0.000247	103	70 - 130
Ethylbenzene		5	0.0997	$\mathrm{mg/L}$	1	0.100	< 0.000423	100	70 - 130
Xylene		5	0.299	$\mathrm{mg/L}$	1	0.300	< 0.000552	100	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	0.112	$\mathrm{mg/L}$	1	0.100	< 0.000299	112	70 - 130	4	20
Toluene		5	0.100	$\mathrm{mg/L}$	1	0.100	< 0.000247	100	70 - 130	3	20
Ethylbenzene		5	0.0977	$\mathrm{mg/L}$	1	0.100	< 0.000423	98	70 - 130	2	20
Xylene		5	0.288	$\mathrm{mg/L}$	1	0.300	< 0.000552	96	70 - 130	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.0959	0.0993	mg/L	1	0.100	96	99	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0934	0.0917	$\mathrm{mg/L}$	1	0.100	93	92	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	$\frac{121167}{102525}$		Date Analyzed:2015-04-29Analyzed ByQC Preparation:2015-04-29Prepared By							
				LCS			Spike	Matrix		Rec.
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			1,2,3,4,6	22.6	$\mathrm{mg/L}$	1	25.0	< 0.349	90	90 - 110
Democrat mason	rome in based on	the smile near	-14 DDD	a bagad as	the mile	and an	ile dunlieste	magnit		

Report Date: April 30, 2015 7030714G025.001		Work Order: 15042018 Regency/Boyd Compressor Station							Page Number: 10 of 16 Lea Co, NM			
control spikes continued			LCSD			Spike	Matrix		Rec.		RPD	
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit	
			LCSD			Spike	Matrix		Rec.		RPD	
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit	
Chloride		1,2,3,4,6	22.7	$\mathrm{mg/L}$	1	25.0	< 0.349	91	90 - 110	0	20	

Matrix Spikes

Matrix Spike	(MS-1) Spiked Sample: 391266
--------------	-------	-------------------------

QC Batch:	120986	Date Analyzed:	2015-04-23	Analyzed By:	AK
Prep Batch:	102379	QC Preparation:	2015-04-22	Prepared By:	AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	0.116	$\mathrm{mg/L}$	1	0.100	< 0.000299	116	70 - 130
Toluene		5	0.104	$\mathrm{mg/L}$	1	0.100	< 0.000247	104	70 - 130
Ethylbenzene		5	0.0987	$\mathrm{mg/L}$	1	0.100	< 0.000423	99	70 - 130
Xylene		5	0.294	$\mathrm{mg/L}$	1	0.300	< 0.000552	98	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	0.113	$\mathrm{mg/L}$	1	0.100	< 0.000299	113	70 - 130	3	20
Toluene		5	0.102	$\mathrm{mg/L}$	1	0.100	< 0.000247	102	70 - 130	2	20
Ethylbenzene		5	0.0977	$\mathrm{mg/L}$	1	0.100	< 0.000423	98	70 - 130	1	20
Xylene		5	0.291	$\mathrm{mg/L}$	1	0.300	< 0.000552	97	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.101	0.102	mg/L	1	0.1	101	102	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0917	0.0941	$\mathrm{mg/L}$	1	0.1	92	94	70 - 130

Matrix Spike (MS-1) Spiked Sample: 392057

QC Batch: Prep Batch:	$\frac{121167}{102525}$			e Analyzed Preparatio					•	By: RL By: RL
				MS			Spike	Matrix		Rec.
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			1,2,3,4,6	439	$\mathrm{mg/L}$	10	250	188	100	80 - 120
Democrat magor	rome is based on t	he aniles near		a bagad a	a tha anily	and an	le dunlicato	magnit		

Report Date: April 30, 2015 7030714G025.001			Page Nu	12 of 16 Co, NM							
matrix spikes continued			MSD			Spike	Matrix		Rec.		RPD
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
_	_		MSD			Spike	Matrix	_	Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		1,2,3,4,6	436	$\mathrm{mg/L}$	10	250	188	99	80 - 120	1	20

Calibration Standards

Standard (CCV-1)

QC Batch: 120986			Date Ar	nalyzed: 20	Analyz	zed By: AK		
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/L	0.100	0.112	112	80 - 120	2015-04-23
Toluene		5	$\mathrm{mg/L}$	0.100	0.0992	99	80 - 120	2015-04-23
Ethylbenzene		5	$\mathrm{mg/L}$	0.100	0.0989	99	80 - 120	2015-04-23
Xylene		5	$\mathrm{mg/L}$	0.300	0.286	95	80 - 120	2015-04-23

Standard (CCV-2)

QC Batch: 120986			Date Ar	nalyzed: 20	Analyz	zed By: AK		
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/L	0.100	0.115	115	80 - 120	2015-04-23
Toluene		5	$\mathrm{mg/L}$	0.100	0.101	101	80 - 120	2015-04-23
Ethylbenzene		5	$\mathrm{mg/L}$	0.100	0.0990	99	80 - 120	2015-04-23
Xylene		5	$\mathrm{mg/L}$	0.300	0.289	96	80 - 120	2015-04-23

Standard (CCV-1)

QC Batch:	121167			Date A	nalyzed:	2015-04-29		Analy	zed By: RL
					CCVs	CCVs	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param	Fl	ag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		1	1,2,3,4,6	$\mathrm{mg/L}$	25.0	22.5	90	90 - 110	2015-04-29

Standard (CCV-2)

QC Batch: 121167

Date Analyzed: 2015-04-29

Analyzed By: RL

Report Date: Ap 7030714G025.001	· · · · · · · · · · · · · · · · · · ·			Work Order: cy/Boyd Cor	15042018 mpressor Sta	tion	Page Nu	Page Number: 14 of 16 Lea Co, NM				
				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date				
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed				
Chloride		1,2,3,4,6	$\mathrm{mg/L}$	25.0	22.7	91	90 - 110	2015-04-29				

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
С	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-15-11	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.

Report Date: April 30, 2015 7030714G025.001 Work Order: 15042018 Regency/Boyd Compressor Station Page Number: 16 of 16 Lea Co, NM

F Description

Qsr Surrogate recovery outside of laboratory limits.

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page. Please note, each attachment may consist of more than one page.

U	XCH	=16		(L.	201	\mathcal{L}															~~~	A 151 Z				
Office Proje	ct Mana er's Name	on <u>Mia</u> nger <u>The</u> K.Frou	maindel	s Ī	Tank li	Addre Conta Phon PO/S Sample	act: e: O #: S Signa		Lane La		78				ANA Rec Pixes	UEST	red							Lab us Due D Temp. c when re 1 2	•	: B.4 5
											ype of C VOA		ers 250 4	nl	×	/ []	/ /		/ /		/ /	/				
Matrix	Date	Time	C o m p	Grab	५ - ठेञ्र् ते Identifying N	larks of Sa	mple(s)	Start Depth	End Depth	VOA	AG 1Lt	1 520	Glass Jar	en lo	BIEN	- Former		/ /					Lab Sa	ample ID	(Lab Use C	inly)
W	2015	1325		x	MW-1					K		X		K								39	120	6		
		1135			mw-a	•				1)										391	126	7		
\square		1215			MW-3)																391	26	8		
*	*	1255	,	\downarrow	mw-4					1		1		V								391	124	69		
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	round tim	e 🗆 No A(S)gnature			25% Rush Date:	50% R Time:	*****	100% ved bv:		ature)			Date	: 1	Tir	ne:	NOTE	S:								
Ľ"		M.		1	Date:	1:43	NU	10	4	-/		*	124	В	16!4	B	Sam	plan	, for	s.	the	- R.	لمل			
Relind	uished by	y (Signature))		Date:	Time:	Recei	ved by:	(Signa	ature)			Date	:	Tir	ne:										
Relin	quished b	y (Signature	9)		Date:	Time:	Recei	ved by:	: (Signa	ature)			Date	:	Tir	ne:	Dir	ent	アング		لعج	عمن	Ъ.			
Relin	quished b	y (Signature	ə)		Date:	Time:	Recei	ved by:	: (Signa	ature)			Date	:	Tir	ne:										
Matrix Conta		VW - Wastew /OA - 40 ml v			W - Water A/G - Amber	S - Soil Or Glass	SD - So Liter	blid	L - Liqui 250 ml	id / Glass	A - Air B wide m	Bag	C P/	- Cha	arcoal tu lastic or	be	SL - slu	dge	0 - 0	il						

Apex TITAN, Inc. • 2351 W. Northwest Hwy., Suite 3321 • Dallas, Texas 75220 • Office: 214-350-5469 • Fax 214-350-2914



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

October 14, 2015

Bernie Bockish GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

RE: Boyd

OrderNo.: 1510120

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/5/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: GHD Client Sample ID: GW-082149-093015-SP-MW1 **Project:** Boyd Collection Date: 9/30/2015 5:05:00 PM Lab ID: 1510120-001 Matrix: AQUEOUS Received Date: 10/5/2015 10:05:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT 500 10/10/2015 11:33:23 AM B29470 Chloride 3100 250 mg/L SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 5860 *D mg/L 10/7/2015 7:06:00 PM 21690 100 1

Hall Environmental Analysis Laboratory, Inc.

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 7 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit

CLIENT: GHD Client Sample ID: GW-082149-093015-SP-MW2 **Project:** Boyd Collection Date: 9/30/2015 5:30:00 PM Lab ID: 1510120-002 Matrix: AQUEOUS Received Date: 10/5/2015 10:05:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT 10 10/9/2015 2:17:08 PM Chloride 180 5.0 mg/L R29463 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 835 100 *D mg/L 10/7/2015 7:06:00 PM 21690 1

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*
-------------	---

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit

CLIENT: GHD Client Sample ID: GW-082149-093015-SP-MW3 **Project:** Boyd Collection Date: 9/30/2015 4:42:00 PM Lab ID: 1510120-003 Matrix: AQUEOUS Received Date: 10/5/2015 10:05:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT 10 10/9/2015 2:29:32 PM Chloride 170 5.0 mg/L R29463 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 740 200 *D mg/L 10/7/2015 7:06:00 PM 21690 1

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*
-------------	---

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit

CLIENT: GHD Client Sample ID: GW-082149-093015-SP-MW4 **Project:** Boyd Collection Date: 9/30/2015 4:00:00 PM Lab ID: 1510120-004 Matrix: AQUEOUS Received Date: 10/5/2015 10:05:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT 100 10/9/2015 3:06:46 PM Chloride 200 50 mg/L R29463 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 930 100 *D mg/L 10/7/2015 7:06:00 PM 21690 1

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*
-------------	---

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 7 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit

CLIENT: GHD			Client Samp	le ID: GW-082149-093015-SP-l	DUP			
Project: Boyd	Collection Date: 9/30/2015							
Lab ID: 1510120-005	Matrix: A	Matrix: AQUEOUS Received Date: 10/5/2015 10:05:00 AM						
Analyses	Result	RL Qua	al Units	DF Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS				Analyst:	LGT			
Chloride	190	5.0	mg/L	10 10/9/2015 3:44:00 PM	R29463			
SM2540C MOD: TOTAL DISSOLVE	O SOLIDS			Analyst:	KS			
Total Dissolved Solids	865	100 *[D mg/L	1 10/7/2015 7:06:00 PM	21690			

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*
-------------	---

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 7 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL

QC SUMMARY REPORT	
Hall Environmental Analysis Laboratory, Inc	2

WO#:	1510120
	14-Oct-15

Client: Project:		GHD Boyd										
Sample ID	MD	Boya	SomoT	ype: MI		Too	tCodo: E	PA Mothod	300.0: Anions			
•									SUU.U: Anions	•		
Client ID:	PBW			1D: R2			RunNo: 2					
Prep Date:			Analysis D	ate: 1	0/9/2015	S	SeqNo: 8	96158	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride			ND	0.50								
Sample ID	LCS		SampT	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anions	;		
Client ID:	LCSW		Batch	ID: R2	9463	F	RunNo: 2	9463				
Prep Date:			Analysis D	ate: 1	0/9/2015	5	SeqNo: 8	96159	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride			4.9	0.50	5.000	0	98.7	90	110			
Sample ID	MB		SampT	уре: МІ	BLK	Tes	tCode: E	PA Method	300.0: Anions	;		
Client ID:	PBW		Batch	ID: B 2	9470	F	RunNo: 2	9470				
Prep Date:			Analysis D	ate: 1	0/10/2015	S	SeqNo: 8	96424	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride			ND	0.50								
Sample ID	LCS		SampT	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anions	;		
Client ID:	LCSW		Batch	ID: B 2	9470	F	RunNo: 2	9470				
Prep Date:			Analysis D	ate: 1	0/10/2015	S	SeqNo: 8	96425	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride			4.9	0.50	5.000	0	97.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Client:GHDProject:Boyd

Sample ID MB-21690	SampType: MBLK	TestCode: SM2540C M	MOD: Total Dissolved Solids					
Client ID: PBW	Batch ID: 21690	RunNo: 29379						
Prep Date: 10/6/2015	Analysis Date: 10/7/2015	SeqNo: 893351	Units: mg/L					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Total Dissolved Solids	ND 20.0							
Total Dissolved Solids Sample ID LCS-21690	ND 20.0 SampType: LCS	TestCode: SM2540C M	OD: Total Diss	olved So	lids			
Sample ID LCS-21690		TestCode: SM2540C M RunNo: 29379	OD: Total Diss	olved So	lids			
Sample ID LCS-21690	SampType: LCS		OD: Total Diss Units: mg/L	olved So	lids			
Client ID: LCSW	SampType: LCS Batch ID: 21690 Analysis Date: 10/7/2015	RunNo: 29379		olved So %RPD	lids RPDLimit	Qual		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuq TEL: 505-345-3975 F Website: www.hall	4901 uerque AX: 50	Hawkins NE 2, NM 87109 05-345-4107	Sa	amp	ole Log-In Cł	neck List
Client Name: CRA Albuquerque	Work Order Number:	15101	20			RcptNo:	1
Received by/date:	10/05/15				// ~		
Logged By: Lindsay Mangin	10/5/2015 10:05:00 AM		0	proj th	100		
Completed By. Lindsay Mangin Reviewed By:	00515 10:29:56 AM		0	fordigth	l de la constante de la consta		
Chain of Custody							
1. Custody seals intact on sample bottles?		Yes		No		Not Present 🗹	
2. Is Chain of Custody complete?		Yes	\checkmark	No		Not Present	
3. How was the sample delivered?		Clien	t				
<u>Log In</u>							
4. Was an attempt made to cool the samp	es?	Yes	V	No		NA 🗆	
5. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes	~	No			
6. Sample(s) in proper container(s)?		Yes		No			
7. Sufficient sample volume for indicated to	est(s)?	Yes	V	No			
8. Are samples (except VOA and ONG) pro	operly preserved?	Yes	\checkmark	No			
9. Was preservative added to bottles?		Yes		No	✓	NA 🗆	
10. VOA vials have zero headspace?		Yes		No		No VOA Vials 🗹	
11. Were any sample containers received b	roken?	Yes		No		# of preserved bottles checked	
12. Does paperwork match bottle labels?		Yes	~	No		for pH: (<2 o	r >12 unless noted)
(Note discrepancies on chain of custody		Yes	~	No		Adjusted?	
 Are matrices correctly identified on Chain Is it clear what analyses were requested 		Yes					
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes		No		Checked by:	
Special Handling (if applicable)							
16. Was client notified of all discrepancies v	with this order?	Yes		No		NA 🗹	
Person Notified:	Date	1.00			Eav	In Person	
By Whom: Regarding:	Via: [_ eM	ail 🗌 Pho		Fax		

- 17. Additional remarks:
- 18. Cooler Information

Client Instructions:

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Not Present			

Client: Mailing	GHR Address) - A15 6/2/ 5 M, 87110	ustody Record ugnergine Indian School Rd NE Ste 200	Project #:"	□ Rush e: {				01 H	awk	WWV	AL v.hal NE - 975	Ilenv Alb	ironi uque	5 L ment erqu 505-	AE tal.co e, Ni -345-	30 om M 87 -410	R /	ATC	ORY	
Phone email o	#: <u>\$0</u> r Fax#: <u>]</u> Package: dard itation	S-884 Bernard	Bockisch Oghd.com	0821 Project Mana Bernie Back Sampler: S On Ice:	iger:	280-0572 Z	+ TMB's (8021)	+ MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	18.1)	04.1)	8270 SIMS)		Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	s / 8082 PCB's	uest		200.0	POC -		or N)
Date	Time	Matrix	Sample Request ID	Sample Tem Container Type and #	perature: 4 Preservative Type	HEAL NO.	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GI	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,Cl,N0	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE	The asyo		Air Bubbles (Y or N)
1/30/15	1705 1730 1642 1600	GW	6W-082149-093015-5P-MW1 6W-082149-093015-5P-MW2 GW-082149-093015-5P-MW3 GW-082149-093015-5P-MW4 GW-082149-093015-5P-DUP			-001 -002 -003 -004 -005												XXXXX	XXXXX		
Date: 0/03/15 Date: 0/04/15	Time: Time: 100+5	Relinquist Relinquist Relinquist Me	m Heren	Received by: Melo	uming ic	Date Time 10/5/15 \$.30 Date Time 105/15 1005		mark	S:												

It necessary samples submitted to Hall Environment may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

November 05, 2015

Christine Mathews GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

OrderNo.: 1511001

RE: Boyd Compressor Station

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/30/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environ	mental Analysis	Laborat	ory, Inc.			Analytical Report Lab Order: 151100 Date Reported: 11/	1
	HD oyd Compressor Statio	n			La	ab Order: 1511	001
Lab ID:	1511001-001			Collect	ion Date:	10/27/2015 7:45:00	AM
Client Sample ID:	GW-082149-102715-	CM-001			Matrix:	AQUEOUS	
Analyses		Result	RL Qual	Units		DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	1700	50 *	mg/L		Ai 100 11/3/2015 2:30:0	nalyst: LGT 5 PM R29996
Lab ID:	1511001-002			Collect	ion Date:	10/27/2015 1:50:00	PM
Client Sample ID:	GW-082149-102715-	CM-002			Matrix:	AQUEOUS	
Analyses		Result	RL Qual	Units		DF Date Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS					Aı	nalyst: LGT
Chloride		1500	50 *	mg/L		100 11/3/2015 3:19:4	2 PM R29996
Lab ID:	1511001-003			Collect	ion Date:	10/27/2015 5:30:00	PM
Client Sample ID:	GW-082149-102715-	CM-003			Matrix:	AQUEOUS	
Analyses		Result	RL Qual	Units		DF Date Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS					Aı	nalyst: LGT
Chloride		1500	50 *	mg/L		100 11/3/2015 3:44:3	1 PM R29996
Lab ID:	1511001-004			Collect	ion Date:	10/28/2015 7:20:00	AM
Client Sample ID:	GW-082149-102815-	CM-004			Matrix:	AQUEOUS	
Analyses		Result	RL Qual	Units		DF Date Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS					Aı	nalyst: LGT
Chloride		1600	50 *	mg/L		100 11/3/2015 4:09:20	0 PM R29996
Lab ID:	1511001-005			Collect	ion Date:	10/28/2015 12:20:0	0 PM
Client Sample ID:	GW-082149-102815-	CM-005			Matrix:	AQUEOUS	
Analyses		Result	RL Qual	Units		DF Date Analyzed	Batch ID

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

50

1400

Qualifiers:

*

D

Н

ND

R

Chloride

mg/L

- В Analyte detected in the associated Method Blank
 - Value above quantitation range Е
 - J Analyte detected below quantitation limits Page 1 of 3

100 11/3/2015 4:34:10 PM R29996

- Р Sample pH Not In Range
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Analytical Report

Lab Order: 1511001

Hall Environ	mental Analysis	Laborat	ory, Inc.		Date Reported: 11/5/2015	
	GHD Goyd Compressor Statio	n			Lab Order: 1511001	
Lab ID:	1511001-006		(Collecti	ion Date: 10/28/2015 5:15:00 PM	
Client Sample ID:	GW-082149-102815-	CM-006			Matrix: AQUEOUS	
Analyses		Result	RL Qual	Units	DF Date Analyzed Batch	1D
EPA METHOD 300 Chloride	.0: ANIONS	1300	50 *	mg/L	Analyst: L(100 11/3/2015 4:58:59 PM R2	-
Lab ID:	1511001-007		(Collecti	ion Date: 10/29/2015 6:25:00 AM	
Client Sample ID:	GW-082149-102915-	CM-007			Matrix: AQUEOUS	
Analyses		Result	RL Qual	Units	DF Date Analyzed Batch	n ID
EPA METHOD 300	.0: ANIONS				Analyst: Lo	GT
Chloride		1500	50 *	mg/L	100 11/3/2015 5:48:38 PM R2	29996
Lab ID:	1511001-008		(Collecti	ion Date: 10/29/2015 11:30:00 AM	
Client Sample ID:	GW-082149-102915-	CM-008			Matrix: AQUEOUS	
Analyses		Result	RL Qual	Units	DF Date Analyzed Batch	n ID
EPA METHOD 300	.0: ANIONS				Analyst: Lo	ЭT
Chloride		1100	50 *	mg/L	100 11/3/2015 6:13:27 PM R2	29996

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 2 of 3
- Sample pH Not In Range Р
- RL Reporting Detection Limit

Client: Project:	GHD Boyd Compressor Station
Sample ID MB	SampType: MBLK TestCode: EPA Method 300.0: Anions
Client ID: PBW	Batch ID: R29996 RunNo: 29996
Prep Date:	Analysis Date: 11/3/2015 SeqNo: 913817 Units: mg/L
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 0.50
Sample ID LCS	SampType: LCS TestCode: EPA Method 300.0: Anions
Client ID: LCSW	Batch ID: R29996 RunNo: 29996
Prep Date:	Analysis Date: 11/3/2015 SeqNo: 913818 Units: mg/L
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	4.8 0.50 5.000 0 96.3 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD		Work Order Numbe	er: 1511(01			ReptNo:	1
Received by/date:	- 10/30/15							
Logged By: Anne T	horne	10/30/2015 1:20:00 F	РМ		Anne 2	H.	-	
Completed By: Anne	horne	11/2/2015			Anne 2 Anne 2	Am	~	
Reviewed By:	¥∽	abortis						
Chain of Custody	<u> </u>	100413						
1. Custody seals intact of	on sample bottles?		Yes		No		Not Present 🗹	
2. Is Chain of Custody c	omplete?		Yes	\checkmark	No		Not Present 🗌	
3. How was the sample	delivered?		Clien	t				
<u>Log In</u>								
4. Was an attempt made	e to cool the sampl	es?	Yes		No		NA 🗌	
5. Were all samples rec	eived at a temperat	ure of >0° C to 6.0°C	Yes	✓	No		na 🗆	
6. Sample(s) in proper of	container(s)?		Yes	✓	No			
7. Sufficient sample volu	ime for indicated te	st(s)?	Yes	\checkmark	No			
8. Are samples (except)	/OA and ONG) pro	perly preserved?	Yes	\checkmark	No			
9. Was preservative add	ed to bottles?		Yes		No	✓	NA 🗌	
10.VOA vials have zero l	neadspace?		Yes		No		No VOA Vials 🗹	
11. Were any sample co	ntainers received b	roken?	Yes		No	\checkmark	# of preserved	
				—			bottles checked	
12. Does paperwork mate (Note discrepancies of		N	Yes		No		for pH: (<2	or >12 unless noted
13 Are matrices correctly			Yes	\checkmark	No		Adjusted?	
14, Is it clear what analys			Yes		No			
15. Were all holding time:	s able to be met?		Yes	\checkmark	No		Checked by:	
(If no, notify custome	r for authorization.)							
Du ssial Haudling /if	annlingh(a)							
Special Handling (if 16. Was client notified of		ith this order?	Yes		No		NA 🗹	
		······						
Person Notified	:]	Date	A			F		
By Whom:		Via:	eM		Phone	Fax	In Person	
Regarding:]						<u> </u>	
Client Instructio	ons:					_		
17. Additional remarks:								
18. Cooler Information	_							
Cooler No Tem	p °C Condition	Seal Intact Seal No	Seal D	ate	Signed E	3y		

CONESTOGA-ROVERS & ASSOCIATES Pho	IAIN s: <u>617</u> one: <u>505</u>	OF 1/1 884	CU lian	STO School Z Fa	DY Rd	REC NE 1	TZOG ABQ,	NM coo	C NO.: $4 3 U O$ PAGEOF See Reverse Side for Instructions)
Project No/ Phase/Task Code: 082149 Project Name: Boyd Compressor Station Project Location: Eurice, NM	Laborator Hall Lab Cont SAMPLE	ry Name Envi act: MCL	; rany L F Contai	ental Ner QU ESERVAT	Analy M	psisla	Lab Location:	REQUESTED	SSOW ID: Cooler No: Carrier: H7UND Del VEREd
Sampler(s), Mattews	Matrix Code (see back of COC)	Unpreserved Hvdrorchloric Acid (HCI)	id (HNO ₃)			Other: Total Containers/Sample	Marke	MS/MSD Request	
	WG G WG G		Ē Ē						15/1601 -001 702 -003 -004
$ \frac{1}{6} 1000000000000000000000000000000000000$	W6 G								-005 -206 -207 -208
9 1 0 1 1 1 1 1									
2 1 3 1 4 1 5 TAT Required in business days (use separate COCs for different TATe)			Total	lumber of	f Contain	ners: E	Notes/ Special R		atterns eghd. com
TAT Required in business days (use separate cocord, and a company of the company	parte 0/30/1		IME	n Cooler 1. 2.		RECEIVE		Christine mi bergie ba HEAL	10/30/17 1320
	JSTODY IS A L			3. - All Fiel	<i>ds Must</i> PINK – S	Ве Сомі	PLETED ACCURATELY	— Sampling Crew	CRA Form: COC-10B (20110804



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

December 30, 2015

Bernie Bockish GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

RE: Boyd Compressor Station

OrderNo.: 1512857

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 5 sample(s) on 12/17/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	GHD			С	lient Samp	ple ID: GW-082149-121515-CK-MW-1
Project:	Boyd Compressor Station				Collection	Date: 12/15/2015 2:55:00 PM
Lab ID:	1512857-001	Matrix: A	QUEOUS		Received	Date: 12/17/2015 1:47:00 PM
Analyses		Result	RL Q	ual	Units	DF Date Analyzed Batch
EPA MET	THOD 300.0: ANIONS					Analyst: LGT
Chloride		1700	100	*	mg/L	200 12/23/2015 4:50:01 PM R3107
SM25400	MOD: TOTAL DISSOLVED S	SOLIDS				Analyst: KS
Total Dis	solved Solids	3680	40.0	*D	mg/L	1 12/21/2015 9:02:00 AM 22872

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit

12/21/2015 9:02:00 AM 22872

CLIENT:	GHD			Client Samp	le ID: GW-082149-121515-C	CK-MW-2
Project:	Boyd Compressor Station			Collection	Date: 12/15/2015 2:30:00 PM	1
Lab ID:	1512857-002	Matrix:	AQUEOUS	Received	Date: 12/17/2015 1:47:00 PM	1
Analyses		Result	RL Qua	al Units	DF Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS				Analy	/st: LGT
Chloride		170	10	mg/L	20 12/18/2015 4:36:07 F	PM R30979
SM25400	MOD: TOTAL DISSOLVED	SOLIDS			Analy	/st: KS

40.0

*D

mg/L

1

880

Hall Environmental Analysis Laboratory, Inc.

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*
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Total Dissolved Solids

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit

CLIENT:	GHD			C	lient Sam	ple ID: GV	W-082149-121515-C	CK-MW-3
Project:	Boyd Compressor Station				Collection	n Date: 12/	/15/2015 3:20:00 PM	1
Lab ID:	1512857-003	Matrix:	AQUEOU	5	Receive	d Date: 12/	/17/2015 1:47:00 PN	1
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS						Analy	/st: LGT
Chloride		160	10		mg/L	20	12/18/2015 5:00:57 F	PM R30979
SM25400	C MOD: TOTAL DISSOLVED S	SOLIDS					Analy	/st: KS
Total Dis	ssolved Solids	852	40.0	*D	mg/L	1	12/21/2015 9:02:00 A	AM 22872

Hall Environmental Analysis Laboratory, Inc.

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* **Qualifiers:**

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 7 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: GW-082149-121515-CK-MW-4 **Project:** Boyd Compressor Station Collection Date: 12/15/2015 3:45:00 PM Lab ID: 1512857-004 Matrix: AQUEOUS Received Date: 12/17/2015 1:47:00 PM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 210 10 mg/L 20 12/18/2015 5:50:35 PM R30979 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 980 40.0 *D mg/L 12/21/2015 9:02:00 AM 22872 1

Qualifiers:	*
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- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report Lab Order 1512857

12/21/2015 9:02:00 AM 22872

CLIENT: GHD Client Sample ID: GW-082149-121515-CK-DUP **Project:** Boyd Compressor Station Collection Date: 12/15/2015 Lab ID: 1512857-005 Matrix: AQUEOUS Received Date: 12/17/2015 1:47:00 PM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 1900 100 mg/L 200 12/23/2015 5:02:26 PM R31072 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS

*D

40.0

mg/L

3510

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Oualifiers: *

Total Dissolved Solids

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 7 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/30/2015

1

WO#:	1512857
	30-Dec-15

Client: Project:		GHD Boyd Compressor Station
Sample ID	MB	SampType: MBLK TestCode: EPA Method 300.0: Anions
Client ID:	PBW	Batch ID: R30979 RunNo: 30979
Prep Date:		Analysis Date: 12/18/2015 SeqNo: 947498 Units: mg/L
Analyte Chloride		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual ND 0.50
Sample ID	LCS	SampType: LCS TestCode: EPA Method 300.0: Anions
Client ID:	LCSW	Batch ID: R30979 RunNo: 30979
Prep Date:		Analysis Date: 12/18/2015 SeqNo: 947504 Units: mg/L
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		5.1 0.50 5.000 0 102 90 110
Sample ID	MB	SampType: MBLK TestCode: EPA Method 300.0: Anions
Client ID:	PBW	Batch ID: R31072 RunNo: 31072
Prep Date:		Analysis Date: 12/23/2015 SeqNo: 950656 Units: mg/L
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 0.50
Sample ID	LCS	SampType: LCS TestCode: EPA Method 300.0: Anions
Client ID:	LCSW	Batch ID: R31072 RunNo: 31072
Prep Date:		Analysis Date: 12/23/2015 SeqNo: 950658 Units: mg/L
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		4.9 0.50 5.000 0 97.1 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Client: Project:	GHD Boyd Co	ompressor S	tation										
Sample ID MB-22872 SampType: MBLK					TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	ent ID: PBW Batch ID: 22872 RunNo: 30970						0970						
Prep Date: 12/	18/2015	Analysis D	Date: 12/21/2015 SeqNo: 94				947106 Units: mg/L						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Total Dissolved Solids	ŝ	ND	20.0										
Sample ID LCS	TestCode: SM2540C MOD: Total Dissolved Solids												
Client ID: LCS	w	Batch	ID: 22	872	RunNo: 30970								
Prep Date: 12/	: 12/18/2015 Analysis Date: 12/21/2015 SeqNo: 947107						47107	Units: mg/L					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Total Dissolved Solids	S	1020	20.0	1000	0	102	80	120					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD	Work Order Number: 151285	7	RcptNo: 1
Received by/date: AQ	12/17/15		
Logged By: Ashley Gallegos	12/17/2015 1:47:00 PM	F	
Completed By: Ashley Gallegos	12/17/2015 2:41:17 PM	AJ	
Reviewed By:	12/18/15	U U	
Chain of Custody	• •		
1 Custody seals intact on sample bottles?	Yes	No 🗌	Not Present 🗹
2. Is Chain of Custody complete?	Yes	No 🗌	Not Present
3. How was the sample delivered?	Client		
<u>Log In</u>			
4. Was an attempt made to cool the sample	es? Yes	✓ No □	
5. Were all samples received at a temperatu	ure of >0° C to 6.0°C Yes	No 🗌	
6. Sample(s) in proper container(s)?	Yes	✓ No 🗌	
7. Sufficient sample volume for indicated tes	t(s)? Yes	🖌 No 🗌	
8. Are samples (except VOA and ONG) prop	perly preserved? Yes	No 🗌	
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗌
10.VOA vials have zero headspace?	Yes	No 🗌	No VOA Vials 🗹
11. Were any sample containers received bro	oken? Yes [No 🗹	# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	✓ No □	for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain	of Custody? Yes	🖌 🛛 No 🗌	Adjusted?
14. Is it clear what analyses were requested?	Yes	🗹 No 🗌	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes	🗹 No 🗌	Checked by:

Special Handling (if applicable)

6. Was client notified of all discrepancies with this order?	Yes 🗌	No	NA 🗹
Person Notified:	Date		
By Whom:			n Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

	Cooler No	Temp °C	Condition			Seal Date	Signed By				
1 4.1 Good Not Present			Good	Not Present							

Page 1 of 1

Chain-of-Custody Record			Turn-Around Time:											/ T F				-	FAI		
Client: GHD			X Standard				HALL ENVIRONMENTAL														
				Project Name:				www.hallenvironmental.com													
Mailing	Address	G121	1 NDIAN SCHOOL NE,	BOYD COMPRESSOR STATION				4901 Hawkins NE - Albuguergue, NM 87109													
	STE 200, ABQ, NM, 87110				Project #:				Tel. 505-345-3975 Fax 505-345-4107												
Phone #: 505-884-0672				- 082149			Analysis Request														
email or Fax#: BELMARD, BOCKISCH @GHD.COM			Project Manager:				nly)	(Ô					O₄)								
QA/QC Package:				BERMIE BOCKISCH			TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)			(S		Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	CB's			0	0		
Star			Level 4 (Full Validation)				3's (<u>ö</u>	8			SIMS)		² ,PC	Ъ М			300.0	a540		
Accred	•	□ Othe	r	Sampler: CALE KAMDU On Ice: XYes □ No			TME	ТРЬ			504.1)	8270		NO.	8081 Pesticides / 8082 PCB'			m			î
□ NELAP □ Other □ EDD (Type)				perature: 4	□ No	SE +	± =	GR	41	2 D		als	Ő	des /		VOA	in)	N.		≺ or	
							BTEX + MTBE	MTE	5B (TPH (Method 418.1)	EDB (Method	PAH's (8310 or	RCRA 8 Metals	F,CI,	sticio	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	+ X	+ ×	801	۳.	Ň,	l's (8	٤A 8) su	1 Pe)B() (Se	2	á		Subb
					Type	1512857	BTE	BTE	НЧТ	H		PAH	RCF	Anio	808	826(827(Ċ	<u>}</u>		AirE
12-15-15	1455	GW	Bw- 082149- 121515- CK- Mw-1	500 ML PLASTIC	NONE	-001												\mathbf{X}	X		<u> </u>
}	1470	1	6W-082149-121515-CK- MW-2	1)	-002												X	X	\neg	
	1520		610-052141-121515-CK- Mar 3			-003												X	X		
	1545		Ми-3 Gunos2149-121515- СК- Иш-4			-004												X	X		
V	/	V.	6032144-121515-ck- DUP			-005												\mathbf{X}	X	+	-
			· · · ·																		·
			·																		
																				$\neg \uparrow$	_
																	··· ·				
Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Ren	nark	s:												
	1347	Cult	-M	Joi L	the	12/17/15 1347															
Date:	Time:	Relinquish	ed by:	Received by:		Date Time															

۰.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.