

APPROVED

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

Subject:

Proposed Groundwater Monitoring Reduction Workplan

Chevron Environmental Management Company

G.L. Erwin "A & B" NCT 2 Tank Battery (1R-254)

Lea County, New Mexico

Dear Mr. Billings:

At the request of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) is providing this Workplan to request a reduction of groundwater monitoring frequency on select monitoring wells for the G.L. Erwin "A & B" NCT Tank Battery site (Site).

The G.L. Erwin "A & B" NCT Tank Battery Site is located on Lea County Road J4, approximately three (3) miles northeast of Jarvis, New Mexico, in the southwest quarter (SW/4) of the southeast quarter (SE 1/4) Section 35, Township 24 South, Range 37 East, Lea County, New Mexico. The Site's coordinates are latitude 32° 10' 11.9" N and longitude 103° 07' 46.9" W.

Groundwater monitoring began at the Site in 1997. The Site is currently monitored semi-annually from a network of 34 monitoring wells, one water well, and one recovery well. No monitoring wells currently contain light non-aqueous phase liquid (LNAPL). The constituents of concern (COCs) in groundwater include chloride, total dissolved solids (TDS), and sulfate.

For additional Site-specific background information please refer to the Arcadis, 2019 Annual Groundwater Monitoring Report, dated April 10, 2020.

PROPOSED REDUCED SAMPLING PLAN

The following Workplan outlines the specifics of the proposed reduced sampling plan for select monitoring wells, recovery wells and water wells and the methodology for the selection of those wells. One semi-annual monitoring event will include sampling all Site wells as currently conducted except for fluoride and sulfate analysis. The second semi-annual sampling event will be reduced to only sampling select wells based on the following proposed sampling methodology. The

Proposed Monitoring Workplan is approved with conditions; Letter of Determination issued and attached at the end of this document.

1. The following wells may be removed from the second semi-annual sampling event:

MW-3, MW-5, MW-7, MW-8, MW-9, MW-11, MW-16, MW-18, MW-20, MW-26, MW-27, MW-31, RW-1

and the West and Southwest monitoring wells.

2. The COCs must be

established by

confirmed background monitoring wells before any COCs can be considered for removal from requested list.

ENVIRONMENT

Date:

July 2, 2020

Contact:

Russell Grant

Phone:

432.217.2064

Email:

russell.grant@arcadis.com

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groundwater sampling frequency will be assessed yearly based on the results of the sampling events for the lifespan of the project. It is understood that a minimum of 8 consecutive complete Site wide sampling events will be required prior to closure request for the Site.

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

Sampling Reduction for Non-impacted Monitoring Wells

Site wells with COC concentrations reported below New Mexico Water Quality Control Commission (NMWQCC) exceedance standards or wells with COC concentration reported above the NMWQCC exceedance standards showing stable to decreasing trends for two consecutive years or longer will not be sampled during one semi-annual monitoring event per year.

The Site wells selected for removal from the second semi-annual sampling event include: MW-3, MW-5, MW-7, MW-8, MW-9, MW-11, MW-16, MW-18, MW-20, MW-26, MW-27, MW-31, RW-1 and the West and Southwest monitoring wells.

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

The Site/recovery wells that will be sampled during each semi-annual event are presented on attached **Table 1** (Sampling Analysis Plan).

The Site monitoring/recovery wells that will be sampled during the reduced sampling event are presented on **Figure 1** (Potentiometric Surface Map), and **Figure 2** (Reduced Sampling Plan - Chloride), **Figure 3** (Reduced Sampling Plan – TDS), and **Figure 4** (Reduced Sampling Plan – Sulfate).

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

Request to Reduce Sampling COCs

Sulfate has been analyzed at this Site since February of 1998. Since that time, there has been no correlation between sulfate and the release area. Only MW-14 has shown consistent detections of sulfate that exceed regulatory limits of 600 milligrams per liter (mg/L). Upgradient monitor wells (MW-13, MW-17, and MW-30) have historically detected sulfate in concentrations below the NMWQCC Standard of 600 mg/L as shown on **Table 2**. Arcadis is requesting approval for removing sulfate from the sampling program for both semi-annual events.

Fluoride has been analyzed at this Site since groundwater monitoring began in 1997. Since that time, there has been no correlation between the release area

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and the detection of fluoride at this Site, as shown on **Table 2**. Fluoride is assigned a NMWQCC standard of 1.6 mg/L however, only 5 wells (MW-6, MW-7, MW-8, MW-17, and MW-21) have consistently shown fluoride exceedances. These exceedances are likely attributable to natural groundwater chemistry as observed in the lack of correlation between reported chloride, TDS and sulfate concentrations compared to fluoride concentrations. Data suggests that it is unlikely that the G.L. Erwin "A & B" NCT 2 Tank Battery contributed to elevated fluoride contamination at the Site due to the proximity of the 5 monitoring wells from the release area and monitoring wells located between these 5 monitoring wells and the G.L. Erwin "A & B" NCT 2 Tank Battery with fluoride concentrations reported below the NMWQCC standard of 1.6 mg/L, as shown on **Table 2**. Arcadis will submit a request to the New Mexico Oil Conservation Division (OCD) to remove sulfate from the sampling program.

Contact

Arcadis is prepared to initiate the scope of work immediately. If you have any questions or comments, please contact either Russell Grant by phone at 432 217 2064 or by e-mail at russell.grant@arcadis.com or Greg Cutshall by phone at 859 327 4626 or by email at greg.cutshall@arcadis.com.

Sincerely,

Arcadis U.S., Inc.



Russell Grant

Project Manager

Copies:

Robert Speer, CEMC Project Manager

Mr. Bradford Billings

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Enclosures:

Tables

Table 1 – Sampling and Analysis Plan

Table 2 – Summary of Historical Groundwater Analytical Results

Figures

Figure 1 – 2020 Reduced Sampling Plan Potentiometric Surface Map

Figure 2 – 2020 Reduced Sampling Plan – Chloride Isoconcentration Map

Figure 3 – 2020 Reduced Sampling Plan – TDS Isoconcentration Map

Figure 4 – 2020 Reduced Sampling Plan – Sulfate Isoconcentration Map

TABLES

Table 1 - Groundwater Sampling and Analysis Plan
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, NM



	First Semi-Annual Monitoring Event							Second Semi-Annual Monitoring Event							
Monitoring Well ID	Gauge Depth to Groundwater and Total Depth	Collect Conductivity Level every two (2) feet	Total Dissolved Solids by State Method 2540C	Inorganic Anions by USEPA Method 300			Gauge Depth to Groundwater and Total Depth	Collect Conductivity Level every two (2) feet	Total Dissolved Solids by State Method 2540C	Inorganic Anions by USEPA Method 300			Rationale for Reduction		
				Chloride	Fluoride	Sulfate				Chloride	Fluoride	Sulfate			
MW-1	X	X	X	X	--	--	X	--	X	X	--	--			
MW-2	X	X	X	X	--	--	X	--	X	X	--	--			
MW-3	X	X	X	X	--	--	X	--	--	--	--	--	Stable Trend		
MW-4	X	X	X	X	--	--	X	--	X	X	--	--			
MW-5	X	X	X	X	--	--	X	--	--	--	--	--	Decreasing Trend		
MW-6	X	X	X	X	--	--	X	--	X	X	--	--			
MW-7	X	X	X	X	--	--	X	--	--	--	--	--	Stable Trend		
MW-8	X	X	X	X	--	--	X	--	--	--	--	--	Stable Trend		
MW-9	X	X	X	X	--	--	X	--	--	--	--	--	Decreasing Trend		
MW-10	X	X	X	X	--	--	X	--	X	X	--	--			
MW-11	X	X	X	X	--	--	X	--	--	--	--	--	Insufficient Water Column		
MW-12	X	X	X	X	--	--	X	--	X	X	--	--			
MW-13	X	X	X	X	--	--	X	--	X	X	--	--			
MW-14	X	X	X	X	--	--	X	--	X	X	--	--			
MW-15	X	X	X	X	--	--	X	--	X	X	--	--			
MW-16	X	X	X	X	--	--	X	--	--	--	--	--	Stable Trend		
MW-17	X	X	X	X	--	--	X	--	X	X	--	--			
MW-18	X	X	X	X	--	--	X	--	--	--	--	--	Insufficient Water Column		
MW-19	X	X	X	X	--	--	X	--	X	X	--	--			
MW-20	X	X	X	X	--	--	X	--	--	--	--	--	Stable Trend		
MW-21	X	X	X	X	--	--	X	--	X	X	--	--			
MW-22	X	X	X	X	--	--	X	--	X	X	--	--			
MW-23	X	X	X	X	--	--	X	--	X	X	--	--			
MW-24	X	X	X	X	--	--	X	--	X	X	--	--			
MW-25	X	X	X	X	--	--	X	--	X	X	--	--			
MW-26	X	X	X	X	--	--	X	--	--	--	--	--	Stable Trend		
MW-27	X	X	X	X	--	--	X	--	--	--	--	--	Insufficient Water Column		
MW-28	X	X	X	X	--	--	X	--	X	X	--	--			
MW-29	X	X	X	X	--	--	X	--	X	X	--	--			
MW-30	X	X	X	X	--	--	X	--	X	X	--	--			
MW-31	X	X	X	X	--	--	X	--	--	--	--	--	Stable Trend		
MW-32	X	X	X	X	--	--	X	--	X	X	--	--			
WW-1	X	X	X	X	--	--	X	--	X	X	--	--			
West MW	X	X	X	X	--	--	X	--	--	--	--	--	Stable Trend		
Southwest MW	X	X	X	X	--	--	X	--	--	--	--	--	Decreasing Trend		
RW-1	X	--	--	--	--	--	X	--	--	--	--	--	Pump In Well		

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 semi-annual event

Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)	
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA	
MW-1	2/17/1998	<2.0	220	233	---	---	92	---	---	---	---	812	276	---	
	2/7/2001	<1.0	136	440	2.10	2.80	70	15.7	55.8	11.4	115	1,200	---	---	
	5/3/2002	<1.0	144	428	1.60	3.06	72.5	103	38.7	8.68	105	--	---	<1.00	
	10/11/2002	<0.1	155	230	---	---	109	69.3	24.8	7.45	125	737	---	<0.10	
	12/27/2002	<0.1	149	248	---	---	109	76.6	27.4	5.16	129	728	---	<0.10	
	2/18/2003	<0.1	147	213	---	---	114	59.1	21.4	5.06	116	713	---	<0.10	
	6/2/2003	<1.0	132	434	1.77	2.99	73.3	135	47.8	8.62	118	1,320	---	<1.00	
	8/25/2003	<1.0	144	279	1.76	3.39	73.3	92.7	31.3	7.17	118	856	---	<1.00	
	11/5/2003	<1.0	162	330	1.94	3.42	78.9	110	37.7	9.03	114	994	---	<1.00	
	2/4/2004	<1.0	142	390	1.92	3.25	71.1	117	43.2	10.2	113	940	---	<1.00	
	5/6/2004	<1.00	260	403	1.90	4.80	135	60.2	18.3	8.93	302	1,316	---	<1.00	
	8/3/2004	<0.1	155	222	---	---	83.2	64.1	30.8	6.41	127	431	---	<0.10	
	Dup	8/3/2004	<0.1	158	301	---	---	104	101	45.5	672	436	605	---	<0.10
	2/11/2005	<1.00	146	289	2.68	4.30	79.2	97.9	33.5	8.18	108	840	---	<1.00	
	8/5/2005	<1.00	156	245	2.08	4.34	89.6	75.5	26.7	6.99	125	856	---	<1.00	
	Dup	2/22/2006	<10.0	160	180	1.60	3.50	83	55.9	18.7	5.19	104	707	---	<10.0
	2/22/2006	<10.0	170	160	1.60	3.50	85	57.9	20	5.23	102	840	---	<10.0	
	8/24/2006	<10.0	300	180	<2.5	3.11	81	57.4	19.3	4.36	107	660	---	<10.0	
	2/28/2007	<10	170	170	1.80	3.60	81	54.6	18.2	<5.0	103	650	---	<10	
	8/23/2007	<10	138	420	1.40	2.80	76.0	102	34.8	5.37	101	1,810	--	138	
	2/20/2008	<5.0	166	300	1.90	2.92	82.1	111	39.7	7.34	104	860	---	<5.0	
	8/12/2008	<1.53	212.0	217	1.48	3.06	79.6	57.8	19.5	5.2	114.0	692	---	<1.53	
	2/19/2009	<5.0	160.0	150	2.00	3.00	84.0	55.0	19.0	5.3	120.0	610	---	<5.0	
	7/29/2009	<5.0	79.0	150	0.95	1.40	41.0	67.0	24.0	5.9	110.0	500	---	<5.0	
	2/25/2010	<5	172.0	167	1.79	3.23	83.1	57.5	21.2	4.3	105.0	684	---	<5.0	
	Dup	2/25/2010	<5	192.0	157	1.68	<0.100	83.9	52.6	17.6	4.3	103.0	544	---	<5.1
	7/28/2010	<5	168.0	147	1.88	2.56	84.8	51.1	17.1	3.8	91.6	564	---	<5.0	
	Dup	2/16/2011	<2.0	165.0	149	1.74	3.12	82.0	57.5	18.7	4.0	94.4	510	---	<2.0
	2/16/2011	<2.0	145.0	155	1.74	3.25	81.9	55.3	17.9	4.0	91.9	604	---	<2.0	
	8/18/2011	<5.0	167.0	127	1.76	3.34	83.3	50.7	17.2	2.8	91.4	490	---	<5.0	
	2/22/2012	<5.00	153.0	385	1.61	2.70	67.7	96.3	33.5	5.1	96.5	1,280	---	<5.0	
	8/29/2012	<10.0	149.0	456	1.60	1.48	67.4	130.0	44.3	5.6	90.5	1,340	---	<10.0	
	Dup	2/21/2013	<6.00	141.0	452	1.17	2.24	69.9	139.0	45.6	6.4	104.0	1,300	---	<6.00
	2/21/2013	<6.00	141.0	454	1.18	2.26	70.8	141.0	44.4	6.3	101.0	1,170	---	<6.00	
	8/14/2013	<6.00	140.0	490	1.47	2.33	67.0	158.0	53.2	7.1	112.0	1,590	---	<6.00	
	4/3/2014	<10.0	182.0	498	1.30	1.73	66.5	139.0	48.2	6.3	103.0	1,160	---	<10.0	
	10/9/2014	<4.00	168.0	213 J	1.10	2.89 J	80.3	85.7 J	29.2 J	5.2	105.0	554	---	<4.00	
	10/9/2014	<4.00	146.0	427 J	0.92	2.23 J	73.4	148 J	50.1 J	6.7	107.0	559	---	<4.00	
	6/25/2015	---	---	420	<2.00	---	72.2	---	---	---	---	1,230	---	---	
	10/6/2015	---	---	209	<4.00	---	81.3	---	---	---	---	623 J	---	---	
	6/22/2016	---	---	403	1.27	---	63.80	---	---	---	---	1240	---	---	
	10/06/2016	---	---	449	1.35	---	78.50	---	---	---	---	1240	---	---	
	05/23/2017	---	---	366	1.16	---	65.20	---	---	---	---	1140	---	---	
	10/12/2017	---	---	378	1.22	---	67.30	---	---	---	---	902	---	---	
	5/9/2018	---	---	374	1.29	---	67.90	---	---	---	---	906	---	---	
	10/9/2018	---	---	419	1.41	---	74.20	---	---	---	---	870	---	---	
	6/19/2019	---	---	412	---	---	---	---	---	---	---	1,340	---	---	
	11/25/2019			470	1.42		89.50					1,200			
MW-2	2/17/1998	<2.0	360	423	---	---	141	---	---	---	---	1,257	124	---	
	2/7/2001	<1.0	234	570	2.70	5.00	130	124	40.7	10.9	359	1,500	---	---	
	5/3/2002	<1.0	262	349	2.28	5.36	148	21	6.18	8.52	315	---	---	<1.00	
	10/11/2002	10	250	337	---	---	176	18.1	4.92	7.49	329	1,120	---	<0.10	
	12/27/2002	12	238	319	---	---	142	17.8	5.16	6.1	339	1,110	---	<0.10	
	2/18/2003	<0.1	228	310	---	---	178	19.4	6.02	6.3	331	1,070	---	<0.10	
	6/2/2003	<1.0	206	769	2.05	4.43	115	176	52.6	9.94	383	1,955	---	<1.00	
	8/25/2003	<1.0	242	374	2.07	5.14	142	36.1	10.8	8.49	333	1,240	---	<1.00	
	11/5/2003	<1.0	232	498	2.21	5.13	145	68.7	21.1	10.1	327	1,354	---	<1.00	
	2/4/2004	<1.0	230	450	2.06	4.97	131	76.1	25.2	10.7	324	1,424	---	<1.00	
	5/6/2004	<1.00	150	341	1.79	3.23	75.3	108	38.5	8.38	102	984	---	<1.00	
	8/3/2004	<0.1	236	496	---	---	144	50.8	34.7	11	472	811	---	<0.10	
	2/11/2005	<1.00	220	604	2.79	5.48	130	103	34.5	11.3	324	1,462	---	<1.00	
	8/5/2005	<1.00	228	404	2.24	5.70	154	34.5	10.3	10.7	341	1,120	---	<1.00	
	2/22/2006	<10.0	250	320	1.70	5.10	150	19.5	5.84	6.15	259	1,150	---	<10.0	
	8/24/2006	<10.0	250	290	<2.5	3.78	140	26.3	7.7	4.23	298	1,610	---	<10.0	
	2/28/2007	<10	260	280	2.10	5.40	140	20.9	6.01	6.74	278	950	---	<10	
	8/23/2007	<10	226	290	1.70	5.30	140	19	5.6	<5	303	1,280	---	226	
	2/20/2008	<5	223	441	1.94	5.11	143	242	83.2	11.8	329	1,190	---	<5	
	8/12/2008	<1.53	287.0	331	1.54	5.39	144	20.6	5.8	6.5	308.0	1,080	---	<1.53	
	2/19/2009	<5	240.0	310	1.80	5.30	160	21.0	6.1	7.2	350.0	1,100	---	<5	
	7/29/2009	<5	200.0	730	1.50	4.60	130	16.0	4.6	3.1	160.0	1,900	---	<5	
	2/25/2010	<5	255.0	380	1.39	5.78	157	27.4	8.5	4.7					

Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA
MW-3	2/17/1998	<2.0	410	983	--	--	173	--	--	--	--	2,261	232	--
	2/7/2001	8	278	890	3.40	7.30	200	56.7	18.7	20.4	648	2,100	---	--
	5/2/2002	<1.0	298	735	2.84	7.57	213	27.5	8.39	24.7	42.8	--	---	<1.00
	5/3/2002	<1.0	146	767	2.90	7.39	207	37.9	11.5	25.5	28.2	--	---	<1.00
	10/11/2002	<0.1	288	753	---	---	272	29	9.18	20.6	622	1,960	---	<0.10
	12/27/2002	<0.1	288	727	---	---	231	27	7.34	19.9	698	1,950	---	<0.10
	2/18/2003	<0.1	277	762	---	---	180	25.2	7.84	16.4	580	1,950	---	<0.10
	6/2/2003	<1.0	270	802	3.07	8.06	203	64.9	20	18.5	728	2,720	---	<1.00
	8/26/2003	<1.0	282	799	3.00	7.99	198	54.9	18	16.4	597	2,320	---	<1.00
	11/6/2003	<1.0	286	746	2.92	7.26	214	37.4	11.1	24.9	577	2,092	---	<1.00
	11/6/2003	<1.0	132	521	1.85	2.92	98.1	120	39.5	9.15	200	1,392	---	<1.00
	2/4/2004	<1.0	296	755	2.74	7.36	205	42.7	13.1	27.1	546	2,275	---	<1.00
	5/7/2004	<1.00	300	774	2.57	7.02	197	38.8	11.2	22.2	528	2,140	---	<1.00
	8/3/2004	<0.1	291	798	---	---	155	21.5	16.7	25.8	794	1,640	---	<0.10
	2/11/2005	<1.00	292	879	4.61	9.47	196	47	14.5	19.1	590	2,240	---	<1.00
	8/4/2005	<1.00	282	922	2.86	8.17	217	48	14.7	21.1	630	1,950	---	<1.00
	2/22/2006	<10.0	250	1,100	1.60	8.50	190	46.8	15.3	15.1	446	3,860	---	<10.0
	8/24/2006	<10	260	750	2.60	6.43	190	25.3	7.68	11.9	565	1,990	---	<10.0
	2/28/2007	<10	270	850	2.20	8.50	190	30.7	9.02	18	516	1,800	---	<10
	8/23/2007	<10	204	1,000	1.50	9.50	190	228	80	<50	673	2,330	---	204
	2/20/2008	<5	246	1,070	3.18	8.38	222	79.7	26.2	19.1	721	2,480	---	<5
	8/13/2008	<5	222.0	1,180	2.59	8.27	210	46.8	14.3	17.5	896.0	2,700	---	<5
	2/19/2009	<5	220.0	1,300	2.00	7.80	220	50.0	16.0	20.0	920.0	2,800	---	<5
	7/29/2009	<5	190.0	1,600	1.60	7.60	210	140.0	47.0	26.0	770.0	3,400	---	<5
	2/24/2010	<5	237.0	1,380	1.49	8.81	248	65.0	17.5	15.1	938.0	2,670	---	<5
	7/28/2010	<5	221.0	1,230	1.68	7.12	259	84.8	24.6	14.1	857.0	2,680	---	<5
	2/16/2011	<2.0	238.0	1,300	1.40	8.97	1,290	135.0	41.3	14.4	746.0	2,430	---	<2.0
	8/18/2011	<5.0	227.0	1,250	1.42	9.18	887	76.3	23.2	11.2	700.0	2,750	---	<5.0
	2/22/2012	<5.00	235.0	1,260	1.40	7.39	252	104.0	32.6	13.2	809.0	2,800	---	<5.00
	2/22/2012	<5.00	230.0	1,470	1.53	8.75	224	132.0	39.2	13.4	770.0	2,940	---	<5.00
	8/29/2012	<10.0	283.0	1,200	1.72	6.42	271	56.3	16.4	13.1	745.0	2,600	---	<10.0
	2/21/2013	<6.0	252.0	1,100	1.26	8.87	261	131.0	40.2	13.4	770.0	2,500	---	<6.00
	8/14/2013	<6.0	275.0	1,330	1.40	7.59	309	254.0	87.9	12.3	925.0	2,890	---	<6.00
	4/3/2014	<10.0	356.0	839	1.52	9.26	346	44.6	12.7	15.3	665.0	2,280	---	<10.00
	10/9/2014	<4.00	291.0	961	0.75	7.36 J	300	106.0	32.8	16.0	671.0	3,400	---	<4.00
	6/25/2015	---	---	568	<2.00	---	282	---	---	---	---	2,020	---	---
	10/6/2015	---	---	518	<20.0	---	290	---	---	---	---	1,710 J	---	---
	10/6/2015	---	---	575	<20.0	---	291	---	---	---	---	1,690 J	---	---
	6/23/2016	---	---	1,560	1.31	---	178	---	---	---	---	4,580	---	---
	10/06/2016	---	---	846	1.44	---	273	---	---	---	---	1,980	---	---
	05/23/2017	---	---	456	1.21	---	242	---	---	---	---	1,500	---	---
	10/12/2017	---	---	615	1.21	---	223	---	---	---	---	1,550	---	---
	5/9/2018	---	---	533	1.45	---	214	---	---	---	---	1,660	---	---
	10/9/2018	---	---	586	1.06	---	224	---	---	---	---	1,510	---	---
	6/19/2019	---	---	521	---	---	---	---	---	---	---	1,250	---	---
	11/25/2019			486	3.43		202.00					1,540	---	---
MW-4	2/17/1998	<2.0	510.0	372	---	---	136	---	---	---	---	1,268	---	---
	2/7/2001	<1.0	286.0	1,200	1.70	4.70	100	248	84.7	24.0	506	2,600	---	---
	5/3/2002	<1.0	250.0	868	1.00	4.72	163	137	48.4	40.7	441	---	---	<1.00
	10/14/2002	<0.1	342.0	381	---	---	124	9	2.5	38.4	405	1,220	---	<0.10
	10/14/2002	<0.1	358.0	372	---	---	116	9	2.4	37.4	409	1,260	---	<0.10
	12/27/2002	<0.1	288.0	505	---	---	114	21	4.4	50.6	461	1,450	---	<0.10
	12/27/2002	<0.1	158.0	115	---	---	139	56	23	4.9	94	594	---	<0.10
	2/18/2003	<0.1	264.0	691	---	---	118	32	7.5	59.0	474	1,610	---	<0.10
	5/30/2003	<1.0	236.0	1,020	<2.0	5.53	796	113	29.7	59.8	664	2,670	---	<1.0
	8/25/2003	<1.0	192.0	1,170	<2.0	5.43	73	143	35.0	82.1	616	2,935	---	<1.0
	11/7/2003	<1.0	194.0	1,620	<2.0	5.48	77	228	61.4	83.6	629	3,035	---	<1.0
	2/5/2004	<1.0	170.0	1,730	<2.0	5.93	79	277	75.9	108	630	3,380	---	<1.0
	5/6/2004	<1.0	158.0	2,150	<3.0	5.94	88	407	99.9	99.7	593	4,090	---	<1.0
	8/3/2004	<0.1	150.0	2,730	---	---	125	632	191	124	832	6,810	---	<0.10
	2/11/2005	<1.0	136.0	4,520	<1.0	5.19	127	1060	289	156	983	9,030	---	<1.0
	8/4/2005	<1.0	132.0	6,580	<1.0	5.34	166	1650	375	142	1440	13,200	---	<1.0
	2/23/2006	<10.0	130.0	9,100	<2.5	10.00	220	1510	326	141	1070	17,900	---	<10.0
	8/25/2006	<10.0	140.0	12,000	<5	6.13	290	1550	364	136	1890	17,500	---	<10.0
	2/28/2007	<10.0	170.0	10,000	<250	<200	<2000	1550	310	160	1520	21,800	---	<10.0
	8/21/2007	<10.0	167.0	10,000	0.30	9.00	490	1630	443	112	3080	26,000	---	167
	2/20/2008	<5.0	210.0	8,220	1.33B	6.05	587	1200	372	143	3160	18,200	---	<5
	8/13/2008	<5.0	263.0	6,270	<1.5	6.64	607	770	209	97.3	2510	15,100	---	<5
	2/19/2009	<5.0	300.0	4,900	<0.5	5.60	620	580	160	72.0	2200	11,000	---	<5
	7/29/2009	<5.0	320.0	3,700	<0.5	6.40	580	380	110	63.0	1800	8,400	---	<5
	2/25/2010	<5.0	338.0	3,590	0.23	5.94	478	378	107	40.0	1830	7,940	---	<5
	7/28/2010	<5.0	283.0	3,840	0.45	4.00	419	273	62.8	30.4	1840	8,820	---	<5
	2/16/2011	<2.0	337.0	2,480	0.54	4.08	1,240	179	53.6	30.6	1300	5,840	---	<2.0
	8/18/2011	<5.0	358.0	2,530	0.68	5.39	479	156	41.4	23.9	1240	4,870	---	<5.0
	2/22/2012	<5.0	292.0	3,250	0.72	5.30	220	656	204	27.8	1180	8,100	---	<5.0
	8/28/2012	<5.0	227.0	3,860	0.54	3.06	315	880	263	27.8	1050	9,420	---	<5.0
	2/21/2013	<6.0	303.0	2,450	0.58	5.53	331	761	228	27.5	1070	5,170	---	<6.0
	8/14/2013	<6.0	257.0	3,420	0.66	3.83	324	711	231	28.0	1160	6,500	---	<6.0
	4/3/2014	<10.0	380.0	2,010	<0.5	3.83	353	185	52	23.3	1140	3,360	---	<10.0
	10/9/2014	<4.0	259.0	2,330	0.29	3.71 J	312	420	130	26.7	1020	5,870	---	<4.0
	6/25/2015	---	---	1,870	<2.00	---	451	---	---	---	---	4,100	---	---
	10/6/2015	---	---	2,760	<80.0	---	330	---	---	---	---	7,120 J	---	---
	6/23/2016	---	---	3,030	0.65	---	221	---	---	---	---	7,460	---	---
	10/06/2016	---	---	3,050	0.59	---	270	---	---	---	---	5,860	---	---
	05/23/2017	---	---	2,180	0.59	---	343	---	---	---	---	5,570	---	---
	10/13/2017	---	---	2,120	0.61	---	367	---	---	---	---	4,320	---	---
	5/9/2018	---	---	2,440	0.39	---	322	---	---	---	---	4,460	---	---
	10/9/2018	---	---	2,550	7.26	---	400	---	---	---	---	3,970	---	---
	6/19/2019	---	---	2,550	---	---	---	---	---	---	---	6,390	---	---
	11/24/2019			1,180	4.85		251.00					2,090	---	---

Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA
MW-5	2/17/1998	<2.0	360.0	408	---	---	151	---	---	---	---	1,219	116	---
	2/7/2001	<1.0	214.0	570	1.60	4.80	140	123	40.8	20.3	331	1,500	---	---
	5/3/2002	<1.0	238.0	335	0.96	5.36	162	37.3	11.1	27.3	287	---	---	<1.00
	10/11/2002	<0.1	232.0	337	---	---	173	31.8	10	20.7	305	1,100	---	<0.10
	12/27/2002	<0.1	232.0	337	---	---	171	31.3	8.6	20.6	319	1,210	---	<0.10
	2/18/2003	<0.1	210.0	319	---	---	176	27.2	8.5	16.5	231	1,110	---	<0.10
	6/2/2003	<1.0	196.0	588	1.23	4.86	142	132	40.5	21.2	364	1,644	---	<0.10
	8/26/2003	<1.0	210.0	447	1.32	4.85	141	95.1	29.0	23.4	291	1,480	---	<1.00
	11/6/2003	<1.0	214.0	456	1.43	5.11	152	94.0	29.3	24.8	282	1,430	---	<1.00
	2/4/2004	<1.0	206.0	504	1.38	5.31	147	95.1	31.4	27.3	289	1,410	---	<1.00
	5/7/2004	<1.0	222.0	381	1.02	5.98	151	55.9	16.3	25.7	301	1,250	---	<1.00
	5/7/2004	<1.0	242.0	330	1.04	5.75	152	50.7	14.6	27.4	292	1,168	---	<1.00
	8/3/2004	<0.1	229.0	461	---	---	155	47.9	31.3	31.1	435	968	---	<0.10
	2/11/2005	<1.0	288.0	408	2.58	8.36	243	46.2	13.3	30.6	433	1,598	---	<1.00
	8/4/2005	<1.0	256.0	423	1.83	6.82	201	60.5	18.6	20.3	354	1,334	---	<1.00
	8/4/2005	<1.0	242.0	394	1.82	6.74	200	49.2	14.8	21.5	341	1,220	---	<1.00
	2/22/2006	<10.0	220.0	800	1.30	6.60	160	222	69.4	14.0	274	2,670	---	<10.00
	8/24/2006	<10.0	190.0	930	<5	5.09	140	145	47.6	13.1	295	1,280	---	<10.1
	2/28/2007	<10.0	300.0	730	3.50	5.20	340	36.9	10.6	18.4	301	1,310	---	<10.2
	8/23/2007	<10.0	115.0	360	1.80	5.20	170	50.1	18.4	16.4	291	2,500	---	<10.3
	2/20/2008	<5.0	255.0	505	2.90	5.61	168	127	42.1	19.6	353	1,500	---	<10.4
	8/13/2008	<5.0	220.0	438	1.77	6.20	191	62.8	19.3	23.9	362	1,300	---	<10.5
	2/19/2009	<5.0	220.0	390	1.60	6.20	200	63.0	19.0	25.0	310	1,200	---	<10.6
	7/29/2009	<5.0	210.0	490	1.40	6.20	200	110	35.0	23.0	280	1,500	---	<10.7
	2/25/2010	<5.0	223.0	326	1.02	6.27	195	58.0	19.0	16.5	232	1,120	---	<10.8
	7/28/2010	<5.0	235.0	272	1.15	4.61	189	51.3	14.6	13.8	257	1,130	---	<10.9
	7/28/2010	<5.0	233.0	283	1.11	5.17	192	60.9	19.2	16.7	269	1,180	---	<10.10
	2/16/2011	<2.0	206.0	272	1.12	5.87	413	64.7	18.8	14.9	240	1,010	---	<2.0
	8/18/2011	<5.0	224.0	325	1.22	<0.0300	175	59.4	17.6	13.2	233	1,160	---	<5.0
	2/22/2012	<5.0	174.0	1,140	0.86	4.06	95	55.4	16.0	14.9	272	3,330	---	<5.0
	8/29/2012	<10.0	186.0	1,380	1.04	2.92	94	319	102	7.5	246	3,640	---	<10.0
	2/21/2013	<6.0	159.0	1,350	0.76	3.99	101	224	69.2	10.5	339	3,110	---	<6.0
	8/14/2013	<6.0	161.0	1,470	1.01	3.57	102	370	125	9.5	281	3,780	---	<6.0
	4/3/2014	<10.0	263.0	627	1.33	5.91	165	172	56.6	11.7	296	1,460	---	<10.0
	10/9/2014	<4.0	185.0	957	0.57	3.99 J	124	263	84.8	11.1	344	3,750	---	<4.00
	6/25/2015	---	---	801	<2.00	---	176	---	---	---	---	2,160	---	---
	10/6/2015	---	---	480	<8.00	---	153	---	---	---	---	1,370 J	---	---
	6/23/2016	---	---	1,090	0.71	---	94	---	---	---	---	3,340	---	---
	10/06/2016	---	---	1,250	0.89	---	105	---	---	---	---	2,880	---	---
	10/06/2016	---	---	1,220	0.94	---	103	---	---	---	---	3,080	---	---
	05/23/2017	---	---	899	0.68	---	120	---	---	---	---	2,810	---	---
	10/12/2017	---	---	1,080	0.71	---	94.7	---	---	---	---	1,900	---	---
	5/9/2018	---	---	1,110	0.83	---	104	---	---	---	---	2,140	---	---
	10/10/2018	---	---	863	0.84	---	149	---	---	---	---	1,670	---	---
	6/19/2019	---	---	464	---	---	---	---	---	---	---	1,360	---	---
	11/24/2019			289	1.77		193.00					1,120	---	---
MW-6	2/7/2001	<1.0	200	1,800	3.30	5.40	140	323	108	18.8	657	3,800	--	--
	5/2/2002	<1.0	264	503	3.68	7.04	183	24.9	7.29	17.4	475	--	---	<1.00
	10/14/2002	<0.1	262	620	--	--	206	18.6	5.34	17.5	556	1,670	--	<0.10
	12/27/2002	36	218	620	--	--	192	21.2	6.08	13.6	584	1,650	---	<0.10
	2/18/2003	16	238	638	---	---	298	22.1	6.43	11.8	524	1,700	---	<0.10
	6/2/2003	<1.0	244	772	3.24	6.62	181	68.7	23.3	14.4	614	2,040	---	<1.00
	8/26/2003	<1.0	246	607	2.95	6.65	179	35.9	11.6	12.2	525	2,370	---	<1.00
	11/6/2003	<1.0	250	649	3.28	6.89	191	46	13.9	18.1	503	1,932	---	<1.00
	2/4/2004	<1.0	266	713	3.15	7.20	189	48.9	15.4	19.9	517	2,210	---	<1.00
	5/7/2004	<1.00	266	696	2.92	6.74	182	54.8	16.1	16	503	2,095	---	<1.00
	8/3/2004	<0.1	260	718	---	---	240	22.7	21.7	21.7	825	1,430	---	<0.10
	2/11/2005	<1.00	270	660	3.76	7.84	192	30.1	9.13	19.5	531	1,774	---	<1.00
	8/4/2005	<1.00	268	764	3.16	7.83	206	56.6	18.8	15.3	576	1,650	---	<1.00
	2/22/2006	<10.0	270	610	2.40	7.90	180	23.9	7.41	10.9	380	1,570	---	<10.0
	8/24/2006	<10.0	260	590	3.00	5.96	170	108	35	9.38	448	1,880	---	<10.0
	2/28/2007	<10	280	530	3.00	7.80	170	21	6.14	12.8	397	1,550	---	<10
	8/23/2007	<10	265	1,100	2.30	7.60	150	29.8	11.7	8.35	440	3,970	---	265
	2/20/2008	<5	227	799	3.05	7.43	163	181	62.4	15.7	492	1,930	---	<5
	8/13/2008	<5	238.0	563	2.56	7.83	176	22.6	6.6	14.4	558	1,640	---	<5
	2/19/2009	<5	370.0	1,200	2.00	6.10	150	140	47.0	16.0	590	3,200	---	<6
	7/29/2009	<5	210.0	1,200	2.10	7.00	160	37.0	11.0	16.0	550	2,700	---	<5
	2/24/2010	<5	243.0	780	2.07	7.89	193	39.7	10.6	9.0	558	1,910	---	<5
	7/28/2010	<5	247.0	702	2.23	8.99	204	30.7	8.9	10.3	591	1,740	---	<5
	2/16/2011	<2.0	214.0	768	1.56	6.36	385	30.8	8.3	9.8	539	1,800	---	<2.0
	8/18/2011	<5.0	243.0	657	2.00	8.73	205	80.6	25.2	7.7	492	1,830	---	<5.0
	2/22/2012	<5.00	273.0	685	2.28	9.03	228	85.5	27.7	8.6	504	1,810	---	<5.00
	8/29/2012	<10.0	315.0	849	2.20	5.30	207	91.4	27.3	7.5	498	1,930	---	<10.0
	2/21/2013	<6.00	253.0	812	1.71	8.30	221	25.8	7.8	8.7	496	1,900	---	<6.00
	8/14/2013	<6.00	245.0	865	2.06	7.96	241	214	74.9	8.9	628	1,870	---	<6.00
	4/3/2014	<10.0	329.0	607	2.34	9.32	265	41.1	12.2	9.0	517	1,880	---	<10.0
	10/9/2014	<4.0	286.0	560	1.21	8.11 J	265	42.1	12.8	10.0	532	1,730	---	<4.00
	6/25/2015	---	---	465	<2.00	---	273	---	---	---	---	1,690	---	---
	10/6/2015	---	---	431	<20.0	---	251	---	---	---	---	1,470 J	---	---
	10/6/2015	---	---	642	<20.0	---	238	---	---	---	---	1,710 J	---	---
	6/23/2016	---	---	1,220	1.73	---	159	---	---	---	---	2,690	---	---
	10/06/2016	---	---	357	1.89	---	256	---	---	---	---	1,290	---	---
	05/23/2017	---	---	319	1.51	---	211	---	---	---	---	1,400	---	---
	05/23/2017	---	---	336	1.50	---	207	---	---	---	---	1,370	---	---
	10/12/2017	---	---	336	1.67	---	197	---	---	---	---	1,250	---	---
	5/9/2018	---	---	365	1.24	---	177	---	---	---	---	1,340	---	---
	10/9/2028	---	---	413	1.59	---	190	---	---	---	---	1,200	---	---
	6/19/2019	---	---	335	---	---	---	---	---	---	---	1,250	---	---
	11/25/2019			487	3.55		186.00					1,500	---	---

Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA
MW-7	2/7/2001	<1.0	238	500	3.20	4.10	100	80.3	27.3	10.4	326	1,300	---	---
	5/2/2002	<1.0	244	466	2.94	4.18	106	46.6	17	8.42	307	---	---	<1.00
	10/11/2002	<0.1	242	408	---	---	128	39.7	13.5	6.7	316	1,120	---	<0.10
	12/27/2002	<0.1	232	452	---	---	109	56.2	19.2	5.82	353	1,220	---	<0.10
	2/17/2003	<0.1	200	603	---	---	134	90.6	30.9	5.86	339	1,440	---	<0.10
	6/2/2003	<1.0	242	388	3.23	4.33	115	39.5	12.5	6.16	370	1,216	---	<1.00
	8/25/2003	<1.0	232	367	2.77	4.07	105	39.3	12.3	7.14	309	1,244	---	<1.00
	11/5/2003	<1.0	240	343	3.08	4.16	117	36.6	11.4	7.67	304	1,186	---	<1.00
	11/5/2003	<1.0	238	355	3.04	4.19	117	34.7	10.8	7.63	298	1,170	---	<1.00
	2/4/2004	<1.0	262	320	3.10	4.25	112	30.7	9.87	7.95	298	1,138	---	<1.00
	5/6/2004	<1.00	260	339	2.90	4.00	112	35.2	10.3	6.81	282	1,172	---	<1.00
	8/3/2004	<0.1	248	328	---	---	126	22.8	12.1	7.55	436	734	---	<0.10
	2/11/2005	<1.00	238	332	3.76	4.65	123	31.5	9.99	7.75	296	1,128	---	<1.00
	8/5/2005	<1.00	240	430	3.10	4.36	144	58.2	19.2	8.43	325	1,180	---	<1.00
	8/5/2005	<1.00	236	387	3.14	4.30	144	38.7	12.5	6.51	315	1,100	---	<1.00
	2/22/2006	<10.0	290	240	2.60	3.30	120	30.6	9.98	4.89	227	1,120	---	<10.0
	8/24/2006	<10.0	260	230	3.10	2.97	110	23.3	7.82	2.96	245	952	---	<10.0
	2/28/2007	<10	270	240	3.30	3.60	100	21.3	6.57	<5	230	885	---	<10
	8/23/2007	<10	261	250	2.70	3.20	110	18.8	8	<5	247	2,320	---	261
	2/20/2008	<5	251	269	2.40	3.18	122	37.6	12.4	5.41	261	930	---	<5
	8/13/2008	<5	274.0	251	2.41	3.21	121	25.0	7.6	4.9	273	887	---	<5
	2/19/2009	<5	250.0	240	2.90	3.30	100	26.0	8.3	5.1	260	880	---	<5
	7/29/2009	<5	260.0	260	2.90	3.90	110	40.0	13.0	5.8	250	950	---	<5
	2/24/2010	<5	263.0	282	2.54	4.08	106	34.3	9.1	3.6	310	1,000	---	<5
	7/28/2010	<5	259.0	279	2.61	3.39	113	28.5	9.0	3.6	265	950	---	<5
	2/16/2011	<2.0	212.0	286	2.55	4.07	123	32.8	9.4	3.6	246	910	---	<2.0
	8/18/2011	<5.0	248.0	268	2.76	4.16	121	27.5	8.6	2.3	234	1,060	---	<5.0
	8/18/2011	<5.0	262.0	265	2.58	4.27	105	29.4	8.2	3.3	255	1,010	---	<5.0
	2/22/2012	<5.00	262.0	287	2.80	4.50	107	32.8	9.9	3.5	266	952	---	<5.00
	8/28/2012	<10.0	275.0	287	2.90	2.88	123	27.2	8.4	3.2	252	962	---	<10.0
	2/21/2013	<6.00	257.0	258	2.30	4.76	134	29.3	9.1	3.8	284	904	---	<6.00
	8/14/2013	<6.00	244.0	285	2.74	4.92	143	32.4	9.3	3.9	283	962	---	<6.00
	4/3/2014	<10.0	307.0	303	3.08	5.48	149	30.7	8.9	3.8	305	1,020	---	<10.0
	10/9/2014	<4.00	257.0	252	1.74	4.90 J	146	28.1	8.3	3.8	286	955	---	<4.00
	6/25/2015	---	---	227	2.44	---	163	---	---	---	---	890	---	---
	10/6/2015	---	---	218	<8.00	---	139	---	---	---	---	940 J	---	---
	6/23/2016	---	---	222	2.78	---	131	---	---	---	---	954	---	---
	6/23/2016	---	---	259	2.66	---	128	---	---	---	---	979	---	---
	10/06/2016	---	---	222	2.39	---	145	---	---	---	---	873	---	---
	05/23/2017	---	---	207	1.94	---	129	---	---	---	---	868	---	---
	10/12/2017	---	---	393	1.54	---	111	---	---	---	---	1,300	---	---
	5/9/2018	---	---	155	2.21	---	125	---	---	---	---	795	---	---
	10/9/2018	---	---	182	2.32	---	141	---	---	---	---	771	---	---
	6/19/2019	---	---	147	---	---	---	---	---	---	---	806	---	---
	11/25/2019			221	1.67		134.00					780	---	---
MW-8	2/7/2001	20	240	900	3.20	6.60	160	79.4	24.5	12.7	604	2,100	---	--
	5/2/2002	<1.0	236	818	2.65	6.68	168	94.5	29.2	13	527	---	---	<1.00
	10/14/2002	<0.1	250	842	---	---	194	52.4	20.4	10.8	597	1,920	---	<0.10
	12/27/2002	<0.1	233	833	---	---	173	59.8	20	8.64	627	2,000	---	<0.10
	2/18/2003	<0.1	213	833	---	---	185	53	17.6	7.13	489	1,930	---	<0.10
	6/2/2003	<1.0	244	777	3.29	6.82	173	60	18.9	9.47	650	1,968	---	<1.00
	8/25/2003	<1.0	244	738	2.85	6.42	159	59.4	17.3	11.4	534	1,996	---	<1.00
	11/7/2003	<1.0	248	722	3.27	6.65	171	58.1	17.9	12.2	525	1,972	---	<1.00
	2/4/2004	<1.0	254	764	3.77	7.85	161	55.2	18.2	13.2	522	2,038	---	<1.00
	5/6/2004	8	262	774	3.36	7.43	164	56.2	16.9	10.7	501	1,968	---	<1.00
	8/4/2004	<0.1	246	771	---	---	222	28.6	21.5	11	707	1,530	---	<0.10
	2/11/2005	<1.00	238	818	4.28	8.46	167	58.3	19	13.2	543	2,080	---	<1.00
	8/5/2005	<1.00	236	888	3.29	7.66	184	71.5	23.3	11.7	574	2,230	---	<1.00
	2/22/2006	<10.0	230	810	2.40	7.90	170	55.1	18	8.05	390	1,740	---	<10.0
	8/24/2006	<10.0	280	710	3.20	5.51	170	51.2	16.5	6	470	926	---	<10.0
	2/28/2007	<10	260	740	3.30	7.30	170	68.3	20.7	8.59	381	1,780	---	<10
	8/22/2007	<10	259	700	3.00	7.40	170	49.1	18.5	5.35	449	1,980	---	259
	2/20/2008	<5	240	711	3.66	7.15	188	82.2	26.4	9.48	461	1,780	---	<5
	8/12/2008	<1.53	357	668	2.99	6.74	171	64.1	19.7	8.5	541	1,750	---	<1.53
	2/19/2009	<5	230	700	3.60	6.40	170	64.0	21.0	8.8	500	1,700	---	<5
	7/29/2009	<5	290	740	3.50	6.80	170	60.0	19.0	9.5	490	1,800	---	<5
	2/24/2010	<5	255	754	3.16	6.58	160	56.4	16.1	5.1	510	1,760	---	<5
	7/28/2010	<5	263	711	3.43	5.67	164	54.2	17.0	4.8	533	1,720	---	<5
	2/16/2011	<2.0	218	749	3.11	6.73	182	53.9	15.8	4.91	466	1,760	---	<2.0
	8/18/2011	<5.0	257	676	3.21	7.56	148	47.2	15.0	3.68	440	1,770	---	<5.0
	2/22/2012	<5.00	264	751	3.27	6.46	167	62.4	19.5	5.24	512	1,720	---	<5.00
	2/20/2013	<6.00	271	643	3.17	7.01	203	46.6	15.0	4.66	443	1,590	---	<6.00
	8/14/2013	<6.00	262	665	3.48	7.52	216	54.7	16.7	5.27	492	1,530	---	<6.00
	4/3/2014	<10.0	336	674	4.01	8.17	206	54.4	16.3	5.20	450	1,560	---	<10.0
	10/10/2014	<4.00	284	527	2.29	7.65	194	51.2	15.9	5.42	454	1,550	---	<4.00
	6/24/2015	---	---	528	3.42	---	213	---	---	---	---	1,440	---	---
	10/6/2015	---	---	518	<20.0	---	202	---	---	---	---	1,460 J	---	---
	6/22/2016	---	---	507	3.63	---	181	---	---	---	---	1,540	---	---
	10/06/2016	---	---	478	3.16	---	212	---	---	---	---	1,480	---	---
	05/23/2017	---	---	418	2.91	---	192	---	---	---	---	1,280	---	---
	10/12/2017	---	---	413	3.48	---	188	---	---	---	---	836	---	---
	5/9/2018	---	---	357	1.76	---	175	---	---	---	---	1,250	---	---
	10/10/2018	---	---	412	3.45	---	181	---	---	---	---	1,290	---	---
	10/10/2018	---	---	419	3.40	---	178	---	---	---	---	1,310	---	---
	6/19/2019	---	---	353	---	---	---	---	---	---	---	1,250	---	---
	11/25/2019			350	3.17		168.00					1,310	---	---

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Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard	(mg/L)	NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA
MW-11	4/30/2002								DRY					
	10/11/2002								DRY					
	12/26/2002								DRY					
	2/17/2003								DRY					
	5/29/2003								DRY					
	8/22/2003								DRY					
	11/5/2003								DRY					
	2/3/2004								DRY					
	5/5/2004								DRY					
	8/2/2004								DRY					
	11/23/2004								DRY					
	2/9/2005								DRY					
	8/4/2005								NS - Insufficient Water Column					
	2/22/2006								NS - Insufficient Water Column					
	2/28/2007								NS - Insufficient Water Column					
	8/22/2007								NS - Insufficient Water Column					
	2/20/2008								NS - Insufficient Water Column					
	8/12/2008								NS - Insufficient Water Column					
	2/19/2009	<5	370.0	1,700	0.80	3.00	100	430.0	150.0	17.0	380.0	4,500	---	5
	7/29/2009	<5	490.0	1,800	0.72	3.80	120	420.0	140.0	19.0	340.0	5,000	---	<5
	2/16/2011	<2.0	115.0	1,720	0.61	3.40	760	365.0	116.0	9.7	336.0	3,420	---	<2.0
	8/18/2011								NS - Insufficient Water Column					
	2/22/2012	<5.00	131.0	2,240	0.65	3.64	145	588.0	176.0	12.2	456.0	6,470	---	<5.00
	8/28/2012	<5.00	146.0	2,450	0.67	2.14	128	563.0	169.0	12.6	460.0	7,980	---	<5.00
	2/20/2013	<6.00	128.0	2,540	0.52	3.20	137	711.0	208.0	13.2	502.0	5,420	---	<6.00
	8/14/2013	<6.00	117.0	3,070	0.59	3.22	140	779.0	260.0	15.1	579.0	6,620	---	<6.00
	4/3/2014	<10.0	151.0	2,940	0.79	3.74	161	820.0	252.0	16.2	576.0	9,080	---	<10.0
	10/10/2014								NS - Insufficient Water Column					
	6/24/2015	---	---	3,250	<2.0	---	200	---	---	---	---	7,810	---	---
	10/6/2015								NS - Insufficient Water Column					
	6/22/2016	---	---	2,740	<0.0360	---	157	---	---	---	---	6,090	---	---
	10/06/2016	---	---	3,000	<0.0360	---	183	---	---	---	---	6,220	---	---
	05/23/2017								NS - Insufficient Water Column					
	10/12/2017								NS - Insufficient Water Column					
	5/8/2018								NS - Insufficient Water Column					
	10/8/2018								NS - Insufficient Water Column					
	6/19/2019								Not Sampled, Insufficient Water in Well					
	11/24/2019			816	1.46		269.00					6,390	---	---
MW-12	5/2/2002	<1.0	88	1,120	1.37	4.09	45.3	431	153	17.7	123	--	---	<1.00
	10/11/2002	<0.1	93	1,370	---	---	47.5	438	161	15.4	127	2,860	---	<0.10
	12/27/2002	<0.1	78	1,520	---	---	49.3	507	181	14.1	151	3,460	---	<0.10
	2/17/2003	<0.1	68	1,530	---	---	52.4	461	170	13.3	136	3,980	---	<0.10
	6/2/2003	<1.0	72	1,380	<2.00	5.06	45.8	491	157	15.3	151	3,250	---	<1.00
	8/26/2003	<1.0	66	1,550	<2.00	4.94	45.9	525	178	14.8	156	3,855	---	<1.00
	11/6/2003	<1.0	80	1,610	2.25	4.81	50.3	568	189	20.1	159	3,860	---	<1.00
	2/5/2004	<1.0	74	1,680	2.19	5.13	46	525	181	21.6	160	2,910	---	<1.00
	5/7/2004	<1.0	70	1,620	<3.00	5.13	53.6	541	178	18.5	152	3,085	---	<1.0
	8/3/2004	<0.1	66	1,680	---	---	55.2	680	252	31.1	211	4,300	---	<0.10
	2/11/2005	<1.00	82	1,770	2.04	6.08	47.7	503	176	17.8	138	3,080	---	<1.00
	8/5/2005	<1.00	72	1,800	1.66	4.69	48.6	547	194	15.2	149	4,180	---	<1.00
	2/22/2006	<10.0	73	1,700	0.7	6.70	48	415	135	14.9	129	4,890	---	<10.0
	8/24/2006	<10.0	87	1,700	0.93	3.06	48	463	157	12.2	140	6,190	---	<10.0
	2/28/2007	<10	95	1,900	1.3	6.90	65	521	154	16.1	155	5,840	---	<10
	8/22/2007	<10	108	1,800	0.70	6.00	52.0	476	151	11.9	143	6,470	---	108
	2/20/2008	<5	83.8	2,020	0.93	3.99	70.8	589	211	18.1	179	4,580	---	<5
	8/12/2008	<1.53	77	2,140	1.68	3.84	86.1	647	221	17.9	212	5,160	---	<1.53
	2/19/2009	<5	120	2,600	0.97	3.20	120	810	280	23.0	340	5,400	---	<5
	7/29/2009	<5	94.0	2,700	1.20	3.80	120	700	270	28.0	330	7,000	---	<5
	2/24/2010	<5	89.1	2,120	0.61	3.74	69.4	626	218	12.9	214	4,290	---	<5
	7/28/2010	<5	83.0	1,560	1.47	2.84	164	681	240	14.2	279	5,680	---	<5
	2/16/2011	<2.0	84.6	2,430	0.747	3.91	73.6	528	184	11.1	190	4,390	---	<2.0
	8/18/2011	<5.0	85.5	2,110	0.908	4.08	62.7	560	183	10.5	169	5,000	---	<5.0
	2/22/2012	<5.00	91.2	2,270	0.990	4.36	67.3	650	217	13.4	209	4,110	---	<5.00
	8/28/2012	<10.0	98.0	2,040	0.840	2.52	57.6	589	190	12.2	173	5,690	---	<10.0
	2/20/2013	<6.00	88.2	2,060	0.774	3.81	59.0	658	204	12.9	186	3,790	---	<6.00
	8/14/2013	<6.00	86.9	1,930	0.792	3.82	65.3	596	203	13.3	180	4,550	---	<6.00
	4/3/2014	<10.0	110.0	2,130	1.180	4.21	59.6	650	194	13.0	177	1,300	---	<10.0
	10/10/2014	<4.00	83.6	1,890	0.269	3.92	55.2	595	208	13.5	180	6,290	---	<4.00
	6/24/2015	---	---	2,070	<2.0	---	73.5	---	---	---	---	5,730	---	---
	10/6/2015	---	---	1,960	<40.0	---	118	---	---	---	---	4,650 J	---	---
	6/22/2016	---	---	1,880	<0.0360	---	53.2	---	---	---	---	3,950	---	---
	10/06/2016	---	---	1,960	0.699	---	61.7	---	---	---	---	4,200	---	---
Dup	10/06/2016	---	---	2,040	0.658	---	61.6	---	---	---	---	5,290	---	---
	05/23/2017	---	---	550	0.369 J	---	50.7	---	---	---	---	4,080	---	---
	10/12/2017	---	---	1,780	<0.0360	---	48.4	---	---	---	---	3,050	---	---
	5/9/2018	---	---	1,810	1.95	---	53.4	---	---	---	---	2,830	---	---
	10/10/2018	---	---	1,980	4.36	---	57.8	---	---	---	---	3,140	---	---
	10/10/2018	---	---	1,980	4.48	---	58.5	---	---	---	---	3,390	---	---
	6/19/2019	---	---	1,920	---	---	---	---	---	---	---	6,870	---	---
	11/25/2019			1,950	<0.601		82.20					6,270	---	---

Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA
MW-13	5/2/2002	<1.0	122	277	2.31	4.38	131	125	44.3	10.2	65.6	--	---	<1.00
	10/11/2002	<0.1	115	337	---	---	124	135	46.5	9.47	88.6	1,210	---	<0.10
	12/27/2002	<0.1	104	408	---	---	132	160	55.2	9.71	84.5	1,260	---	<0.10
	2/17/2003	<0.1	80	443	---	---	144	152	54.9	8.88	108	1,370	---	<0.10
	6/2/2003	<1.0	102	421	2.27	4.43	122	153	56	11	90.9	1,260	---	<1.00
	8/26/2003	<1.0	92	500	2.1	4.23	115	179	66	12	95.6	1,360	---	<1.00
	11/6/2003	<1.0	98	492	2.25	4.42	125	193	68.6	14.3	91.5	1,434	---	<1.00
	2/5/2004	<1.0	96	543	2.3	4.56	120	179	65.6	15.4	98.3	1,220	---	<1.00
	5/7/2004	<1.00	98	496	2.04	4.14	116	184	62.2	12.8	89.3	1,278	---	<1.00
	8/3/2004	<0.1	95	532	---	---	116	225	77.3	15	111	1,410	---	<0.10
	2/11/2005	<1.00	100	491	2.19	5.36	117	171	61.7	13.3	92.3	1,260	---	<1.00
	8/5/2005	<1.00	96	759	2.29	5.11	125	217	70.8	12.7	103	1,550	---	<1.00
	2/22/2006	<10.0	89	590	1.7	4.80	120	177	61.2	11.5	91.8	2,090	---	<10.0
	8/24/2006	<10.0	150	760	<2.5	3.58	120	228	78.7	10.9	107	2,590	---	<10.0
	2/28/2007	<10	90	880	2	5.20	140	262	84.8	14.6	113	3,060	---	<10
	8/22/2007	<10	129	980	1.60	4.00	130	279	94.7	11.6	122	3,480	---	129
	2/20/2008	<5	209	1,260	1.57	4.02	153	362	145	20.1	172	3,070	---	<5
	8/13/2008	<5	141.0	1,410	2.33	1.53	154	389	155	20	176	4,940	---	<5
	2/19/2009	5.00	130.0	1,800	1.50	3.10	180	580	200	24	240	4,700	---	5
	7/29/2009	<5	120.0	1,800	1.40	4.10	400	540	220	27	210	5,900	---	<5
	2/24/2010	<5	91.1	1,570	1.05	3.53	150	452	139	13	160	3,400	---	<5
	7/28/2010	<5	89.1	4,340	1.08	3.01	921	468	136	12	156	4,420	---	<5
	2/16/2011	<2.0	82.7	1,630	1.36	3.88	1,680	392	150	14	170	4,440	---	<2.0
	8/18/2011	<5.0	87.7	1,640	1.57	4.04	166	404	138	12	156	4,100	---	<5.0
	2/22/2012	<5.00	88.9	1,580	1.46	4.21	120	478	154	14	174	3,930	---	<5.00
	8/28/2012	<10.0	119.0	1,570	1.49	2.50	155	455	154	14	179	4,130	---	<10.0
	2/20/2013	>6.00	113.0	1,400	1.26	3.78	150	428	139	13	165	3,300	---	<6.00
	8/18/2013	<6.00	103.0	1,420	1.43	3.75	156	386	150	15	176	3,930	---	<6.00
	4/3/2014	<10.0	130.0	1,160	1.92	3.98	156	370	125	13	154	4,360	---	<10.0
	10/10/2014	<4.0	101.0	1,020	0.83	3.78	148	326	117	13	143	3,500	---	<4.0
	6/25/2015	---	---	934	2.67	---	177	---	---	---	---	2,730	---	---
	10/6/2015	---	---	937	<20.0	---	152	---	---	---	---	2,700 J	---	---
	6/23/2016	---	---	866	1.78	---	123	---	---	---	---	2,370	---	---
	10/06/2016	---	---	951	1.31	---	146	---	---	---	---	2,390	---	---
	05/23/2017	---	---	832	0.911	---	127	---	---	---	---	1,800	---	---
	10/12/2017	---	---	797	1.13	---	123	---	---	---	---	1,790	---	---
	5/9/2018	---	---	770	0.100 U	---	134	---	---	---	---	1,590	---	---
	10/10/2018	---	---	918	1.25	---	147	---	---	---	---	2,020	---	---
	6/19/2019	---	---	817	---	---	---	---	---	---	---	3,000	---	---
	11/25/2019			913	0.89		199.00					2,560	---	---
MW-14	11/5/2003	<1.0	100	3,500	<4.00	6.58	525	951	324	45.3	732	7,315	---	<1.00
	2/4/2004	<1.0	74	3,910	<3.00	6.01	559	966	320	46.1	840	7,720	---	<1.0
	5/6/2004	<1.00	86	3,970	<4.00	5.54	594	997	350	42.5	836	9,560	---	<1.00
	8/4/2004	<0.1	78	4,430	---	---	895	1350.0	455	60.3	1220	11,500	---	<0.10
	2/11/2005	<1.00	80	6,120	3.5	5.99	752	1180.0	370	56.8	1250	8,860	---	<1.00
	8/5/2005	<1.00	86	6,480	1.84	5.04	882	1230.0	400	46.3	1440	9,570	---	<1.00
	2/22/2006	<10.0	81	5,300	<0.50	11.00	700	914	253	34.1	885	12,100	---	<10.0
	2/22/2006	<10.0	82	5,000	<0.50	<40	690	916	253	34	884	11,600	---	<10.0
	8/24/2006	<10.0	85	5,600	<5	3.74	690	942	266	27.8	1370	11,300	---	<10.0
	2/28/2007	<10	95	5,200	<0.5	4.30	620	758	193	36.9	1060	12,400	---	<10
	8/22/2007	<10	92.2	4,700	0.30	3.90	610	823	249	<50	1420	11,700	---	92.2
	2/20/2008	<5	108	4,910	3.14	3.70	674	847	272	25.7	1510	10,300	---	<5
	8/12/2008	<1.53	101	4,400	1.32	3.50	668	781	237	38.2	1650	10,300	---	<1.53
	2/19/2009	<5	100	4,200	1.20	2.50	760	780	230	38.0	1600	9,000	---	<5
	2/19/2009	<5	100	4,200	1.20	2.40	760	700	220	24.0	1700	8,800	---	<5
	7/29/2009	<5	110	4,100	1.40	2.90	830	690	200	39.0	1500	11,000	---	<5
	2/24/2010	<5	107	4,280	1.04	3.36	844	752	218	18.9	1480	9,530	---	<5
	7/28/2010	<5	107	4,290	1.18	2.17	84	844	256	15.1	1660	9,500	---	<5
	2/16/2011	<2.0	85	5,070	0.71	0.42	1,470	902	294	21.4	1650	11,200	---	<2.0
	8/18/2011	13.10	109	7,490	0.27	3.65	1,010	1410	318	20.3	2280	12,800	---	<5.0
	2/22/2012	<5.00	108	7,610	0.46	4.17	597	1480	423	26.2	2540	18,000	---	<5.00
	8/28/2012	<10.0	113	7,730	0.70	2.48	816	1390	389	23.0	2330	22,100	---	<10.0
	2/20/2013	<6.00	103	8,420	0.74	3.76	819	1470	368	28.0	2370	14,300	---	<6.00
	8/14/2013	<6.00	102	8,030	1.08	4.53	708	1470	423	28.4	2890	15,900	---	<6.00
	8/14/2013	<6.00	102	8,090	0.97	3.99	736	1520	431	29.5	2950	16,600	---	<6.00
	4/3/2014	<10.0	133	8,710	1.25	4.52	721	1470	393	27.0	3030	8,460	---	<10.0
	4/3/2014	<10.0	133	9,430	0.73	3.63	668	1520	394	28.7	2940	19,900	---	<10.0
	10/10/2014	<4.00	103	7,610	1.77	4.28	<1.00	1270	384	33.5	2640	19,000	---	<4.00
	6/25/2015	---	---	7,870	<2.00	---	1,000	---	---	---	---	15,100	---	---
	6/25/2015	---	---	8,500	<2.00	---	1,050	---	---	---	---	17,200	---	---
	10/6/2015	---	---	8,320	<80.0	---	645	---	---	---	---	16,700 J	---	---
	6/22/2016	---	---	7,950	0.637	---	534	---	---	---	---	15,700	---	---
	10/06/2016	---	---	8,590	0.829	---	552	---	---	---	---	22,900	---	---
	05/23/2017	---	---	8,000	0.539	---	486	---	---	---	---	15,600	---	---
	10/12/2017	---	---	7,890	0.515	---	485	---	---	---	---	13,500	---	---
	5/9/2018	---	---	8,730	0.100 U	---	437	---	---	---	---	17,500	---	---
	10/10/2018	---	---	10,600	26.9	---	575	---	---	---	---	18,400	---	---
	6/19/2019	---	---	10,700	---	---	---	---	---	---	---	26,500	---	---
	11/25/2019			13,400	25.10		1,460.00					28,000	---	---

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Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)	
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA	
MW-17	11/5/2003	<1.0	154	587	2.06	3.85	104	177	58.2	12.5	184	1,556	---	<1.00	
	2/4/2004	<1.0	158	650	2.01	3.93	93.1	158	52.5	12.2	205	1,416	---	<1.00	
	Dup	2/4/2004	<1.0	172	557	2.08	4.03	95.7	162	52.6	12.1	204	1,496	---	<1.00
	5/6/2004	<1.00	162	604	1.77	3.57	91.2	182	57.7	10.9	176	1,416	---	<1.00	
	8/4/2004	<0.1	141	638	---	---	132	207	81	12.7	221	1,660	---	<0.10	
	2/11/2005	<1.00	174	572	2.94	4.61	101	134	45.9	11	229	1,470	---	<1.00	
	8/5/2005	<1.00	172	626	2.16	4.37	106	169	53.5	9.5	220	1,750	---	<1.00	
	Dup	2/22/2006	<10.0	150	580	1.5	4.00	97	123	40.1	8.04	187	1,810	---	<10.0
	8/24/2006	<10.0	200	560	<2.5	3.06	100	140	46.1	5.94	178	1,700	---	<10.0	
	8/24/2006	<10.0	320	530	<2.5	2.94	100	135	46.5	5.76	175	1,700	---	<10.0	
	2/28/2007	<10	180	530	2.2	4.10	130	94.9	30.3	7.06	213	1,240	---	<10	
	8/22/2007	<10	177	550	1.80	4.30	130	113	41.4	5.97	200	1,310	---	177	
	2/20/2008	<5	147	622	2.1	3.45	130	169	59.9	8.35	155	1,550	---	<5	
	8/12/2008	<1.53	173	519	1.86	3.37	125	124	43.0	7.9	222	1,660	---	<1.53	
	2/19/2009	<5	180	460	2.40	3.60	170	70	21.0	7.5	320	1,300	---	<5	
	7/29/2009	<5	190	440	2.40	4.00	180	76	24.0	7.4	270	1,300	---	<5	
	2/24/2010	<5	182	512	1.85	3.60	148	91	30.9	5.4	265	1,380	---	<5	
	Dup	7/28/2010	<5	217	4,840	0.80	3.09	513	88	28.8	4.9	245	1,390	---	<5
	2/16/2011	<2.0	177	401	2.14	3.64	253	55	15.2	4.2	248	1,060	---	<2.0	
	2/16/2011	<2.0	206	368	2.27	<0.0300	259	53	16.4	4.2	238	1,060	---	<2.0	
	8/18/2011	<5.0	196	421	1.87	3.45	111	110	35.9	4.1	173	1,220	---	<5.0	
	2/22/2012	<5.00	207	441	2.08	3.33	109	99	29.7	4.9	220	1,140	---	<5.00	
	8/28/2012	<10.0	164	570	1.59	1.99	103	182	58.4	6.8	132	2,070	---	<10.0	
	2/20/2013	<6.00	192	511	1.75	3.33	130	153	50.4	6.1	160	1,280	---	<6.00	
	8/14/2013	<6.00	163	637	1.71	3.37	126	181	67.0	7.3	142	1,790	---	<6.00	
	4/3/2014	<10.0	253	434	2.54	4.07	133	112	36.8	5.8	197	7,360	---	<10.0	
	10/10/2014	<4.00	211	316	1.41	3.98	107	83	27.3	5.5	240	1,790	---	<4.00	
	10/10/2014	<4.00	226	313	1.56	4.04	131	62	20.1	5.3	265	1,140	---	<4.00	
	6/24/2015	---	---	587	<2.00	---	118	---	---	---	---	1,600	---	---	
	10/6/2015	---	---	461	<8.00	---	119	---	---	---	---	1,280 J	---	---	
	6/22/2016	---	---	544	1.21	---	98.3	---	---	---	---	1,600	---	---	
	10/06/2016	---	---	438	1.80	---	122	---	---	---	---	1,250	---	---	
	05/23/2017	---	---	362	1.71	---	121	---	---	---	---	1,560	---	---	
	10/12/2017	---	---	199	2.46	---	128	---	---	---	---	1,360	---	---	
	5/9/2018	---	---	339	1.42	---	123	---	---	---	---	980	---	---	
	10/10/2018	---	---	413	1.87	---	132	---	---	---	---	1,080	---	---	
	6/19/2019	---	---	367	---	---	---	---	---	---	---	1,050	---	---	
	11/25/2019				405	1.93		106.00					1,380	---	---
MW-18	11/23/2004	DRY													
	2/9/2005	DRY													
	8/4/2005	DRY													
	2/22/2006	DRY													
	2/28/2007	DRY													
	2/20/2008	DRY													
	8/12/2008	DRY													
	2/19/2009	DRY													
	7/29/2009	DRY													
	2/16/2011	DRY													
	8/18/2011	DRY													
	2/22/2012	DRY													
	8/28/2012	DRY													
	2/20/2013	DRY													
	8/14/2013	DRY													
	10/6/2015	DRY													
	6/23/2016	DRY													
	10/6/2016	DRY													
	05/23/2017	DRY													
	10/12/2017	DRY													
5/8/2018	DRY														
10/8/2018	DRY														
6/19/2019	Not Sampled, Insufficient Water in Well														
11/25/2019	Not Sampled, Insufficient Water in Well														
MW-19	11/23/2004	<1.00	86	7,000	<10.0	17.30	582	2020	678	52.4	1590	12,900	---	<1.00	
	2/11/2005	<1.00	92	5,200	1.3	5.12	502	1340	522	61.3	974	22,000	---	<1.00	
	Dup	8/5/2005	<1.00	82	4,850	1.76	4.70	450	1200	422	50.6	793	9,750	---	<1.00
	8/5/2005	<1.00	80	5,170	1.87	4.83	462	1270	463	51	814	15,800	---	<1.00	
	2/22/2006	<10.0	75	3,900	<0.50	8.90	400	870	271	32.6	464	8,830	---	<10.0	
	8/24/2006	<10.0	250	3,900	<5	3.01	390	902	293	28.8	582	10,900	---	<10.0	
	2/28/2007	<10	92	5,500	<0.5	4.40	600	901	247	37	658	12,700	---	<10	
	8/22/2007	<10	82.6	4,500	0.30	3.10	440	1040	367	<50	686	11,600	---	82.6	
	2/20/2008	<5	80.1	4,800	1.72	3.62	476	1130	437	31.2	684	10,300	---	<5	
	8/12/2008	<1.53	79.8	4,240	2.94	3.27	429	1080	399	26.7	739	9,600	---	<1.53	
	2/19/2009	<5	89.0	5,300	0.90	3.20	540	1200	450	37.0	1200	10,000	---	<5	
	7/29/2009	<5	94.0	5,300	1.10	4.00	580	1200	400	37.0	1100	13,000	---	<5	
	2/24/2010	<5	91.1	4,720	0.44	3.73	457	1110	427	28.2	809	9,080	---	<5	
	7/28/2010	<5	104.0	4,760	1.08	3.30	130	1160	407	27.2	1110	10,400	---	<5	
	2/16/2011	<2.0	81.4	4,180	0.62	2.01	3,010	1130	370	27.3	972	9,980	---	<2.0	
	8/18/2011	<5.0	97.6	4,550	0.75	3.95	383	1020	345	24.0	676	11,100	---	<5.0	
	2/22/2012	<5.00	101.0	542	0.91	4.38	30	1300	425	29.2	1040	14,800	---	<5.00	
	8/28/2012	<10.0	107.0	4,240	0.79	2.64	416	1020	348	24.8	682	13,300	---	<10.0	
	2/20/2013	<6.00	94.0	4,310	0.70	3.76	424	1130	344	27.1	673	7,740	---	<6.00	
	8/14/2013	<6.00	94.5	3,780	0.90	3.84	382	1050	376	28.1	710	8,740	---	<6.0	
	4/3/2014	<10.0	122.0	3,740	1.07	4.22	439	1050	362	26.3	680	13,100	---	<10.0	
	10/10/2014	<4.0	95.6	3,440	0.13	3.86	416	965	369	29.2	663	7,560	---	<4.00	
	6/25/2015	---	---	3,570	<2.00	---	809	---	---	---	---	8,110	---	---	
	10/6/2015	---	---	3,780	<80.0	---	480	---	---	---	---	10,700 J	---	---	
	6/22/2016	---	---	3,550	0.884	---	373	---	---	---	---	7,370	---	---	
	10/06/2016	---	---	3,830	1.03	---	419	---	---	---	---	7,130	---	---	
	05/23/2017	---	---	3,280	0.300 J	---	356	---	---	---	---	7,440	---	---	
	10/12/2017	---	---	3,130	<0.0360	---	362	---	---	---	---	6,120	---	---	
	5/9/2018	---	---	3,290	0.338	---	363	---	---	---	---	6,410	---	---	
10/10/2018	---	---	3,490	6.52	---	403	---	---	---	---	5,230	---	---		
6/19/2019	---	---	2,990	---	---	---	---	---	---	---	9,720	---	---		
11/25/2019				3,510	2.95		740.00					8,780	---	---	

Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA
MW-20	11/23/2004	<1.00	82	606	2.49	2.90	79.7	176	62.6	13.6	104	985	---	<1.00
	2/11/2005	<1.00	88	745	1.86	4.34	73.8	227	77.5	15	117	1,480	---	<1.00
	8/5/2005	<1.00	80	1,170	1.76	4.55	84.5	326	116	14.7	162	2,640	---	<1.00
	2/22/2006	<10.0	110	1,100	0.98	5.50	83	295	103	13.5	145	3,000	---	<10.0
	8/24/2006	<10.0	1,100	1,100	<2.5	3.39	84	288	101	11.2	160	3,590	-	<10.0
	2/28/2007	<10	110	1,300	1.4	5.10	95	332	107	14.6	165	4,500	---	<10
	8/22/2007	<10	419	1,400	0.80	5.70	100.0	346	119	11.9	203	4,100	---	419
	2/20/2008	<5	117	1,540	1.1	3.83	108	393	158	18.7	247	3,550	---	<5
	8/12/2008	<1.53	135.0	1,570	2.02	3.73	113.0	392.0	154.0	18.5	249.0	4,290	---	<1.53
	2/19/2009	<5	130.0	1,600	1.00	3.70	130.0	440.0	150.0	20.0	290.0	3,900	---	<5
	7/29/2009	<5	120.0	1,700	1.10	4.10	150.0	400.0	150.0	21.0	280.0	4,600	---	<5
	2/25/2010	<5	107.0	1,500	0.80	4.03	98.8	402.0	146.0	13.9	229.0	3,460	---	<5
	7/28/2010	<5	102.0	245	2.00	3.43	143.0	451.0	156.0	13.6	289.0	4,740	---	<5
	2/16/2011	<2.0	98.4	1,810	0.972	3.89	1,070	442	134	13.3	274	4,240	---	<2.0
	8/18/2011	<5.0	106	1,610	1.16	3.99	135	393	128	11.1	253	4,550	---	<5.0
	2/22/2012	<5.00	107	1,750	1.10	4.30	122	434	126	12.5	303	4,790	---	<5.00
	8/24/2012	<5.00	123	1,830	1.03	3.46	134	440	152	14.2	295	4,510	---	<5.00
	2/20/2013	<6.00	106	1,670	1	3.78	138	445	143	13.5	275	3,680	---	<6.00
	8/14/2013	<6.00	104	1,470	1.02	4.17	121	435	152	15.1	275	4,310	---	<6.00
	4/3/2014	<10.0	134	1,500	1.22	4.16	134	407	137	13.0	243	5,140	---	<10.0
	10/10/2014	<4.00	107	1,320	0.50	3.82	121	387	139	137.0	233	4,180	---	<4.00
	6/24/2015	---	---	1,340	<2.00	---	125	---	---	---	---	3,090	---	---
	10/6/2015	---	---	1,290	<20.0	---	125	---	---	---	---	3,650 J	---	---
	6/22/2016	---	---	1,220	0.746	---	89.7	---	---	---	---	2,400	---	---
	10/06/2016	---	---	1,270	0.952	---	102	---	---	---	---	3,220	---	---
	05/23/2017	---	---	1,170	0.677	---	94.9	---	---	---	---	3,030	---	---
	10/12/2017	---	---	1,130	0.75	---	<0.460	---	---	---	---	2,340	---	---
	5/9/2018	---	---	1,130	0.100 U	---	95.6	---	---	---	---	1,980	---	---
	10/10/2018	---	---	1,240	0.678	---	104	---	---	---	---	2,180	---	---
	6/19/2019	---	---	1,180	---	---	---	---	---	---	---	3,420	---	---
	11/25/2019			1,120	<0.601		82.60					3,660	---	---
MW-21	11/28/2007	1.14	415	482	---	---	128	173	64.4	18.3	115	1,440	---	1.14
	2/20/2008	<5	115	606	1.9	5.15	159	205	71.3	14.4	110	1,740	---	<5
	8/12/2008	<1.53	126	544	2.00	4.68	147	193	64.7	12.5	116	2,060	---	<1.53
	2/19/2009	<5	190	400	2.10	4.30	140	150	46.0	11.0	120	1,200	---	<5
	7/29/2009	<5	210	330	2.20	4.40	150	120	38.0	10.0	96	1,200	---	<5
	2/24/2010	<5	184	280	1.79	4.04	143	123	37.8	7.9	100	1,030	---	<5
	7/28/2010	<5	168	2,970	0.61	3.41	150	109	34.3	7.8	95.8	1,010	---	<5
	2/16/2011	<2.0	149	240	1.87	4.56	250	106	33.4	8.1	90	888	---	<2.0
	8/18/2011	<5.0	176	213	2.15	4.93	141	90	27.5	5.9	79	876	---	<5.0
	2/22/2012	<5.00	192	208	2.16	5.50	118	89	24.8	6.8	74	894	---	<5.00
	8/24/2012	<5.00	196	241	1.95	4.10	137	100	35.0	9.7	81	750	---	<5.00
	2/21/2013	<6.00	181	182	1.98	4.77	121	91	29.4	8.1	84	700	---	<6.00
	8/14/2013	<6.00	175	180	2.48	5.90	123	100	30.3	8.4	103	798	---	<6.00
	4/3/2014	<10.0	222	236	2.72	5.98	230	117	37.4	9.0	108	1,010	---	<10.0
	10/10/2014	<4.00	185	186	1.50	5.16	393	155	48.7	9.7	119	1,080	---	<4.00
	6/24/2015	---	---	195	2.49	---	413	---	---	---	---	1,190	---	---
	10/6/2015	---	---	182	<8.00	---	365	---	---	---	---	1,170 J	---	---
	6/22/2016	---	---	170	2.25	---	289	---	---	---	---	961	---	---
	10/06/2016	---	---	185	2.01	---	279	---	---	---	---	957	---	---
	05/23/2017	---	---	176	1.71	---	199	---	---	---	---	906	---	---
	10/12/2017	---	---	176	1.94	---	194	---	---	---	---	849	---	---
	10/12/2017	---	---	176	1.81	---	193	---	---	---	---	814	---	---
	5/9/2018	---	---	177	1.96	---	196	---	---	---	---	902	---	---
	10/10/2018	---	---	192	1.83	---	213	---	---	---	---	941	---	---
	6/19/2019	---	---	212	---	---	---	---	---	---	---	1,030	---	---
	11/25/2019			204	2.25		213.00					1,040	---	---
MW-22	11/28/2007	1.14	2950	1,020			169	286	96.7	12.1	229	2,330	---	1.14
	2/20/2008	<5	374	1,060	0.93	2.70	171	291	102	11.1	244	2,560	---	<5
	8/12/2008	<1.53	143	1,370	1.70	2.73	167	359	129.0	12.9	272	3,670	---	<1.53
	2/20/2009	<5	270	2,000	0.74	2.40	180	570	190.0	17.0	380	5,300	---	<5
	7/29/2009	<5	310	3,000	0.85	2.60	200	730	260.0	25.0	570	6,700	---	<5
	2/25/2010	<5	142	3,630	0.265	2.92	166	802	251.0	15.4	590	7,060	---	<5
	7/28/2010	<5	136	3,640	0.644	2.17	204	982	309.0	15.9	865	8,760	---	<5
	2/16/2011	<2.0	138	3,650	0.568	1.90	1,530	834	252.0	14.9	830	7,490	---	<2.0
	8/18/2011	<5.0	142	4,020	0.594	2.94	206	745	232.0	13.7	974	8,900	---	<5.0
	2/22/2012	<5.00	152	3,980	0.73	2.93	236	732	233.0	15.8	1060	11,100	---	<5.00
	8/29/2012	<10.0	171	3,210	0.791	1.79	258	603	195.0	15.0	1080	9,460	---	<10.0
	2/20/2013	<6.00	174	2,700	0.628	3.02	298	512	153.0	13.0	922	5,360	---	<6.00
	8/14/2013	<6.00	183	2,660	0.839	2.55	294	437	129.0	12.7	996	5,450	---	<6.00
	4/3/2014	<10.0	238	2,420	0.758	2.40								

Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA
MW-24 Dup Dup	2/22/2012	<5.00	101	2,910	1.71	3.11	309	806	254	24.4	263	9,240	---	<5.00
	8/24/2012	<5.00	118	3,140	1.05	3.18	309	866	263	25.1	291	9,160	---	<5.00
	2/20/2013	<6.00	97.4	2,500	0.985	3.41	277	826	233	22.7	263	4,780	---	<6.00
	2/20/2013	<6.00	97.7	2,500	0.983	3.42	281	806	224	22.9	253	4,940	---	<6.00
	8/14/2013	<6.00	94	2,250	1.21	3.66	268	790	234	24.8	261	5,540	---	<6.00
	4/3/2014	<10.0	125	1,930	1.34	3.71	286	3410	1020	108.0	1150	7,300	---	<10.0
	10/10/2014	<4.0	97	1,870	0.39	3.41	268	647	208	22.9	230	5,850	---	<4.0
	6/24/2015	---	---	1,970	<2.00	---	482	---	---	---	---	4,960	---	---
	10/6/2015	---	---	1,820	<40.0	---	280	---	---	---	---	5,390 J	---	---
	6/22/2016	---	---	1,680	1.29	---	223	---	---	---	---	4,920	---	---
	10/06/2016	---	---	1,790	0.932	---	247	---	---	---	---	4,540	---	---
	05/23/2017	---	---	1,610	0.656	---	231	---	---	---	---	2,420	---	---
	05/23/2017	---	---	1,610	0.612	---	231	---	---	---	---	3,740	---	---
	10/12/2017	---	---	1,540	0.593	---	229	---	---	---	---	3,270	---	---
	5/9/2018	---	---	1,510	1.79	---	219	---	---	---	---	2,910	---	---
	10/10/2018	---	---	1,640	0.100 U	---	286	---	---	---	---	3,520	---	---
	6/19/2019	---	---	1,660	---	---	---	---	---	---	---	6,500	---	---
	11/25/2019			1,710	<0.601		242.00					5,510	---	---
MW-25 Dup Dup	5/24/2012	<5.00	158	4,390	0.121	3.56	307	890	272	19.2	1,150	10,200	---	<5.00
	5/24/2012	<5.00	165	4,460	0.142	3.46	316	880	270	19.1	1,170	11,000	---	<5.00
	8/28/2012	<10.0	294	4,350	0.618	2.32	290	877	255	18.4	1,150	11,400	---	<10.0
	2/20/2013	<6.00	160	4,490	0.461	3.66	282	864	258	18.5	1,210	8,160	---	<6.00
	8/14/2013	<6.00	138	4,870	0.552	3.60	255	929	289	20.2	1,370	10,100	---	<6.00
	8/14/2013	<6.00	150	5,160	0.651	3.87	268	900	287	20.2	1,340	11,400	---	<6.00
	4/3/2014	<10.0	192	4,580	0.772	4.47	299	962	258	19.3	1,330	12,200	---	<10.0
	10/10/2014	<4.00	152	4,280	<0.100	4.10	299	870	270	22.5	1,250	11,400	---	<4.00
	6/24/2015	---	---	3,850	<2.00	---	751	---	---	---	---	8,080	---	---
	10/6/2015	---	---	3,340	<80.0	---	349	---	---	---	---	6,200 J	---	---
	6/22/2016	---	---	3,080	0.642	---	237	---	---	---	---	7,340	---	---
	10/06/2016	---	---	3,210	0.548	---	262	---	---	---	---	6,470	---	---
	05/23/2017	---	---	2,700	0.333 J	---	227	---	---	---	---	6,110	---	---
	10/12/2017	---	---	2,540	0.741	---	228	---	---	---	---	4,980	---	---
	5/9/2018	---	---	2,570	0.441	---	242	---	---	---	---	4,400	---	---
	10/10/2018	---	---	2,750	0.378	---	329	---	---	---	---	3,800	---	---
	6/19/2019	---	---	2,310	---	---	---	---	---	---	---	7,160	---	---
	11/24/2019			890	1.77		127.00					5,790	---	---
MW-26 Dup	5/24/2012	<5.00	200	2,320	0.858	2.45	236	241.0	75.3	11.4	1000	5,020	---	<5.00
	8/29/2012	<5.00	205	2,200	0.93	1.57	225	267.0	72.9	11.3	1140	4,940	---	<5.00
	2/21/2013	<6.00	213	1,950	0.69	2.65	240	210.0	58.7	9.8	944	3,640	---	<6.00
	8/14/2013	<6.00	215	1,930	0.94	2.46	244	174.0	59.9	10.6	913	3,700	---	<6.00
	4/3/2014	<10.0	270	1,380	1.02	2.31	273	173.0	51.0	8.8	838	3,300	---	<10.0
	10/9/2014	<4.0	223	1,390	0.56	2.71 J	272	158.0	45.3	9.5	794	3,920	---	<4.0
	6/25/2015	---	---	1,260	<2.00	---	445	---	---	---	---	2,970	---	---
	6/25/2015	---	---	1,340	<2.00	---	462	---	---	---	---	3,010	---	---
	10/6/2015	---	---	1,100	<20.0	---	270	---	---	---	---	2,310 J	---	---
	6/22/2016	---	---	948	0.970	---	238	---	---	---	---	2,330	---	---
	10/06/2016	---	---	944	1.22	---	266	---	---	---	---	2,290	---	---
	05/23/2017	---	---	764	1.15	---	227	---	---	---	---	1,820	---	---
	10/13/2017	---	---	747	1.35	---	240	---	---	---	---	1,960	---	---
	5/9/2018	---	---	666	1.36	---	212	---	---	---	---	1,820	---	---
	10/9/2018	---	---	767	1.43	---	236	---	---	---	---	1,810	---	---
	6/19/2019	---	---	685	---	---	---	---	---	---	---	1,980	---	---
	11/25/2019			789	0.79		218.00					1,840	---	---
	MW-27	5/24/2012	<5.00	138	1,270	0.838	1.02	640	405	124	22.5	330	3,660	---
8/29/2012		DRY												
2/21/2013		DRY												
8/14/2013		DRY												
4/3/2014		DRY												
10/9/2014		DRY												
10/6/2015		DRY												
6/23/2016		DRY												
10/6/2016		DRY												
05/23/2017		DRY												
10/12/2017		DRY												
5/8/2018		DRY												
10/8/2018		DRY												
6/19/2019		Not Sampled, Insufficient Water in Well												
11/25/2019	Not Sampled, Insufficient Water in Well													
MW-28 Dup Dup	08/01/2017	---	---	3,930	0.938	---	324	---	---	---	---	6,950	---	---
	08/01/2017	---	---	4,120	0.886	---	335	---	---	---	---	7,190	---	---
	10/13/2017	---	---	4,120	<0.0360	---	329	---	---	---	---	6,650	---	---
	10/13/2017	---	---	4,000	<0.0360	---	321	---	---	---	---	7,570	---	---
	5/9/2018	---	---	4,330	6.47	---	325	---	---	---	---	7,480	---	---
	5/9/2018	---	---	4,660	6.3	---	348	---	---	---	---	8,440	---	---
	10/10/2018	---	---	5,720	12.6	---	436	---	---	---	---	8,870	---	---
	6/19/2019	---	---	4,820	---	---	---	---	---	---	---	14,000	---	---
	6/19/2019	---	---	9,750	---	---	---	---	---	---	---	22,000	---	---
	11/25/2019	---	---	4,720	4.66	---	419.00	---	---	---	---	12,000	---	---
MW-29 Dup	08/01/2017	---	---	1,760	1.13	---	332	---	---	---	---	3,980	---	---
	10/13/2017	---	---	1,870	0.754	---	343	---	---	---	---	3,690	---	---
	5/9/2018	---	---	2,390	0.412	---	279	---	---	---	---	4,390	---	---
	10/9/2018	---	---	2,620	7.79	---	345	---	---	---	---	4,040	---	---
	6/19/2019	---	---	2,770	---	---	---	---	---	---	---	8,320	---	---
	6/19/2019	---	---	2,520	---	---	---	---	---	---	---	6,160	---	---
	11/25/2019	---	---	1,120	5.58	---	164.00	---	---	---	---	4,920	---	---
	11/25/2019	---	---	10,600	17.40	---	657.00	---	---	---	---	16,900	---	---
MW-30 Dup Dup	08/01/2017	---	---	10,800	1.02	---	583	---	---	---	---	18,300	---	---
	10/12/2017	---	---	10,500	17.9 J	---	584	---	---	---	---	17,900	---	---
	10/12/2017	---	---	10,700	<0.360 J	---	592	---	---	---	---	19,800	---	---
	5/9/2018	---	---	11,200	0.964	---	568	---	---	---	---	19,200	---	---
	5/9/2018	---	---	9,210	0.100 U	---	476	---	---	---	---	18,300	---	---
	10/9/2018	---	---	11,700	17.5	---	660	---	---	---	---	20,200	---	---
	6/19/2019	---	---	10,500	---	---	---	---	---	---	---	26,800	---	---
	11/25/2019	---	---	9,540	3.01	---	627.00	---	---	---	---	18,700	---	---
MW-31 Dup	11/25/2019	---	---	10,600	17.40	---	657.00	---	---	---	---	16,900	---	---
	08/01/2017	---	---	443	0.942	---	131	---	---	---	---	1,070	---	---
	10/12/2017	---	---	385	0.91	---	129	---						

Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA
West	8/22/1997	--	--	250	--	--	--	--	--	--	--	--	--	--
	2/17/1998	<2.0	370	237	--	--	134	--	--	--	--	975	96	--
	2/7/2001	<1.0	236	340	2	4.50	120	39.7	12.5	33.2	264	1,000	--	--
	5/3/2002	<1.0	214	329	1.39	4.36	116	41.9	11.9	40.9	234	--	---	<1.00
	10/14/2002	<0.1	210	337	--	--	127	39.3	9.37	35.6	290	986	--	<0.10
	12/27/2002	<0.1	198	337	---	---	134	43.1	12.5	33.2	263	997	--	<0.10
	2/18/2003	<0.1	190	354	---	---	141	33.6	9.78	23.9	152	1,010	---	<0.10
	5/30/2003	<1.0	202	353	1.54	4.16	116	48.4	13.3	35.1	283	1,050	---	<1.00
	8/25/2003	<1.0	194	351	1.5	4.08	112	49.4	13.2	38.4	265	1,066	---	<1.00
	11/7/2003	<1.0	204	327	1.65	3.98	115	51.3	13.8	38.8	235	1,100	---	<1.00
	2/5/2004	<1.0	196	345	1.66	4.09	112	51.6	14.6	41.4	235	1,074	---	<1.00
	5/6/2004	<1.00	200	339	1.44	3.83	115	53.6	14	37.3	241	1,040	---	<1.00
	8/3/2004	<0.1	186	337	---	---	147	41.7	20.1	49.1	297	717	---	<0.10
	2/11/2005	<1.00	186	417	2.44	4.47	117	75.9	21.4	43.9	241	1,128	---	<1.00
	8/4/2005	<1.00	150	526	1.54	4.16	129	87	23.6	42.2	280	1,104	---	<1.00
	2/23/2006	<10.0	150	800	0.76	4.00	110	149	44.3	47.1	257	2,390	---	<10.0
	8/25/2006	<10.0	150	1,500	<2.5	2.78	97	315	87.6	67.7	400	4,840	---	<10.0
	2/28/2007	<10	120	2,500	0.86	6.60	120	515	130	98.7	410	7,600	---	<10
	8/21/2007	<10	99.8	3,700	0.20	4.31	180	844	251	72.7	665	12,700	---	99.8
	2/20/2008	<5	119	2,780	0.54	3.43	202	662	189	81.8	564	5,850	---	<5
	8/13/2008	<5	175	1,940	1.57	3.89	227	387	119	61.8	588	5,570	---	<5
	2/19/2009	<5	180	1,700	0.67	2.80	230	330	100	51.0	550	4,300	---	<5
	7/29/2009	<5	190	1,200	0.81	3.40	240	230	74.0	37.0	400	3,200	---	<5
	7/28/2010	<5	238	541	0.99	2.69	224	128	36.6	26.0	345	1,760	---	<5
	2/16/2011	<2.0	193	417	1.10	3.56	329	91.0	24.8	20.0	263	1,300	---	<2.0
	8/18/2011	<5.0	247	322	1.36	3.66	205	68.5	18.1	15.1	232	1,220	---	<5.0
	2/22/2012	<5.00	246	312	1.34	3.28	183	68.0	18.5	15.4	221	1,080	---	<5.00
	8/29/2012	<5.00	241.0	249	1.78	2.46	169	64.1	18.6	16.2	225.0	988	---	<5.00
	2/21/2013	<6.00	243.0	226	1.34	3.78	175	56.7	16.7	14.6	212.0	872	---	<6.00
	8/14/2013	<6.00	227.0	262	1.75	3.68	190	59.0	16.4	15.3	218.0	892	---	<6.00
	4/3/2014	<10.0	281.0	235	1.41	3.07	159	48.9	15.3	14.2	201.0	680	---	<10.0
	10/9/2014	<4.00	232.0	200	0.91	0.40	158	55.2	15.4	13.9	201.0	861	---	<4.00
	6/25/2015	---	---	244	<2.00	---	183	---	---	---	---	796	---	---
	10/6/2015	---	---	215	<8.00	---	141	---	---	---	---	624 J	---	---
	6/23/2016	---	---	248	1.26	---	132	---	---	---	---	889	---	---
	10/06/2016	---	---	274	1.43	---	146	---	---	---	---	886	---	---
	05/23/2017	---	---	225	1.3	---	140	---	---	---	---	820	---	---
	10/13/2017	---	---	184	1.25	---	148	---	---	---	---	757	---	---
	5/9/2018	---	---	133	1.23	---	146	---	---	---	---	778	---	---
	10/9/2018	---	---	140	1.4	---	154	---	---	---	---	720	---	---
	6/19/2019	---	---	117	---	---	---	---	---	---	---	726	---	---
	11/24/2019			124	1.30		153.00					728	---	---
Southwest	8/22/1997	--	--	3,300	--	--	--	---	--	--	--	--	--	--
	2/17/1998	<2.0	420	2,170	--	--	255	--	--	--	--	4,719	712	--
	2/7/2001	<1.0	326	1,900	2.2	5.00	350	197	59.1	---	1,078	4,100	--	--
	5/3/2002	<1.0	272	1,490	1.38	4.51	301	200	65	46.4	744	--	--	<1.00
	10/14/2002	<0.1	330	1,330	--	--	360	110	32.5	61.5	929	3,020	--	<0.10
	12/27/2002	<0.1	308	1,280	---	---	319	107	31.9	66.8	980	3,040	--	<0.10
	2/18/2003	<0.1	289	1,290	---	---	300	104	31.3	63	918	2,910	---	<0.10
	2/18/2003	<0.1	298	1,310	---	---	299	108	32.2	58.3	812	3,040	---	<0.10
	6/2/2003	<1.0	304	1,420	2.34	5.83	282	161	45.7	49.1	935	4,070	---	<1.00
	6/2/2003	<1.0	290	1,370	2.12	5.65	287	169	54.5	45	899	3,420	---	<1.00
	8/25/2003	<1.0	310	1,190	2.25	6.10	272	117	33.6	49.7	774	3,205	---	<1.00
	8/25/2003	<1.0	200	1,260	<2.00	5.61	75.5	159	41.8	79	591	3,270	---	<1.00
	11/7/2003	<1.0	300	1,240	2.29	5.77	255	129	35.4	48.5	727	3,275	---	<1.00
	2/5/2004	<1.0	300	1,240	2.37	6.17	238	109	33.1	52.2	716	2,860	---	<1.00
	5/6/2004	<1.00	294	1,310	<3.00	6.38	231	158	30.8	53.2	780	3,180	---	<1.00
	8/3/2004	<0.1	276	1,400	---	---	264	75.1	45.2	82.4	1,660	2,550	---	<0.10
	2/11/2005	<1.00	260	2,920	1.33	9.61	230	323	94.5	84.4	1,240	5,575	---	<1.00
	8/4/2005	<1.00	226	5,290	1.55	11.70	325	691	201	101	1,980	12,000	---	<1.00
	2/23/2006	<10.0	300	3,000	---	11.00	450	373	108	77.1	896	6,300	---	<10.0
	8/25/2006	<10.0	300	3,100	<5.0	5.99	600	415	117	74.9	1,240	7,600	---	<10.0
	2/28/2007	<10	310	4,500	0.51	8.80	670	511	130	93.7	994	9,120	---	<10
	8/21/2007	<10	265	5,500	0.10	11.70	860	879	242	82.6	2,040	14,900	---	265
	2/20/2008	<5	278	5,940	0.63	9.30	896	1,010	281	120	2,300	13,100	---	<5
	8/13/2008	<5	268	5,670	4.18	8.14	775	934	237	112	2110	13,700	---	<5
	2/19/2009	<5	280	5,200	0.78	5.40	870	920	240	120	2300	13,000	---	<5
	7/29/2009	<5	260	5,300	0.96	6.10	810	790	240	110	2200	12,000	---	<5
	7/28/2010	<5	254	3,890	0.96	5.17	565	758	190	67.6	1770	8,850	---	<5
	7/28/2010	<5	274	4,050	0.89	3.98	591	667	184	67.9	1730	7,250	---	<5
	2/16/2011	<2.0	228	3,360	0.881	0.81	2,450	538	156	63.3	1,470	8,320	---	<2.0
	8/18/2011	<5.0	319	3,370	1.04	5.10	643	401	98.9	48.6	1,310	5,170	---	<5.0
	2/22/2012	<5.00	324	2,800	1.19	5.63	502	365	99.8	48.6	1,280	6,860	---	<5.00
	8/29/2012	<5.00	323	2,670	1.14	2.96	524	304	90.8	44.3	1,270	5,940	---	<5.00
	2/21/2013	<6.00	359	1,750	1.08	4.43	498	323	86.7	36.3	1,120	4,020	---	<6.00
	8/13/2013	<6.00	342	1,710	1.44	4.09	525	295	86.2	35.7	1,110	3,200	---	<6.00
	4/3/2014	<10.0	417	1,430	1.28	3.40	405	139	39.8	32.4	845	2,760	---	<10.0
	10/9/2014	<4.0	346	1,190	0.82	3.79 J	363	145	40.2	33.3	818	5,210	---	<4.0
	6/25/2015	---	---	1,360	<2.00	---	489	---	---	---	---	3,450	---	---
	10/6/2015	---	---	1,760	<40.0	---	408	---	---	---	---	2,860 J	---	---
	6/23/2016	---	---	2,390	1.14	---	358	---	---	---	---	5,620	---	---
	10/06/2016	---	---	1,310	1.44	---	323	---	---	---	---	2,550	---	---
	05/23/2017	---	---	1,260	1.31	---	273	---	---	---	---	2,320	---	---
	10/13/2017	---	---	1,200	1.28	---	254	---	---	---	---	2,800	---	---
	5/9/2018	---	---	1,090	1.16	---	234	---	---	---	---	2,630	---	---
	10/9/2018	---	---	1,050	1.18	---	253	---	---	---	---	2,220	---	---
	6/19/2019	---	---	919	---	---	---	---	---	---	---	2,460	---	---
	11/24/2019			772	2.22		260.00					2,050	---	---

Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA
WW-1	5/1/2002	<1.0	172	97	1.64	4.05	137	51.4	23.4	8.23	84.9	---	---	<1.00
	10/10/2002	<0.1	168	106	---	---	124	52.7	22.2	9.99	106	605	---	<0.10
	12/27/2002	<0.1	157	111	--	--	134	55	22.5	5.3	96	572	--	<0.10
	2/18/2003	<0.1	152	115	---	---	137	53.8	22.1	6.38	93.5	601	---	<0.10
	6/2/2003	<1.0	154	127	1.69	3.77	119	59.5	24.1	7.14	118	621	---	<1.00
	8/25/2003	<1.0	148	136	1.7	3.72	111	63	24	8.43	104	652	---	<1.00
	11/7/2003	<1.0	156	149	1.8	3.62	111	62.3	24.4	8.3	95.5	669	---	<1.00
	2/4/2004	<1.0	156	185	1.81	3.79	102	68.2	25.5	8.7	92.4	709	---	<1.00
	5/5/2004	<1.00	148	204	1.54	3.48	99.7	71.9	26.5	8.25	120	695	---	<1.00
	8/4/2004	<0.1	132	222	---	---	114	92.3	37.9	9.89	139	471	---	<0.10
	8/4/2005	NS												
	2/23/2006	NS												
	3/1/2007	<10	130	360	1.50	3.20	77.0	101	30.7	5.9	103	1,060	---	<10
	8/21/2007	NS												
	2/21/2008	<5	106	461	1.22	2.90	84.4	112	41.4	6.82	118	1,310	---	<5
	8/12/2008	NS												
	2/20/2009	<5	150	320	1.30	2.80	100	97.0	33.0	6.4	110	1,100	---	<5
	7/29/2009	NS												
	2/24/2010	<5	128	246	1.23	2.89	115	80.10	27.20	4.93	107	804	---	<5
	7/28/2010	NS												
	2/16/2011	<2.0	127	232	1.21	2.80	232	83.3	26.8	5.40	101	822	---	<2.0
	8/18/2011	NS												
	2/22/2012	<5.00	163	229	1.40	2.92	103	81.0	27.0	5.51	102	834	---	<5.00
	8/29/2012	<5.00	166	213	1.42	1.63	119	87.6	28.3	5.34	118	756	---	<5.00
	2/20/2013	<6.00	165	218	1.16	2.55	134	83.0	28.6	5.58	108	724	---	<6.00
	8/14/2013	<6.00	157	231	1.28	2.60	146	92.3	31.8	6.22	119	840	---	<6.00
	4/3/2014	<10.0	207	228	1.43	2.69	145	92.7	31.0	6.16	116	792	---	<10.0
	10/9/2014	<4.00	165	205	0.73	2.46 J	145	90.2	31.8	6.01	115	916	---	<4.00
	6/24/2015	---	---	220	<2.00	---	153	---	---	---	---	903	---	---
	6/24/2015	---	---	224	<2.00	---	156	---	---	---	---	888	---	---
	10/6/2015	---	---	230	<4.00	---	145	---	---	---	---	527 J	---	---
	10/6/2015	---	---	228	<4.00	---	141	---	---	---	---	724 J	---	---
	6/22/2016	---	---	220	0.956	---	138	---	---	---	---	873	---	---
	6/22/2016	---	---	207	0.949	---	131	---	---	---	---	813	---	---
	10/06/2016	---	---	237	1.14	---	155	---	---	---	---	950	---	---
	05/23/2017	---	---	218	0.958	---	149	---	---	---	---	744	---	---
	05/23/2017	---	---	221	0.956	---	149	---	---	---	---	722	---	---
	10/12/2017	---	---	212	0.964	---	149	---	---	---	---	845	---	---
	5/9/2018	---	---	206	0.819	---	143	---	---	---	---	828	---	---
	10/10/2018	---	---	264	0.985	---	156	---	---	---	---	781	---	---
	6/19/2019	Not Sampled, No Hydrosleve												
	11/26/2019			263	1.61		143.00					1,050	---	---
	11/26/2019			259	1.58		142.00					1,140	---	---
RW-1	10/20/2000	<1.0	330	1,500	1.7	5.20	330	107	29.6	50	843	3200	--	--
	10/14/2002	<0.1	327	1,150	--	--	340	60.3	25.5	64.3	820	2,720	--	<0.10
	12/27/2002	<0.1	294	1,300	--	--	330	123	40.3	56.8	933	3,190	--	<0.10
	2/18/2003	<0.1	300	1,150	---	---	316	79.7	25.7	53	721	2,690	---	<0.10
	6/2/2003	<1.0	276	1,500	2.05	5.34	275	194	67.21	40.8	923	4,070	---	<1.00
	8/25/2003	<1.0	298	1,190	2.01	6.15	278	117	32.7	46.1	705	2,940	---	<1.00
	11/7/2003	<1.0	298	1,300	2.13	5.56	266	166	48.1	51.7	106	3,240	---	<1.00
	2/5/2004	<1.0	292	1,270	2.22	5.92	246	148	44.7	53.8	704	2,780	---	<1.00
	5/6/2004	<1.00	310	1,100	<3.00	6.62	235	104	28.3	53.8	635	2,840	---	<1.00
	5/6/2004	<1.00	288	1,040	<3.00	6.64	243	90	24.1	44.5	642	2,705	---	<1.00
	8/4/2004	<0.1	284	1,120	---	---	290	44.8	33	86.9	785	2,250	---	<0.10
	8/4/2004	<0.1	288	1,130	---	---	274	45	31.6	84	961	2,550	---	<0.10

Table 2 - Summary of Historical Groundwater Analytical Results
Chevron Environmental Management Company
G.L. Erwin "A B" NCT 2 Tank Battery (1R-254)
Lea County, New Mexico

Monitoring Well ID	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)		NA	NA	250	1.6	10	600	NA	NA	NA	NA	1,000	NA	NA
Dup	2/11/2005	<1.00	262	1,730	3.59	8.93	217	172	51.5	84	910	3,995	---	<1.00
	2/11/2005	<1.00	268	1,690	2	8.59	224	159	46.4	81	813	3,170	---	<1.00
	8/4/2005	<1.00	252	2,470	1.26	5.80	188	262	76.1	87.5	1090.0	5,120	---	<1.00
	2/23/2006	<10.0	290	2,400	<2.5	8.90	350	234	67.6	70.4	762.0	4,680	---	<10.0
Dup	8/25/2006	<10	290	2,300	<5	4.41	440	281	77.3	68.5	1040.0	5,610	-	<10.0
	8/25/2006	<10.0	300	2,300	<5	4.60	450	272	77.3	67.1	1030.0	5,570	-	<10.0
	2/28/2007	<10	300	3,100	<0.5	3.50	590	353	97.7	82.2	848.0	7,400	---	<10
	2/28/2007	<10	290	3,200	<0.5	3.50	600	416	115	83.4	878.0	7,280	---	<10
Dup	8/21/2007	<10	265	4,100	0.30	3.54	620	656	193	72.6	1640.0	11,300	---	265
	8/21/2007	<10	263	4,100	0.10	3.38	600	655	192	72.5	1630.0	11,400	---	263
Dup	2/20/2008	<5	473	5,130	0.56	6.80	677	892	255	126	1810.0	11,000	---	<5
	2/20/2008	<5	231	5,120	0.55	6.78	674	888	252	126	1800.0	10,800	---	<5
	8/12/2008	<1.53	255.0	4,650	1.06	6.43	628	816.0	232.0	107.0	1770.0	11,000	---	<1.53
Dup	8/12/2008	<1.53	229.0	4,600	1.05	6.37	612	778.0	222.0	105.0	1740.0	10,900	---	<1.53
	2/20/2009	<5	260.0	4,600	0.69	1.40	690	680.0	200.0	84.0	1700.0	11,000	---	<5
Dup	2/20/2009	<5	240.0	4,400	0.65	4.20	630	660.0	190.0	83.0	1600.0	11,000	---	<5
	7/29/2009	<5	240.0	4,300	0.73	3.30	620	650.0	220.0	94.0	1700.0	10,000	---	<5
Dup	7/29/2009	<5	240.0	4,200	0.72	3.70	600	640.0	220.0	95.0	1700.0	9,900	---	<5
	2/25/2010	<5	263.0	4,890	0.34	4.28	650	680.0	180.0	75.6	1650.0	8,870	---	<5
Dup	7/28/2010	<5	254.0	2,920	0.77	4.98	455	442.0	132.0	59.5	1310.0	7,200	---	<5
	2/22/2012	<5.00	314.0	2,030	1.03	6.05	449	256.0	69.0	43.8	1020.0	4,860	---	<5.00
	2/22/2012	<5.00	317.0	2,080	0.96	5.39	400	239.0	69.2	43.7	943.0	4,300	---	<5.00
	8/29/2012	NS												
Dup	2/21/2013	<6.00	339.0	1,340	0.94	5.18	411	172.0	48.2	36.8	876.0	3,120	---	<6.00
	2/21/2013	<6.00	341.0	1,340	0.93	5.15	432	172.0	46.9	34.8	827.0	3,110	---	<6.00
	8/14/2013	<6.00	298.0	1,170	1.22	4.52	389	127.0	34.6	30.8	724.0	2,400	---	<6.00
Dup	8/14/2013	<6.00	311.0	1,230	1.36	4.79	416	126.0	35.5	31.1	704.0	2,480	---	<6.00
Dup	4/3/2014	<10.0	382.0	1,120	1.25	4.12	345	111.0	30.5	28.4	667.0	2,300	---	<10.0
Dup	4/3/2014	<10.0	427.0	1,280	1.23	0.58	375	114.0	30.1	29.9	652.0	1,840	---	<10.0
	10/9/2014	<4.00	318.0	867	0.84	4.32 J	293	101.0	28.1	29.9	645.0	2,190	---	<4.00
	10/9/2014	<4.00	317.0	847	0.73	4.30 J	295	101.0	27.8	29.6	640.0	2,290	---	<4.00
	6/25/2015	---	---	908	<2.00	---	326	---	---	---	---	2,550	---	---
	10/6/2015	---	---	920	<20.0	---	282	---	---	---	---	2,230 J	---	---
	6/22/2016	Unable to sample due to pump												
	10/06/2016	Unable to sample due to pump												
	05/23/2017	Unable to sample due to pump												
	10/12/2017	Unable to sample due to pump												
	5/9/2018	Unable to sample due to pump												
	10/9/2018	Unable to sample due to pump												
	6/19/2019	Not Sampled												
	11/25/2019	Not Sampled												

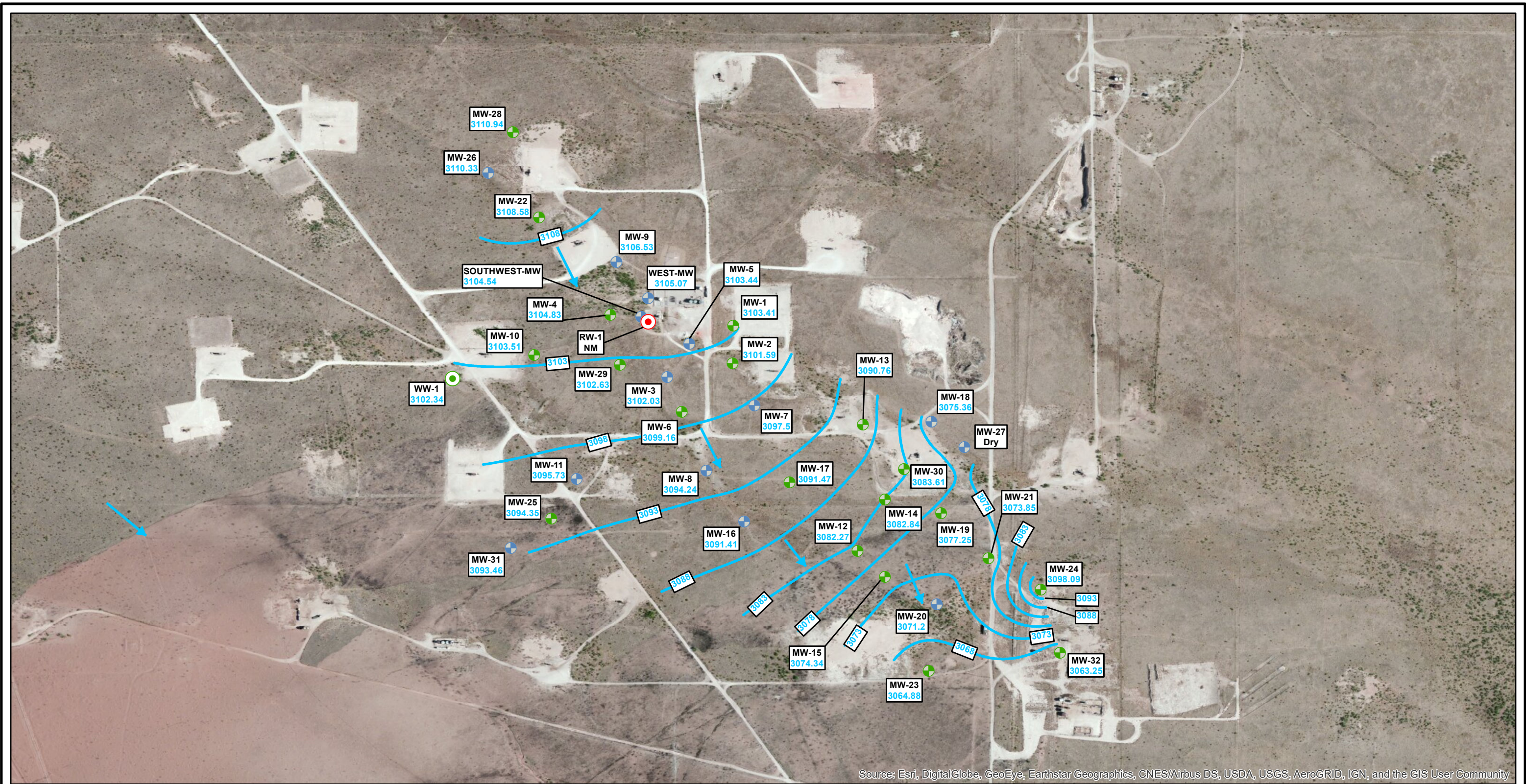
- Notes
1. mg/L: Milligrams per liter
 2. <: Concentration below test method detection limit
 3. - -: No data available
 4. NS: Not Sampled
 5. RW: Recovery well
 6. WW: Water well
 7. Detected concentrations exceeding the NMWQCC standard are bolded and highlighted
 8. DUP: Duplicate Sample
 9. J: Estimated Concentration
 10. B: This Qualifier indicates that the analyte is an estimated value between the RL and the MDL

11. All analyses prior to 10/14/02 conducted by Trace Analysis, Inc., Lubbock, TX
12. Analyses from 10/14/02 conducted by Environmental Lab of Texas, Odessa, TX
13. Analyses from 5/30/03 through 08/2005 conducted by Trace Analysis Inc., Lubbock, TX
14. Analyses from 02/2006 through 08/2007, conducted by Pace Analytical, St. Rose, LA and Greenbay, WI Laboratories
15. Analyses from 02/2008 through 08/2009, conducted by Test America, Houston, TX
16. Analyses from 02/2010 through 10/2013, conducted by ALS Environmental, Houston, TX
17. Analyses from 04/2014 to present conducted by Xenco Laboratories, Odessa, TX
18. U: Not detected above the associated reporting limit
19. NA: Not applicable

FIGURES



Document Path: \\arcadis-us\officedata\Houston-TX\ENV\Chevron\Texaco-TX\ENV\GIS - Annual GWMR\GL Erwin\GIS - GL Erwin\Figure 3 GW Map Combined 12.30.2019



Legend

- Monitoring Well Location
- Monitoring Well Location to be Sampled During Reduced Event
- Water Well Location to be Sampled During Reduced Event
- Recovery Well
- Potentiometric Contour and Elevation
- Groundwater Elevation (ft above mean sea level)
- Approximate Groundwater Flow
- Property Boundary

Notes:
1. Datum: D_WGS_1984
2. Site Location: 32.16974, -103.12893
3. NM: Not Measured
4. Monitoring Wells Highlighted Green are Proposed to be Sampled During Reduced Sampling Event (One Semi-annual Event)

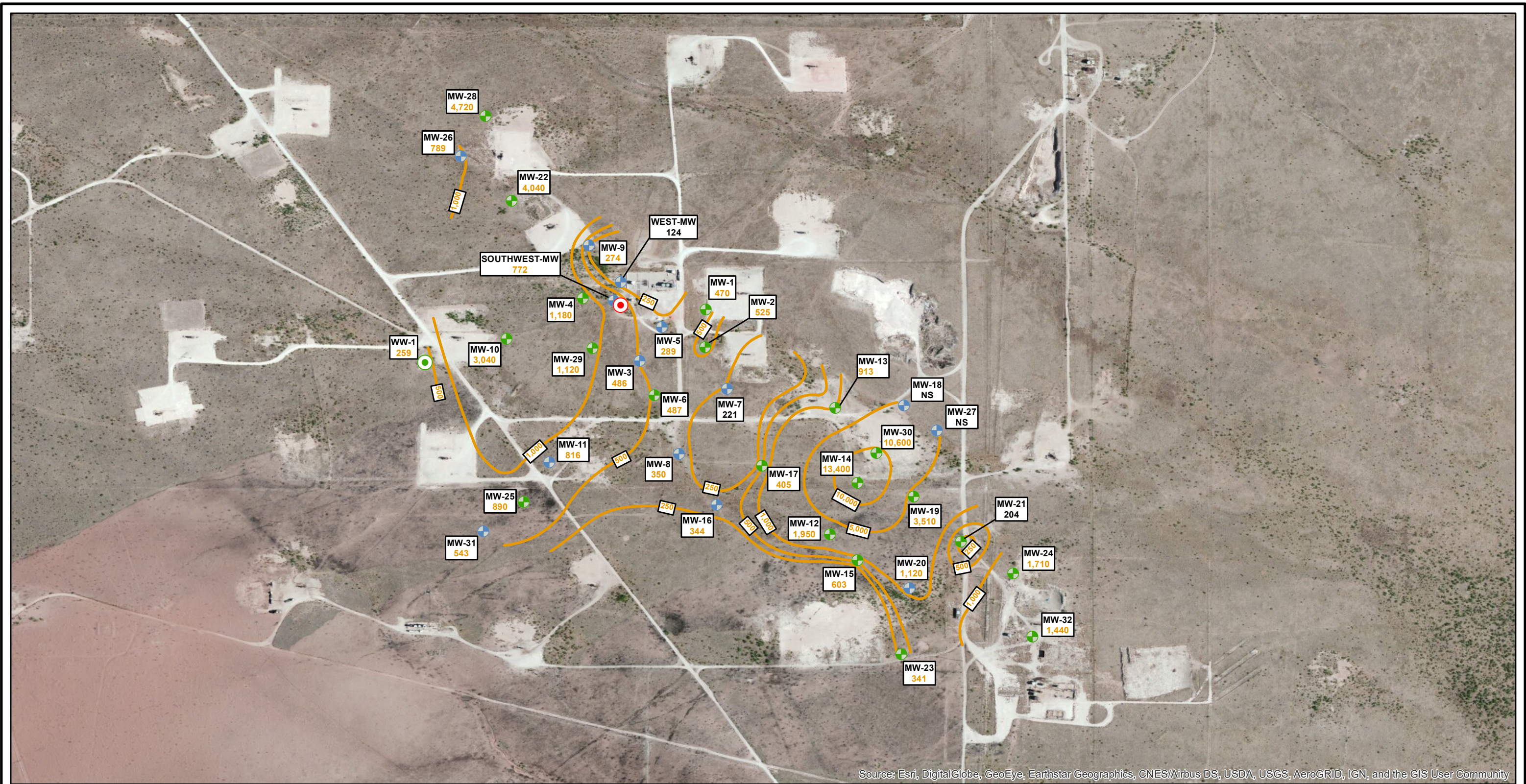
Chevron Environmental Management Company
G.L. Erwin "A&B" Federal NCT-2 Tank Battery
Lea County, New Mexico

2020 REDUCED SAMPLING PLAN
POTENTIOMETRIC SURFACE MAP
NOVEMBER 2019

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for natural and built assets

FIGURE
1

Document Path: \\arcadis-us\office\data\Houston-TX\ENVI\Chevron\Texaco TX\HES Transfer\04 Field Investigations\20196 - Annual GWMR\GL Erwin\GIS - GL Erwin\Figure 4 Chloride Map Combined 12.30.2019.mxd



Legend

- Monitoring Well Location
- Monitoring Well Location to be Sampled During Reduced Event
- Water Well Location to be Sampled During Reduced Event
- Recovery Well Location
- Chloride Isoconcentration Contour
- Chloride Concentration in milligrams per liter (mg/L)
- 359 Chloride Concentration (mg/L) Exceeds NMWQCC Other Standards for Domestic Water Supply
- Property Boundary

Notes:
1. Datum: D_WGS_1984
2. Site Location: 32.16974, -103.12893
3. NS: Not Sampled
4. Monitoring Wells Highlighted Green are Proposed to be Sampled During Reduced Sampling Event (One Semi-annual Event)

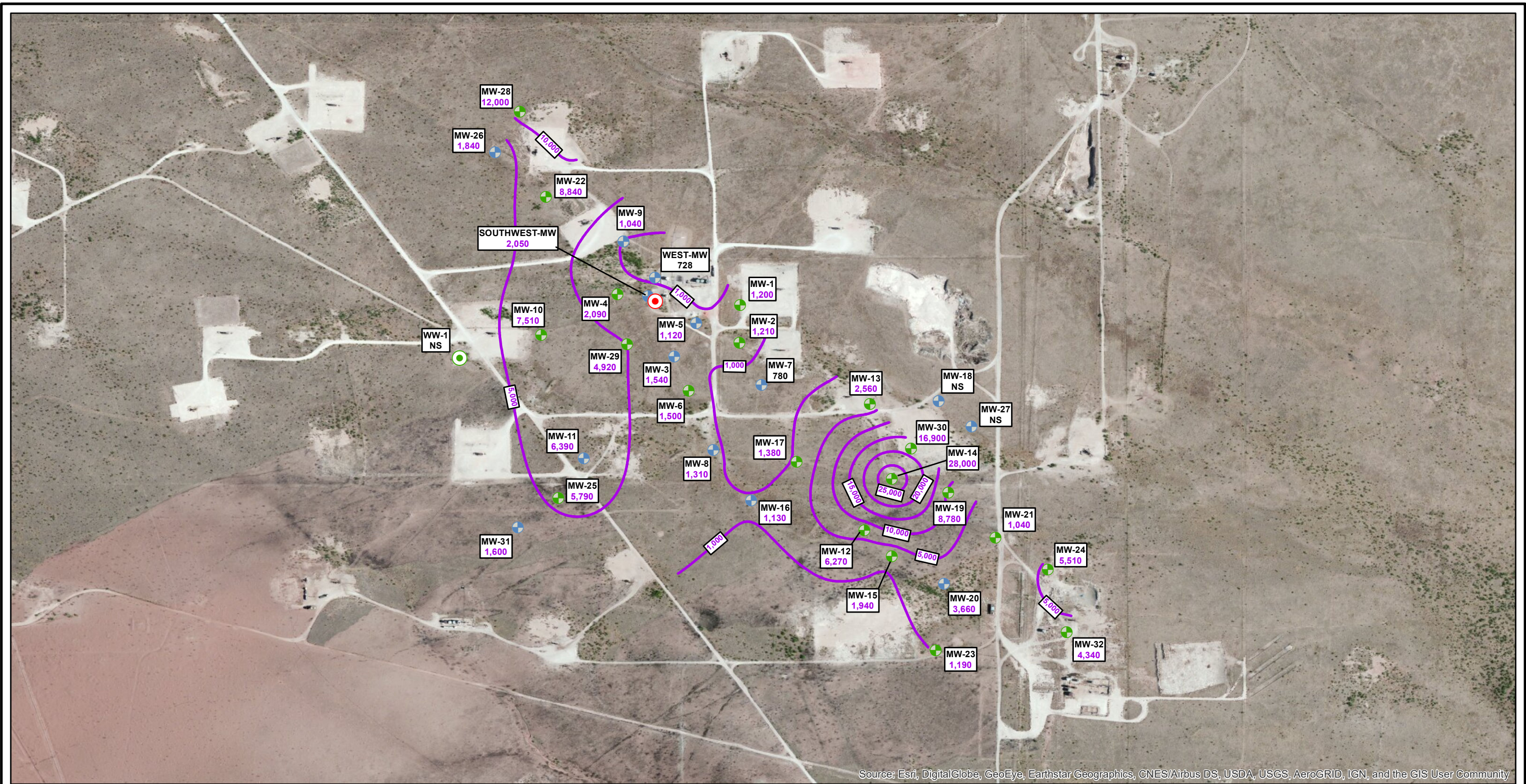
Chevron Environmental Management Company
G.L. Erwin "A&B" Federal NCT-2 Tank Battery
Lea County, New Mexico

**2020 REDUCED SAMPLING PLAN
CHLORIDE ISOCONCENTRATION MAP
NOVEMBER 2019**

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FIGURE
2

Document Path: \\arcadis-us\officedata\Houston-TX\ENVI\Chevron\Texaco TX\HES Transfer\04 Field Investigations\2019\6 - Annual GWMR\GL Erwin\GIS - GL Erwin\Figure 5 TDS Map Combined 12.30.2019.mxd



Legend

- | | | | |
|--|---|--------------|---|
| | Monitoring Well Location | 780 | TDS Concentration in milligrams per liter (mg/L) |
| | Monitoring Well Location to be Sampled During Reduced Event | 1,210 | TDS Concentration (mg/L) Exceeds NMWQCC Other Standards for Domestic Water Supply |
| | Water Well Location to be Sampled During Reduced Event | | |
| | Recovery Well Location | | |
| | Total Dissolved Solids (TDS) Isoconcentration Contour | | |

- Notes:
1. Datum: D_WGS_1984
 2. Site Location: 32.16974, -103.12893
 3. NS: Not Sampled
 4. Monitoring Wells Highlighted Green are Proposed to be Sampled During Reduced Sampling Event (One Semi-annual Event)

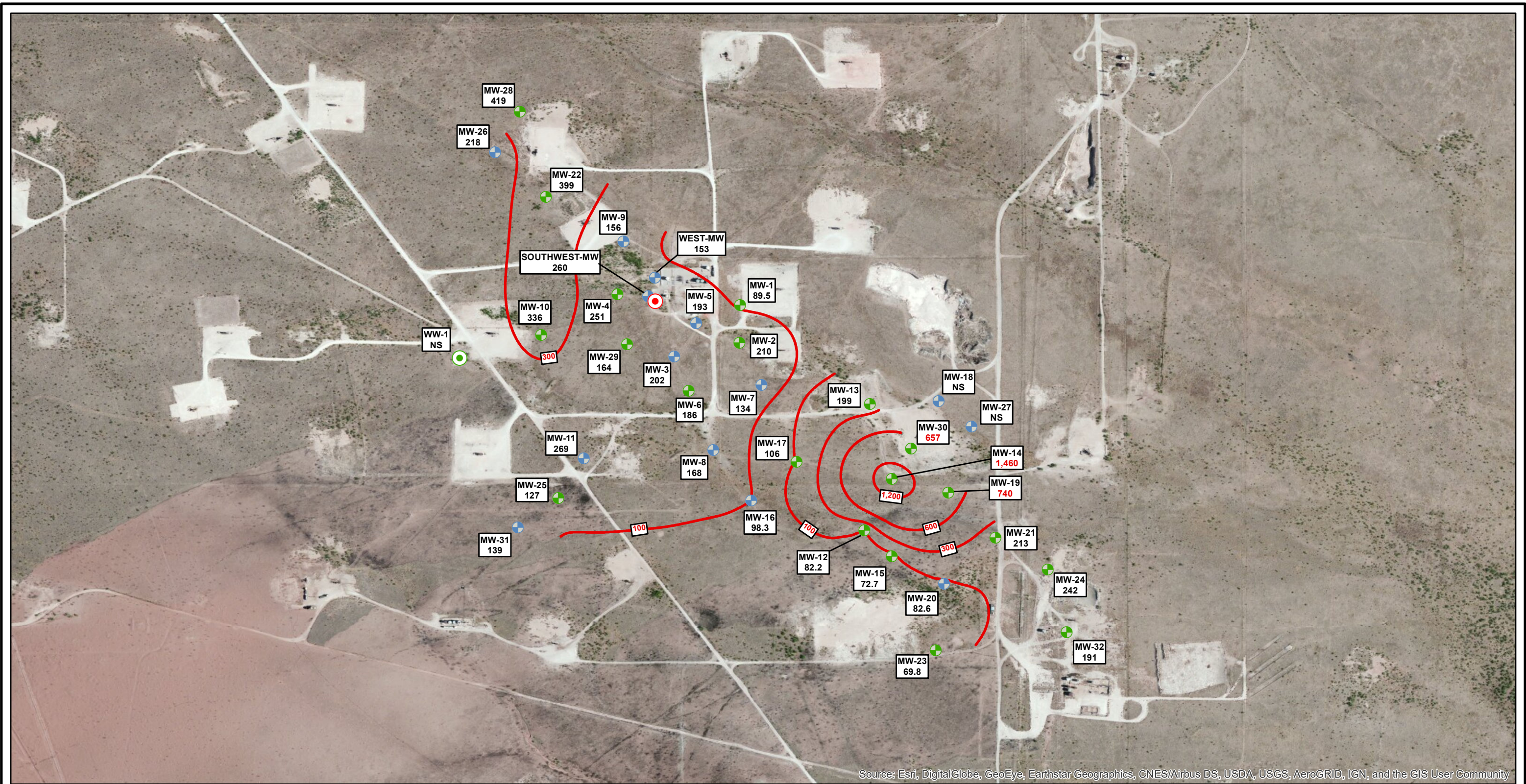
Chevron Environmental Management Company
G.L. Erwin "A&B" Federal NCT-2 Tank Battery
Lea County, New Mexico

**2020 REDUCED SAMPLING PLAN
TDS ISOCONCENTRATION MAP
NOVEMBER 2019**

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FIGURE
3

Document Path: \\arcadis-us\officedata\Houston-TX\ENV\Chevron\Texaco TX\HES Transfer\04 Field Investigations\2019\6 - Annual GWMR\GL Erwin\GIS - GL Erwin\Figure 6 Sulfate Map Combined 12.30.2019.mxd



Legend

- Monitoring Well Location
- Monitoring Well Location to be Sampled During Reduced Event
- Water Well Location to be Sampled During Reduced Event
- Recovery Well Location
- Sulfate Isoconcentration Contour

780 Sulfate Concentration in milligrams per liter (mg/L)
1,210 Sulfate Concentration (mg/L) Exceeds NMWQCC
Other Standards for Domestic Water Supply

- Notes:
1. Datum: D_WGS_1984
 2. Site Location: 32.16974, -103.12893
 3. NS: Not Sampled
 4. Monitoring Wells Highlighted Green are Proposed to be Sampled During Reduced Sampling Event (One Semi-annual Event)

Chevron Environmental Management Company
G.L. Erwin "A&B" Federal NCT-2 Tank Battery
Lea County, New Mexico

2020 REDUCED SAMPLING PLAN SULFATE ISOCONCENTRATION MAP NOVEMBER 2019

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FIGURE
4

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Dylan M. Fuge
Deputy Secretary

Dylan Fuge, Division Director (Acting)
Oil Conservation Division



Spencer Jackson
Scout Energy Partners, LLC
13800 Montfort Dr.
Dallas, TX 75240

February 20, 2024

RE: Approval for the Proposed Groundwater Monitoring Reduction Workplan at the G.L. Erwin "A&B" NCT 2 Tank Battery, Case No. (1R-254), Incident ID nAUTOfAB000198

Mr. Jackson,

The Oil Conservation Division (OCD) has received a Proposed Groundwater Monitoring Reduction Workplan submittal prepared for Chevron, LLC by Arcadis, and now divested to Scout Energy Partners. The NMOCD has reviewed the plan and determined it to be satisfactory for *partial approval* with the following conditions:

1. Submit a Stage 2 Abatement Plan proposal within sixty (60) days of receipt of this letter and follow guidance under: 19.15.30.13 paragraph (D) for the submission.
2. Submit a work plan to install replacement monitoring wells for MW-18, MW-27 and/or a contingency plan for sampling wells that are dry at time of sampling.
3. Either identify or install background monitoring wells upgradient of site as written proposal specifies with subject title **G.L Erwin "A & B" Federal NCT-2 Tank Battery-Requested Project Changes** and dated 12/15/2014
4. Request to reduce sampling COCs will *not* be approved until background monitoring wells have been identified or installed with analysis for TDS, Fluoride, Chloride and Sulfate.

If you have any questions, please contact Mike Buchanan of the Environmental Incident Group at (505) 490-0798 or by email at michael.buchanan@emnrd.nm.gov.

Respectfully,

Rosa M. Romero

Rosa Romero Environmental
Bureau Chief
RR/mb

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1625 N. French Dr., Hobbs, NM 88240
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 9291

CONDITIONS

Operator: Arcadis U.S., Inc 630 Plaza Drive Highlands Ranch, CO 80129	OGRID: 329073
	Action Number: 9291
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Proposed Monitoring Workplan is approved with conditions; Letter of Determination issued and attached at the end of this document. 1.The following wells may be removed from the second semi-annual sampling event: MW-3, MW-5, MW-7, MW-8, MW-9, MW-11, MW-16, MW-18, MW-20, MW-26, MW-27, MW-31, RW-1 and the West and Southwest monitoring wells. 2. The COCs must be established by confirmed background monitoring wells before any COCs can be considered for removal from requested list.	2/20/2024