

REVIEWED**By Mike Buchanan at 1:40 pm, Feb 21, 2025**

Mr. Bradford Billings
Project Manager
EMNRD/OCD
5200 Oakland, NE, Suite 100
Albuquerque, NM 87113

Subject:

Proposed Groundwater Monitoring
Chevron Environmental Management
Lovington Paddock Remediation
Lea County, New Mexico
OGRID No. 4323
Case No. 1R272

The proposed monitoring well schedule and reduction of sampling is approved for the following wells: MW-CR, MW-D, MW-D2, MW-E, MW-F, MW-G, MW-J, MW-L, MW-M, MW-N, MW-Q, MW-R, MW-S, and MW-W. MW-R will be sampled if MW-P is dry or contains insufficient water to sample during the reduced sampling event. This plan is approved for the Chevron Lovington

Dear Mr. Billings:

At the request of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) is proposing to request the reduction of groundwater monitoring frequency for the Lovington Paddock site (Site).

The Site is located within the Lovington Paddock Unit, an active oil production field located in Lea County, New Mexico, and approximately 6.2 miles southeast of the City of Lovington (COL). The Site is in the south ½ of the southeast ¼ of Section 1, Township 17 South, Range 36 East in Lea County, New Mexico. The site coordinates are 32° 51' 31.09" N latitude, 103° 18' 05.41" W longitude.

Groundwater monitoring began at the Site in November 1998, and the Site is currently monitored semi-annually from a network of 25 monitoring wells. The Site groundwater flow is generally to the southeast. All monitoring wells with groundwater present are currently sampled during both sampling events. Several existing wells tend to go dry during the 3rd and 4th quarters due to pumping of nearby irrigation wells. The constituents of concern (COCs) in groundwater include benzene, ethylbenzene, toluene, xylenes (BTEX) and total petroleum hydrocarbons (TPH).

For additional site-specific background information please refer to the GHD, 2018 Groundwater Monitoring Report, dated July 30, 2019. The 2019 Groundwater Monitoring Report will be submitted by the end of the third quarter 2020.

Arcadis U.S., Inc.
10205 Westheimer Road
Suite 800
Houston
Texas 77042
Tel 713 953 4800
Fax 713 977 4620
www.arcadis.com

ENVIRONMENT

Date:
July 16, 2020

Contact:
Scott Foord

Phone:
713.953.4853

Email:
William.foord@arcadis.com

ARCADIS U.S., Inc.
TX Engineering License # F-533
Geoscientist License # 50158

Mr. Bradford Billings
EMNRD/OCD
July 16, 2020

PROPOSED REDUCED SAMPLING PLAN

The following Workplan outlines the specifics of the proposed reduced sampling plan and the methodology for the selection of those monitoring wells. One semi-annual monitoring event will include sampling all site wells as currently conducted. The second semi-annual sampling event will be reduced to only sampling select monitoring wells based on the following proposed sampling methodology. The groundwater sampling frequency will be assessed yearly based on the results of the sampling events for the lifespan of the project and will increase to quarterly for a minimum of eight consecutive quarters prior to closure request for the Site.

CEMC also requests to defer TPH analysis for all wells sampled during the reduced second semi-annual sampling event as concentration trends have been established and there are currently no New Mexico Water Quality Control Commission (NMWQCC) standards for these constituents.

The following sections provide specifics for the proposed reduced groundwater monitoring plan:

Sampling Reduction for Non-Impacted Monitoring Wells

Site monitoring wells with COC concentrations reported below NMWQCC exceedance standards for two consecutive years or longer will not be gauged or sampled during the second semi-annual monitoring event.

The Site wells currently selected for reduction from the second sampling event include: MW-CR, MW-D, MW-D2, MW-E, MW-F, MW-G, MW-J, MW-L, MW-M, MW-N, MW-Q, MW-R, MW-S, and MW-W. MW-R will be sampled if MW-P is dry or contains insufficient water to sample during the reduced sampling event.

The previously referenced monitoring wells have been evaluated based on historical concentration trends, historical concentration trends of nearby monitoring wells, potential receptors, and the groundwater gradient.

The proposed reduction list of monitoring wells and associated laboratory analysis for the semi-annual events are presented on attached **Table 1** (Sampling and Analysis Plan).

The proposed Site monitoring wells that will be sampled during the reduced event are presented on **Figure 1** (Potentiometric Surface Map) and are presented with current groundwater constituent concentrations on **Figure 2** (Proposed Groundwater Monitoring Reduction Plan).

The Summary of Historical Groundwater Analytical Results is presented in **Table 2**.

CONTACT

Arcadis is prepared to initiate the scope of work immediately. If you have any questions or comments, please contact either Scott Foord by phone at 713 953 4853 or by e-mail at william.foord@arcadis.com or Greg Cutshall by phone at 859 327 4626 or by email at greg.cutshall@arcadis.com.

Mr. Bradford Billings
EMNRD/OCD
July 16, 2020

Sincerely,

Arcadis U.S., Inc.



Scott Foord
Project Manager

Copies:
Greg Cutshall, Program Manager

Enclosures:

Tables

- 1 Sampling and Analysis Plan
- 2 Summary of Historical Groundwater Analytical Results

Figures

- 1 Potentiometric Surface Map
- 2 Proposed Groundwater Monitoring Reduction Plan

TABLES



Table 1
Sampling and Analysis Plan
Chevron Environmental Management Company
Lovington Paddock Remediation Site
Lea County, New Mexico



Well ID	First Semi-Annual Event		Second Semi-Annual Event
	BTEX	TPH- DRO/GRO	BTEX Only
BW-1	X	X	X
BW-2	X	X	X
BW-3	X	X	X
MW-B	X	X	X
MW-CR	X	X	--
MW-D	X	X	--
MW-D2	X	X	--
MW-E	X	X	--
MW-F	X	X	--
MW-G	X	X	--
MW-H	X	X	X
MW-I	X	X	X
MW-J	X	X	--
MW-L	X	X	--
MW-M	X	X	--
MW-N	X	X	--
MW-O-R	X	X	X
MW-P	X	X	X
MW-Q	X	X	--
MW-R	X	X	*
MW-S	X	X	--
MW-T	X	X	X
MW-U	X	X	X
MW-V	X	X	X
MW-W	X	X	--

Notes:

USEPA = United States Environmental Protection Agency

X = Data will be collected at monitoring well during respective event

-- = Data will not be collected at monitoring well during respective event

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Lovington Paddock Remediation Site
South ½ of the southeast ¼ of Section 1, Township 17 South, Range 36 East
Lea County, New Mexico



Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-1	11/5/1998	<0.001	<0.001	<0.001	<0.001									
MW-1	1/28/1999	<0.001	<0.001	<0.001	<0.001	<0.100	<5							
MW-1	1/6/2000	<0.005	<0.005	<0.005	<0.005									
MW-1	2/12/2002	<0.001	<0.001	<0.001	<0.001									
MW-2	11/5/1998	<0.001	<0.001	<0.001	<0.001									
MW-2	1/28/1999	<0.001	<0.001	<0.001	<0.001	<0.100	<5							
MW-2	1/6/2000	<0.005	<0.005	<0.005	<0.005									
MW-2	2/12/2002	0.032	<0.001	<0.001	<0.001									
MW-3	11/5/1998	0.147	<0.001	<0.001	<0.001									
MW-3	1/28/1999	0.102	<0.001	<0.001	<0.001	<0.100	<5							
MW-3	1/6/2000	0.593	<0.005	<0.005	<0.005									
MW-3	2/12/2002	0.557	<0.010	<0.010	<0.010									
MW-4	11/5/1998	0.882	0.808	0.085	0.214									
MW-4	1/28/1999	1.85	1.89	0.123	0.682	8.07	<5							
MW-4	1/6/2000	0.569	0.331	0.055	0.109									
MW-4	2/12/2002	0.422	0.379	0.044	0.126									
MW-5	1/28/1999	2.73	0.001	0.002	0.12	5.18	<5							
MW-5	1/6/2000	3.1	<0.005	<0.005	0.057									
MW-5	2/12/2002	3.06	<0.020	<0.020	<0.020									
MW-6	1/28/1999	2.58	0.003	0.39	0.108	5.38	<5							
MW-6	1/6/2000	2.07	<0.005	0.439	0.087									
MW-6	2/12/2002	7.03	<0.100	0.7	0.152									
MW-7	3/25/1999	<0.001	<0.001	<0.001	<0.001	<0.100	<5							
MW-7	1/6/2000	<0.005	<0.005	<0.005	<0.005									
MW-7	2/12/2002	<0.005	<0.005	<0.005	<0.005									
MW-8	3/25/1999	<0.001	<0.001	<0.001	<0.001	<0.100	<5							
MW-8	1/6/2000	<0.005	<0.005	<0.005	<0.005									
MW-8	2/12/2002	<0.001	<0.001	<0.001	<0.001									
MW-9	3/25/1999	0.104	<0.001	<0.001	0.002	0.155	<5							
MW-9	4/14/1999	<0.001	<0.001	<0.001	<0.001	<0.100	<5							
MW-9	1/6/2000	<0.005	<0.005	<0.005	<0.005									
MW-9	2/12/2002	0.0474	<0.001	<0.001	<0.001									
WW-1	10/17/2001	<0.001	<0.001	<0.001	<0.001								655	1,790
WW-1	2/12/2002	<0.001	<0.001	<0.001	<0.001								77.5	
WW-2	10/17/2001	<0.001	<0.001	<0.001	<0.001								45.5	389
WW-2	2/12/2002	<0.000	<0.000	<0.000	<0.000									
WW-3	10/17/2001	<0.001	<0.001	<0.001	<0.001								102	478
WW-3	2/12/2002	<0.001	<0.001	<0.001	<0.001								125	
WW-4	10/17/2001	<0.001	<0.001	<0.001	<0.001								58	446
WW-4	2/12/2002	<0.001	<0.001	<0.001	<0.001								56.5	
AST WW	10/17/2001	<0.001	<0.001	<0.001	<0.001								43.6	396
AST WW	2/12/2002	<0.001	<0.001	<0.001	<0.001								39.4	

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Chevron Environmental Management Company
Lovington Paddock Remediation Site
South ½ of the southeast ¼ of Section 1, Township 17 South, Range 36 East
Lea County, New Mexico

Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
BW-1	6/16/2005	<0.005	<0.005	<0.005	<0.005									
BW-1	7/27/2005	<0.001	<0.001	<0.001	<0.001									
BW-1	9/21/2005	<0.001	<0.001	<0.001	<0.001									
BW-1	12/9/2005	0.184	0.24	0.0458	0.172									
BW-1	7/2/2008	0.0052	0.0018	0.0007	0.0018	0.027	0.077							
BW-1	9/18/2008	0.0022	0.0014	0.0007 J	0.0015 J	<0.02	0.076 J							
BW-1	2/11/2009	0.0004	0.0002 J	0.0002 J	<0.0006	<0.02	0.031							
BW-1	7/14/2009	<0.0002	<0.0002	0.0003 J	<0.0006	0.035 J	0.13							
BW-1	1/26/2010	<0.0002	0.0002 J	<0.0002	<0.0006	<0.02	0.073 J							
BW-1	7/7/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.070 J							
BW-1	1/25/2011	<0.001	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
BW-1	7/13/2011	<0.001	<0.0020	<0.0010	<0.0010	<1.5	<1.5							
BW-1	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50							
BW-1	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50							
BW-1	7/23/2013	<0.00182	<0.00200	<0.00123	<0.00100	<1.44	<1.44							
BW-1	3/4/2014	0.239	<0.00200	<0.00100	0.00644	<1.34	<1.34							
BW-1	10/16/2014	0.00113	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
BW-1	3/20/2015	0.381	0.00251	<0.00100	0.00805	<1.50	<1.50	<1.50						
BW-1	10/15/2015	0.0625	<0.00200	<0.00100	0.00581	<1.41	<1.41	<1.41						
BW-1	10/15/2015	0.0506	<0.00200	<0.00100	0.00425	<1.40	<1.40	<1.40						
BW-1	3/17/2016	0.35	0.00253	0.00315	0.0123	<2.34	<2.34	<2.34						
BW-1	10/5/2016	0.13	0.00347	<0.00200	0.0138	<1.50	<1.50	<1.50						
BW-1	3/14/2017	1.25	<0.0500	<0.0500	<0.0500	<1.50	<1.50	<1.50						
BW-1	9/13/2017	0.0364	<0.00200	<0.00200	<0.00400	<1.50	<1.50	<1.50						
BW-1	3/16/2018	0.2060	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
BW-1	9/11/2018	0.0437	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
BW-1	1/16/2019	0.00724	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.10	49.60	236.00	0.944		
BW-1	11/22/2019	<0.00100	<0.00100	<0.00100	<0.00200	<0.10	<0.50	<0.50						
BW-2	6/16/2005	0.0039	0.0026	<0.001	0.001									
BW-2	7/27/2005	<0.001	<0.001	<0.001	<0.001									
BW-2	9/21/2005	<0.001	<0.001	<0.001	<0.001									
BW-2	12/9/2005	0.076	0.117	0.0272	0.0981									
BW-2	7/2/2008	0.0099	0.0025	0.0009	0.0022	0.043	0.11							
BW-2	9/18/2008	0.0016	0.0011	0.0003 J	0.0009 J	<0.02	<0.033							
BW-2	2/11/2009	0.0002 J	<0.0002	<0.0002	<0.0006	<0.02	<0.031							
BW-2	7/16/2009	0.018	0.0002 J	0.0019	0.0009 J	0.087	0.64							
BW-2	7/13/2010	0.13	0.038	0.0061	0.013	0.37	0.13							
BW-2	1/27/2011	0.005	0.0028	<0.0010	<0.0030	<0.0500	0.025 J							
BW-2	7/14/2011	0.00139	<0.0020	<0.0010	<0.0010	<1.5	<1.5							
BW-2	7/14/2011	0.001	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
BW-2	10/17/2012	0.00695	0.00613	<0.00100	<0.00100	<1.50	<1.50							
BW-2	1/23/2013	0.0503	0.0128	<0.00100	<0.00100	<1.50	<1.50							
BW-2	7/24/2013	0.00289	<0.00200	<0.00100	<0.00100	<1.41	<1.41							
BW-2	3/5/2014	0.03470	0.00420	<0.00100	<0.00100	<1.34	<1.34							
BW-2	10/17/2014	0.00786	0.00451	<0.00100	<0.00100	<1.48	<1.48	<1.48						
BW-2	10/17/2014	0.00867	0.00391	<0.00100	<0.00100	<1.48	<1.48	<1.48						
BW-2	3/26/2015	0.00276	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
BW-2	3/26/2015	0.00293	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
BW-2	10/14/2015	0.0101	0.00510	<0.00100	<0.00100	<1.40	<1.40	<1.40						
BW-2	10/14/2015	0.0136	0.00473	<0.00100	<0.00100	<1.41	<1.41	<1.41						
BW-2	3/17/2016	0.0860	0.0266	<0.00200	0.00364	<2.35	<2.35	<2.35						
BW-2	10/5/2016	0.0512	0.0188	<0.00200	<0.00200	<1.50	<1.50	<1.50						
BW-2	3/14/2017	0.00938	0.00241	<0.00200	<0.00200	<1.50	<1.50	<1.50						
BW-2	9/12/2017	0.0414	0.00365	<0.00200	0.00200	<1.50	<1.50	<1.50						
BW-2	3/15/2018	0.0022	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
BW-2	9/11/2018	0.0214	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
BW-2	1/17/2019	0.784 D	0.07960	0.00727	0.02060	<1.50	<1.50	<1.50						
BW-2	11/22/2019	0.0130	0.00150	<0.00100	<0.0020	<0.10	<0.48	<0.48						

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NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
BW-3	6/16/2005	4.25	0.11	<0.1	<0.1									
BW-3	7/27/2005	<0.001	<0.001	<0.001	<0.001									
BW-3	9/22/2005	<0.001	<0.001	<0.001	<0.001									
BW-3	12/9/2005	0.0508	0.0769	0.0182	0.0724									
BW-3	7/2/2008	0.0073	0.0024	0.001	0.0023	0.035	0.095							
BW-3	9/18/2008	0.0029	0.0017	0.0004 J	0.0012 J	<0.02	<0.033							
BW-3	2/11/2009	0.0003 J	0.0002 J	<0.0002	<0.0006	<0.02	<0.031							
BW-3	7/16/2009	0.012	<0.0002	0.0016	0.0007 J	0.063	0.13							
BW-3	1/27/2011				dry									
BW-3	7/14/2011	0.0151	0.00774	0.00156	<0.00100	<1.5	<1.5							
BW-3	10/17/2012	0.0215	0.00969	<0.00100	<0.00100	<1.50	<1.50							
BW-3	1/23/2013	0.00283	0.00313	<0.00100	<0.00100	<1.50	<1.50							
BW-3	7/24/2013	0.209	0.0797	<0.00640	0.0177	<1.44	<1.44							
BW-3	3/5/2014	1.500	0.4420	0.0489	0.1610	3.710	<1.34							
BW-3	10/17/2014	0.026	0.0094	<0.00100	0.0021	<1.48	<1.48							
BW-3	3/20/2015	0.073	0.0246	<0.00100	0.00597	<1.50	<1.50	<1.50						
BW-3	3/20/2015	0.0710	0.0239	<0.00100	0.00613	<1.50	<1.50	<1.50						
BW-3	10/15/2015	0.206	0.0752	0.00381	0.0177	<1.41	<1.41	<1.41						
BW-3	3/17/2016	0.028	0.00591	<0.00200	<0.00200	<2.34	<2.34	<2.34						
BW-3	10/5/2016	0.105	0.0335	<0.00200	0.0122	<1.50	<1.50	<1.50						
BW-3	3/14/2017	0.0282	0.00889	<0.00200	<0.00200	<1.50	<1.50	<1.50						
BW-3	9/13/2017	0.387	0.0113	<0.00200	0.0193	<1.50	<1.50	<1.50						
BW-3	3/13/2018	0.08150	0.00708	<0.0020	<0.0020	<1.50	<1.50	<1.50						
BW-3	9/12/2018				dry									
BW-3	1/16/2019	3.98 D	1.21 D	0.0322	0.109	2.81	<1.50	2.81	<1.10	64.3	288	<0.100		
MW-A	6/16/2005	0.0348	0.0034	<0.001	<0.001									
MW-A	7/26/2005				dry									
MW-A	9/20/2005				dry									
MW-A	12/8/2005	0.0206	0.0887	0.0159	0.0858									
MW-A	7/1/2008				dry									
MW-B	6/16/2005	0.713	0.0266	<0.02	<0.02									
MW-B	7/26/2005	0.546	0.917	0.0902	0.485									
MW-B	9/20/2005	0.312	0.454	0.0344	0.236									
MW-B	12/8/2005	0.103	0.172	<0.02	0.115									
MW-B	5/17/2007	0.086	0.0076	0.0005	0.003	0.3	0.088							
MW-B	10/2/2007	0.068	0.003	0.0003	0.0009			1.3						
MW-B	6/30/2008	0.67	0.025	0.0028	0.02	1.7	0.087**							
MW-B	9/17/2008	0.11	0.0041 J	0.0019 J	0.0081 J	0.34	<0.032							
MW-B	2/3/2009	0.041	0.0019	0.0004 J	0.0014 J	0.095	<0.056							
MW-B	7/15/2009	0.034	<0.0002	0.0013	<0.0006	0.14	0.09 J							
MW-B	12/7/2010	0.048	0.0032	<0.0002	0.0016 J	0.28	0.1							
MW-B	7/12/2010	0.077	0.0029	<0.0002	0.0016 J	0.26	0.063 J							
MW-B	12/1/2011	0.36	0.0096	<0.0010	0.0064	0.914	0.073							
MW-B	7/13/2011				dry									
MW-B	10/15/2012				dry									
MW-B	1/23/2013	2.41	<0.0500	<0.0250	<0.0250	4.97	<1.50	4.97						
MW-B	7/23/2013				dry									
MW-B	3/5/2014	0.348	<0.00200	<0.00100	0.00273	4.51	<1.34	4.51						
MW-B	10/16/2014				dry									
MW-B	3/20/2015	4.01	<0.040	<0.0200	0.0568	8.01	<1.50	8.01						
MW-B	10/12/2015				dry									
MW-B	3/16/2016	4.82	<0.00150	<0.00200	<0.00200	5.27	<2.34	5.27						
MW-B	10/5/2016				dry									
MW-B	3/15/2017	0.125	0.00243	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-B	9/12/2017				dry									
MW-B	3/13/2018	2.05	<0.100	<0.100	<0.100	5.50	3.02	8.52						

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Lovington Paddock Remediation Site
South ¼ of the southeast ¼ of Section 1, Township 17 South, Range 36 East
Lea County, New Mexico

Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-C	6/15/2005	<0.005	<0.005	<0.005	<0.005									
MW-C	7/26/2005	0.414	0.543	0.0885	0.266									
MW-C	9/21/2005	0.239	0.317	0.0599	0.17									
MW-C	12/8/2005	0.0472	0.0741	0.0162	0.0592									
MW-C	5/17/2007	0.012	0.0049	0.0006	0.0019	0.062	0.095							
MW-C	10/2/2007	0.029	0.011	0.0011	0.003			<0.095						
MW-C	6/30/2008	0.019	0.0053	0.0011	0.0016	0.075	0.26							
MW-C	9/17/2008	0.0029	0.0014	0.0006 J	0.0015 J	0.025 J	0.068 J							
MW-C	2/5/2009	0.0086	0.0036	0.0007 J	0.0019 J	0.039 J	<0.032							
MW-C	7/14/2009	0.0071	0.0002 J	0.0014	0.0006 J	0.093	0.09 J							
MW-C	12/7/2010	0.0021	0.0003 J	<0.0002	<0.0006	<0.02	0.061 J							
MW-C	7/12/2010	0.0005 J	0.0004 J	<0.0002	<0.0006	0.033 J	0.096 J							
MW-C	1/25/2011	0.0024 J	0.0010 J	<0.0010	<0.0030	0.060 J	0.036 J	0.036 J						
MW-C	1/27/2011	0.0025	0.0011	<0.0010	<0.0030	<0.0500	0.024 J							
MW-C	7/13/2011			dry										
MW-C	10/15/2012			dry										
MW-C	1/23/2013	0.00434	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-C	7/23/2013			dry										
MW-C	3/5/2014	0.05820	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-C	10/16/2014			dry										
MW-C	3/20/2015	0.102	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-C	10/12/2015			dry										
MW-C	3/16/2016	0.0711	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-C	plugged													
MW-C-R	10/4/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-C-R	3/14/2017	0.0177	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-C-R	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-C-R	3/15/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-C-R	9/11/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-C-R	1/15/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.10	49.40	229.00	1.62		
MW-C-R	11/22/2019	<0.00100	<0.00100	<0.00100	<0.00200	<0.10	<0.49	<0.49						
MW-D	5/15/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028							
MW-D	9/27/2007	<0.002	<0.002	<0.002	<0.006			<0.094						
MW-D	6/30/2008	0.039	0.0073	0.0013	0.0013	0.095	0.13							
MW-D	9/16/2008	0.0013	0.001 J	0.0005 J	0.0012 J	<0.02	0.088 J							
MW-D	2/4/2009	0.0081	0.0023	0.0007 J	0.0019 J	0.034 J	<0.031							
MW-D	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.044 J	0.13							
MW-D	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.046 J							
MW-D	7/8/2010	<0.0002	0.0004 J	<0.0002	<0.0006	0.028 J	0.16							
MW-D	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
MW-D	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.050						
MW-D	7/13/2011			dry										
MW-D	10/15/2012			dry										
MW-D	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-D	7/23/2013			dry										
MW-D	3/5/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-D	10/16/2014			dry										
MW-D	3/7/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-D	10/15/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
MW-D	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-D	10/5/2016			dry										
MW-D	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-D	9/12/2017			dry										
MW-D	3/16/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-D	9/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						

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South ½ of the southeast ¼ of Section 1, Township 17 South, Range 36 East
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Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-D2	5/15/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028							
MW-D2	9/27/2007	<0.002	<0.002	<0.002	<0.006									
MW-D2	6/30/2008	0.026	0.0046	0.0009	0.0009	0.061	0.036							
MW-D2	9/17/2008	0.0011	0.0008 J	0.0007 J	0.0015 J	<0.02	0.052 J							
MW-D2	2/4/2009	0.0067	0.0031	0.0006 J	0.0016 J	0.030 J	<0.031							
MW-D2	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.023 J	0.086 J							
MW-D2	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.049 J							
MW-D2	7/7/2010	<0.0002	0.0002 J	<0.0002	<0.0006	<0.02	0.060 J							
MW-D2	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.050						
MW-D2	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
MW-D2	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-D2	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-D2	7/24/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-D2	3/5/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-D2	10/17/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
MW-D2	3/16/2015		not sampled											
MW-D2	10/14/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-D2	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-D2	10/4/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-D2	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-D2	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-D2	3/15/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-D2	9/11/2018	<0.0020	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-D2	1/15/2019	<0.0020	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50	<1.10	58.80	154.00	2.66		
MW-D2	11/22/2019	<0.00100	<0.00100	<0.00100	<0.0020	<0.10	<0.49	<0.49						
MW-E	6/15/2005	<0.005	<0.005	<0.005	<0.005									
MW-E	5/16/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028							
MW-E	9/27/2007	<0.002	<0.002	<0.002	<0.006			<0.094						
MW-E	7/1/2008	0.017	0.005	0.001	0.0011	0.049	0.041							
MW-E	9/17/2008	0.01	0.0059	0.0006 J	0.0034	0.055	<0.03							
MW-E	2/11/2009	0.0008 J	0.0004 J	0.0003 J	0.0007 J	<0.02	<0.031							
MW-E	7/15/2009	<0.0002	<0.0002	0.0002 J	<0.0006	0.044 J	0.33							
MW-E	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.062 J							
MW-E	7/8/2010	<0.0002	0.0004 J	<0.0002	<0.0006	<0.02	0.080 J							
MW-E	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
MW-E	7/13/2011		dry											
MW-E	10/15/2012		dry											
MW-E	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-E	7/23/2013		dry											
MW-E	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-E	10/16/2014		dry											
MW-E	3/17/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-E	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
MW-E	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-E	10/5/2016		dry											
MW-E	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-E	9/12/2017		dry											
MW-E	3/13/2018		dry											
MW-E	9/12/2018		dry											

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Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-F	6/15/2005	<0.005	<0.005	<0.005	<0.005									
MW-F	5/16/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028							
MW-F	9/27/2007	<0.002	<0.002	<0.002	<0.006			<0.096						
MW-F	7/2/2008	0.013	0.0036	0.0007	0.0008	0.039	0.044							
MW-F	9/17/2008	0.0074	0.0042	0.0005 J	0.0025 J	0.039 J	<0.031							
MW-F	2/11/2009	0.0004 J	0.0002 J	<0.0002	<0.0006	<0.02	<0.031							
MW-F	7/14/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.079 J							
MW-F	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.063 J							
MW-F	7/7/2010	0.0002 J	0.0003 J	<0.0002	<0.0006	<0.02	0.11							
MW-F	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
MW-F	7/13/2011		insufficient water											
MW-F	10/15/2012		dry											
MW-F	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-F	7/23/2013		dry											
MW-F	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-F	10/16/2014		dry											
MW-F	3/17/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-F	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
MW-F	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-F	10/5/2016		dry											
MW-F	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-F	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-F	9/12/2017		dry											
MW-F	3/16/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-G	6/15/2005	<0.005	<0.005	<0.005	<0.005									
MW-G	5/16/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028							
MW-G	10/1/2007	<0.002	<0.002	<0.002	<0.006			<0.096						
MW-G	7/2/2008	0.0081	0.0025	0.0006	0.0006	0.026	<0.029							
MW-G	9/17/2008	0.024	0.013	0.001	0.0057	0.11	<0.031							
MW-G	2/11/2009	0.0012	0.0005 J	0.0003 J	0.0009 J	<0.02	<0.031							
MW-G	7/15/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.11							
MW-G	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.054 J							
MW-G	7/7/2010	0.0002 J	0.0003 J	<0.0002	<0.0006	<0.02	0.073 J							
MW-G	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
MW-G	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5							
MW-G	10/15/2012		dry											
MW-G	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-G	7/23/2013		dry											
MW-G	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-G	10/16/2014		dry											
MW-G	3/17/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-G	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
MW-G	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
MW-G	10/5/2016		dry											
MW-G	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-G	9/12/2017		dry											
MW-G	3/16/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-G	3/16/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						

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Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-H	6/15/2005	0.492	0.0219	<0.02	<0.02									
MW-H	7/26/2005	1.93	2.01	0.144	0.677									
MW-H	9/20/2005	2.35	2.54	0.188	0.932									
MW-H	12/6/2005	3.89	2.72	0.202	0.815									
MW-H	5/17/2007	0.73	0.082	0.0089	0.031	2.4	0.2							
MW-H	10/2/2007	0.2	0.037	0.0027	0.01			<0.094						
MW-H	7/2/2008	0.14	0.022	0.0018	0.006	0.36	0.036							
MW-H	9/17/2008	0.26	0.077	0.0032	0.022	0.86	0.036 J							
MW-H	2/3/2009	0.49	0.056	0.0075	0.022	1.2	0.078 J							
MW-H	7/15/2009	0.25	0.0018	0.027	0.012	0.64	0.068 J							
MW-H	1/27/2010	0.6	0.061	0.0025	0.017	1.7	0.16							
MW-H	7/13/2010	0.71	0.032	0.0016 J	0.0079 J	1.5	0.094 J							
MW-H	1/27/2011	4.6	0.28	0.0066	0.055	8.48	0.15							
MW-H	7/13/2011			dry										
MW-H	10/15/2012			dry										
MW-H	1/23/2013	5.93	0.446	0.0373	0.0528	7.55	<1.50	<1.50						
MW-H	7/23/2013			dry										
MW-H	3/5/2014	5.540	0.784	0.02560	0.08020	7.060	<1.34	<1.34						
MW-H	10/16/2014			dry										
MW-H	3/26/2015	6.57	0.808	<0.0250	<0.0250	10.1	1.59	11.7						
MW-H	10/12/2015			dry										
MW-H	3/17/2016	5.08	0.704	<0.00200	<0.00200	6.88	<2.34	<2.34						
MW-H	10/5/2016			dry										
MW-H	3/14/2017	2.65	0.299	<0.100	<0.100	2.09	1.99	4.08						
MW-H	9/12/2017			dry										
MW-H	3/13/2018			dry										
MW-I	6/15/2005	0.378	0.0124	<0.01	<0.01									
MW-I	7/26/2005	1.1	1.4	0.067	0.491									
MW-I	9/20/2005	0.555	0.801	0.0253	0.375									
MW-I	12/6/2005	0.496	0.611	0.0287	0.238									
MW-I	5/17/2007	0.067	0.032	0.0009	0.007	0.26	0.053							
MW-I	10/1/2007	0.033	0.01	<0.002	0.002			<0.097						
MW-I	7/1/2008	0.086	0.034	0.0017	0.0059	0.3	0.063							
MW-I	9/17/2008	0.0042	0.0022	0.0007 J	0.0019 J	0.029 J	0.091 J							
MW-I	2/5/2009	0.012	0.0056	0.0005 J	0.0021 J	0.058	<0.031							
MW-I	7/14/2009	0.011	0.0002 J	0.004	0.001 J	0.091	0.1							
MW-I	1/27/2010	0.03	0.012	0.0004 J	0.0025 J	0.13	0.065 J							
MW-I	7/12/2010	0.041	0.0028	0.0003 J	0.0014 J	0.14	0.047 J							
MW-I	1/27/2011	0.0025	0.0018	<0.0010	<0.0030	0.0448 J	<0.050							
MW-I	7/14/2011	4.19	0.994	0.049	0.356	6.12	<1.50	<1.50						
MW-I	10/15/2012			dry										
MW-I	1/23/2013	0.338	0.00613	<0.00100	0.00232	<1.50	<1.50							
MW-I	7/23/2013			dry										
MW-I	3/5/2014	1.110	0.0601	<0.00500	0.00667	1.910	<1.34	<1.34						
MW-I	10/16/2014			dry										
MW-I	3/26/2015	1.64	0.0934	<0.0200	<0.0200	3.55	<1.50	3.55						
MW-I	10/15/2015	0.642	0.045	<0.0200	<0.400	2.19	<1.41	2.190						
MW-I	3/17/2016	1.27	0.0585	<0.00200	<0.00200	<2.34	3.76	3.76						
MW-I	10/5/2016			dry										
MW-I	3/15/2017			insufficient water										
MW-I	9/12/2017			dry										
MW-I	3/14/2018	0.2960	0.00472	<0.0020	<0.0020	1.75	<1.50	1.75						
MW-I	3/14/2018	0.267	0.004	<0.0020	<0.0020	1.51	<1.50	1.51						

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Lovington Paddock Remediation Site
South ½ of the southeast ¼ of Section 1, Township 17 South, Range 36 East
Lea County, New Mexico

Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-J	12/6/2005	<0.005	<0.005	<0.005	<0.005									
MW-J	5/15/2007	0.0015	<0.002	<0.002	<0.006	<0.02	<0.028							
MW-J	10/1/2007	0.0005	<0.002	<0.002	<0.006			<0.096						
MW-J	6/30/2008	0.038	0.0073	0.0014	0.0014	0.093	0.28							
MW-J	9/16/2008	0.0012	0.0008 J	0.0005 J	0.0011 J	<0.02	0.093 J							
MW-J	2/4/2009	0.0078	0.0022	0.0007 J	0.0019 J	0.032 J	<0.031							
MW-J	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.035 J	0.11							
MW-J	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.056 J							
MW-J	7/7/2010	<0.0002	0.0002 J	<0.0002	<0.0006	<0.02	0.062 J							
MW-J	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
MW-J	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5								
MW-J	10/15/2012		insufficient water											
MW-J	1/22/2013		insufficient water											
MW-J	7/23/2013	<0.0010	<0.0020	<0.0010	<0.0010	1.44	1.44	1.44						
MW-J	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-J	10/16/2014		insufficient water											
MW-J	3/17/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-J	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
MW-J	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
MW-J	10/5/2016		insufficient water											
MW-J	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-J	9/12/2017		dry											
MW-J	3/14/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-J	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-L	6/15/2005	<0.005	<0.005	<0.005	<0.005									
MW-L	5/15/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.038	<0.093						
MW-L	10/1/2007	<0.002	<0.002	<0.002	<0.006									
MW-L	7/1/2008	0.018	0.0031	0.001	0.0025	0.063	0.089							
MW-L	9/16/2008	0.0019	0.0012	<0.0006	<0.0015	<0.02	0.13							
MW-L	2/4/2009	0.011	0.003	0.0009 J	0.0024 J	0.041 J	0.042 J							
MW-L	7/14/2009	0.0003 J	<0.0002	0.0002 J	<0.0006	0.033 J	0.079 J							
MW-L	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.037 J							
MW-L	7/12/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.051 J							
MW-L	1/27/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
MW-L	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5								
MW-L	10/15/2012		insufficient water											
MW-L	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-L	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-L	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-L	10/16/2014		dry											
MW-L	3/17/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-L	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
MW-L	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
MW-L	10/5/2016		insufficient water											
MW-L	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-L	9/12/2017		dry											
MW-L	3/14/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-L	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Lovington Paddock Remediation Site
South ½ of the southeast ¼ of Section 1, Township 17 South, Range 36 East
Lea County, New Mexico

Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-M	6/15/2005	<0.005	<0.005	<0.005	<0.005			<0.096						
MW-M	5/15/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028							
MW-M	10/1/2007	<0.002	<0.002	<0.002	<0.006									
MW-M	6/30/2008	0.042	0.004	0.0011	0.0032	0.11	0.034**							
MW-M	9/16/2008	0.0023	0.0013	0.0006 J	0.0014 J	0.022	0.13							
MW-M	2/4/2009	0.013	0.0031 J	0.001 J	0.0025 J	0.053	0.036 J							
MW-M	7/15/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.071 J							
MW-M	1/25/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.25							
MW-M	7/6/2010	0.0003 J	0.0003 J	<0.0002	<0.0006	<0.02	0.1							
MW-M	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.050	<0.050							
MW-M	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
MW-M	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-M	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-M	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.44	<1.44	<1.44						
MW-M	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-M	10/16/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
MW-M	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-M	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-M	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
MW-M	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
MW-M	10/5/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-M	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-M	9/12/2017		insufficient water											
MW-M	3/14/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-M	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-N	6/15/2005	<0.001	<0.001	<0.001	<0.001									
MW-N	7/26/2005	0.0059	<0.005	<0.005	<0.005									
MW-N	9/21/2005	0.0076	<0.001	<0.001	<0.001									
MW-N	12/6/2005	<0.001	<0.001	<0.001	<0.001			<0.095						
MW-N	5/17/2007	0.0013	0.0007	0.0002	<0.006	0.032	0.067							
MW-N	10/2/2007	<0.002	<0.002	<0.002	<0.006									
MW-N	6/30/2008	0.011	0.0031	0.0008	0.0009	0.056	0.05							
MW-N	9/17/2008	0.0014	0.0011	0.0007 J	0.0016 J	<0.02	0.073							
MW-N	2/5/2009	0.0051	0.0025	0.0006 J	0.0014 J	0.031 J	0.034 J							
MW-N	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.079	0.32							
MW-N	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.041 J							
MW-N	7/8/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.062 J							
MW-N	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.050						
MW-N	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
MW-N	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
MW-N	10/15/2012		dry											
MW-N	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00351	<1.50	<1.50	<1.50						
MW-N	7/23/2013		dry											
MW-N	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-N	10/16/2014		dry											
MW-N	3/19/2015	0.00295	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-N	10/13/2015	<0.0010	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-N	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-N	10/5/2016		dry											
MW-N	3/14/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-N	9/12/2017		dry											
MW-N	3/14/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-N	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						

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South ½ of the southeast ¼ of Section 1, Township 17 South, Range 36 East
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Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-O	7/25/2005	0.0035	<0.001	<0.001	<0.001									
MW-O	9/21/2005	0.0102	<0.001	<0.001	<0.001			<0.093						
MW-O	12/8/2005	0.0045	<0.001	<0.001	<0.001									
MW-O	5/14/2007	0.0072	<0.002	<0.002	<0.006	0.043	0.13							
MW-O	10/2/2007	0.0012	0.001	<0.002	<0.006									
MW-O	6/30/2008	0.04	0.01	0.0065	0.011	0.15	0.280**							
MW-O	9/16/2008	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.031							
MW-O	2/2/2009	<0.0002	0.0012	0.0005 J	0.0011 J	<0.02	0.063 J							
MW-O	7/13/2009	<0.0002	<0.0002	0.0003 J	<0.0006	0.1	0.36							
MW-O	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.031							
MW-O	7/8/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.053 J							
MW-O	1/27/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.0500						
MW-O	7/13/2011		dry											
MW-O	10/15/2012		dry											
MW-O	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-O	7/23/2013		dry											
MW-O	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-O	10/16/2014		dry											
MW-O	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-O	10/12/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-O	3/17/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-O	3/17/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
	plugged													
MW-O-R	10/4/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-O-R	3/14/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-O-R	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-O-R	3/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-O-R	1/15/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.10	49.20	250.00	1.13		
MW-O-R	11/22/2019	<0.00100	<0.00100	<0.00100	<0.00200	<0.10	<0.50	<0.50						
MW-P	6/15/2005	1.92	<0.05	<0.05	<0.05									
MW-P	7/25/2005	0.179	<0.001	<0.001	<0.001			<0.094						
MW-P	9/19/2005	<0.001	<0.001	<0.001	<0.001									
MW-P	12/8/2005	<0.001	<0.001	<0.001	<0.001									
MW-P	5/14/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.028							
MW-P	9/27/2007	<0.002	<0.002	<0.002	<0.006									
MW-P	6/17/2008	<0.002	0.003	<0.002	<0.006	<0.037	<0.062							
MW-P	9/16/2008	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.031							
MW-P	2/2/2009	<0.0002	0.0033	0.0005 J	0.0011 J	<0.02	0.049 J							
MW-P	7/13/2009	0.0011	<0.0002	0.0003 J	<0.0006	0.31	4.7							
MW-P	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.031							
MW-P	7/12/2010	<0.0002	0.0004 J	<0.0002	<0.0006	0.024 J	0.074 J							
MW-P	1/27/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.050						
MW-P	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
MW-P	10/15/2012		dry											
MW-P	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-P	7/23/2013		dry											
MW-P	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-P	10/16/2014		dry											
MW-P	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-P	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
MW-P	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-P	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-P	10/5/2016		dry											
MW-P	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-P	9/12/2017		dry											
MW-P	3/13/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-P	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-P	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						

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South ½ of the southeast ¼ of Section 1, Township 17 South, Range 36 East
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Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-Q	7/25/2005	<0.001	<0.001	<0.001	<0.001			<0.094						
MW-Q	9/21/2005	<0.001	<0.001	<0.001	<0.001									
MW-Q	12/6/2005	<0.001	<0.001	<0.001	<0.001									
MW-Q	5/14/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028							
MW-Q	9/27/2007	<0.002	<0.002	<0.002	<0.006									
MW-Q	6/17/2008	0.005	0.006	0.003	0.006	<0.043	<0.062							
MW-Q	9/16/2008	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.031							
MW-Q	2/2/2009	<0.0002	0.0021	0.0003 J	0.0007 J	<0.02	0.048 J							
MW-Q	7/14/2009	<0.0002	<0.0002	0.0003 J	<0.0006	0.16	0.68							
MW-Q	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.031 J							
MW-Q	7/12/2010	<0.0002	0.0004 J	<0.0002	<0.0006	0.046 J	0.420 J							
MW-Q	1/27/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.050						
MW-Q	7/13/2011				dry									
MW-Q	10/15/2012				dry									
MW-Q	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-Q	7/23/2013				dry									
MW-Q	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-Q	10/16/2014				dry									
MW-Q	3/19/2015	<0.0010	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-Q	3/19/2015	<0.0010	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-Q	10/15/2015	<0.0010	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-Q	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
MW-Q	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
MW-Q	10/5/2016													
MW-Q	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-Q	9/12/2017				insufficient water									
MW-Q	3/13/2018				dry									
MW-Q	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-R	8/12/2005	<0.001	<0.001	<0.001	<0.001									
MW-R	9/19/2005	<0.001	<0.001	<0.001	<0.001									
MW-R	12/8/2005	<0.001	<0.001	<0.001	<0.001									
MW-R	5/14/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.028							
MW-R	9/27/2007	<0.002	<0.002	<0.002	<0.006									
MW-R	6/17/2008	<0.002	<0.002	<0.002	<0.006	<0.061	<0.110							
MW-R	9/15/2008	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	<0.039							
MW-R	2/2/2009	0.0002 J	0.0005 J	0.0008 J	0.0016 J	0.028 J	0.074 J							
MW-R	7/14/2009	<0.0002	<0.0002	0.0002 J	<0.0006	0.049 J	0.13							
MW-R	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.041 J							
MW-R	7/8/2010	<0.0002	0.0004 J	<0.0002	<0.0006	<0.02	0.076 J							
MW-R	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.050	<0.050	<0.050						
MW-R	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
MW-R	10/17/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-R	1/23/2013	<0.00100	<0.00200	<0.00100	0.00267	<1.50	<1.50	<1.50						
MW-R	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-R	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-R	10/16/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
MW-R	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-R	10/14/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
MW-R	3/17/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-R	10/4/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-R	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-R	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-R	3/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-R	9/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-R	9/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-R	1/15/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.10	55.20	202.00	2.26		
MW-R	11/21/2019	<0.00100	<0.00100	<0.00100	<0.00200	<0.10	<0.48	<0.48						

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Lovington Paddock Remediation Site
South ½ of the southeast ¼ of Section 1, Township 17 South, Range 36 East
Lea County, New Mexico

Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-S	7/27/2006	<0.0005	<0.0007	<0.0008	<0.0008	0.028	0.053							
MW-S	5/14/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.39							
MW-S	10/1/2007	<0.002	<0.002	<0.002	<0.006									
MW-S	6/30/2008	0.039	0.0032	0.0005	0.0021	0.11	<0.043							
MW-S	9/16/2008	0.004	0.0018	0.0008 J	0.0019 J	0.029 J	0.35							
MW-S	2/4/2009	0.022	0.0048	0.0011	0.0031	0.072	0.044 J							
MW-S	7/15/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.050 J							
MW-S	1/25/2010	<0.0002	<0.0002	<0.0002	<0.0006	0.023 J	0.18 J							
MW-S	7/6/2010	0.0003 J	0.0002 J	<0.0002	<0.0006	<0.02	0.074 J							
MW-S	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
MW-S	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5							
MW-S	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50							
MW-S	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50							
MW-S	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.42	<1.42							
MW-S	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34							
MW-S	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-S	10/16/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
MW-S	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-S	10/15/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-S	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-S	10/5/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-S	10/5/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-S	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-S	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-S	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-S	3/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-S	9/11/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-S	1/15/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.10	79.60	171.00	2.57		
MW-S	11/22/2019	<0.00100	<0.00100	<0.00100	<0.00200	<0.10	<0.50	<0.50						
MW-T	7/27/2006	0.36	0.12	0.037	0.15	1.3	0.86							
MW-T	9/18/2008	0.0049	0.0028	0.0008 J	0.002 J	0.027 J	0.11							
MW-T	2/11/2009	0.0004 J	0.0003 J	<0.0002	<0.0006	<0.02	0.033 J							
MW-T	7/16/2009	0.0071	<0.0002	0.0013	0.0008 J	0.044 J	0.13							
MW-T	7/13/2010	0.84	0.18	0.026	0.055	2.4	0.070 J							
MW-T	1/27/2011	12	1.5	0.2	0.61	22.6	0.41							
MW-T	7/13/2011	4.49	0.448	0.0208	0.0576	8.17	<1.5	<0.093						
MW-T	10/17/2012	12.8	<0.200	0.260	0.418	15.5	<1.50	15.5						
MW-T	1/23/2013	10.5	<0.100	0.104	0.195	12.2	<1.50	12.2						
MW-T	7/24/2013	13.1	0.168	0.284	0.519	21.3	<1.43	21.3						
MW-T	3/5/2014	3.95	0.0311	0.09950	0.17700	12.3	<1.34	12.3						
MW-T	10/17/2014	12.3	<0.100	0.17000	0.35100	15.3	<1.48	15.3						
MW-T	3/26/2015	13.4	<0.100	0.234	0.480	16.4	<1.50	16.4						
MW-T	10/15/2015	14.9	0.1570	0.34000	0.6590	15.4	<1.41	15.4						
MW-T	3/17/2016	11.5	0.0970	0.189	0.316	15.4	<1.41	15.4						
MW-T	10/5/2016	9.54	0.0170	0.181	0.329	12.1	<1.50	12.1						
MW-T	3/14/2017	11.7	<0.200	0.613	0.670	1.98	<1.50	1.98						
MW-T	9/12/2017	2.23	0.2980	<0.0456	0.735	2.18	<1.50	<1.50						
MW-T	3/15/2018	9.42	<0.400	<0.400	<0.400	18.80	<1.50	18.80						
MW-T	9/11/2018	12.2 D	0.0670	0.242	0.330	15.30	<1.50	15.30						
MW-T	1/16/2019	11.4 D	0.1690	0.129	0.217	5.92	<1.50	5.92	<1.10	4.65	375.00	<0.100		
MW-T	11/22/2019	7.60	0.0770	0.130	0.018	11.00	<0.50	11.00						

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Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-U	4/24/2007	<0.005	0.009	<0.008	<0.008	0.027	0.180*							
MW-U	5/16/2007	<0.0002	<0.0002	<0.0002	<0.0006	0.027	0.18							
MW-U	9/27/2007	<0.002	<0.002	<0.002	<0.006									
MW-U	6/30/2008	0.004	0.0018	0.0009	0.0019	0.028	0.057**							
MW-U	9/17/2008	<0.0002	0.0003 J	0.0002 J	<0.0006	0.025 J	<0.032							
MW-U	2/3/2009	<0.0002	0.0021	0.0006 J	0.0013 J	<0.02	0.060 J							
MW-U	7/14/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.034 J	0.1							
MW-U	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.049 J							
MW-U	7/7/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.070 J							
MW-U	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.0500						
MW-U	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
MW-U	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-U	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-U	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.42	<1.42	<1.42						
MW-U	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-U	10/16/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
MW-U	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-U	10/14/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
MW-U	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-U	10/6/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-U	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-U	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-U	9/12/2017		dry											
MW-U	3/15/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-U	1/17/2019	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
MW-V	4/24/2007	<0.005	<0.007	<0.008	<0.008	0.028*	0.310*							
MW-V	5/16/2008	<0.001	<0.0002	<0.0002	<0.0006	0.028	0.31							
MW-V	9/27/2007	<0.002	<0.002	<0.002	<0.006									
MW-V	6/30/2008	0.011	0.0027	0.0012	0.0025	0.044	0.093**							
MW-V	9/16/2008	0.0045	<0.0002	<0.0002	<0.0006	0.023 J	0.064 J							
MW-V	2/2/2009	<0.0002	0.0078	0.0003 J	0.0007 J	0.023 J	0.066 J							
MW-V	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.027 J	0.14							
MW-V	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.062 J							
MW-V	7/7/2010	<0.0002	0.0002 J	<0.0002	<0.0006	<0.02	0.070 J							
MW-V	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.094						
MW-V	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
MW-V	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-V	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-V	7/24/2013	0.0105	<0.00200	<0.00100	<0.00100	<1.45	<1.45	<1.45						
MW-V	3/5/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-V	3/5/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-V	10/17/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
MW-V	3/16/2015		not sampled											
MW-V	10/14/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-V	3/16/2016	0.314	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-V	10/6/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-V	3/15/2017	0.0339	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-V	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-V	3/15/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-V	9/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-V	1/15/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.10	38.00	262.00	1.48		
MW-V	11/22/2019	<0.00100	<0.00100	<0.00100	<0.00200	<0.10	<0.49	<0.49						

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Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Nitrate	Chloride	TDS
NMWQCC Other Standards for Domestic Water Supply ²														
		0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L	--	--	--	--	250 mg/L	1,000 mg/L
MW-W	4/24/2007	<0.005	<0.007	<0.008	<0.008	0.037*	0.450*							
MW-W	5/16/2007	<0.001	<0.0002	<0.0002	<0.0006	0.037	0.45							
MW-W	9/27/2007	<0.002	<0.002	<0.002	<0.006									
MW-W	6/30/2008	0.031	0.0035	0.0015	0.0032	0.092	0.130**							
MW-W	9/16/2008	0.0025	<0.0002	<0.0002	<0.0002	0.021 J	0.068 J							
MW-W	2/2/2009	<0.0002	0.0029	0.0004 J	0.0009 J	<0.02	0.078 J							
MW-W	7/13/2009	<0.0002	<0.0002	0.0003 J	<0.0006	0.093	0.33							
MW-W	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.039 J							
MW-W	7/7/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.087 J	<0.096						
MW-W	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.050						
MW-W	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
MW-W	10/17/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-W	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-W	7/24/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.46	<1.46	<1.46						
MW-W	3/5/2014	0.00141	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
MW-W	10/17/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
MW-W	3/20/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
MW-W	10/14/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
MW-W	3/16/2016	0.0648	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
MW-W	10/4/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-W	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-W	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-W	3/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-W	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
MW-W	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						

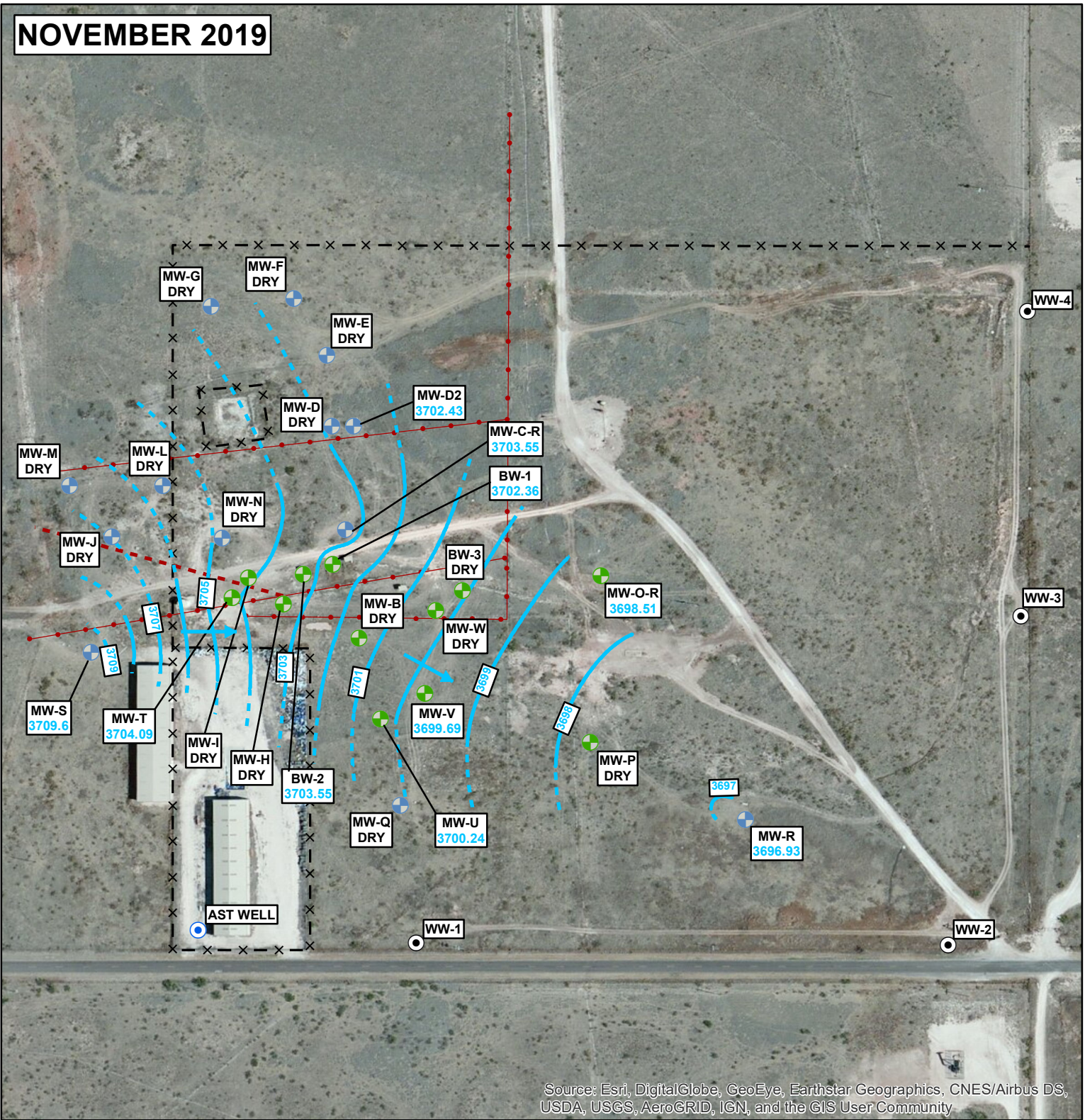
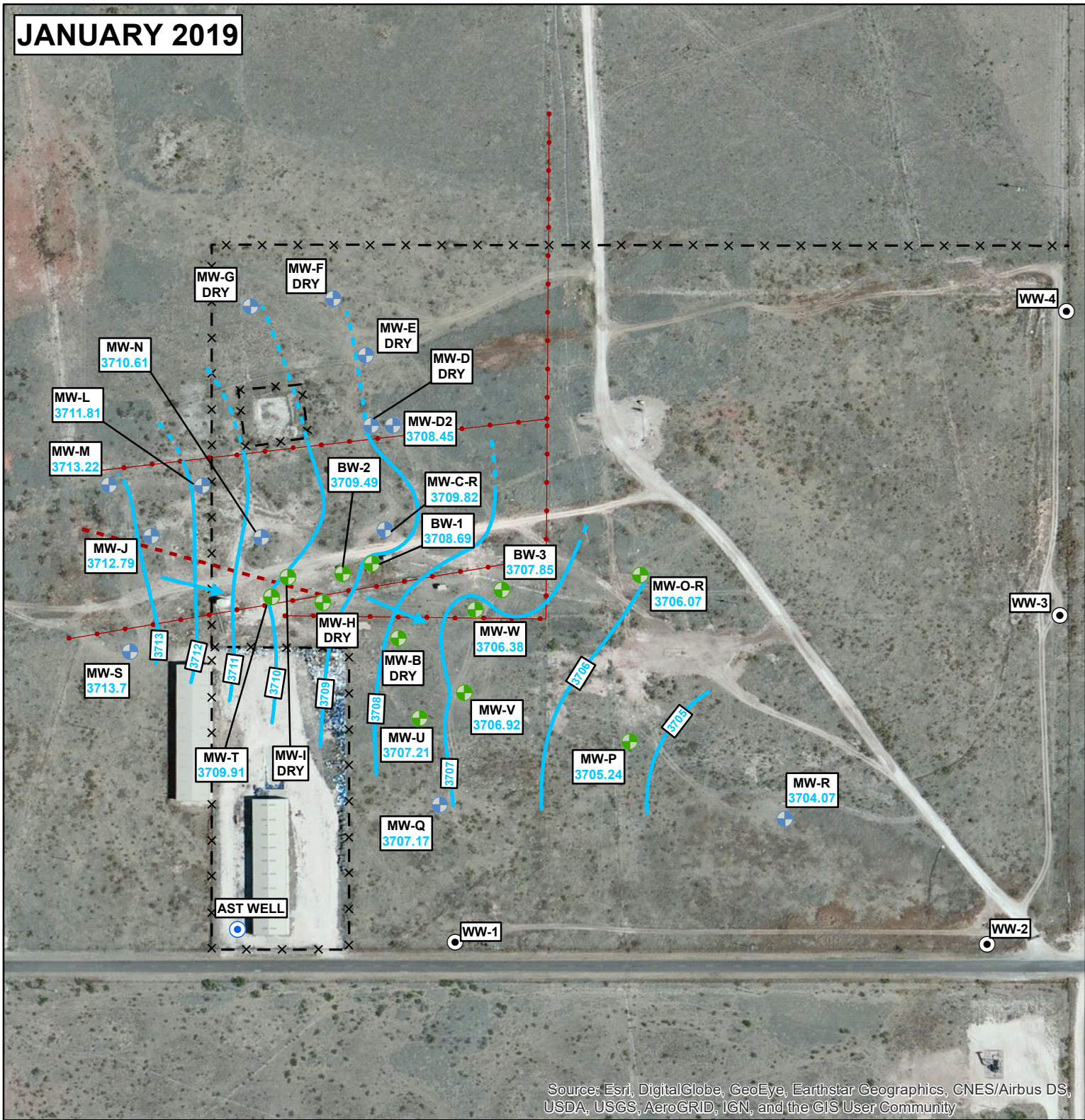
Notes:

- 1) RCRA Metals Analysis by Environment Protections Agency (EPA) Methods 6010B and 7470A.
- 2) Groundwater Quality by EPA Methods 160.1, 300.0, and 310.1.
- 3) Highlighted values indicate concentrations above NMWQCC Other Standards for Domestic Water Supply.
- 4) ¹ NMWQCC Human Health Standards Per NMAC 20.6.2.3103A.
- 5) ² NMWQCC Other Standards for Domestic Water Supply Per NMAC 20.6.2.3103B.
- 6) NA= Not analyzed
- 7) DUP = Duplicate sample
- 8) D = Dilution factors are included in the final results. The result is from a diluted sample.
- 9) * = Likely an order of magnitude higher than actual result; however reported value was verified by the laboratory

FIGURES

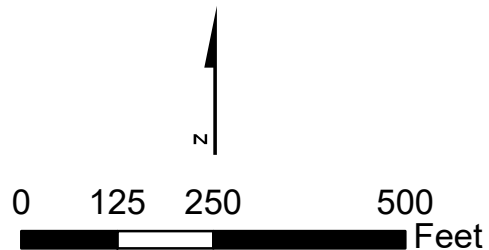


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Legend

- Monitoring Well Location
- Monitoring Well Location Sampled During Reduced Event
- Goff Dairy Well Location
- Water Supply Well (AST Well)
- Plugged & Abandoned Well Location
- Potentiometric Contour and Elevation
- Inferred Potentiometric Contour
- Groundwater Elevation (ft above mean sea level)
- Approximate Groundwater Flow Direction
- Pipeline
- Abandoned Pipeline
- Fence Line



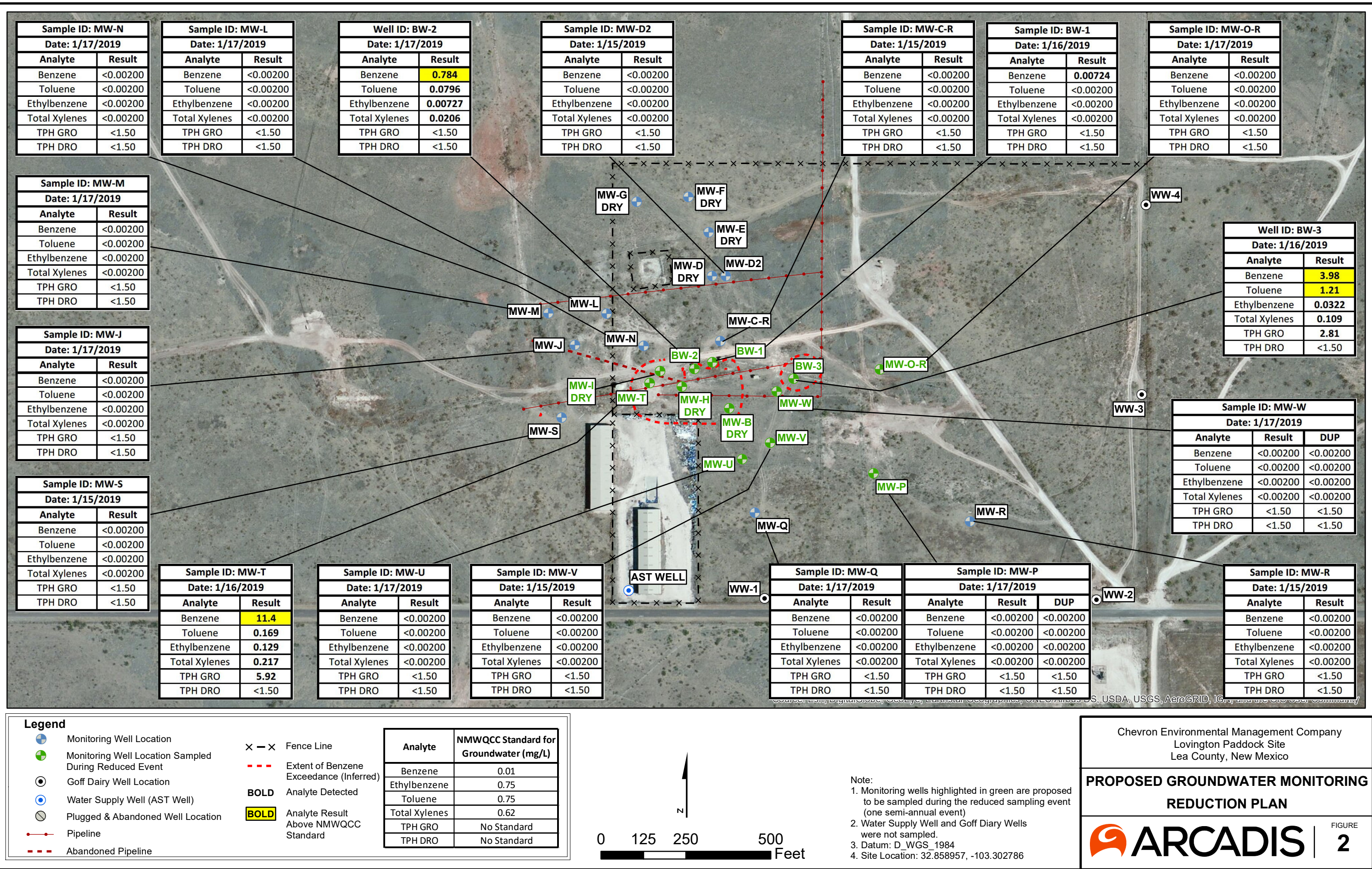
- Note:
- Monitoring wells highlighted in green are proposed to be sampled during the reduced sampling event (one semi-annual event)
 - Waterford Supply and Recovery Wells were not sampled.
 - Datum: D_WGS_1984
 - Groundwater gradient = 0.02 ft/ft
 - Site Location: 32.858957, -103.302786

Chevron Environmental Management Company
Lovington Paddock Site
Lea County, New Mexico

SEMI-ANNUAL POTENTIOMETRIC SURFACE MAP 2019

ARCADIS | FIGURE 1

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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 9406

CONDITIONS

Operator: Arcadis U.S., Inc 630 Plaza Drive Highlands Ranch, CO 80129	OGRID: 329073
	Action Number: 9406
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The proposed monitoring well schedule and reduction of sampling is approved for the following wells: MW-CR, MW-D, MW-D2, MW-E, MW-F, MW-G, MW-J, MW-L, MW-M, MW-N, MW-Q, MW-R, MW-S, and MW-W. MW-R will be sampled if MW-P is dry or contains insufficient water to sample during the reduced sampling event. This plan is approved for the Chevron Lovington Paddock Remediation Site.	2/21/2025