

RECEIVED OCD

DCP Midstream 370 17th Street, Suite 2500 Denver, CO 80202 303-595-3331 303-605-2226 *FAX*

www.dcpmidstream.com

2013 JAN 28 A 11:09

January 25, 2013

Mr. Leonard Lowe Environmental Engineer New Mexico Oil Conservation Division 1220 S. St. Francis Dr. Santa Fe, NM 87505

RE: 3rd Quarter 2012 Groundwater Monitoring Results DCP Hobbs Gas Plant (AP-122) Unit G, Section 36, Township 18 South, Range 36 East Lea County, New Mexico

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, one copy of the 3rd Quarter 2012 Groundwater Monitoring Results for the DCP Hobbs Gas Plant located in Lea County, New Mexico (Unit G, Section 36, Township 18 South, Range 36 East).

If you have any questions regarding the report, please call at 303-605-1718 or e-mail me <u>swweathers@dcpmidstream.com</u>.

Sincerely

DCP Midstream, LP

Stephen Weathers, P.G. Principal Environmental Specialist

cc: Geoffrey Leking, OCD Hobbs District Office (Copy on CD)



THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT

DCP HOBBS GAS PLANT AP-122 LATITUDE: N 32.70533° LONGITUDE: W 103.3066° LEA COUNTY, NEW MEXICO

Prepared For: Mr. Steve Weathers DCP Midstream, LP 370 17th Street, Suite 2500 Denver, Colorado 80202

Stobhap Pritchard, P.G. Senior Project Geologist

John Riggi, P.G. Senior Project Geologist

Prepared by: Conestoga-Rovers & Associates

14998 West 6th Avenue; Suite 800 Golden, Colorado USA 80401

Office: (720) 974-0935 Fax: (720) 974-0936

web: http://www.CRAworld.com

JANUARY 24, 2013 Ref. no. 059097 (15)

TABLE OF CONTENTS

		, 1	Page
1.0			
2.0	GROUNDWATER MONITORING	AND SAMPLING	1
3.0	ANALYTICAL RESULTS		2
4.0	CONCLUSIONS	·	2

11-1-11

CONESTOGA-ROVERS & ASSOCIATES

LIST OF FIGURES (Following Text)



LIST OF TABLES (Following Text)

TABLE 1 CURRENT GROUNDWATER ANALYTICAL RESULTS	NALYTICAL RESULTS
--	-------------------

TABLE 2HISTORICAL GROUNDWATER ANALYTICAL RESULTS

LIST OF APPENDICES

APPENDIX A STANDARD OPERATING PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

APPENDIX B LABORATORY ANALYTICAL REPORT

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) is submitting this *Third Quarter 2012 Groundwater Monitoring Report* to DCP Midstream, LP (DCP) for the Hobbs Gas Plant in Lea County, New Mexico. This report summarizes the September 2012 groundwater sampling event. Groundwater monitoring and sampling details, analytical results, and conclusions are presented below.

Site Background

The site is a cryogenic processing plant located in Lea County, New Mexico approximately nine miles west of Hobbs, New Mexico (Figure 1). The site occupies approximately 3.5 acres in an undeveloped area. Facilities include a laboratory, an amine unit, compressors, sumps, mol sieve dehydration, tank batteries and an onsite water production well used for non-potable water. The DCP Apex Compressor Station is located approximately 750 feet (ft) north of the Hobbs Gas Plant. There are six groundwater monitoring wells onsite.

Hydrogeology

Historical static groundwater depths have ranged between 60.13 (MW-A) and 64.60 ft below ground surface (bgs) (MW-B). Static groundwater depths ranged from 61.71 (MW-A) to 64.60 ft bgs (MW-B) on September 24, 2012. Groundwater flows to the southeast with a gradient of 0.004 ft/ft (Figure 2).

2.0 GROUNDWATER MONITORING AND SAMPLING

CRA gauged and collected samples from groundwater monitoring wells MW-A and MW-C through MW-F on September 24, 2012. Light non-aqueous phase liquids (LNAPL) was measured at a thickness of 2.10 ft in well MW-B; a sample was not collected. Each well cap was removed to allow groundwater levels to stabilize and equilibrate prior to gauging. All sampled groundwater monitoring wells were purged of approximately three well-casing volumes while temperature, pH, and conductivity were measured. Groundwater samples, including a duplicate sample, were collected using clean disposable bailers and decanted into clean containers supplied by the analytical laboratory. Groundwater samples were submitted under chain-of-custody to Accutest Laboratories of Texas. CRA's standard operating procedures for groundwater monitoring and sampling are presented as Appendix A.

1

Purged Groundwater

Purged groundwater was transported to the DCP Linam Ranch Facility, where purged groundwater was disposed in the onsite sump.

3.0 ANALYTICAL RESULTS

Groundwater Analytical Methods

Groundwater samples collected from MW-A and MW-C through MW-F were analyzed for:

• Benzene, toluene, ethylbenzene, and xylenes (BTEX) by SW-846 8260B.

Groundwater Sampling Results

No BTEX was detected above New Mexico Water Quality Control Commission (NMWQCC) cleanup levels in any collected groundwater sample. Groundwater sample MW-C contained the highest benzene concentration 2.1 micrograms per liter $(\mu g/l)$. BTEX concentrations in groundwater are presented on Figure 3. Current groundwater analytical results are summarized in Table 1. Historical groundwater analytical results are summarized in Table 2. The laboratory analytical report is presented as Appendix B.

4.0 <u>CONCLUSIONS</u>

No BTEX has been detected above NMWQCC cleanup levels in samples MW-A, MW-D, MW-E, or MW-F since 2008. LNAPL was measured in well MW-B at a thickness of 2.10 ft. DCP will continue quarterly monitoring and sampling in 2012 to evaluate site groundwater conditions.

FIGURES

FIGURE 1: VICINITY MAP

FIGURE 2: GROUNDWATER ELEVATION CONTOUR MAP FIGURE 3: GROUNDWATER BTEX ANALYTICAL RESULTS



059097-10(010)GN-MD001 FEB 09/2010





LEGEND:

Х

FENCE LINE



SECONDARY CONTAINMENT

ABOVEGROUND STORAGE TANK (AST) OR DRUM

MW-A S EXISTING MONITORING WELL 3694.16 GROUNDWATER ELEVATION



GROUNDWATER FLOW DIRECTION AND GRADIENT

GROUNDWATER ELEVATION CORRECTED USING A SPECIFIC GRAVITY OF 0.81 FOR LNAPL

NOTES: GROUNDWATER ELEVATIONS WERE COLLECTED ON SEPTEMBER 24, 2012

DEPTH TO GROUNDWATER GAUGED FROM TOP OF CASING 2.

3. CONTOUR INTERVAL IS 0.5 FEET

Figure 2

DCP HOBBS GAS PLANT LEA COUNTY, NEW MEXICO DCP Midstream September 24, 2012



059097-2012(015)GN-DN003 JAN 14/2013





MW-A

FENCE LINE

SECONDARY CONTAINMENT

ABOVEGROUND STORAGE TANK (AST) OR DRUM

EXISTING MONITORING WELL

	M\	N-C	3.5
BENZENE	В	<1.0 -	- CONCENTRATION IN Ig/L
TOLUENE	Т	<1.0	
ETHYLBENZENE -	E	<1.0	
XYLENES -	Х	<3.0	

NOTES:

1. GROUNDWATER SAMPLES WERE COLLECTED ON SEPTEMBER 24, 2012.

2. BTEX ANALYSIS WAS BY EPA METHOD 8260 AND REPORTED IN $\mu g/L.$

3. MW-B NOT SAMPLED DUE TO LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL).

Figure 3

DCP HOBBS GAS PLANT LEA COUNTY, NEW MEXICO DCP Midstream September 24, 2012

TABLES

TABLE 1: CURRENT GROUNDWATER ANALYTICAL RESULTSTABLE 2: HISTORICAL GROUNDWATER ANALYTICAL RESULTS

Table 1.	Current Grou	indwater A	nalytical R	esults - DC	P Hobbs Gas Pla	nt, Lea County	, New Mexico	
Well ID	Date	TOC	DTW	GWE	Benzene	Toluene	Ethyl -benzene	Total Xylenes
		(ft msl)	(ft bgs)	(ft msl)	4	— Concentra		
NMWQC	C Cleanup Lev	els			10	750	750	620
MW-A	9/24/2012	3755.87	61.71	3694.16	< 0.34	< 0.33	< 0.32	< 0.87
MW-B*	9/24/2012	3755.94	64.60	3693.04		LNAP	L present	
MW-C	9/24/2012	3755.59	62.67	3692.92	2.1	< 0.33	0.89	5.6
MW-D	9/24/2012	3755.43	62.12	3693.31	< 0.34	< 0.33	< 0.32	<0.87
MW-E	9/24/2012	3754.36	61.94	3692.42	<0.34/<0.34	<0.33<0.33	<0.32/<0.32	<0.87<0.87
MW-F	9/24/2012	3756.13	63.50	3692.63	< 0.34	< 0.33	< 0.32	<0.87

CONESTOGA-ROVERS & ASSOCIATES

--- -

.

.

Notes and Abbreviations:

ID = Identification

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

BTEX = Benzene, toluene, ethylbenzene, and total xylenes by SW-846 8021 or 8260B

ft msl = Feet above mean sea level

ft bgs = Feet below ground surface

 $\mu g/l = Micrograms per liter$

x/y = Sample results/blind duplicate results

< x = Not detected above x $\mu g/l$

BOLD = Indicates concentration above the NMQCC Cleanup Levels

a = results from run #2

NMWQCC = New Mexico Water Quality Control Commission

* = Groundwater elevation corrected using a LNAPL specific gravity of 0.81

Table 2.	Historical Grou	indwater Ai	nalytical Re	sults - DCP	Hobbs Gas Pl	ant, Lea Cour	ity, New Mexico							
Well ID	Date	TOC	DTW	LNAPL thickness	GWE	pН	Conductivitiy	Temperature	DO	ORP	Benzene	Toluene	Ethyl - benzene	Total Xylenes
		(ft msl)	(ft bgs)	feet	(ft msl)	5.U.	μS/cm	<u>°C</u>	mg/1	mV		Concentrat	ions in µg/l	
NMWQC	C Cleanup Le	vels									10	750	750	620
MW-A	3/5/2008	3755.87	60.18	-	3693.44	7.20	431	17.46	11.42	21.3	· 11] <5.0	3.8	15.0
MW-A	6/2/2008	3755.87	60.19	-	3693.87	7.31	573	20.57	5.49	31.1	< 0.46	< 0.48	< 0.45	< 1.4
MW-A	9/15/2008	3755.87	60.58	-	3694.32	6.81	533	19.27	4.96	238.7	< 0.46	< 0.48	< 0.45	< 1.4
MW-A	12/3/2008	3755.87	60.41	-	3694.44	7.37	505	18.20	7.17	183.9	< 0.46	< 0.48	< 0.45	< 1.4
MW-A	2/27/2009	3755.87	60.18		3693.02	7.29	505	19.34	8.15	64.1	< 0.46	< 0.48	< 0.45	< 1.4
MW-A	6/25/2009	3755.87	60.21	-	3695.66	6.90	660	19.80	8.20	145.0	< 2.0	< 2.0	< 2.0	< 6.0
MW-A	9/1/2009	3755.87	60.37	-	3695.50	7.07	670	19.86	8.11	69.0	< 2.0	< 2.0	< 2.0	< 6.0
MW-A	11/17/2009	3755.87	60.40	-	3695.47	7.82	576	17.67			< 2.0	< 2.0	< 2.0	< 6.0
MW-A	3/25/2010	3755.87	60.40	-	3695.47	7.51	567	21.70			< 2.0	< 2.0	< 2.0 -	< 6.0
MW-A	6/8/2010	3755.87	60.39		3695.48	7.36	513		-		< 2.0	< 2.0	< 2.0	< 6.0
MW-A	9/21/2010	3755.87	60.13	-	3695.74	7.11	585.0	20.30		-	< 0.50	<0.43	<0.55	<1.7
MW-A	12/16/2010	3755.87	60.24	-	3695.63	7.27	225.7	18.00		-	< 0.50	<0.43	<0.55	<1.7
MW-A	3/11/2011	3755.87	60.39		3695.48	7.31	556.5	19.40			< 2.0	< 2.0	< 2.0	< 6.0
MW-A	6/14/2011	3755.87	60.63	-	3695.24	6.93	582.3	21.00			<1.0	<1.0	<1.0	<3.0
MW-A	9/27/2011	3755.87	61.04	- .	3694.83	7.65	538.6	20.80		-	<1.0	<1.0	<1.0	<3.0
MW-A	12/13/2011	3755.87	61.24		3694.63	7.50	574.1	17.5			<1.0	<1.0	<1.0	<3.0
MW-A	3/27/2012	3755.87	61.39		3694.48	7.79	515.8	19.7			<1.0	<1.0	<1.0	<3.0
MW-A	6/19/2012	3755.87	61.54		3694.33	7.53	518.1	20.2			<1.0	<1.0	<1.0	<3.0
MW-A	9/24/2012	3755.87	61.71	-	3694.16	7.86	553.6	20.5			<0.34	<0.33	<0.32	<0.87
MW-B	3/5/2008	3755.94	61.66	-	3694.28	6.67	836	16.99	2.49	-214.1	550	64	130	730
MW-B	6/2/2008	3755.94	61.69		3694.25	7.08	868	19.99	1.09	-150.1	444	86.5	155	716
MW-B-	9/15/2008	3755.94	62.04		3693.90	6.60	902	19.63	0.56	-151.6	398	36.6	157 -	- 4947
MW-B(d)	9/15/2008	3755.94	62.04	-	3693.90	6.60	902	19.63	0.56	-151.6	488	46.0	200	1,210
MW-B	12/3/2008	3755.94	61.93		3694.01	6.93	889	18.39	1.57	-161.4	25.6	0.56 J	7.1	29,2
MW-B	2/27/2009	3755.94	61.68		3694.26	6.87	921	18.83	0.96	-115.7	- 592	86.3	176	1,230
MW-B	6/25/2009	3755.94	61.63	- ·	3694.31	6.60	130	19.80	2.50	-131.0	1,490	270	411	2,750
MW-B	9/1/2009	3755.94	61.81	-	3694.13	6.60	130	20.36	1.92	-206.0	1,420	195	380	2,930
MW-B	11/17/2009	3755.94	61.85	-	3694.09	6.99	822	17.50	-		199	2.9	68.5	159
MW-B	3/25/2010	3755.94	61.70		3694.24	6.99	1007	20.80			199	7.8	112	375
MW-B	6/8/2010	3755.94	61.77	-	3694.17	6.98	866	21.56		-	438	20.2	161	836.
MW-B(d)	6/8/2010	3755.94	61.77		3694.17	6.98	866	21.56		-	631	26.8	191	1,230
MW-B	9/21/2010	3755.94	61.58		3694.36	6.73	981.4	19.70			572 a	21.7	167	885
MW-B	12/16/2010	3755.94	61.61	-	3694.33	7.04	994.3	17.50			154	14.6	52.8	239
MW-B	3/11/2011	3755.94	61.74	-	3694.20	6.89	945.9	19.5			360 a	19.9	175	-742
MW-B	6/14/2011	3755.94	61.95	-	3693.99	6.69	997.8	20.1		-	295 a	9.2	135	-584
MW-B(d)	6/14/2011	3755.94	61.95	-	3693.99	6.69	997.8	20.1		-	448 a	11.0	162	932 a
MW-B	9/27/2011	3755.94	62.43	-	3693.51	7.3	872.7	20.8	-		225 a	0.8	147	464 a
MW-B	12/13/2011	3755.94	62.60	-	3705.19	7.07	1006	18.2			357 a	10	157	581 a
MW-B*	3/27/2012	3755.94	62.94	0.29	3693.23				LNAPL	present	Landering	~		
MW-B*	6/19/2012	3755.94	64.10	1.65	3693.17				LNAPL	present				
MW-B*	9/24/2012	3755 94	64 60	2 10	3693.04				LNAPL	present				

CONESTOGA-ROVERS & ASSOCIATES

Table 2.	Historical Grou	undwater Ar	nalytical Re	sults - DCP	Hobbs Gas P	lant, Lea Coun	ty, New Mexico							
Well ID	Date	TOC	DTW	LNAPL thickness	GWE	pН	Conductivitiy	Temperature	DO	ORP	Benzene	Toluene	Ethyl - benzene	Total Xylenes
		(ft msl)	(ft bgs)	feet	(ft msl)	s.u	µS/cm	°C	mg/l	mV	4	Concentrat	ions in µg/1	
NMWQC	CC Cleanup Le	evels		•							10	750	750	620
MW-C	3/5/2008	3755.59	61.18	-	3694.41	6.91	535	17.46	6.50	-104.1	61	5.3	19.0	78.0
MW-C(d)	3/5/2008	3755.59	61.18	-	3694.41	6.91	535	17.46	6.50	-104.1	160	< 25	160	140
MW-C	6/2/2008	3755.59	61.22	-	3694.37	6.90	781	20.00	2.64	-121.2	75.4	4.9	26.3	121
MW-C(d)	6/2/2008	3755.59	61.22	-	3694.37	6.90	781	20.00	2.64	-121.2	103	8.1	36.9	170
MW-C	9/15/2008	3755.59	61.54		3694.05	6.51	679	18.99	1.97	160.3	130	5.7	47.3	222
MW-C	12/3/2008	3755.59	61.48	-	3694.11	6.88	621	18.24	2.31	-17.8	39.0	< 0.48	10.5	33.3
MW-C(d)	12/3/2008	3755.59	61.48		3694.11	6.88	621	18.24	2.31	-17.8	50.6	< 0.48	13.6	44.5
MW-C	2/27/2009	3755.59	61.15	-	3694.44	6.90	614	18.56	1.96	-8.7	69,9	0.78 J	20.1	86.8
MW-C(d)	2/27/2009	3755.59	61.15	-	3694.44	6.90	614	18.56	1.96	-8.7	36.6	< 0.48	10.0	43.3
MW-C	6/25/2009	3755.59	61.16		3694.43	6.60	760	19.60	4.42	54.0	54.3	0.72 J	11.9	53.0
MW-C(d)	6/25/2009	3755.59	61.16	-	3694.43	6.60	760	19.60	4.42	54.0	64.2	0.87 J	19.0	82.4
MW-C	9/1/2009	3755.59	61.35		3694.24	6.78	990	19.27	2.66	40.0	82.8	1.3 J	23.1	132
MW-C(d)	9/1/2009	3755.59	61.35		3694.24	6.78	990	19.27	2.66	40.0	71.5	1.0 J	19.8	110
MW-C	·11/17/2009	3755.59	61.37	-	3694.22	7.26	631	17.17	-	-	30	< 2.0	9.3	53
MW-C(d)	11/17/2009	3755.59	61.37	-	3694.22	7.26	631	17.17			25.7	< 2.0	7.7	44.3
MW-C	3/25/2010	3755.59	61.27	-	3694.32	7.13	686	19.20			48.2	3.0	16.9	141
MW-C(d)	3/25/2010	3755.59	61.27		3694.32	7.13	686	19.20			52.2	2.9	20.3	123
MW-C	6/8/2010	3755.59	61.33	-	3694.26	6.92	621	23.06			20.4	1.1	8.5	52.3
MW-C	9/21/2010	3755.59	61.10		3694.49	6.58	741.8	19.2			124	3.1	50.4	276
MW-C	12/16/2010	3755.59	61.15		3694.44	6.95	760.5	18.1			10.7	0.59	5.1	25.2
MW-C(d)	12/16/2010	3755.59	61.15		3694.44	6.95	760.5	18.1	-		5.4	<0.43	2.8	12.6
MW-C	3/11/2011	3755.59	61.28		3694.31	6.80	725.3	19.3			95.8	5.7	42.4	235
MW-C	6/14/2011	3755.59	61.52	-	3694.07	6.60	737.1	21.2	-		66.0	2.8	29.8	145
MW-C	9/27/2011	3755.59	62.00	-	3693.59	7.34	677.2	20.5	-	-	40.3	0.7	19.9	94.4
MW-C	12/13/2011	3755.59	62.20	-	3693.39	7.06	730.1	16.5	-		112	4.3	29.8	200
MW-C(d)	12/13/2011	3755.59	62.20		3693.39	7.06	730.1	16.5			44.1	1.9	14.4	97.7
MW-C	3/27/2012	3755.59	62.33		3693.26	7.26	652.3	19.2			37.0	1.2	11.4	75.8
MW-C(d)	3/27/2012	3755.59	62.33		3693.26	7.26	652.3	19.2			52.0	1.8	15.0	104
MW-C	6/19/2012	3755.59	62.45		3693.14	7.15	701.2	20.0			66.8	1.9	20.1	135
MW-C	9/24/2012	3755.59	62.67		3692.92	7.76	732.2	20.6			2.1	< 0.33	0.89	5.6

CONESTOGA-ROVERS & ASSOCIATES

· --- ---

.

Table 2.	Historical Grou	indwater Ai	1alytical Re	sults - DCP	Hobbs Gas Pl	ant, Lea Cour	nty, New Mexico							
Well ID	Date	TOC	DTW	LNAPL thickness	GWE	pН	Conductivitiy	Temperature	DO	ORP	Benzene	Toluene	Ethyl - benzene	Total Xylenes
		(ft msl)_	(ft bgs)	feet	(ft msl)	ş.u.	μS/cm	°C	mg/l	mV	←	Concentrat	ions in µg/l	>
NMWQC	C Cleanup Le	vels									10	750	750	620
								-						
MW-D	3/5/2008	3755.43	60.77		3694.66	6.85	507	17.23	9.66	22.5	< 1.0	< 5.0	< 1.0	< 3.0
MW-D	6/2/2008	3755.43	60.77		3694.66	7.13	668	19.99	5.39	29.2	< 0.46	< 0.48	< 0.45	< 1.4
MW-D	9/15/2008	3755.43	61.10	-	3694.33	6.64	646	19.42	3.65	233.1	< 0.46	< 0.48	< 0.45	< 1.4
MW-D	12/3/2008	3755.43	61.08	-	3694.35	7.09	587	17.95	5.46	175.5	< 0.46	< 0.48	< 0.45	< 1.4
MW-D	2/27/2009	3755.43	60.79	-	3694.64	7.01	589	19.59	7.22	77.1	< 0.46	< 0.48	< 0.45	< 1.4
MW-D	6/25/2009	3755.43	60.77	-	3694.66	6.70	820	20.10	6.38	177.0	< 2.0	< 2.0	< 2.0	< 6.0
MW-D	9/1/2009	3755.43	60.96		3694.47	6.81	860	19.90	6.11	118.0	< 2.0	< 2.0	< 2.0	< 6.0
MW-D	11/17/2009	3755.43	60.96		3694.47	7.67	658	16.67			< 2.0	< 2.0	< 2.0	< 6.0
MW-D	3/25/2010	3755.43	60.89	-	3694.54	7.18	706	19.50			< 2.0	< 2.0	< 2.0	< 6.0
MW-D	6/8/2010	3755.43	60.91	-	3694.52	7.09	636	22.28		-	< 2.0	< 2.0	< 2.0	< 6.0
MW-D	9/21/2010	3755.43	60.66	-	3694.77	6.84	730.5	19.30		-	< 0.50	< 0.43	< 0.55	<1.7
MW-D	12/16/2010	3755.43	60.72		3694.71	7.03	794.7	18.70		-	< 0.50	< 0.43	<0.55	<1.7
MW-D	3/11/2011	3755.43	60.84		3694.59	6.82	760.7	19.40			<2.0	<2.0	<2.0	<6.0
MW-D	6/14/2011	3755.43	61.09		3694.34	6.65	842.4	20.00			<1.0	<1.0	<1.0	<3.0
MW-D	9/27/2011	3755.43	61.55	~	3693.88	7.21	708.7	20.60			<1.0	<1.0	<1.0	<3.0
MW-D	12/13/2011	3755.43	61.70	_	3693.73	7.28	771.7	16.7	_		<1.0	<1.0	<1.0	<3.0
MW-D	3/27/2012	3755.43	61.84		3693.59	7.18	659.7	20.5			<1.0	<1.0	<1.0	<3.0
MW-D	6/19/2012	3755.43	61.97		3693.46	7.26	706.4	21.1			<1.0	<1.0	<1.0	<3.0
MW-D	9/24/2012	3755.43	62.12		3693.31	8.18	717.9	23.0		-	< 0.34	< 0.33	< 0.32	<0.87
	-,,											1	0.012	0101
MW-E	3/5/2008	3754.36	60.75	-	3693.61	6.89	487	17.29	8.99	38.4	14~	j < 5.0	3.9	- 14
MW-E	6/2/2008	3754.36	60.78		3693.58	7.07	633	19.91	3.72	9.4	< 0.46	< 0.48	< 0.45	< 1.4
MW-E	9/15/2008	3754.36	61.21	-	3693.15	6.74	601	19.27	4.02	228.3	< 0.46	< 0.48	< 0.45	< 1.4
'MW-E	12/3/2008	3754.36	61.13		3693.23	7.03	592	18.58	5.25	186.2	< 0.46	< 0.48	< 0.45	< 1.4
MW-E	2/27/2009	3754.36	60.81	-	3693.55	7.01	590	19.10	6.29	91.2	< 0.46	< 0.48	< 0.45	< 1.4
MW-E	6/25/2009	3754.36	60.74	-	3693.62	6.80	270	20.10	5.19	60.0	< 2.0	< 2.0	< 2.0	< 6.0
MW-E	9/1/2009	3754.36	60.93	-	3693.43	6.84	780	20.94	5.95	16.0	< 2.0	< 2.0	< 2.0	< 6.0
MW-E	11/17/2009	3754.36	60.94	-	3693.42	7.32	610	17.06		-	< 2.0	< 2.0	< 2.0	< 6.0
MW-E	3/25/2010	3754.36	60.82	-	3693.54	7.14	654	19.50		-	< 2.0	< 2.0	< 2.0	< 6.0
MW-E	6/8/2010	3754.36	60.83	-	3693.53	7.00	612	22.50		-	< 2.0	< 2.0	< 2.0	< 6.0
MW-E	9/21/2010	3754.36	60.65	-	3693.71	6.72	730	19.40	-		<0.50	<0.43	<0.55	<1.7
MW-E(d)	9/21/2010	3754.36	60.65		3693.71	6.72	730	19.40		-	<0.50	<0.43	<0.55	<1.7
MW-E	12/16/2010	3754.36	60.65		3693.71	7.01	698.8	18.10			<0.50	<0.43	<0.55	<1.7
MW-E	3/11/2011	3754.36	60.75	-	3693.61	6.82	684.9	19.30	-		<2.0	<2.0	<2.0	<6.0
MW-E(d)	3/11/2011	3754.36	60.75		3693.61	6.82	684.9	19.30			<2.0	<2.0	.<2.0 .	- <6.0
MW-E	6/14/2011	3754.36	60.91		3693.45	6.63	727.9	21.00			<1.0	<1.0	<1.0	<3.0
MW-E	9/27/2011	3754.36	61.43		3692.93	7,42	607.3	20.90			<1.0	<1.0	<1.0	<3.0
MW-E(d)	9/27/2011	3754.36	61.43		3692.93	7.42	607.3	20.90	-		<1.0	<1.0	<1.0	<3.0
MW-E	12/13/2011	3754.36	61.59		3692.77	7.19	682.3	15.9	-	-	<1.0	<1.0	<1.0	<3.0
MW-E	3/27/2012	3754.36	61.66	-	3692.70	7.55	630.1	20.0			<1.0	<1.0	<1.0	<3.0
MW-E	6/19/2012	3754.36	61.81	-	3692.55	7.25	641.0	19.9			<1.0	<1.0	<1.0	<3.0
MW-E(d)	6/19/2012	3754.36	61.81		3692.55	7.25	641.0	19.9	-		<1.0	<1.0	<1.0	<3.0
MW-E	9/24/2012	3754.36	61.94		3692.42	7.83	706.9	23.0			< 0.34	<0.33	< 0.32	<0.87
MW-E(d)	9/24/2012	3754.36	61.94		3692.42	7.83	706.9	23.0			< 0.34	< 0.33	< 0.32	<0.87

CONESTOGA-ROVERS & ASSOCIATES

.

Table 2.	Historical Grou	indwater An	alytical Re	sults - DCP	Hobbs Gas Pla	int, Lea Cour	nty, New Mexico							
Well ID	Date	TOC	DTW	LNAPL thickness	GWE	рН	Conductivitiy	Temperature	DO	ORP	Benzene	Toluene	Ethyl - benzene	Total Xylenes
		(ft msl)	(ft bgs)	feet	(ft msl)	<u>s.u.</u>	μS/cm	<u>°C</u>	mg/l	mV		Concentrat	ions in µg/l	<u> </u>
NMWQQ	CC Cleanup Le	vels									10	750	750	620
MW-F	3/5/2008	3756.13	62.01	-	3694,12	6.76	657	17.01	9.71	3.6	1.9	< 5.0	< 1.0	3.8
MW-F	6/2/2008	3756.13	62.06	-	3694.07	6.76	879	19.00	3.08	21.4	< 0.46	< 0.48	< 0.45	< 1.4
MW-F	9/15/2008	3756.13	62.44		3693.69	6.43	876	19.17	2.52	234.3	< 0.46	< 0.48	< 0.45	< 1.4
MW-F	12/3/2008	3756.13	62.22		3693.91	6.76	917	17.79	3.79	188.4	< 0.46	< 0.48	< 0.45	< 1.4
MW-F	2/27/2009	3756.13	61.97		3694.16	6.77	857	18.61	3.85	93.4	< 0.46	< 0.48	< 0.45	< 1.4
MW-F	6/25/2009	3756.13	61.96		3694.17	6.20	100	19.80	5.56	221.0	< 2.0	< 2.0	< 2.0	< 6.0
MW-F	9/1/2009	3756.13	62.18		3693.95	6.51	110	19.25	5.27	108.0	< 2.0	< 2.0	<-2.0 -	< 6.0
MW-F	11/17/2009	3756.13	62.13		3694.00	6.93	1,030	18.67	-	-	< 2.0	< 2.0	< 2.0	< 6.0
MW-F	3/25/2010	3756.13	62.02	-	3694.11	6.94	1,053	19.00			< 2.0	< 2.0	< 2.0	< 6.0
MW-F	6/8/2010	3756.13	62.12	-	3694.01	7.03	900	22.06		-	< 2.0	< 2.0	< 2.0	< 6.0
MW-F	9/21/2010	3756.13	61.92		3694.21	6.67	1,003	19.10			< 0.50	< 0.43	< 0.55	<1.7
MW-F	12/16/2010	3756.13	61.93		3694.20	6.90	1,058	17.60	-		< 0.50	< 0.43	<0.55	<1.7
MW-F	3/11/2011	3756.13	62.05		3694.08	6.84	1,017	19.00			<2.0	<2.0	<2.0	<6.0
MW-F	6/14/2011	3756.13	62.35		3693.78	6.53	1,053	20.10			<1.0	<1.0	<1.0	<3.0
MW-F	9/27/2011	3756.13	62.85	~	3693.28	7.05	890	20.40			<1.0	<1.0	<1.0	<3.0
MW-F	12/13/2011	3756.13	63.05	-	3693.08	7.12	922.0	16.7		-	<1.0	<1.0	<1.0	<3.0
MW-F	3/27/2012	3756.13	63.16	-	3692.97	7.20	754.8	20.6	-		<1.0	<1.0	<1.0	<3.0
MW-F	6/19/2012	3756.13	63.30	-	3692.83	7.23	776.1	19.7			<1.0	<1.0	<1.0	<3.0
MW-F	9/24/2012	3756.13	63.50		3692.63	7.64	769.8	21.6			< 0.34	< 0.33	< 0.32	<0.87
												_		
Notes and A	bbreviations:													
ID = Identifi	cation													
DTW = Den	th to water													
LNAPL = Li	ght non-aqueous ph	ase liquids												
GWE = Grou	GWE - Groundwater elevation													
DO = Dissol	DO = Dissolved oxygen													
ORP = Oxida	ation reduction poter	ntial												
BTEX = Benz	zene, toluene, ethylb	enzene, and to	tal xylenes i	by SW-846 802	1 or 8260B									
ft msl = Feet	ms] = Feet above mean sea level													

CONESTOGA-ROVERS & ASSOCIATES

ORP = Oxidation reduction potential BTEX = Benzene, toluene, ethyllenzene, and total xylenes by SW-846 8021 or 8260B ft hgs = Feet below ground surface s.u. = Standard unit µS/cm = Microsiemens per centimeter °C = Degrees Colcius mg/1 = Milligrams per liter mV = Millivolts µg/1 = Micrograms per liter NTWQCC = New Mexico Water Quality Control Commission a = Result is from run # 2 BOLD = Indicates concentration above the NMWQCC Cleanup Levels < x = Not detected above x µg/1 = Not measured/not analyzed

(d) = Duplicate sample

= Groundwater elevation corrected using a LNAPL specific gravity of 0.81

\\Den-s1\shared\Project Files\0590\059097-HOBBS\059097-REPORTS\059097-RPT11-3Q 2011 GWMR\|059097-11-T1 good.xls|Groundwater Analytical Results

APPENDIX A

:

:

STANDARD OPERATING PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

ł.

i

1



STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. Conestoga-Rovers & Associates' specific field procedures are summarized below.

Groundwater Monitoring

Prior to performing monitoring activities, the historical monitoring and analytical data of each monitoring well shall be reviewed to determine if any of the wells are likely to contain separate phase hydrocarbons (SPH) and to determine the order in which the wells will be monitored (i.e. cleanest to dirtiest). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to monitoring, each well shall be opened and the well cap removed to allow water levels to stabilize and equilibrate. The condition of the well box and well cap shall be observed and recommended repairs noted. Any surface water that may have entered and flooded the well box should be evacuated prior to removing the well cap. In wells with no history of SPH, the static water level and total well depth shall be measured to the nearest 0.01 foot with an electronic water level meter. Wells with the highest contaminant concentrations shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level meter and/or interface probe shall be thoroughly cleaned and decontaminated at the beginning of the monitoring event and between each well. Monitoring equipment shall be washed using soapy water consisting of Liqui-noxTM or AlconoxTM followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a measurable thickness of SPH or floating SPH globules. If a sheen is observed, the well should be purged and a groundwater sample collected only if no SPH is present. Wells shall be purged either by hand using a disposal or PVC bailer or by using an aboveground pump (e.g. peristaltic or WatteraTM) or down-hole pump (e.g. GrundfosTM or DC Purger pump).

Groundwater wells shall be purged approximately three to ten well-casing volumes (depending on the regulatory agency requirements) or until groundwater parameters of temperature, pH, and conductivity have stabilized to within 10% for three consecutive readings. Temperature, pH, and conductivity shall be measured and recorded at the start of purging, once per well casing volume removed, and at the completion of purging. The total volume of groundwater removed shall be recorded along with any other notable physical characteristic such as color and odor. If required, field parameters such as turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) shall be measured prior to collection of each groundwater sample.

Groundwater samples shall be collected after the well has been purged and allowed to recharge to 80% of the pre-purging static water level, or if the well is slow to recharge, after waiting a minimum of 2 hours. Groundwater samples shall be collected using clean disposable bailers or



pumps (if an operating remediation system exists on site and the project manager approves of its use for sampling) and shall be decanted into clean containers supplied by the analytical laboratory. New latex gloves and disposable tubing or bailers shall be used for sampling each well. If a PVC bailer or down-hole pump is used for groundwater purging, it shall be decontaminated before purging each well by using soapy water consisting of Liqui-noxTM or AlconoxTM followed by one rinse of clean tap water and then two rinses of distilled water. If a submersible pump with non-dedicated discharge tubing is used for groundwater purging, both the inside and outside of pump and discharge tubing shall be decontaminated as described above.

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. One copy of the COC shall be kept in the QA/QC file and another copy shall be retained in the project file. Information on the COC shall consist of the project name and number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for crosscontamination, if requested by the project manager.

Well Development

Wells shall be developed using a combination of groundwater surging and extraction. A surge block shall be used to swab the well and agitate the groundwater in order to dislodge any fine sediment from the sand pack. After approximately ten minutes of swabbing the well, groundwater shall be extracted from the well using a bailer, pump and/or reverse air-lifting through a pipe to remove the sediments from the well. Alternating surging and extraction shall continue until the sediment volume in the groundwater (i.e. turbidity) is negligible, which typically requires extraction of approximately ten well-casing volumes of groundwater. Preliminary well development usually is performed during well installation prior to placing the sanitary surface seal to ensure sand pack stabilization. Well development that is performed after surface seal installation, should occur 72 hours after seal installation to ensure that the cement has had adequate time to set.



Waste Handling and Disposal

Groundwater extracted during development and sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums. Each drum shall be labeled with the contents, date of generation, generator identification and consultant contact. If hydrocarbon concentrations in the purged groundwater are below ADEC cleanup levels or the site is in a remote area (pending ADEC approval) groundwater will be discharged to the ground surface, at least 100 feet from the nearest surface water body.

\\DEN-S1\Shared\Denver\Alaska\AK SOP\CRA Alaska SOP\AK Groundwater Monitoring and Sampling SOP - CRA.doc

APPENDIX B

1

LABORATORY ANALYTICAL REPORT

.

059097 (15)

i

,t

10/09/12

Gulf Coast

BORATORI



Technical Report for

DCP Midstream, LLC

CRA:Hobbs Gas Plant

Accutest Job Number: TC17207

Sampling Date: 09/24/12

Report to:

DCP Midstream, L.P. 370 17th Street Suite 2500 Denver, CO 80202 SWWeathers@dcpmidstream.com; spritchard@craworld.com

ATTN: Mr. Steve Weathers

Total number of pages in report: 24





Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-8) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

Gulf Coast • 10165 Harwin Drive • Suite 150 • Houston, TX 77036 • tel: 713-271-4700 • fax: 713-271-4770 • http://www.accutest.com



Sections:

2 න

4 5

0

Table of Contents

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Summary of Hits	5
Section 4: Sample Results	6
4.1: TC17207-1: MWA	7
4.2: TC17207-2: MWC	8
4.3: TC17207-3: MWD	9
4.4: TC17207-4: MWE	10
4.5: TC17207-5: MWF	11
4.6: TC17207-6: DUP1	12
Section 5: Misc. Forms	13
5.1: Chain of Custody	14
5.2: LRC Form	17
Section 6: GC/MS Volatiles - QC Data Summaries	21
6.1: Method Blank Summary	22
6.2: Blank Spike Summary	23
6.3: Matrix Spike/Matrix Spike Duplicate Summary	24



Sample Summary

Job No:

TC17207

DCP	Midstream,	LLC
-----	------------	-----

CRA:Hobbs Gas Plant	*	

Sample Collected Matrix Client Number Received Code Type Date Time By Sample ID TC17207-1 09/24/12 16:00 09/28/12 AQ Ground Water MWA TC17207-2 09/24/12 17:30 09/28/12 AQ Ground Water MWG TC17207-3 09/24/12 16:15 09/28/12 AQ Ground Water MWD TC17207-4 09/24/12 16:45 09/28/12 AQ Ground Water MWE . TC17207-5 09/24/12 17:15 09/28/12 AQ Ground Water MWF TC17207-6 09/24/12 00:00 09/28/12 AQ Ground Water DUP1





SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	DCP Midstream, LLC	Job No	TC17207
Site:	CRA:Hobbs Gas Plant	Report Date	10/9/2012 8:57:22 AM

6 Samples were collected on 09/24/2012 and received intact at Accutest on 09/28/2012 and properly preserved in 1 cooler at 0.7 Deg C. These Samples received an Accutest job number of TC17207. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Γ	Matrix AQ	Batch ID:	VG659	
8	All samples were analyzed within	the recommended method	d holding time.	

All method blanks for this batch meet method specific criteria.

• Sample(s) TC17419-2MS, TC17419-2MSD were used as the QC samples indicated.

 RPD(s) for MSD for Benzene, Ethylbenzene, Toluene, Xylene (total) are outside control limits for sample TC17419-2MSD. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Page 1 of 1



Summary of Hits

ł

Job Number:	TC17207
Account:	DCP Midstream, LLC
Project:	CRA:Hobbs Gas Plant
Collected:	09/24/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	MQL	SDL	Units	Method
TC17207-1	MWA					······································
No hits reported	in this sample.	;			•	
TC17207-2	MWC					
Benzene Ethylbenzene Xylene (total)		0:0021 0.00089 J 0:0056	0.0010 0.0010 0.0030	0.00034 0.00032 0.00087	mg/l mg/l mg/l	SW846 8260B SW846 8260B SW846 8260B
TC17207-3	MWD					
No hits reported	in this sample.					
TC17207-4	MWE					
No hits reported	in this sample.					
TC17207-5	MWF					
No hits reported	in this sample.					

TC17207-6 DUP1

.

No hits reported in this sample.

.

Page 1 of 1

භ



Section 4

Sample Results

Report of Analysis

.

.

.

.

Report of Analysis

Client Sample ID: MWA Lab Sample ID: TC17207-1 **Date Sampled:** 09/24/12 Matrix: AQ - Ground Water **Date Received:** 09/28/12 Method: SW846 8260B Percent Solids: n/a **Project: CRA:Hobbs Gas Plant** File ID DF Analyzed By Prep Date **Prep Batch Analytical Batch** G014994;D VG659 Run #1 10/06/12 AK n/a n/a 1 I Run #2

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

1

CAS No.	Compound	Result	MQL	SDL	Units	Q	
71-43-2	Benzene	0.00034 U	0.0010	0.00034	mg/l		
108-88-3	Toluene	0.00033.U	0.0010	0.00033	mg/l		
100-41-4	Ethylbenzene	0:00032.U		0.00032	mg/l		
1330-20-7	Xylene (total)	0.00087 U	0.0030	0.00087	mg/l		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits			
1868-53-7	Dibromofluoromethane	90%	1 1	72-122%			
17060-07-0	1 0 D' 11	000/		60 1040/			
17000 07 0	1,2-Dichloroethane-D4	90%	6 9	68-124%			
2037-26-5	1,2-Dicnioroethane-D4 Toluene-D8	90% 91%		68-124% 80-119%			
2037-26-5 460-00-4	1,2-Dicnioroethane-D4 Toluene-D8 4-Bromofluorobenzene	90% 91% 88%		68-124% 80-119% 72-126%			

U = Not detected SDL - Sample Detection Limit MQL = Method Quantitation Limit E = Indicates value exceeds calibration range J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

| | <u>:</u>



Page 1 of 1

Report of Analysis									
Client Sample ID: Lab Sample ID: Matrix: Method: Project:		MWC TC17 AQ - SW84 CRA:	207-2 Ground Wa 6 8260B Hobbs Gas	ater Plant		Date Sampled: 09/2 Date Received: 09/2 Percent Solids: n/a		09/24/12 09/28/12 n/a	
Run #1 Run #2	File ID G01499	5.D	DF 1	Analyzed 10/06/12	Ву АК	Prep Date n/a	Prep Batc n/a	h Analytical Batch VG659	
Run #1 Run #2	Purge V 5.0 ml.	olum	e						

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q	
71-43-2	Benzene	0.0021	0.0010	0.00034	mg/l		
108-88-3	Toluene	0.00033 U	0.0010	0.00033	mg/l		
100-41-4	Ethylbenzene	0.00089	0.0010	0.00032	mg/l	J	
1330-20-7	Xylene (total)	0.0056	0.0030	0.00087	mg/l		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits			
1868-53-7	Dibromofluoromethane	91%	-1 5	72-122%			
17060-07-0	1,2-Dichloroethane-D4	89%		68-124%			
2037-26-5	Tolyana D8	010/	2	80-110%			
2057 20 5	I Oluelle-Do	7170	2 5	00-11770			

U = Not detectedSDL - Sample Detection Limit MQL = Method Quantitation Limit E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



4.2

			керо	ort oi A	Analysis		Page 1 of 1
Client Sa Lab Sam Matrix: Method: Project:	mple ID: MWD ple ID: TC17 AQ - SW84 CRA:) 207-3 Ground W 6 8260B Hobbs Gas	ater Plant		D D P	Pate Sampled: 0 Pate Received: 0 ercent Solids: n	9/24/12 9/28/12 /a
Run #1 Run #2	File ID G014996.D	DF 1	Analyzed 10/06/12	By AK	Prep Date n/a ,	Prep Batch n/a	Analytical Batch VG659
Run #1 Run #2	Purge Volume 5.0 ml	e					

Purgeable Aromatics

1

CAS No.	Compound	Result	MQL	SDL	Units	Q	
71-43-2	Benzene	0:00034 U	0.0010	0.00034	mg/l		
108-88-3	Toluene	0:00033 U	0.0010	0.00033	mg/l		
100-41-4	Ethylbenzene	0.00032 U	0.0010	0.00032	mg/l		
1330-20-7	Xylene (total)	0.00087 U	0.0030	0.00087	mg/l		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits			
1868-53-7	Dibromofluoromethane	91%		72-122%			
17060-07-0	1,2-Dichloroethane-D4	90%		68-124%			
2037-26-5	Toluene-D8	90%		80-119%			
		STORY, Mr. 200 Story, Science and Story					
460-00-4	4-Bromofluorobenzene	87%		72-126%			

U = Not detectedSDL - Sample Detection Limit MQL = Method Quantitation Limit E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



1

Report of Analysis

Client Sample ID: MWE Lab Sample ID: TC17207-4 Date Sampled: 09/24/12 Matrix: AQ - Ground Water Date Received: 09/28/12 Method: SW846 8260B Percent Solids: n/a **Project: CRA:Hobbs Gas Plant** File ID DF Analyzed By **Prep Date Prep Batch Analytical Batch** G014997.D VG659 Run #1 1 10/06/12 AK n/a n/a ÷ Run #2 **Purge Volume** Run #1 5.0 ml Run #2 **Purgeable Aromatics**

CAS No.	Compound	Result	MQL	SDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	0.00034 U 0.00033 U 0.00032 U 0.00087 U	0.0010 0.0010 0.0010 0.0030	0.00034 0.00033 0.00032 0.00087	mg/l mg/l mg/l mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7 17060-07-0 2037-26-5 460-00-4	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	95% 90% 91% 87%		72-122% 68-124% 80-119% 72-126%		

U = Not detectedSDL - Sample Detection Limit MQL = Method Quantitation Limit E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page 1 of 1

Report of Analysis

Page 1 of 1

Client Sa Lab Samj Matrix: Method: Project:	mple ID: MWF ple ID: TC17 AQ - SW84 CRA:	207-5 Ground Wa 6 8260B Hobbs Gas	ater 9 Plant		Date Sampled:09/24/12Date Received:09/28/12Percent Solids:n/a				
Run #1 Run #2	File 1D G014998.D	DF 1	Analyzed 10/06/12	Ву АК	Prep Date n/a	Prep Batch n/a	Analytical Batch VG659		
Run #1 Run #2	Purge Volume 5.0 ml	2							
Purgeable	e Aromatics								

CAS No. Compound SDL Result MQL Units Q 71-43-2 0.00034 U 0.0010 Benzene 0.00034 mg/l 0.00033 U 0.00032 U 0.0010 0.00087 U 0.0030 108-88-3 Toluene 0.00033 mg/l 100-41-4 Ethylbenzene 0.00032 mg/l 1330-20-7 Xylene (total) 0.00087 mg/l CAS No. **Surrogate Recoveries** Run# 1 Run# 2 Limits 1868-53-7 Dibromofluoromethane 72-122% 17060-07-0 1,2-Dichloroethane-D4 68-124% 2037-26-5 Toluene-D8 80-119% 460-00-4 4-Bromofluorobenzene 72-126%

U = Not detected SDL - Sample Detection Limit MQL = Method Quantitation Limit E = Indicates value exceeds calibration range J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

5

+

Report of Analysis Page 1 of 1 Client Sample ID: DUP1 Lab Sample ID: TC17207-6 Date Sampled: 09/24/12 Matrix: AO - Ground Water **Date Received:** 09/28/12 Method: SW846 8260B Percent Solids: n/a **Project:** CRA:Hobbs Gas Plant Prep Date **Analytical Batch** File ID DF **Prep Batch** Analyzed By Run #1 G014999.D 10/06/12 VG659 1 AK n/a : n/a Run #2 **Purge Volume** Run #1 5.0 ml Run #2

Purgeable Aromatics

CAS No.	Compound	Result	MQL	SDL	Units	Q	
71-43-2	Benzene	0.00034.U	0.0010	0.00034	mg/l		
108-88-3	Toluene	0.00033 U	0.0010	0.00033	mg/l		
100-41-4	Ethylbenzene	0.00032 U	0.0010	0.00032	mg/l		
1330-20-7	Xylene (total)	0.00087 U	0.0030	0.00087	mg/l		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits			
1868-53-7	Dibromofluoromethane	91%		72-122%			
17060-07-0	1,2-Dichloroethane-D4	90%:		68-124%			
2037-26-5	Toluene-D8	91%		80-119%			
460-00-4	4-Bromofluorobenzene	88%		72-126%			

U = Not detectedSDL - Sample Detection Limit MQL = Method Quantitation Limit E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



4.6

Section 5

ļ

1

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody

LRC Form





TC17207: Chain of Custody Page 1 of 3

1

ł



ຸ____ ບາ

ACCUTEST.	

Accutest Laboratories Sample Receipt Summary

Page 1 of 2

5

୍ଦ୍ର

15 of 24

JTEST

TC17207

Accutest Job Number: TC1	17207		Client: (CONESTOGA	ROVE	ERS & A	ASSOCIATES Project : HOBBS GAS F	LANT 059	097	
Date / Time Received: 9/2	8/2012			Delivery Meth	od:		Airbill #'s: 54070499211	1		
No. Coolers: 1	The	rm ID:	IRGUN5;				Temp Adjustment Factor:	-0.4;		
Cooler Temps (Initial/Adjust	ted): <u>#</u>	<u>+1: (1.1/</u>	0.7);							
Cooler Security Y	<u>or</u> l	N		_Y	or or	N	Sample Integrity - Documentation	_Y_	or N	
1. Custody Seals Present:			3. COC Pre	esent: 🔽	· 1		1. Sample labels present on bottles:	V		
2. Custody Seals Intact:	4	4.8	Smpl Dates	/Time OK 🔤 🔽	-		2. Container labeling complete:		i 🗆	
Cooler Temperature	. <u> </u>	or N		•			3. Sample container label / COC agree:		; 🗆	
1. Temp criteria achieved:	. 🔽			;			Sample Integrity - Condition	Y	or N	
2. Cooler temp verification:							1. Sample recvd within HT:	•		
3. Cooler media:		lce (Bag)					2. All containers accounted for:			
Quality Control Preservation	<u>y</u>	or N	N/A	WT	<u>B</u> S	STB	3. Condition of sample:		Intact	
1. Trip Blank present / cooler:							Sample Integrity - Instructions	Y	or N	N/A
2. Trip Blank listed on COC:		\checkmark					1. Analysis requested is clear.			
3. Samples preserved properly	r: 🔽						2. Bottles received for unspecified tests			
4. VOCs headspace free:							3. Sufficient volume recvd for analysis:			
							4. Compositing instructions clear:			
							5. Filtering instructions clear:			V
Comments							· · ·			
Accutest Laboratories						10165 Ha	arwin Drive		н	louston, TX 77036
v:/13.2/1.4/00						F: 713.	.2/1.4//U		w	ww/accutest.com

TC17207: Chain of Custody Page 2 of 3

Sample Receipt Log

Page 2 of 2

Job #: TC17207

Date / Time Received: 9/28/2012 9:20:00 AM

Initials: CH

Client: CONESTOGA ROVERS & ASSOCIATES

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	рH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TC17207-1	40m1	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument.	IRGUN5	1.1	-0.4	0.7
1	TC17207-1	40ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument	IRGUN5	1.1	-0.4	0.7
1	TC17207-1	, 40ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument	IRGUN5	1.1	-0.4	0.7
1	TC17207-2	40ml	1	VR	' HCL	Note #1 - Preservative to be checked by analyst at the instrument	IRGUN5	1.1	-0.4	0.7
1	TC17207-2	, 40ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument	IRGUN5	1.1	-0.4	0.7
1	TC17207-2	40ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst	IRGUN5	1.1	-0.4	0.7
1	TC17207-3	40ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument	IRGUN5	1.1	-0.4	0.7
1	TC17207-3	40ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst	IRGUN5	1.1	-0.4	0.7
1	TC17207-3	40ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument	IRGUN5	1,1	-0.4	0.7
1	TC17207-4	40ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst	IRGUN5	1.1	-0.4	0.7
1	TC17207-4	40ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst	IRGUN5	1.1	-0.4	0.7
1	TC17207-4	40ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst	IRGUN5	1.1	-0.4	0.7
1	TC17207-5	40ml	1	VR	HCL	Note #1 - Preservative to be checked by analyst	IRGUN5	1.1	-0.4	0.7
1	TC17207-5	40ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst	IRGUN5	1.1	-0.4	0.7
1	TC17207-5	40ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst	IRGUN5	1.1	-0.4	0.7
1	TC17207-6	40m1	1	VR ·	HCL	Note #1 - Preservative to be checked by analyst	IRGUN5	1.1	-0.4	0.7
1	TC17207-6	40ml	2	VR	HCL	Note #1 - Preservative to be checked by analyst	IRGUN5	1.1	-0.4	0.7
1	TC17207-6	40ml	3	VR	HCL	Note #1 - Preservative to be checked by analyst at the instrument	IRGUN5	1.1	-0.4	0.7

TC17207: Chain of Custody Page 3 of 3



Appendix A Laboratory Data Package Cover Page

TC17207 This data package consists of

	This sign	ature page, the laboratory review checklist, and the following reportable data:
Ļ	R1	Field chain-of-custody documentation;
⊃	R2	Sample identification cross-reference;
Ç	R3	Test reports (analytical data sheets) for each environmental sample that includes:
		a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
		b) dilution factors,
	;	c) . preparation methods,
	1	d) cleanup methods, and
		 e) ' if required for the project, tentatively identified compounds (TICs).
Ģ	R4 ·	Surrogate recovery data including:
		a) Calculated recovery (%R), and
		b) The laboratory's surrogate QC limits.
Ç	R5	Test reports/summary forms for blank samples;
	R6	Test reports/summary forms for laboratory control samples (LCSs) including:
		a) LCS spiking amounts,
		b) Calculated %R for each analyte, and
		c) The laboratory's LCS QC limits.
Ç	R7	Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
		a) Samples associated with the MS/MSD clearly identified,
		b) MS/MSD spiking amounts,
		c) Concentration of each MS/MSD analyte measured in the parent and
		d) Calculated %Rs and relative percent differences (RPDs), and
		e) The laboratory's MS/MSD QC limits
Ţ	R8	Laboratory analytical duplicate (if applicable) recovery and precision:
		a) The amount of analyte measured in the duplicate,
		b) The calculated RPD, and
		c) The laboratory's QC limits for analytical duplicates.
4	R9	List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each
Ţ.	R10	Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Report. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld.

Check, if applicable: This laboratory meets an exception under 30 TAC&25.6 and was last inspection by

[X] TCEQ or []______ on April 2011. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

QA Manager Name (Printed)	s
Richard Rodriguez	

[]



Official Title (printed)

Laboratory Director

Date

10/9/2012



	L	ABORATORY REVIEW CH	IECKLIST: REPORTABLE	DAT	Ά			
Laboratory	/ Name:	Accutest Gulf Coast	RC Date:	10/	9/20	12		
Project Na	me:	CRA:Hobbs Gas Plant Laboratory Project Number: TC17207						
Reviewer	Name:	Anita Patel Pr	rep Batch Number(s):	VG65	59			
# ¹	A ²	DESCRIPTION		YES	NO	NA ³	NR⁴	ER # ⁵
R1	0	CHAIN-OF-CUSTODY (C-O-C):			(e) (;	1.6		
		Did samples meet the laboratory's stand	dard conditions of sample acceptability	v				
		upon receipt?		^				
		Were all departures from standard cond	litions described in an exception report?	X				
R2	0	Sample and quality control (QC) iden	tification			1	·	a di
	· ·	Are all field sample ID numbers cross-re	eferenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-refe	erenced to the corresponding QC data?	x				
R3	0	Test reports					an as to the	
		Were samples prenared and analyzed v	within holding times?	And Scores	Standrade	henze order e	and a second	COMPLEXIBILITY OF THE OWNER
		Other than those results $<$ MOL were all	Lother raw values bracketed by calibration	⊢^				
	1	etandarde?		X				
		Were calculations checked by a neer or	supervisor?	X		<u> </u>		
		Were all analyte identifications checked	by a peer or supervisor?	Γ γ				
		Were sample detection limits reported fr	or all analytes not detected?	t î		· · ·	┝┤	
		Were all results for soil and sediment sa	amples reported on a dry weight basis?	\vdash		x		
		Were % moisture (or solids) reported for	r all soil and sediment samples?			⊢ ⊋		
	Ι.	Were bulk soils/solids samples for volat	ile analysis extracted with methanol per			\vdash	<u>├</u>	
	· ·	SW846 Method 50352	and analysis exclusive with methanol per	ŀ		X		
		If required for the project are TIC's repo	nted?			x		
R4	0	Surrogate recovery data		WORKE				inime in
		Were surrogates added prior to extractic	2002	X	31699792		enneste stille sed	ACTION DE LA COLORIS DE LA
		Were surrogate percent recoveries in all	I samples within the laboratory QC limits?	x				
R5	0	Test reports/summary forms for blan	k samples	SHERE AND	M. Y. HO		INCOME?	and the
1.0		Were appropriate type(s) of blanks anal	vzed?	Y		2050101294		C. H. WARRAN
		Were blanks analyzed at the appropriate	e frequency?	Ŷ				
		Were method blanks taken through the	entire analytical process including	⊢^				
		preparation and if applicable cleanup r	critice analytical process, including	X				
		Were blank concentrations <mol2< td=""><td>sideeddires :</td><td>x</td><td></td><td></td><td></td><td></td></mol2<>	sideeddires :	x				
R6	0	Laboratory control samples (LCS):			用的问题解			
		Were all COCs included in the LCS2		X	1900 CONTRACTOR		illeterner SAR	Carrier
		Was each LCS taken through the entire	analytical procedure including prep and	<u>+</u> ^-				
		cleanup steps?	analysical procedure; molading proplana	X				
		Were LCSs analyzed at required freque	ncv?	x				
		Were LCS (and LCSD, if applicable) %	Rs within the laboratory OC limits?	x				
		Does the detectability check sample da	ta document the laboratory's capability to	L ^				
		detect the COCs at the MDL used to cal	culate the SDI s?	X				
		Was the LCSD RPD within OC limits?				x		
R7	0	Matrix spike (MS) and matrix spike du	unlicate (MSD) data		Circle 1	1806		(1917)
10		Were the project/method specified analy	vtes included in the MS and MSD2	X	15.00.080GHE	an the second		REAL HOUSE HARD
		Were MS/MSD analyzed at the appropri	iate frequency?	L X			├─-{	
		Were MS (and MSD, if applicable) %Rs	within the laboratory OC Limits?	Ŷ				
		Were the MS/MSD RPDs within laborate	ory OC limits?	<u>+-^-</u>	X			4
RA	0	Anabrical dunlicate data				i Salisei	kat j. s.	
110	0,	Were appropriate analytical duplicates a	analyzed for each matrix?	0.011.02010	100019018	V		No. And Annual Property of States of
		Were appropriate analytical duplicates analyzed at t	the appropriate frequency?			÷		
		Were RPDs or relative standard deviation	one within the laboratory OC limits?			$\hat{\mathbf{x}}$		
RQ	0	Method quantitation limits (MOLs):	ons within the laboratory QC limits?	1011.042	1.000-1		A CHARLEN AND AND A	
179		Are the MOLs for each method analyte in	included in the laboratory data package?					
		Do the MOL s correspond to the concept	tration of the lowest non-zero calibration	+÷	\vdash			
		Are unadjusted MOLs and DCSs include	ed in the laboratory data nackade?	\vdash	x			2
R10		Other problems/apomelies	os in the laboratory data packager	-			l I	4 (1994)
		Are all known problems/anomalies/spec	ial conditions noted in this LRC and EP2					1997-1997 (
		Was applicable and available technolog	iv used to lower the SDL to minimize the	+÷				
		Is the laboratory NELAC accredited und	or the Texas Laboratory Accorditation	\vdash			⊢−ſ	
		Program for the analytes matrices and	methods associated with this laboratory					2
		data nackane?	memous associated with this idpointiony	^				3
		uala paulaye r						

T





Laboratorv	Name:	Accutest Guif Coast LRC Date:		10/	9/20	12				
Project Na	me:	CRA:Hobbs Gas Plant Laboratory Project Number:				TC17207				
Reviewer	Name:	Anita Patel Prep Batch Number(s):								
#	A ²	DESCRIPTION	YES	NO	NA ³	NR⁴	ER #⁵			
S1	01	Initial calibration (ICAL)		I REAL	X (2)	19 A 19				
		Were response factors and/or relative	e response factors for each analyte within QC							
		limits?		^						
		Were percent RSDs or correlation co	efficient criteria met?	X						
		Was the number of standards recom	mended in the method used for all analytes?	Х						
		Were all points generated between the	ne lowest and highest standard used to	v						
		calculate the curve?		^						
	•	Are ICAL data available for all instrum	nents used?	Х						
		Has the initial calibration curve been	verified using an appropriate second source	v						
		standard?	t	^						
S2	OI	Initial and continuing calibration v	erification (ICCV AND CCV) and continuing			$\ g_{n_i}^{N_i}\ $	1.20			
		Was the CCV analyzed at the metho	d-required frequency?	Х						
		Were percent differences for each an	alyte within the method-required QC limits?	Х						
		Was the ICAL curve verified for each	analyte?	Х						
		Was the absolute value of the analyte	e concentration in the inorganic CCB <mdl?< th=""><th></th><th></th><th>Х</th><th></th><th></th></mdl?<>			Х				
S3	0	Mass spectral tuning			$\langle \gamma \rangle^{k}$					
		Was the appropriate compound for the	ne method used for tuning?	Х						
		Were ion abundance data within the	method-required QC limits?	X						
S4	0	Internal standards (IS)		10 Mar		PD.				
		Were IS area counts and retention tir	mes within the method-required QC limits?	X						
S5	01	Raw data (NELAC Section 5.5.10)		繡縢			1- (s)			
		Were the raw data (for example, chro	matograms, spectral data) reviewed by an	Y						
		analyst?								
		Were data associated with manual in	tegrations flagged on the raw data?	X						
· S6	0	Dual column confirmation		HURSON H		there is				
		Did dual column confirmation results			X					
S7	0	Tentatively identified compounds	(TICs):			(IPA	her:			
		If TICs were requested, were the mas	ss spectra and TIC data subject to appropriate			x				
		checks?								
S8	I	Interference Check Sample (ICS) r	esults		(9) () ()	•				
		Were percent recoveries within meth	od QC limits?		<u> </u>	X				
<u> </u>		Serial dilutions, post digestion spl	kes, and method of standard additions	發講題			18 8¢ 1			
		Were percent differences, recoveries	, and the linearity within the QC limits			x				
		specified in the method?		Americanting	C COMMENT		THE DESCRIPTION OF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
510	0	Method detection limit (MDL) studi					6 N W			
		Was a MDL study performed for each	h reported analyte?	X				<u> </u>		
		Is the MDL either adjusted or suppor	ted by the analysis of DCSs?	X	aipt, kinaki	Contrast Conce	alcasecowcas			
511	0	Proticiency test reports		10.98	. 2.6. 3 1					
		vvas the laboratory's performance ac	ceptable on the applicable proficiency tests or	X						
640	0	evaluation studies?		1		S. Burks	ster sport of			
512	0	Standards documentation	a NICT traceable or obtained from other		188 A.S.	- 15 AS		計劃開始的		
		Are all standards used in the analyse	is NIST-traceable of obtained from other	X						
642	0	Compound/on obto Identification -		- 2000000000	Nativite da	nester tra	ille a Hatt	in the state of the state		
010	U U	Compound/analyte identification procedures					See S	游生和客 語		
S14	0	Are the procedures for compound/analyte identification documented?			1 20.4 (100)		PHOS NOT			
014	<u> </u>	Demonstration of analyst competency (DOC)					ell de Section			
		Was DOC conducted consistent with NELAC Chapter 5?								
S15		Us documentation of the analyst's competency up-to-date and on file?								
010		Are all the methods used to generate	the data documentated verified and	STATES OF STATES	anatina di s	an, saith an	antina Mina	RATIONNALL		
		validated where applicable?	ane data doomentated, vermed, and	X				1		
S16	0	I aboratory standard operating pro	ocedures (SOPs)	1009122	E Malésia			L Message 76		
<u>⊢</u>		Are laboratory SOPs current and on f	file for each method performed?	X	anti futera dalla		12-00200	CONTRACTOR OF		

.

ł





	LABOF	RATORY REVIEW CHEC	KLIST (continued): Exception	on Reports			
Laboratory	/ Name:	Accutest Gulf Coast	LRC Date:	10/9/2012			
Project Na	me: .	CRA:Hobbs Gas Plant	Laboratory Project Number:	TC17207			
Reviewer	Name:	Anita Patel	Prep Batch Number(s):	VG659			
ER#1	Description						
	For reporti	ng purposes, the MQL is defined in th	e report as the RL. The unadjusted MQL/RL is	reported in the method			
1	blank. The	SDL is defined in the report as the M	DL.				
	For reporti	ng purposes, the method blank repres	sents the unadjusted MQL. The DCS is on file	in the laboratory and is not			
2	included in	n the laboratory data package.					
	The labora	atory is NELAC-accredited under the 1	exas Laboratory Accreditation Program for the	analytes, matrices, and			
3	methods a	ssociated with this laboratory data pa	ckage for analytes that are listed in the Texas F	ields of Accreditation.			
4	All, anomal	ies are discussed in the case narrative	e. <u>.</u>				
	,		·				

1

1ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on



5.2

Section 6

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: Account: Project:	DUKE DCP M CRA:Hobbs Ga	idstream is Plant	, LLC				
Sample VG659-MB	File 1D G014987.D	DF 1	Analyzed 10/05/12	By AK	Prep Date n/a	Prep Batch n/a	Analytical Batch VG659
, ,		1		! 1		1	
The QC repor	ted here applies	to the fo	llowing sample	s:		Method: SW84	6 8260B

ТС17207-1, ТС17207-2, ТС17207-3, ТС17207-4, ТС17207-5, ТС17207-6

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND ->	1.0	0.34	ug/l
100-41-4	Ethylbenzene	ND .	1.0	0.32	ug/l
108-88-3	Toluene	ND	1.0	0.33	ug/l
1330-20-7	Xylene (total)	ND'	3.0	0.87	ug/l

urrogate Recoveries		Limits
bibromofluoromethane ,2-Dichloroethane-D4 oluene-D8	92% 90% 92%	72-122% 68-124% 80-119%
	urrogate Recoveries ibromofluoromethane 2-Dichloroethane-D4 oluene-D8 Bromofluorobenzene	ibromofluoromethane 92% 2-Dichloroethane-D4 90% oluene-D8 92% Bromofluorobenzene 89%

22 of 24 ACCUTEST, TC17207

Page 1 of 1

6.1.1 .6

Blank Spike Summary

Job Number:	TC17207
Account:	DUKE DCP Midstream, LLC
Project:	CRA:Hobbs Gas Plant

Sample VG659-BS	File ID G014985.D	DF 1	Analyzed 10/05/12	By AK	Prep Date n/a	Prep Batch n/a	Analytical Batch VG659
The QC reported here applies to the following samples:]	Method: SW840	5 8260B	

ТС17207-1, ТС17207-2, ТС17207-3, ТС17207-4, ТС17207-5, ТС17207-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.2	105	68-119
100-41-4	Ethylbenzene	25	25.4	102	71-117
108-88-3	Toluene	25	25.4	102	73-119
1330-20-7	Xylene (total)	75	78.2	104	74-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	91%	72-122%
17060-07-0	1,2-Dichloroethane-D4	88%	68-124%
2037-26-5	Toluene-D8	92%	80-119%
460-00-4	4-Bromofluorobenzene	86%	72-126%



.

Page 1 of 1

Matrix Spike/Matrix Spike Duplicate Summary

Job Number:	TC17207
Account:	DUKE DCP Midstream, LLC
Project:	CRA: Hobbs Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TC17419-2MS	G014991.D	5	10/06/12	AK	n/a	n/a	VG659
TC17419-2MSD	G014992.D	5	10/06/12	AK	n/a	n/a	VG659
TC17419-2 ^a	G014990.D	5	10/05/12	AK	n/a	n/a	VG659
н 1	+					1	

The QC reported here applies to the following samples:

ТС17207-1, ТС17207-2, ТС17207-3, ТС17207-4, ТС17207-5, ТС17207-6

CAS No.	Compound	TC17419-2 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylene (total)	5.3 5.0 U 9.1 15 U	125 125 125 375	105 96.7 107 296	80 77 78 79	137 133 143 408	105 106 107 109	26* 32* 29* 32*	68-119/12 71-117/12 73-119/13 74-119/13
CAS No.	Surrogate Recoveries	MS	MSD	тс	217419-2	Limits			

1868-53-7	Dibromofluoromethane	90%	93%	93%	72-122%
17060-07-0	1,2-Dichloroethane-D4	91%	89%	90%	68-124%
2037-26-5	Toluene-D8	90%	94%	90%	80-119%
460-00-4	4-Bromofluorobenzene	88%	88%	86%	72-126%

(a) Sample was not preserved to a pH < 2



Page 1 of 1

Method: SW846 8260B