

APPENDIX K
DATA PACKAGE

Soil Analytical Summary - 29-B Analyses																																
Castex Development, LLC v. Anadarko Petroleum Corporation, et al. 31st Judicial District Court, Docket No. C-050220 Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West West Mermentau Oil and Gas Field Jefferson Davis Parish, Louisiana LDENR OC Legacy Project No. 031-027 HET Project No. 1009.A75																																
Table 1 Page 1 of 12																																
Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵												Additional Parameters			
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg,mg/L	mg/Kg,mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A
HA-1 (0-2')	06/29/21	ICON	—	—	—	0.30	2.03	2.05	1.02	0.31	1.66	—	22.8	—	—	—	5.02	—	339	559	—	<0.460	11.1	15.2	<0.107	<3.68	—	26.6	9.69	—	—	15.7
HA-1 (0-2')	06/29/21	ERM	—	—	—	0.36	1.8	3.26	0.989	<0.410	2.29	—	20.5	—	—	—	3.01	—	168	<500	—	<0.200	10.9	8.06	0.0236	<1.00	<0.500	—	14.1	70.9	7.71	15.8
HA-1 (2-4')	06/29/21	ICON	—	—	—	0.34	6.04	3.08	0.5	0.57	2.25	—	34.7	—	—	—	4.05	—	421	759	—	<0.494	10.1	11.2	<0.105	<3.95	—	17.7	14.1	—	—	18.5
HA-1 (2-4')	06/29/21	ERM	—	—	—	0.294	5.45	8.60	0.18	<0.410	2.58	—	24.5	—	—	—	3.64	—	196	<500	—	<0.200	10.6	17.3	0.0208	<1.00	<0.500	—	12.6	110	7.62	21.8
HA-1 (4-6')	06/29/21	ICON	—	—	—	0.32	7.90	2.91	0.6	0.32	1.97	—	41.1	—	—	—	4.71	—	283	506	—	<0.458	11.4	10.7	<0.0995	<3.66	—	16.6	22.7	—	—	20.5
HA-1 (4-6')	06/29/21	ERM	—	—	—	0.321	6.33	9.29	0.174	<0.410	2.74	—	35.1	—	—	—	3.51	—	226	<500	—	<0.200	10.1	8.74	0.0197	<1.00	<0.500	—	19.9	120	7.72	24.8
HA-2 (0-2')	06/29/21	ICON	—	—	—	2.46	25.5	19.5	1.31	0.52	18.7	—	33.5	—	—	—	5.60	—	3768	39100	—	<0.472	36.9	56.6	<0.105	<3.78	—	177	27.0	—	—	18.8
HA-2 (0-2')	06/29/21	ERM	—	—	—	3.71	21.1	35.3	1.56	<0.820	31.2	—	20.1	—	—	—	6.62	—	2530	3520	—	<0.200	35.1	119	0.0649	<1.00	<0.500	—	42.4	101	8.22	20.3
HA-2R (0-2)	04/23/25	HET	6.71	159	—	1.33	Pending	18.9	0.516	0.289	12.0	—	Pending	3.2	2.33	Pending	—	—	1570	3250	5.58	—	20.2 / 0.339	17.1 / 0.0936	—	—	—	—	—	128	8.04	16.4
HA-2 (2-4')	06/29/21	ICON	—	—	—	3.64	39.7	31.2	1.19	0.52	28.9	—	35.2	—	—	—	4.52	—	3348	30800	—	<0.479	30.1	42.0	<0.108	<3.83	—	130	24.1	—	—	19.9
HA-2 (2-4')	06/29/21	ERM	—	—	—	5.80	21.6	64.9	1.21	<1.64	50.5	—	22.5	—	—	—	9.98	—	1040	14200	—	<0.200	146	200	0.0452	<1.00	<0.500	—	93.6	183	8.17	23.8
HA-2R (2-4)	04/23/25	HET	22.8	751	—	3.13	—	—	0.774	0.333	29.0	—	—	2.3	4.23	Pending	—	—	355	456	—	—	17.9	15.9	—	—	—	—	—	121	7.88	19.9
HA-2 (4-6')	06/29/21	ICON	—	—	—	4.42	33.2	36.5	1.31	0.64	36	—	40.2	—	—	—	3.82	—	1237	2920	—	<0.492	11.0	12.7	<0.101	<3.94	—	86.0	15.8	—	—	18.1
HA-2 (4-6')	06/29/21	ERM	—	—	—	5.09	28.4	36.3	2.9	<1.64	43.7	—	25.9	—	—	—	2.83	—	1130	2620	—	<0.200	12.0	9.88	0.026	<1.00	<0.500	—	14.9	223	8.35	21.4
HA-2R (6-8')	04/23/25	ICON	—	1690	—	5.82	—	—	—	—	—	—	—	—	—	—	4.82	—	1030	1730	—	<0.386	15.2	18.7	<0.0981	—	—	148	17.7	—	—	22.8
HA-2R (8-10)	04/23/25	HET	85.6	2410	101	9.37	—	—	2.49	1.09	87.4	148	—	2.2	1.01	Pending	—	—	1100	2410	—	—	25.8	25	—	—	—	—	—	113	7.91	27.1
HA-2R (8-10)	04/23/25	ICON	—	3990	—	13.6	—	—	—	—	—	—	—	—	—	—	4.22	—	1680	3260	—	<0.365	21.3	25.6	<0.0953	—	—	235	16.2	—	—	26.9
HA-2R (10-12)	04/23/25	HET	28.5	2230	—	3.44	—	—	0.38	0.137	32.3	—	—	3.4	0.264	Pending	—	—	312	605	7.85	—	18.6	12.5	—	—	—	—	—	366	8.33	28.5
HA-2R (10-12)	04/23/25	ICON	—	2150	—	3.67	—	—	—	—	—	—	—	—	—	—	5.62	—	290	490	—	<0.393	12.3	11.0	<0.0936	—	—	157	24.2	—	—	20.9
HA-2R (14-16)	04/23/25	HET	62.3	2340	103	6.77	—	—	1.48	0.758	62.8	128	—	1.8	0.293	—	—	—	137	207	—	—	16.1	8.06	—	—	—	—	—	178	7.89	23.8
HA-2R (14-16)	04/23/25	ICON	—	1410	—	4.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.4
HA-2R (18-20)	04/23/25	ICON	—	656	—	1.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.6
HA-2R (22-24)	04/23/25	HET	18.1	414	—	2.31	—	—	0.377	0.15	21.6	—	—	2.9	0.113	—	—	—	90.3	164	—	—	18	8.2	—	—	—	—	—	146	8.17	25
HA-2R (22-24)	04/23/25	ICON	—	353	—	1.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.6
HA-2R (28-30)	04/23/25	HET	20.1	204	—	2.38	—	—	4.43	2.57	15	—	—	1.0	0.258	—	—	—	54	135	—	—	7.93	3.78	—	—	—	—	—	38.9	7.42	19.3
HA-2R (28-30)	04/23/25	ICON	—	275	—	2.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.3
HA-3 (0-2')	06/29/21	ICON	—	—	—	0.91	22.5	8.94	0.74	0.45	6.89	—	39.8	—	—	—	4.36	—	249	478	—	<0.461	8.84	8.12	<0.104	<3.69	—	111	22.9	—	—	20.4
HA-3 (0-2')	06/29/21	ERM	—	—	—	2.06	36.7	27.5	0.906	<																						

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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity														Oil & Grease	Metals ⁵														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate	Total Arsenic		SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B		6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G	
			meq/L	mg/Kg	mg/L	mmhos/ cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%		mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg,mg/L	mg/Kg,mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
HA-4 (0-2')	06/29/21	ICON	—	—	—	2.36	12.2	12	3.14	0.94	17.1	—	34.8	—	—	—	4.43	—	2759	19100	—	<0.472	22.1	17.1	<0.102	<3.78	—	142	49.9	—	—	24.2		
HA-4 (0-2')	06/29/21	ERM	—	—	—	2.14	7.12	14.6	2.68	<0.820	16.9	—	25	—	—	—	5.88	—	1410	13100	—	0.44	89.1	33.4	0.122	1.37	0.851	—	378	100	8.13	26.3		
HA-4 (2-4')	06/29/21	ICON	—	—	—	2.01	22.6	15.1	1.31	0.69	15	—	38.9	—	—	—	4.24	—	1039	2330	—	<0.469	14.8	12.1	<0.104	<3.76	—	78.9	28.8	—	—	21.9		
HA-4 (2-4')	06/29/21	ERM	—	—	—	3.51	17.6	23.1	3.16	<1.64	29	—	25.7	—	—	—	4.35	—	1160	1250	—	<0.200	18.5	18.8	0.034	<1.00	<0.500	—	37.3	180	8.19	23		
HA-4 (4-6')	06/29/21	ICON	—	—	—	3.65	32.8	24	1.83	0.9	28.1	—	40.2	—	—	—	4.03	—	1183	2480	—	<0.476	14.3	11.3	<0.0981	<3.81	—	102	28.4	—	—	22.7		
HA-4 (4-6')	06/29/21	ERM	—	—	—	5.79	22.5	55	1.65	<1.64	50	—	25.3	—	—	—	3.59	—	557	2100	—	<0.200	7.94	7.55	0.017	<1.00	<0.500	—	15.5	144	8.02	29.5		
HA-5 (0-2')	06/29/21	ICON	—	—	—	1.28	4.30	4.72	3.16	1.1	6.89	—	43.4	—	—	—	5.24	—	2334	4850	—	<0.491	68.0	23.7	0.131	<3.93	—	359	122	—	—	29.7		
HA-5 (0-2')	06/29/21	ERM	—	—	—	0.808	2.80	3.29	2.43	0.86	4.22	—	26.1	—	—	—	7.00	—	1930	6030	—	0.297	119	36.7	0.161	<1.00	0.756	—	179	89.7	7.71	30.9		
HA-5 (2-4')	06/29/21	ICON	—	—	—	1.14	3.40	4.75	2.55	1.32	6.6	—	33.1	—	—	0.92	4.77	—	3084	30700	—	0.535	53.4	40.2	0.170	<3.96	—	258	136	—	—	27.1		
HA-5 (2-4')	06/29/21	ERM	—	—	—	4.83	4.54	7.38	2.24	<1.64	7.81	—	18.8	—	—	0.83	4.51	—	899	68900	—	0.922	73.1	59.6	0.224	<1.00	0.576	—	242	86.5	7.69	31.7		
HA-5 (4-6')	06/29/21	ICON	—	—	—	5.40	13.0	12.9	14.2	0.65	35.2	—	38.1	—	—	3.27	3.30	—	2282	11700	—	0.325	19.8	26.1	0.119	<3.90	—	70.2	62.6	—	—	37.3		
HA-5 (4-6')	06/29/21	ERM	—	—	—	4.85	9.12	13.6	11.7	<1.64	33	—	25.7	—	—	3.30	4.89	—	772	10600	—	0.268	94.7	26.5	0.147	1.46	0.655	—	166	99.9	9.12	44.1		
HA-6 (0-2')	06/30/21	ICON	—	—	—	1.07	1.1	1.74	5.39	1.83	3.31	—	23.1	—	—	—	5.86	—	2903	13700	—	0.492	85.6	32.6	0.0982	<3.73	—	466	159	—	—	16.1		
HA-6 (0-2')	06/30/21	ERM	—	—	—	0.528	0.869	1.28	2.59	0.933	1.7	—	16.8	—	—	—	3.34	—	2190	14300	—	<0.200	24	20.3	0.0369	<1.00	<0.500	—	36.4	63.5	8.00	19.2		
HA-6 (2-4')	06/30/21	ICON	—	—	—	1.18	6.91	6.82	1.48	1.1	7.74	—	35.8	—	—	—	3.42	—	458	1050	—	<0.469	9.04	10.4	<0.0973	<3.75	—	23.1	13.2	—	—	17.1		
HA-6 (2-4')	06/30/21	ERM	—	—	—	0.711	4.21	9.62	0.54	<0.820	5	—	25.3	—	—	—	2.33	—	444	899	—	<0.200	11.2	12.2	0.025	<1.00	<0.500	—	15.2	101	6.29	18.8		
HA-6 (4-6')	06/30/21	ICON	—	—	—	0.7	9.05	5.25	1.07	0.62	4.83	—	33.1	—	—	—	2.71	—	454	699	—	<0.485	8.52	10.8	<0.103	<3.88	—	27.4	15.2	—	—	13.9		
HA-6 (4-6')	06/30/21	ERM	—	—	—	0.748	7.96	7.15	1.53	<0.820	6.25	—	23.2	—	—	—	2.17	—	261	850	—	<0.200	8.8	5.2	0.0273	<1.00	<0.500	—	15.8	114	7.68	16.1		
HA-7 (0-2')	06/30/21	ICON	—	—	—	0.71	1.06	2.05	3.37	1.33	3.14	—	32.3	—	—	—	4.23	—	2544	12600	—	<0.498	25.7	27.7	0.0900	<3.99	—	93.3	76.5	—	—	17.4		
HA-7 (0-2')	06/30/21	ERM	—	—	—	0.478	1.18	1.57	2.17	0.859	1.93	—	18.8	—	—	—	3.9	—	1870	7890	—	0.469	40.3	38.3	0.172	<1.00	<0.500	—	120	70.7	8.12	16.3		
HA-7 (2-4')	06/30/21	ICON	—	—	—	0.9	8.16	5.93	1.23	0.85	6.04	—	35.5	—	—	—	3.73	—	383	823	—	<0.499	8.38	11.6	<0.105	<3.99	—	20.2	12.7	—	—	15.6		
HA-7 (2-4')	06/30/21	ERM	—	—	—	0.917	5.89	11.3	0.722	<0.820	6.78	—	20.4	—	—	—	3.31	—	497	900	—	<0.200	12.8	5.47	0.035	<1.00	<0.500	—	23.0	85.3	7.87	18		
HA-7 (4-6')	06/30/21	ICON	—	—</																														

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			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G			
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg,mg/L	mg/Kg,mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%		
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A				
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A				
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	390	390	N/A	23000	N/A	N/A	N/A					
HA-10 (0-2)	08/02/24	ERM	—	74.0	—	0.483	6.4	9.78	0.172	0.13	3.8	—	30.8	—	—	—	4.08	—	764	2910	—	<0.200	19.8	10.8	<0.0171	1.16	<0.500	30.8	34.8	100	—	22.4				
HA-10 (0-2)	08/02/24	ICON	—	75.4	—	0.51	7.26	7.47	0.51	0.39	5.01	—	37.4	—	—	—	3.03	—	866	1760	—	<0.406	11.5	9.26	<0.0979	—	—	25.9	16.2	—	—	17.4				
HA-10R (0-2)	04/25/25	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Pending	—	Pending	—	—	—	—	—	—	—	—	—	—	—				
HA-10R (0-2)	04/25/25	ICON	—	29.5	—	0.26	—	—	—	—	—	—	—	—	—	—	3.32	—	1010	2400	—	<0.415	10.8	9.90	<0.0963	—	—	28.0	14.3	—	—	16.9				
HA-10 (2-4)	08/02/24	ERM	—	268	—	1.42	13.6	17.4	0.519	0.366	11.6	—	33.1	—	—	—	3.85	—	137	386	—	<0.200	17.8	10.7	<0.0171	<1.00	<0.500	20.4	36.4	145	—	18.3				
HA-10 (2-4)	08/02/24	ICON	—	256	—	1.36	23.9	15.2	0.75	0.89	13.7	—	25.8	—	—	—	2.97	—	209	421	—	<0.411	10.7	8.87	<0.107	—	—	18.3	17.6	—	—	15.7				
HA-10 (4-6)	08/02/24	ERM	—	385	—	1.68	16.1	21.4	0.48	0.362	13.9	—	33.2	—	—	—	4.21	—	256	392	—	<0.200	18.8	12.3	<0.0176	<1.00	<0.500	22.9	32.8	144	—	16.5				
HA-10 (4-6)	08/02/24	ICON	—	251	—	1.08	23.4	12.0	0.69	0.64	9.77	—	30.1	—	—	—	2.53	—	230	351	—	<0.420	10.7	9.17	<0.0952	—	—	18.8	17.6	—	—	14.1				
CD-1 (0-2')	02/23/22	ICON	—	31.9	—	0.33	0.52	0.81	1.5	0.6	0.83	—	14.5	—	—	—	4.11	—	5059	13000	—	<0.463	8.62	14.1	<0.0923	—	—	34.5	11.6	—	—	9.50				
CD-1 (0-2')	02/23/22	ERM	—	7.84	—	0.56	0.4	1.77	1.44	0.775	1.86	—	13.1	—	—	—	2.66	—	2780	16200	<0.0277	<0.200	7.3	13.3	0.0190 H	<1.00	<0.500	—	11.1	52.4	6.22	11.3				
CD-1R (0-2')	04/30/25	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1180	17700	0.502	—	—	—	—	—	—	—	—	—	—	8.87				
CD-1R (0-2')	04/30/25	ICON	—	—	—	1.60	—	—	—	—	—	—	—	—	—	—	—	—	3290	15300	—	—	—	—	—	—	—	—	—	—	—	8.00				
CD-1 (4-6')	02/23/22	ICON	—	117	—	0.58	4.49	4.57	0.66	0.46	3.43	—	27.2	—	—	—	3.25	—	148	1050	—	<0.492	9.15	8.00	<0.107	—	—	12.5	11.0	—	—	13.7				
CD-1 (4-6')	02/23/22	ERM	—	9.32	—	0.243	3.6	9.51	0.061	<0.410	1.66	—	25.1	—	—	—	3.70	—	115	<500	—	<0.200	12.7	9.54	0.0312 H	<1.00	<0.500	—	16.8	93.2	6.40	15.6				
CD-1 (10-12')	02/23/22	ICON	—	34.6	—	0.37	2.5	2.02	0.94	0.63	1.79	—	36.6	—	—	—	6.26	—	263	1460	—	<0.472	12.5	10.6	<0.102	—	—	22.8	35.4	—	—	19.1				
CD-1 (10-12')	02/23/22	ERM	—	11.2	—	0.371	3.00	5.21	0.53	<0.410	2.68	—	32	—	—	—	<5.00	—	165	507	—	<1.00	13.2	4.92	<0.0155 H	<5.00	<2.50	—	27.0	81.6	7.35	22.6				
CD-1 (22-24')	02/23/22	ICON	—	34	2.81*	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24				
CD-1 (22-24')	02/23/22	ERM	—	6.17	<0.400	0.414	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	88.6	—	25.7				
CD-1 (36-38')	02/23/22	ICON	—	18.7	3.16*	0.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.2				
CD-1 (36-38')	02/23/22	ERM	—	7.71	<0.400	0.368	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.3	—	23.2				
CD-1 (46-48')	02/23/22	ICON	—	39.1	—	0.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.1				
CD-1 (46-48')	02/23/22	ERM	—	7.32	—	0.569	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.8	—	24.7				
CD-1 (56-58')	02/24/22	ICON	—	60	4.06*	0.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.3				
CD-1 (56-58')	02/24/22	ERM	—	8.93	0.516	0.685	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	—	19.4				
CD-2 (14-16')	03/03/22	ICON	—	7120	—	16.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.9				
CD-2 (14-16')	03/03/22	ERM	—	5560	261	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—													

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Table 1																																		
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G	
			meq/L	mg/Kg	mg/L	mmhos/ cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L		%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg,mg/L	mg/Kg,mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
CD-3 (18-20')	03/08/22	ICON	—	2440	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.3		
CD-3 (18-20')	03/08/22	ERM	—	2930	107	5.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	217	—	20.8		
CD-3 (28-30')	03/08/22	ICON	—	4170	—	28.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.6		
CD-3 (28-30')	03/08/22	ERM	—	4640	—	34.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.2	—	23.7		
CD-3 (44-46')	03/08/22	ICON	—	7470	—	24.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30		
CD-3 (44-46')	03/08/22	ERM	—	9870	—	30.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	99.1	—	41.3		
CD-3 (52-54')	03/08/22	ICON	—	4850	—	24.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.9		
CD-3 (52-54')	03/08/22	ERM	—	4490	188	17.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.7	—	30.1		
CD-3 (60-62')	03/09/22	ICON	—	620	—	4.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.2		
CD-3 (60-62')	03/09/22	ERM	—	546	—	3.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	55.5	—	23		
CD-3 (64-66')	03/09/22	ICON	—	365	—	2.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.2		
CD-3 (64-66')	03/09/22	ERM	—	352	14	2.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.6	—	26.8		
CD-4 (8-10')	03/09/22	ICON	—	4320	—	23.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17.9		
CD-4 (8-10')	03/09/22	ERM	—	5030	238	27.4	23	26.5	73.9	35.4	196	—	14.4	—	—	—	4.93	—	86	<500	—	<0.200	7.39	4.67	<0.0144	<1.00	<0.500	—	16.1	43.8	7.12	20.4		
CD-4 (22-24')	03/09/22	ICON	—	704	291*	1.54	40.9	18.3	0.78	0.34	13.7	—	44.1	—	—	—	7.11	—	301	593	—	<0.481	13.1	10.4	<0.103	—	—	141	42.1	—	—	22.7		
CD-4 (22-24')	03/09/22	ERM	—	954	—	3.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	213	—	22.7			
CD-4 (32-34')	03/09/22	ICON	—	76.6	—	1.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.9		
CD-4 (32-34')	03/09/22	ERM	—	54.8	—	1.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38.1	—	25.1		
CD-4 (46-48')	03/10/22	ICON	—	812	—	3.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24		
CD-4 (46-48')	03/10/22	ERM	—	834	—	6.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60	—	28.1		
CD-4 (56-58')	03/10/22	ICON	—	1880	—	6.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30.7		
CD-4 (56-58')	03/10/22	ERM	—	1430	70	7.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	102	—	32.2		
CD-4 (66-68')	03/10/22	ICON	—	77.1	—	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27.7		
CD-4 (66-68')	03/10/22	ERM	—	26.4	—	0.811	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48.7	—	25.2		

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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity															Metals ⁵																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture				
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G				
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%			
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A				
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A				
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A				
CD-5 (26-28')	03/14/22	ICON	—	155	—	0.82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.7				
CD-5 (26-28')	03/14/22	ERM	—	70.1	—	0.878	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	111.8	—	22.1				
CD-5 (38-40')	03/14/22	ICON	—	186	—	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.9				
CD-5 (38-40')	03/14/22	ERM	—	27.3	—	0.882	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.2	—	23.6				
CD-5 (52-54')	03/14/22	ICON	—	145	—	0.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9				
CD-5 (52-54')	03/14/22	ERM	—	56.8	—	0.878	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.5	—	21				
CD-5 (56-58')	03/14/22	ICON	—	2500	—	9.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17.3				
CD-5 (56-58')	03/14/22	ERM	—	1620	—	14.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.1	—	21.5				
CD-5 (60-62')	03/14/22	ICON	—	5340	—	18.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.5				
CD-5 (60-62')	03/14/22	ERM	—	3840	194	19.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	91.3	—	33.1				
CD-5 (68-70')	03/14/22	ICON	—	5290	—	17.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.6				
CD-5 (68-70')	03/14/22	ERM	—	3290	—	17.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	64.4	—	27.3				
CD-5 (70-72')	03/14/22	ICON	—	2190	—	8.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.9				
CD-5 (70-72')	03/14/22	ERM	—	1970	87	9.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98.4	—	30.2				
CD-5 (72-74')	04/26/22	ICON	—	782	—	3.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.2				
CD-5 (72-74')	04/26/22	ERM	—	844	—	4.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	99.8	—	26.3				
CD-5 (88-90')	04/26/22	ICON	—	20.7	5.1*	0.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.8				
CD-5 (88-90')	04/26/22	ERM	—	17	0.865	0.757	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	63.4	—	29.1				
CD-5 (94-96')	04/26/22	ICON	—	15.5	—	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.5				
CD-5 (94-96')	04/26/22	ERM	—	12.5	—	0.648	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77	—	27				
CD-6 (0-4')	04/12/22	ICON	—	7.75	—	0.3	5.2	4.29	0.37	0.28	2.45	—	37.1	—	—	—	3.94	—	213	418	—	<0.500	10.4	9.48	<0.107	—	—	19.7	15.9	—	—	19				
CD-6 (6-8')	04/12/22	ICON	—	18.9	—	0.37	5.95	4.94	0.47	0.33	3.12	—	40.7	—	—	—	3.64	—	216	417	—	<0.483	13.7	9.91	<0.109	—	—	41.6	38.5	—	—	17.4				
CD-6 (6-8')	04/12/22	ERM	—	10.7	—	0.569	4.41	8.43	0.42	0.292	5.03	—	37.7	—	—	—	2.71	—	189	—	—	<0.200	11.7	7.01	<0.134	<1.00	<0.500	—	33.0	113	8.54	16.3				
CD-6 (10-12')	04/12/22	ICON	—	31.1	—	0.32	5.63	3.93	0.47	0.51	2.74	—	55.7	—	—	—	7.06	—	179	389	—	<0.497	15.0	11.2	<0.0928	—	—	43.7	45.9	—	—	21.7				
CD-6 (10-12')	04/12/22	ERM	—	12.7	—	0.526	6.34	9.1	0.312	0.235	4.76	—	30.4	—	—	—	9.45	—	184	—	—	<0.200	19.9	15.6	<0.147	<1.00	<0.500	—	55.7	160	8.52	27.1				
CD-6 (28-30')	04/12/22	ICON	—	—	26.2*	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.1				
CD-6 (28-30')	04/12/22	ERM	—	—	3.86	0.806	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48.2	—	24.3				
CD-6 (52-54')	04/13/22	ICON	—	—	10.1*	0.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.6				
CD-6 (52-54')	04/13/22	ERM	—	—	0.863	0.704	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77	—	22.4				
CD-6 (76-78')	04/13/22	ICON	—	—	—	0.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17.4				
CD-6 (76-78')	04/13/22	ERM	—	—	—	0.619	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	63.4	—	20.1				

Soil Analytical Summary - 29-B Analyses																																			
Castex Development, LLC v. Anadarko Petroleum Corporation, et al. 31st Judicial District Court, Docket No. C-050220 Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West West Mermentau Oil and Gas Field Jefferson Davis Parish, Louisiana LDENR OC Legacy Project No. 031-027 HET Project No. 1009.A75																																			
Table 1 Page 6 of 12																																			
Sample ID / Depth (feet)	Sample Date	Sampler	Salinity															Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture			
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G			
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg,mg/L	mg/Kg,mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%			
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A			
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A			
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A			
CD-7 (2-4')	04/19/22	ICON	—	193	—	0.98	12	9.55	0.68	0.5	7.32	—	34.4	—	—	—	2.58	—	344	417	—	<0.499	9.21	10.1	<0.106	—	—	21.8	16.6	—	—	14.7			
CD-7 (4-6')	04/19/22	ICON	—	252	—	1.06	11.5	11.0	0.71	0.57	8.79	—	35.7	—	—	—	2.74	—	253	388	—	<0.500	9.56	10.8	<0.0979	—	—	21.1	20.0	—	—	14.6			
CD-7 (4-6')	04/19/22	ERM	—	258	—	1.39	8.7	15.3	0.553	0.439	10.8	—	30.7	—	—	—	2.23	—	126	—	—	<0.200	9.54	7.1	<0.149	<1.00	<0.500	—	16.9	111	7.91	17.8			
CD-7 (8-10')	04/19/22	ICON	—	156	89.9*	0.72	10.6	7.72	0.53	0.57	5.72	—	42.8	—	—	—	4.41	—	181	296	—	<0.500	11.4	12.4	<0.0961	—	—	24.4	32.2	—	—	19.9			
CD-7 (8-10')	04/19/22	ERM	—	217	—	0.921	7.23	13.1	0.382	0.224	7.21	—	50.4	—	—	—	6.07	—	186	—	—	0.389	15.2	8.64	<0.142	<1.00	<0.500	—	36.6	120	8.06	21.1			
CD-7 (26-28')	04/19/22	ICON	—	21.8	7.2*	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.4			
CD-7 (26-28')	04/19/22	ERM	—	14.7	0.763	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	—	27.2			
CD-7 (36-38')	04/19/22	ICON	—	21.4	9.28*	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.7			
CD-7 (36-38')	04/19/22	ERM	—	27.8	1.44	0.467	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.9	—	21.9			
CD-7 (58-60')	04/19/22	ICON	—	28.5	—	0.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.5			
CD-7 (58-60')	04/19/22	ERM	—	27.3	—	0.745	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.2	—	39.8			
CD-8 (2-4')	04/21/22	ICON	—	24.4	—	0.28	0.49	0.74	1.55	0.55	0.76	—	46.5	—	—	—	3.33	—	206	351	—	<0.498	10.8	11.5	<0.0992	—	—	18.1	14.9	—	—	22.6			
CD-8 (4-6')	04/21/22	ICON	—	63.6	—	0.43	0.71	1.03	2.1	0.65	1.21	—	44	—	—	—	4.21	—	445	544	—	<0.499	8.40	10.6	<0.105	—	—	21.5	20.2	—	—	15.5			
CD-8 (4-6')	04/21/22	ERM	—	43.8	—	0.557	0.853	1.25	2.32	0.769	1.55	—	33.5	—	—	—	1.99	—	109	—	—	<0.200	6.30	5.88	<0.153	<1.00	<0.500	—	18.4	78.1	8.17	18.3			
CD-8 (8-10')	04/21/22	ICON	—	18.2	—	0.27	0.900	1.08	1.25	0.52	1.01	—	30.9	—	—	—	4.85	—	292	435	—	<0.499	8.63	6.40	<0.104	—	—	20.4	31.3	—	—	16.2			
CD-8 (8-10')	04/21/22	ERM	—	12	—	0.422	0.795	1.2	2.33	0.753	1.49	—	27.4	—	—	—	8.67	—	192	—	—	<0.200	9.28	9.53	<0.135	<1.00	<0.500	—	40.1	75.9	8.19	15.9			
CD-8 (18-20')	04/21/22	ICON	—	9.03	3.81*	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.2			
CD-8 (18-20')	04/21/22	ERM	—	<4.00	<0.400	0.244	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	107	—	26.7			
CD-8 (48-50')	04/21/22	ICON	—	16.5	12.6*	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.3			
CD-8 (48-50')	04/21/22	ERM	—	11.6	0.908	0.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	64.2	—	35.1			
CD-8 (62-64')	04/21/22	ICON	—	40	—	0.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25			
CD-8 (62-64')	04/21/22	ERM	—	43	—	0.721	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59.1	—	27			
CD-9 (2-4')	04/27/22	ICON	—	7.99	—	0.33	3.41	3.00	0.73	0.43	2.29	—	30.3	—	—	—	3.01	—	213	590	—	<0.477	8.69	8.45	<0.0992	—	—	17.7	13.7	—	—	17.2			
CD-9 (6-8')	04/27/22	ICON	—	14.8	—	0.16	2.99	2.32	0.26	0.2	1.11	—	24	—	—	—	0.265	—	15.5	481	—	<0.500	0.830	0.671	<0.100	—	—	1.73	1.39	—	—	91.7			
CD-9 (6-8')	04/27/22	ERM	—	10.9	—	0.307	2.22	1.59	2.17	1.14	2.05	—	27.9	—	—	—	2.28	—	114	<500	—	<0.200	7.31	5.06	<0.160	—	—	21	18.6	63.9	7.81	15.5			
CD-9 (10-12')	04/27/22	ICON	—	34.6	—	0.29	1.94	2.32	0.55	0.4	1.6	—	29.5	—	—	—	5.84	—	221	389	—	<0.498	10.1	7.28	<0.0988	—	—	24.1	28.5	—	—	14.9			
CD-9 (10-12')	04/27/22	ERM	—	22.9	—	0.37	1.69	2.19	1.72	<0.820	2.03	—	30	—	—	—	3.93	—	193	2350	—	<0.200	8.06	9.88	<0.148	—	—	25.4	27.5	65.5	7.98	16.4			
CD-9 (22-24')	04/27/22	ICON	—	14.3	3.23*	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.4			
CD-9 (22-24')	04/27/22	ERM	—	7.05	0.41	0.337	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.1	—	28.9			
CD-9 (56-58')	04/28/22	ICON	—	38.7	9.41*	0.61	—	—																											

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Table 1 Page 7 of 12																																			
Sample ID / Depth (feet)	Sample Date	Sampler	Salinity															Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture			
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G			
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%		
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A			
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A			
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A			
CD-10 (2-4')	05/04/22	ICON	—	10.8	—	0.33	1.88	2.97	0.67	0.39	2.17	—	26.2	—	—	—	3.29	—	210	305	—	<0.500	10.7	14.2	<0.101	—	—	11.8	13.8	—	—	12.6			
CD-10 (6-8')	05/04/22	ICON	—	28.8	—	0.39	2.96	3.16	0.7	0.42	2.37	—	28.1	—	—	—	1.79	—	153	351	—	<0.495	8.76	6.71	<0.0986	—	—	15.3	17.1	—	—	16.6			
CD-10 (6-8')	05/04/22	ERM	—	6.28	—	0.414	2.42	2.31	2.5	1.4	3.22	—	28.4	—	—	—	1.71	—	134	<500	—	<0.200	7.81	7.73	<0.141	—	—	14.3	14.8	85.3	8.69	14.4			
CD-10 (8-10')	05/04/22	ICON	—	34.3	—	0.21	2.9	2.47	0.3	0.2	1.23	—	44.8	—	—	—	3.81	—	209	425	—	<0.501	13.4	7.95	<0.0956	—	—	24.5	32.6	—	—	21.3			
CD-10 (8-10')	05/04/22	ERM	—	6.48	—	0.188	2.52	2.29	0.585	<0.820	1.24	—	51.7	—	—	—	7.01	—	277	<500	—	<1.00	13.7	9.04	<0.144	—	—	27.4	42.1	120	8.16	19.3			
CD-10 (28-30')	05/04/22	ICON	—	13.1	3.51*	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.2			
CD-10 (28-30')	05/04/22	ERM	—	8.89	0.418	0.291	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	42.8	—	21			
CD-10 (52-54')	05/04/22	ICON	—	17.2	4.23*	0.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.4			
CD-10 (52-54')	05/04/22	ERM	—	6.73	0.491	0.762	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.9	—	29.7		
CD-10 (60-62')	05/04/22	ICON	—	17.4	—	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21			
CD-10 (60-62')	05/04/22	ERM	—	11.6	—	0.428	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	36.9	—	21.9		
CD-11 (2-4')	05/02/22	ICON	—	125	—	0.85	2.78	6.07	0.9	0.63	5.3	—	34.7	—	—	—	2.14	—	156	265	—	<0.500	12.3	10.9	<0.101	—	—	14.9	14.2	—	—	15.8			
CD-11 (4-6')	05/02/22	ICON	—	208	—	0.96	7.00	7.92	0.74	0.54	6.35	—	35.9	—	—	—	2.76	—	225	467	—	<0.497	11.7	10.7	<0.101	—	—	20.5	17.2	—	—	13.4			
CD-11 (4-6')	05/02/22	ERM	—	132	—	0.839	4.62	3.96	2.79	1.61	5.88	—	33.5	—	—	—	3.61	—	155	541	—	<0.200	6.99	15.7	<0.136	—	—	16.8	12.1	111	7.36	16.8			
CD-11 (10-12')	05/02/22	ICON	—	181	—	0.84	5.91	6.05	0.92	0.63	5.32	—	46.1	—	—	—	5.09	—	238	694	—	<0.502	19.2	12.1	<0.0997	—	—	48.4	47.8	—	—	21.8			
CD-11 (10-12')	05/02/22	ERM	—	110	—	0.571	3.21	2.87	2.46	1.62	4.1	—	57.4	—	—	—	19.6	—	338	697	—	0.897	17.7	19.6	<0.144	—	—	68.4	77.4	172	8.40	25.7			
CD-11 (28-30')	05/02/22	ICON	—	110	21*	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.7			
CD-11 (58-60')	05/03/22	ICON	—	47.5	9.72*	0.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.9			
CD-11 (58-60')	05/03/22	ERM	—	16.6	0.787	0.457	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	86	—	31.9		
CD-11 (64-66')	05/03/22	ICON	—	53.9	—	0.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.1			
CD-11 (64-66')	05/03/22	ERM	—	11.5	—	0.654	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39.8	—	22.4		
CD-12R (8-10)	04/22/25	HET	2.82	37.4	—	0.531	—	—	0.614	0.153	4.46	—	—	0.8	0.438	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	101	7.58	18.7		
CD-12R (8-10)	04/22/25	ICON	—	88.3	—	0.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.1			
CD-12R (16-18)	04/22/25	HET	0.302	<20.0	—	0.287	—	—	0.83	0.295	1.96	—	—	2.6	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	182	8.00	29.7		
CD-12R (16-18)	04/22/25	ICON	—	11.2	—	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.6			
CD-12R (26-28)	04/22/25	HET	0.393	<20.0	—	0.338	—	—	0.901	0.373	2.33	—	—	2.6	0.319	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100	8.10	23.6		
CD-12R (26-28)	04/22/25	ICON	—	7.09	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21			
CD-12R (46-48)	04/22/25	HET	0.411	<20.0	—	0.427	—	—	1.83	0.626	1.79	—	—	3.3	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	106	8.22	22.1		
CD-12R (46-48)	04/22/25	ICON	—	20.9	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21			
CD-12R (60-62)	04/22/25	HET	1.43	<20.0	—	0.544	—	—	2.01	0.745	2.59	—	—	2.4	1.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	36.8				

Soil Analytical Summary - 29-B Analyses																																	
Castex Development, LLC v. Anadarko Petroleum Corporation, et al. 31st Judicial District Court, Docket No. C-050220 Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West West Mermentau Oil and Gas Field Jefferson Davis Parish, Louisiana LDENR OC Legacy Project No. 031-027 HET Project No. 1009.A75																																	
Table 1 Page 8 of 12																																	
Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵													Additional Parameters			
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture	
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/ cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L		%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg,mg/L	mg/Kg,mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
CD-14 (2-4')	06/10/22	ICON	—	1260	—	5.20	14.8	17.4	5.18	3.68	36.7	—	44.6	—	—	—	4.31	—	361	3400	—	<0.466	13.6	11.6	<0.108	—	—	26.9	18.0	—	—	21	
CD-14 (4-6')	06/10/22	ICON	—	963	—	3.97	5.50	5.49	9.63	8.13	16.4	—	48.6	—	—	—	3.51	—	494	751	—	<0.500	13.3	9.56	<0.108	—	—	25.6	29.6	—	—	16.9	
CD-14 (4-6')	06/10/22	ERM	—	1150	—	5.02	3.74	5.58	13.5	11.2	19.6	—	32.6	—	—	—	4.34	—	269	532	—	<0.200	12.8	11.2	<0.158	—	—	22.7	29.2	80.1	7.09	20.7	
CD-14 (6-8')	06/10/22	ICON	—	440	—	2.39	2.63	2.51	8.58	5.75	6.71	—	48.8	—	—	—	3.11	—	243	715	—	<0.497	12.0	8.67	<0.107	—	—	25.9	30.6	—	—	17.4	
CD-14 (6-8')	06/10/22	ERM	—	499	—	2.47	1.96	2.62	8.54	5.91	7.05	—	31.1	—	—	—	2.54	—	238	561	—	0.265	10.9	9.18	<0.138	—	—	23.5	27.9	82.4	7.51	18.5	
CD-14 (8-10')	06/10/22	ICON	—	558	—	1.97	3.32	3.91	5.69	3.36	8.32	—	60.9	—	—	—	3.46	—	500	11500	—	<0.500	17.6	11.9	<0.107	—	—	41.8	45.6	—	—	23	
CD-14 (8-10')	06/10/22	ERM	—	477	—	1.74	2.12	3.19	4.98	3.07	6.39	—	49.1	—	—	—	5.79	—	283	<500	—	0.522	19.3	16.3	<0.135	—	—	48.5	51.4	122	7.68	24.2	
CD-14 (26-28')	06/10/22	ICON	—	694	181*	2.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.9	
CD-14 (26-28')	06/10/22	ERM	—	542	32.8	2.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	—	21.8	
CD-14 (64-66')	06/10/22	ICON	—	1100	—	7.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.3	
CD-14 (64-66')	06/10/22	ERM	—	972	—	9.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	42.7	—	23.9	
CD-16 (10-12)	06/10/24	ERM	—	—	<1.60	0.313	1.51	2.67	0.925	0.395	2.17	—	49.1	—	—	—	10.9	—	228	349	—	<0.200	32.4	16.1	<0.0185	<1.00	<0.500	—	109	147	8.29	26.8	
CD-16 (10-12)	06/10/24	ICON	—	114	—	0.77	6.08	3.43	1.61	—	3.95	—	36.2	—	—	—	5.22	—	452	4450	—	<0.782	17.7	10.5	<0.107	—	—	3.95	45.7	—	—	20	
CD-16 (14-16)	06/10/24	ERM	—	—	<1.60	0.27	1.16	1.92	0.832	0.457	1.54	—	58.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	159	8.34	27.4	
CD-16 (14-16)	06/10/24	ICON	—	36.9	5.50*	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.5	
CD-16 (54-56)	06/10/24	ERM	—	—	<1.60	0.526	1.3	2.2	1.73	0.754	2.45	—	37.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.7	8.34	27.6	
CD-16 (54-56)	06/10/24	ICON	—	64.3	8.13*	0.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.6	
CD-17 (8-10)	06/14/24	ERM	—	—	14.4	1.44	11.8	16.7	0.643	0.456	12.4	—	41.8	—	—	—	3.4	—	209	448	—	<0.200	23.5	13.7	<0.0166	<1.00	<0.500	—	112	142	7.27	22.8	
CD-17 (8-10)	06/14/24	ICON	—	289	—	1.57	18.8	12.8	0.68	0.8	11	—	33.4	—	—	—	2.44	—	389	942	—	<0.812	13	8.19	<0.107	—	—	27.3	29.1	—	—	16.2	
CD-17 (14-16)	06/14/24	ERM	—	—	10.3	1.2	2.77	5.07	2.33	1.53	7.04	—	42.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	116	7.73	21.2	
CD-17 (14-16)	06/14/24	ICON	—	255	69.7*	1.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.8	
CD-17 (60-62)	06/14/24	ERM	—	—	5.58	1.12	1.26	2.51	3.91	1.67	4.2	—	33.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	74.9	7.90	29.5	
CD-17 (60-62)	06/14/24	ICON	—	130	55.7*	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25	
CD-18 (0-4)	07/23/24	ERM	—	5.64	—	0.464	1.5	1.96	1.91	0.657	2.22	—	28.6	—	—	—	3.76	—	312	665	—	<0.200	16.1	10.1	0.0242	<1.00	<0.500	45.3	126	77.4	7.95	22.1	
CD-18 (0-4)	07/23/24	ICON	—	75.3	—	0.53	16.5	6.45	0.51	0.42	4.4	—	33.3	—	—	—	4.24	—	399	868	—	<0.411	11.7	9.32	<0.103	—	—	36.1	33.2	—	—	16.1	
CD-																																	

Soil Analytical Summary - 29-B Analyses																																		
Castex Development, LLC v. Anadarko Petroleum Corporation, et al. 31st Judicial District Court, Docket No. C-050220 Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West West Mermentau Oil and Gas Field Jefferson Davis Parish, Louisiana LDENR OC Legacy Project No. 031-027 HET Project No. 1009.A75																																		
Table 1 Page 9 of 12																																		
Sample ID / Depth (feet)	Sample Date	Sampler	Salinity															Metals ⁵														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/ cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg,mg/L	mg/Kg,mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
CD-19 (0-4)	07/29/24	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
CD-19 (0-4)	07/29/24	ICON	—	—	—	0.49	3.43	5.46	0.68	0.44	4.09	—	32.2	—	—	—	3.82	—	171	377	—	<0.369	9.33	11.8	<0.0993	—	—	10.5	51.3	—	—	19.5		
CD-19 (6-8)	07/29/24	ERM	—	93	—	0.714	12.1	13.2	0.308	0.138	6.21	—	47.8	—	—	—	2.63	—	239	377	—	<0.200	25.3	9.16	<0.0184	<1.00	<0.500	36	53.3	139	7.98	24.2		
CD-19 (6-8)	07/29/24	ICON	—	59.7	—	0.33	14.5	4.29	0.43	0.55	2.99	—	39.2	—	—	—	3.21	—	254	377	—	<0.421	12.3	12.1	<0.101	—	—	24.9	28.8	—	—	16.9		
CD-19 (8-10)	07/29/24	ERM	—	18.3	<1.60	0.552	12	13.4	0.19	0.114	5.23	—	33.3	—	—	—	2.22	—	207	285	—	<0.200	25.9	7.47	<0.0181	<1.00	<0.500	33.6	56.3	91.5	8.39	17.4		
CD-19 (8-10)	07/29/24	ICON	—	41.5	—	0.52	11.2	5.94	0.67	0.56	4.64	—	30.6	—	—	—	<1.64	—	169	192	—	<0.410	9.72	6.21	<0.102	—	—	22.1	24.8	—	—	16.8		
CD-19 (22-24)	07/29/24	ERM	—	220	—	1.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	97.4	7.84	27.6		
CD-19 (22-24)	07/29/24	ICON	—	186	—	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.1		
CD-19 (30-32)	07/29/24	ERM	—	135	5.17	1.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.7	7.90	29.1		
CD-19 (30-32)	07/29/24	ICON	—	115	49.2*	0.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.7		
CD-19 (46-48)	07/29/24	ERM	—	61.8	2.71	0.647	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	109	8.24	34.8		
CD-19 (46-48)	07/29/24	ICON	—	28.9	25.5*	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30.2		
CD-19 (66-68)	07/29/24	ERM	—	19.3	—	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	73.8	8.32	26		
CD-19 (66-68)	07/29/24	ICON	—	30.6	—	0.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27.4		
CD-19 (78-80)	07/30/24	ERM	—	12.7	<0.400	0.629	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.8	8.32	27		
CD-19 (78-80)	07/30/24	ICON	—	15.2	6.63*	0.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24		
SB-1 (0-2)	04/24/25	HET	0.585	<20.0	—	0.201	—	—	0.945	0.293	0.649	—	—	0.7	0.437	—	—	—	194	284	—	—	15.9	13.8	—	—	—	—	—	66.5	7.01	20.2		
SB-1 (0-2)	04/24/25	ICON	—	8.05	—	0.18	—	—	—	—	—	—	—	—	—	—	3.94	—	178	207	—	<0.429	10.3	11.4	<0.104	—	—	10.2	11.2	—	—	13.8		
SB-1 (2-4)	04/25/25	HET	0.203	<20.0	—	0.246	—	—	1.47	0.496	0.603	—	—	2.0	0.242	—	—	—	287	429	—	—	22.7	9.77	—	—	—	—	—	88.5	7.89	21		
SB-1 (2-4)	04/25/25	ICON	—	15.5	—	0.25	—	—	—	—	—	—	—	—	—	—	3.98	—	246	318	—	<0.411	10.5	9.29	<0.109	—	—	13.9	15.9	—	—	17.5		
SB-1 (6-8)	04/24/25	HET	0.21	<20.0	—	0.28	—	—	1.09	0.289	1.6	—	—	2.3	0.335	—	—	—	254	339	—	—	22	9.77	—	—	—	—	—	110	8.11	25.7		
SB-1 (6-8)	04/24/25	ICON	—	8.30	—	0.25	—	—	—	—	—	—	—	—	—	—	4.76	—	231	394	—	<0.396	10.5	8.49	<0.0945	—	—	20.0	31.0	—	—	20.2		
SB-1 (8-10)	04/24/25	HET	0.941	<20.0	—	0.382	—	—	1.85	0.446	1.57	—	—	2.3	0.209	—	—	—	152	247	—	—	16.1	7.59	—	—	—	—	—	65.8	7.99	22.8		
SB-1 (8-10)	04/24/25	ICON	—	10.3	—	0.27	—	—	—	—	—	—	—	—	—	—	3.23	—	146	202	—	<0.407	8.14	6.29	<0.0965	—	—	14.2	22.6	—	—	18.5		
SB-1 (13-15)	04/24/25	HET	0.245	<20.0	—	0.249	—	—	1.08	0.414	1.06	—	—	2.2	0.132	—	—	—	180	367	—	—	23.3	12.1	—	—	—	—	—	188	7.91	26		
SB-1 (13-15)	04/24/25	ICON	—	9.91	—	0.19	—	—	—	—	—	—	—	—	—	—	5.83	—	132	254	—	<0.378	11.1	9.56	<0.0938	—	—	39.6	43.5	—	—	23.8		
SB-1 (15-16)	04/24/25	HET	0.266	<20.0	—	0.267	—	—	1.18	0.464	1.12	—	—	2.2	0.158	—	—	—	161	339	—	—	25.3	11.9	—	—	—	—	—	178	8.06	29.3		
SB-1 (15-16)	04/24/25	ICON	—	18.5	—	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.1		
SB-1 (20-22)	04/24/25	HET	0.317	<20.0	—	0.287	—	—	0.959	0.446	1.58	—	—	2.6	0.171	—	—	—	152	300	—	—	20.9	10.4	—	—	—	—	—	118	8.08	21.5		
SB-1 (20-22)	04/24/25	ICON	—	6.78	—	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.9		
SB-1 (22-24)	04/24/25	HET	0.506	<20.0	—	0.243	—	—	0.706	0.351	1.37	—	—	1.6	0.217	—	—	—	91.9	199	—	—	11.9	5.63	—	—	—	—	—	51.1	7.59	21.5		

Soil Analytical Summary - 29-B Analyses																																		
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Table 1 Page 10 of 12																																		
Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G	
			meq/L	mg/Kg	mg/L	mmhos/ cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L		%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg,mg/L	mg/Kg,mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SB-2 (0-2)	04/24/25	—	1.28	<20.0	—	0.77	—	—	2.82	1.48	4.36	—	—	6.6	0.42	—	—	—	156	192	—	—	18.4	15.6	—	—	—	—	—	62.5	8.15	16.6		
SB-2 (0-2)	04/24/25	ICON	—	16.4	—	0.61	—	—	—	—	—	—	—	—	—	—	3.03	—	131	142	—	<0.365	7.94	9.33	<0.101	—	—	14.8	9.01	—	—	26.8		
SB-2 (2-4)	04/24/25	—	4.69	96.8	—	0.953	—	—	0.824	0.594	8.16	—	—	4.2	0.33	—	—	—	221	293	—	—	20.5	12.3	—	—	—	—	—	117	8.27	24.4		
SB-2 (2-4)	04/24/25	ICON	—	166	—	1.07	—	—	—	—	—	—	—	—	—	—	3.12	—	188	254	—	<0.386	8.63	9.09	<0.103	—	—	19.4	12.5	—	—	22.6		
SB-2 (6-8)	04/24/25	—	12.3	264	—	1.58	—	—	0.86	0.646	13.3	—	—	1.5	0.198	—	—	—	116	148	—	—	15.2	6.41	—	—	—	—	—	101	7.84	18.7		
SB-2 (6-8)	04/24/25	ICON	—	166	—	1.13	—	—	—	—	—	—	—	—	—	—	2.09	—	111	85.6	—	<0.413	7.20	5.98	<0.0987	—	—	15.6	16.9	—	—	16.8		
SB-2 (8-10)	04/24/25	—	62.3	1300	—	6.42	—	—	23.5	13	24.8	—	—	0.7	0.153	—	—	—	345	403	—	—	17	8.69	—	—	—	—	—	70	7.36	23.4		
SB-2 (8-10)	04/24/25	ICON	—	1170	—	6.11	—	—	—	—	—	—	—	—	—	—	4.29	—	222	254	—	<0.390	9.32	7.08	<0.103	—	—	23.0	30.7	—	—	21.7		
SB-2 (12-14)	04/24/25	—	8.59	166	—	1.07	—	—	3.49	1.7	4.28	—	—	1	0.038	—	—	—	110	220	—	—	15.9	6.83	—	—	—	—	—	73.8	7.66	24.3		
SB-2 (12-14)	04/24/25	ICON	—	154	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.2		
SB-2 (16-18)	04/24/25	—	1.5	41	—	0.342	—	—	0.824	0.461	1.94	—	—	1.7	0.036	—	—	—	144	236	—	—	22.4	10.3	—	—	—	—	—	125	7.95	22.7		
SB-2 (16-18)	04/24/25	ICON	—	25.9	—	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.4		
SB-2 (22-24)	04/24/25	—	2.9	37.1	—	0.469	—	—	1.63	0.696	1.86	—	—	1.1	0.07	—	—	—	73	134	—	—	11.3	4.64	—	—	—	—	—	44.2	7.59	20.7		
SB-2 (22-24)	04/25/25	ICON	—	30.8	—	0.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9		
SB-3 (0-2)	04/25/25	HET	1.64	26.2	—	0.773	—	—	2.56	1.81	4.27	—	—	5.2	0.911	—	—	—	297	376	—	—	18.9	16	—	—	—	—	—	67.1	8.28	15.8		
SB-3 (0-2)	04/25/25	ICON	—	24.2	—	0.37	—	—	—	—	—	—	—	—	—	—	4.73	—	176	155	—	<0.422	10.5	12.9	<0.0942	—	—	16.8	11.7	—	—	15.4		
SB-3 (2-4)	04/25/25	HET	2.05	24.0	—	0.420	—	6.71	0.38	0.167	3.51	—	—	0.8	0.464	—	—	—	152	245	—	—	22.6	9.5	—	—	—	—	—	84.1	7.51	20.1		
SB-3 (2-4)	04/25/25	ICON	—	25.9	—	0.33	—	—	—	—	—	—	—	—	—	—	2.92	—	155	197	—	<0.410	8.98	10.6	<0.0926	—	—	18.9	12.8	—	—	17.8		
SB-3 (4-6)	04/25/25	ICON	—	12.6	—	0.21	—	—	—	—	—	—	—	—	—	—	5.49	—	263	334	—	<0.395	9.72	10.1	<0.0950	—	—	26.4	25.6	—	—	20.3		
SB-3 (8-10)	04/25/25	HET	0.552	<20.0	—	0.358	—	—	0.375	0.181	3.25	—	—	2.6	0.376	—	—	—	383	538	—	—	21.4	9.37	—	—	—	—	—	113	7.93	26		
SB-3 (8-10)	04/25/25	ICON	—	11.3	—	0.22	—	—	—	—	—	—	—	—	—	—	6.89	—	242	294	—	<0.390	9.39	7.34	<0.0927	—	—	28.5	31.0	—	—	21.7		
SB-3 (12-14)	04/25/25	HET	0.97	<20.0	—	0.391	—	—	0.541	0.258	3.23	—	—	2.4	0.401	—	—	—	94.2	184	—	—	15.8	7.43	—	—	—	—	—	60.6	7.90	21.8		
SB-3 (12-14)	04/25/25	ICON	—	7.19	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.3		
SB-3 (16-18)	04/25/25	HET	0.388	<20.0	—	0.262	—	—	0.54	0.279	1.89	—	—	2.0	0.27	—	—	—	143	280	—	—	22.6	9.66	—	—	—	—	—	134	7.90	25.2		
SB-3 (16-18)	04/25/25	ICON	—	18.3	—	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.7		
SB-3 (22-24)	04/25/25	HET	1.67	24.7	—	0.42	—	—	1.06	0.526	2.41	—	—	1.9	0.344	—	—	—	109	193	—	—	16.7	7.15	—	—	—	—	—	60.4	7.93	20.3		
SB-3 (22-24)	04/25/25	ICON	—	19.3	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.7		

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Table 1 Page 11 of 12																																		
Sample ID / Depth (feet)	Sample Date	Sampler	Salinity														Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/ cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg,mg/L	mg/Kg,mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SB-4 (0-2)	04/24/25	HET	0.157	<20.0	—	0.304	—	—	2.11	0.647	0.407	—	—	2.6	0.434	—	—	—	260	244	—	—	17.4	24.4	—	—	—	—	—	61.1	7.90	14.6		
SB-4 (0-2)	04/24/25	ICON	—	2.70	—	0.34	—	—	—	—	—	—	—	—	—	—	6.05	—	236	222	—	<0.428	10.6	18.8	<0.0991	—	—	9.81	10.3	—	—	14.2		
SB-4 (2-4)	04/24/25	HET	0.152	<20.0	—	0.132	—	—	0.635	0.263	0.434	—	—	0.8	0.211	—	—	—	193	263	—	—	18.6	10.9	—	—	—	—	—	67.9	7.53	21.5		
SB-4 (2-4)	04/24/25	ICON	—	3.69	—	0.15	—	—	—	—	—	—	—	—	—	—	5.25	—	287	332	—	<0.416	11.5	17.5	<0.101	—	—	14.8	14.7	—	—	16.8		
SB-4 (7-9)	04/24/25	ICON	—	6.43	—	0.18	—	—	—	—	—	—	—	—	—	—	3.51	—	175	198	—	<0.429	8.73	5.87	<0.105	—	—	13.3	16.4	—	—	13.9		
SB-4 (8-10)	04/24/25	HET	0.438	<20.0	—	0.182	—	—	0.294	0.14	1.3	—	—	0.6	0.461	—	—	—	90.1	155	—	—	10.8	6.51	—	—	—	—	—	38.1	7.56	16.2		
SB-4 (8-10)	04/24/25	ICON	—	3.96	—	0.24	—	—	—	—	—	—	—	—	—	—	4.06	—	99.5	130	—	<0.410	6.52	4.32	<0.101	—	—	9.80	14.3	—	—	17.2		
SB-4 (12-14)	04/24/25	HET	0.286	<20.0	—	0.308	—	—	0.875	0.36	2.07	—	—	2.7	0.204	—	—	—	149	318	—	—	24.8	12.1	—	—	—	—	—	188	8.07	29.8		
SB-4 (12-14)	04/24/25	ICON	—	10.8	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39.1		
SB-4 (18-20)	04/24/25	HET	0.416	<20.0	—	0.268	—	—	0.668	0.29	1.86	—	—	2.2	0.179	—	—	—	187	342	—	—	17.6	9.34	—	—	—	—	—	142	8.11	30.5		
SB-4 (18-20)	04/24/25	ICON	—	10.9	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.3		
SB-4 (22-24)	04/24/25	HET	0.67	<20.0	—	0.301	—	—	0.762	0.342	1.95	—	—	2	0.256	—	—	—	113	190	—	—	19.2	8.99	—	—	—	—	—	92.5	7.97	23.3		
SB-4 (22-24)	04/24/25	ICON	—	12.9	—	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.7		

Soil Analytical Summary - 29-B Analyses

Castex Development, LLC v. Anadarko Petroleum Corporation, et al.
31st Judicial District Court, Docket No. C-050220
Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West
Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West
West Mermentau Oil and Gas Field
Jefferson Davis Parish, Louisiana
LDENR OC Legacy Project No. 031-027
HET Project No. 1009.A75

Table 1
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity														Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B/1312	6010B/1312	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg,mg/L	mg/Kg,mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%		
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
DB-1 (8-10)	04/16/25	HET	46.8	1440	—	5.13	—	—	11.5	6.54	29.1	—	—	<0.3	0.066	—	—	—	—	—	—	—	—	—	—	—	—	—	91.9	7.13	22.1			
DB-1 (8-10)	04/16/25	ICON	—	1350	—	5.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
DB-1 (23-25)	04/16/25	HET	3.76	87.6	—	0.589	—	—	2.04	0.916	2.17	—	—	1.5	0.088	—	—	—	—	—	—	—	—	—	—	—	—	—	135	8.14	9.02			
DB-1 (23-25)	04/16/25	ICON	—	90.2	—	0.530	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
DB-1 (43-45)	04/17/25	HET	14.9	304	—	1.87	—	—	5.1	2.07	8.95	—	—	2.3	0.276	—	—	—	—	—	—	—	—	—	—	—	—	—	88.5	8.23	23			
DB-1 (43-45)	04/17/25	ICON	—	339	—	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
DB-1 (58-60)	04/17/25	HET	16.2	270	—	2.04	—	—	8.28	3.67	5.19	—	—	2.8	0.289	—	—	—	—	—	—	—	—	—	—	—	—	—	79.3	8.07	28.5			
DB-1 (58-60)	04/17/25	ICON	—	278	—	1.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
DB-1 (60-62)	04/17/25	HET	9.42	168	—	1.31	—	—	5.22	2.29	3.43	—	—	2.2	0.345	—	—	—	—	—	—	—	—	—	—	—	—	—	112	8.08	31.3			
DB-1 (60-62)	04/17/25	ICON	—	198	—	1.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
DB-1 (70-72)	04/17/25	HET	0.955	24.8	—	0.653	—	—	2.59	1.14	2.64	—	—	4.2	1.36	—	—	—	—	—	—	—	—	—	—	—	—	—	68.5	8.51	29.1			
DB-1 (70-72)	04/17/25	ICON	—	19.5	—	0.320	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
DB-1 (78-80)	04/17/25	HET	1.15	<20.0	—	0.525	—	—	1.92	0.827	2.18	—	—	3.6	0.637	—	—	—	—	—	—	—	—	—	—	—	—	110	8.38	22.4				
DB-1 (78-80)	04/17/25	ICON	—	24.5	—	0.610	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Maximum	N/A	N/A	85.6	9870	261	34.6	48.1	67.4	73.9	35.4	196	—	60.9	6.6	4.23	3.30	19.6	—	5059	68900	7.85	1.05	249 / 0.339	200 / 0.0936	0.255	1.46	0.851	466	378	366	9.12	91.7		
LDENR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100 / 2 ⁴	100 / 0.3 ⁴	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		

1 - LDENR Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
2 - LDEQ RECAP Non-Industrial Screening Standards (lowest of Soil_{SHI} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI only}) per Table 2 of RECAP listed for comparison purposes only
4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
5 - All metal results reported on or converted to wet weight
* - 29-B Leachate Chloride analysis instead of SPLP Chloride analysis
H - Holding time for preparation or analysis exceeded
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
mg/L - milligrams per Liter
meq/L - milli equivalents per Liter
mmhos/cm - milli mohs per centimeter
EC - Electrical Conductivity
ESP - Exchangeable Sodium Percentage
SAR - Sodium Adsorption Ratio
— Not Analyzed
N/A - Not Applicable

Soil Analytical Summary - RECAP Analyses																																
Castex Development, LLC v. Anadarko Petroleum Corporation, et al. 31st Judicial District Court, Docket No. C-050220 Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West West Mermentau Oil and Gas Field Jefferson Davis Parish, Louisiana LDENR OC Legacy Project No. 031-027 HET Project No. 1009.A75																																
Table 2 Page 1 of 1																																
Sample ID / Depth (feet)	Sample Date	Sampler	TPH			VPH			EPH							PAH																
			TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	1-Methyl-naphthalene	2-Methyl-naphthalene	Ace-naphthene	Ace-naphthylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phen-anthrene	Pyrene
			8015B mg/Kg	8015B mg/Kg	8015B mg/Kg	TX1006 mg/Kg	TX1006 mg/Kg	TX1006 mg/Kg	TX1006 mg/Kg	TX1006 mg/Kg	TX1006 mg/Kg	TX1006 mg/Kg	TX1006 mg/Kg	TX1006 mg/Kg	TX1006 mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg	8270C mg/Kg
LDEQ RECAP SS ¹	10/20/03	N/A	65	65	180	1200	120	65	230	100	370	180	150	7100	180	N/A	1.7	220	88	120	0.62	0.33	0.62	6.2	62	0.33	220	230	0.62	1.5	660	230
LDEQ RECAP MO-1 Soilni ²	N/A	N/A	650	650	1800	10000	1200	650	2300	1200	3700	1800	1500	10000	1800	N/A	220	3700	3500	22000	0.62	0.33	0.62	6.2	62	0.33	2200	2800	0.62	62	21000	2300
HA-2 (0-2)	06/29/21	ICON	—	22.7	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2 (0-2)	06/29/21	ERM	—	—	—	<28.7	<28.7	<28.7	<6.00	<6.00	37.4	<6.00	<6.00	32.7	<6.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2R (0-2)	04/23/25	HET	—	—	—	<0.415	<1.08	<0.415	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	<0.000224	<0.000183	<0.000134	<0.000213	0.000718	0.000836	0.000949	<0.000154	0.000842	<0.000096	0.00118	<0.000137	0.000768	<0.000097	0.00081	0.00107
HA-2 (2-4)	06/29/21	ICON	—	1300	<100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2 (2-4)	06/29/21	ERM	—	—	—	<29.9	<29.9	35.1	34.1	6.12	527	41.8	22.4	378	16.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2R (2-4)	04/23/25	HET	—	—	—	—	—	—	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2 (4-6)	06/29/21	ICON	—	123	<15.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2 (4-6)	06/29/21	ERM	—	—	—	<26.8	<26.8	<26.8	9.81	<6.00	154	13.4	6.46	131	<6.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2R (8-10)	04/23/25	HET	—	—	—	33.1	53.1	9.68	<40.0	29.7	262	64.6	50.1	987	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2R (8-10)	04/23/25	ICON	—	5230	2800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2R (10-12)	04/23/25	HET	—	—	—	<0.495	4.91	0.539	<2.00	<2.00	<2.00	<2.00	<2.00	4.62	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2R (14-16)	04/23/25	HET	—	—	—	<0.439	<1.14	<0.439	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2R (14-16)	04/23/25	ICON	—	<19.9	36.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2R (22-24)	04/23/25	HET	—	—	—	<0.463	<1.20	<0.463	<2.00	<2.00	2.78	<2.00	<2.00	10.6	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-5 (2-4)	06/29/21	ICON	—	768	545	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-5 (2-4)	06/29/21	ERM	—	—	—	<2.23	<2.23	<44.7	<6.00	<6.00	20.2	<6.00	<6.00	131	22.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-5 (4-6)	06/29/21	ICON	—	2310	258	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-5 (4-6)	06/29/21	ERM	—	—	—	64.4	147	77.2	99.2	11.2	513	38.4	34.7	1560	133	0.803	1.02	<0.066	<0.066	<0.033	<0.066	<0.033	<0.066	<0.033	<0.066	<0.066	0.038	0.193	<0.033	0.608	0.429	0.046
HA-10 (0-2)	08/02/24	ICON	—	<20.0	<20.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-10 (0-2)	08/02/24	ERM	—	—	—	<0.327	4.35	<0.327	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	4.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-10 (2-4)	08/02/24	ICON	—	<20.0	<20.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-10 (2-4)	08/02/24	ERM	—	—	—	<0.303	<0.789	<0.303	<2.00	<2.00	3.16	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-10 (4-6)	08/02/24	ICON	—	<19.9	<19.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-10 (4-6)	08/02/24	ERM	—	—	—	<0.299	<0.777	<0.299	3.84	<2.00	9.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-1 (0-2)	04/24/25	HET	—	—	—	<0.448	<1.16	<0.448	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-1 (2-4)	04/25/25	HET	—	—	—	—	—	—																								

Soil Radiological Analytical Summary

Castex Development, LLC v. Anadarko Petroleum Corporation, et al.
31st Judicial District Court, Docket No. C-050220
Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West
Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West
West Mermentau Oil and Gas Field
Jefferson Davis Parish, Louisiana
LDENR OC Legacy Project No. 031-027
HET Project No. 1009.A75

Table 3
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Sample ID/Depth	Sample Date	Sampler	Radium	
			Radium 226	Radium 228
			LANL ER-130 Modified	LANL ER-130 Modified
			pCi/g	pCi/g
R-1 (0-6")	6/9/22	ERM	1.36E+00	1.52E+00
R-1 (0-6")	6/9/22	ICON	3.64E+00	1.43E+00
R-1 (6-12")	6/9/22	ERM	1.17E+00	1.53E+00
R-1 (6-12")	6/9/22	ICON	2.00E+00	1.60E+00
R-1 (12-18")	6/9/22	ERM	1.36E+00	1.54E+00
R-1 (12-18")	6/9/22	ICON	4.44E+00	1.53E+00
R-1 (18-24")	6/9/22	ERM	1.15E+00	1.81E+00
R-2 (0-6")	6/9/22	ERM	1.07E+01	1.34E+00
R-2 (0-6")	6/9/22	ICON	1.89E+01	1.94E+00
R-2 (6-12")	6/9/22	ERM	1.82E+00	1.22E+00
R-2 (6-12")	6/9/22	ICON	4.84E+00	1.18E+00
R-3 (0-6")	6/9/22	ERM	2.64E+01	2.46E+00
R-3 (0-6")	6/9/22	ICON	3.62E+01	3.03E+00
R-3 (6-12")	6/9/22	ERM	3.52E+00	1.32E+00
R-3 (6-12")	6/9/22	ICON	2.05E+00	1.75E+00
R-3 (12-18")	6/9/22	ERM	1.11E+00	9.25E-01
R-3 (12-18")	6/9/22	ICON	6.06E+00	1.76E+00
R-4 (0-4")	6/9/22	ERM	4.16E+01	5.49E+01
R-4 (0-4")	6/9/22	ICON	5.62E+01	6.13E+01
R-5 (0-6")	6/9/22	ERM	1.08E+01	1.99E+01
R-5 (0-6")	6/9/22	ICON	1.87E+01	2.75E+01

Soil Radiological Analytical Summary

Castex Development, LLC v. Anadarko Petroleum Corporation, et al.

31st Judicial District Court, Docket No. C-050220

Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West

Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West

West Mermentau Oil and Gas Field

Jefferson Davis Parish, Louisiana

LDENR OC Legacy Project No. 031-027

HET Project No. 1009.A75

Table 3
Page 2 of 2

Sample ID/Depth	Sample Date	Sampler	Radium	
			Radium 226	Radium 228
			LANL ER-130 Modified	LANL ER-130 Modified
			pCi/g	pCi/g
CAS 001 (0-6")	4/17/25	Frazier / Wilson	1.09E+00	1.21E+00
CAS 001 (6-12")	4/17/25	Frazier / Wilson	1.53E+00	1.24E+00
CAS 002 (0-6")	4/17/25	Frazier / Wilson	1.07E+01	1.39E+00
CAS 002 (6-12")	4/17/25	Frazier / Wilson	1.61E+00	1.20E+00
CAS 003 (0-6")	4/17/25	Frazier / Wilson	1.15E+00	1.11E+00
CAS 003 (6-12")	4/17/25	Frazier / Wilson	1.18E+00	1.41E+00
CAS 004 (0-6")	4/17/25	Frazier / Wilson	3.52E+01	2.11E+00
CAS 004 (6-12")	4/17/25	Frazier / Wilson	8.35E+00	1.01E+00
CAS 004 (12-18")	4/17/25	Frazier / Wilson	2.55E+00	1.58E+00
CAS 005 (0-6")	4/17/25	Frazier / Wilson	1.70E+00	1.09E+00
CAS 005 (6-12")	4/17/25	Frazier / Wilson	1.24E+00	1.41E+00
Maximum	N/A	N/A	5.62E+01	6.13E+01
LDEQ Standard ¹	N/A	N/A	5 pCi/g plus background	5 pCi/g plus background

1 - LDEQ Radiation Protection Division Regulatory Limit for Site Release for Unrestricted use

pCi/g - picocuries/gram

2 - Radium-226 by EPA 903.0 Modified Method

Groundwater Analytical Summary - Zone A																																			
Castex Development, LLC v. Anadarko Petroleum Corporation, et al. 31st Judicial District Court, Docket No. C-050220 Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West West Mermantau Oil and Gas Field Jefferson Davis Parish, Louisiana LDENR OC Legacy Project No. 031-027 HET Project No. 1009.A75																																			
Table 4 Page 1 of 2																																			
Well Number (Screen Interval)	Date	Sampler	Salinity						BTEX				Hydrocarbons			Metals														Alkalinity		Radium			
			Chloride	Bromide	Cl/Br Ratio	Specific Conductivity	TDS	Sulfate	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Strontium	Zinc	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Radium 226	Radium 228
			9056A mg/L	9056A mg/L	N/A N/A	2510B umhos/ cm	2540C mg/L	9056A mg/L	8260B mg/L	8260B mg/L	8260B mg/L	8260B mg/L	8015C mg/L	8015C mg/L	8015C mg/L	6020 mg/L	6020 mg/L	6020 mg/L	6010B mg/L	6020 mg/L	6010B mg/L	6020 mg/L	6010B mg/L	6010B mg/L	7470A mg/L	6010B mg/L	6020 mg/L	6020 mg/L	6010B mg/L	6020 mg/L	2320B mg/L	2320B mg/L	EPA 903 pCi/L	EPA 904 pCi/L	
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	
CD-1A (13-18')	03/18/22	ICON	29.2	—	—	—	370	30.5	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.131	<0.121	<0.00250	0.286	<0.00500	36	<0.010	0.0985	<0.0100	12.1	0.192	<0.000200	<5.00	—	—	78.8	0.191	<0.0100	250	<20.0	0.261	-0.0896
CD-1A (13-18')	03/18/22	ERM	21.4	—	—	—	372	29.8	<0.0010	<0.0010	<0.0010	<0.0010	—	—	—	<0.00200	0.303	<0.00200	32.9	<0.00400	<0.200	<0.00200	11.9	0.192	<0.000200	0.852	—	—	74.2	0.177	<0.00400	295	<5.00	0.184	-0.0254
CD-1A (13-18') (Dissolved)	03/18/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.00200	0.301	<0.00200	—	<0.00400	<0.200	<0.00200	—	0.188	<0.000200	—	—	—	—	0.181	<0.00400	—	—	—	—
CD-1B (32-37')	03/18/22	ICON	71.7	—	—	—	388	25.3	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.130	<0.120	0.00917	0.397	<0.00500	57	<0.0100	2.82	<0.0100	16.6	0.456	<0.000200	<5.00	—	—	71.9	0.323	<0.0100	272	<20.0	1.22	1.81
CD-1B (32-37')	03/18/22	ERM	36.3	—	—	—	420	26.2	<0.0010	0.0088	<0.0010	<0.0010	—	—	—	0.00893	0.39	<0.00200	52	0.0083	0.739	<0.00200	16	0.442	<0.000200	2.34	—	—	70.2	0.314	0.00489	315	<5.00	0.313	0.195
CD-1B (32-37') (Dissolved)	03/18/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0091	0.38	<0.00200	—	<0.00400	0.215	<0.00200	—	0.428	<0.000200	—	—	—	—	0.309	<0.00400	—	—	—	—
CD-2A (33-43')	03/17/22	ICON	13100	—	—	—	20300	94.7	<0.00500	<0.0500	<0.0250	<0.250	0.263	0.210	<0.121	0.081	7.14	<0.00500	2630	<0.0100	52.1	<0.0100	821	17.5	<0.000200	32.7	—	—	4640	19.9	<0.0100	148	<20.0	6.79	1.96
CD-2A (33-43')	03/17/22	ERM	13300	—	—	—	27500 H	96.2	<0.0010	0.0085	<0.0010	<0.0010	—	—	—	0.0889	3.00	<0.0100	2480	<0.0200	42.8	<0.0100	776	16.1	<0.000200	17.9	—	—	4330	16.8	<0.0200	174	<5.00	2.62	4.64
CD-2A (33-43') (Dissolved)	03/17/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.085	4.6	<0.0100	—	<0.0200	42.4	<0.0100	—	16.1	<0.000200	—	—	—	—	16.7	<0.0200	—	—	—	—
CD-3A (27-42')	03/17/22	ICON	21400	—	—	—	35800	<25.0	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	0.266	<0.118	0.0558	36.5	<0.00500	1320	<0.0100	19.4	<0.0100	412	8.14	<0.000200	49.8	—	—	15100	53.7	<0.0100	355	<20.0	8.59	18.4
CD-3A (27-42')	03/17/22	ERM	22000	—	—	—	38500 H	<25.0	<0.0010	<0.0010	<0.0010	<0.0010	—	—	—	0.0671	27.7	<0.0200	1190	<0.0400	14.5	<0.0200	363	6.21	<0.000200	17.2	—	—	11600	37.6	<0.0400	421	<5.00	3.52	19.8
CD-3A (27-42') (Dissolved)	03/17/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0659	30.3	<0.0200	—	<0.0400	14.2	<0.0200	—	6.23	<0.000200	—	—	—	—	42.8	<0.0400	—	—	—	—
CD-4A (27-42')	03/21/22	ICON	372	—	—	—	1080	23.6	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.130	<0.120	0.0275	0.481	<0.00500	88.2	<0.0100	0.413	<0.0100	29.4	0.359	<0.000200	<5.00	—	—	317	2.58	<0.0100	428	<20.0	0.338	0.640
CD-4A (27-42')	03/21/22	ERM	409	—	—	—	1120	24.8	<0.0010	<0.0010	<0.0010	<0.0010	—	—	—	0.0304	0.524	<0.00200	86.7	<0.00400	0.368	<0.00200	30	0.371	<0.000200	2.32	—	—	268	2.1	<0.00400	489	<5.00	0.385	0.628
CD-4A (27-42') (Dissolved)	03/21/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0298	0.474	<0.00200	—	<0.00400	0.329	<0.00200	—	0.347	<0.000200	—	—	—	—	2.43	<0.00400	—	—	—	—
CD-5A (28-43')	03/21/22	ICON	250	—	—	—	835	11.8	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.129	<0.119	0.0134	0.927	<0.00500	131	<0.0100	1.08	<0.0100	34.3	0.558	<0.000200	<5.00	—	—	143	0.623	0.0101	505	<20.0	0.394	1.04
CD-5A (28-43')	03/21/22	ERM	204	—	—	—	842	12.2	<0.0010	<0.0010	<0.0010	<0.0010	—	—	—	0.0135	0.997	<0.00200	122	<0.00400	0.721	<0.00200	34.3	0.563	<0.000200	2.86	—	—	136	0.604	<0.00400	541	<5.00	0.501	0.935
CD-5A (28-43') (Dissolved)	03/21/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0138	0.991	<0.00200	—	<0.00400	0.694	<0.00200	—	0.564	<0.000200	—	—	—	—	0.605	<0.00400	—	—	—	—
CD-6A (30-40')	05/12/22	ICON	303	—	—	—	845	3.29	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	0.220	<0.122	0.0214	0.596	<0.00500	119	<0.0100	—	<0.0100	40.2	0.626	<0.000200	5.15	—	—	141	0.738	<0.0100	342	<20.0	0.662	0.507
CD-6A (30-40')	05/12/22	ERM	295	—	—	—	928	3.35	<0.001	0.0095	<0.001	<0.001	—	—	—	0.0210	0.537	<0.00200	106	<0															

Groundwater Analytical Summary - Zone A																																			
Castex Development, LLC v. Anadarko Petroleum Corporation, et al. 31st Judicial District Court, Docket No. C-050220 Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West West Mermentau Oil and Gas Field Jefferson Davis Parish, Louisiana LDNR OC Legacy Project No. 031-027 HET Project No. 1009.A75																																			
Table 4 Page 2 of 2																																			
Well Number (Screen Interval)	Date	Sampler	Salinity						BTEX				Hydrocarbons			Metals															Alkalinity		Radium		
			Chloride	Bromide	Cl/Br Ratio	Specific Conductivity	TDS	Sulfate	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Strontium	Zinc	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Radium 226	Radium 228
			9056A mg/L	9056A mg/L	N/A	2510B umhos/ cm	2540C mg/L	9056A mg/L	8260B mg/L	8260B mg/L	8260B mg/L	8260B mg/L	8015C mg/L	8015C mg/L	8015C mg/L	6020 mg/L	6020 mg/L	6020 mg/L	6010B mg/L	6020 mg/L	6010B mg/L	6020 mg/L	6010B mg/L	6010B mg/L	7470A mg/L	6010B mg/L	6020 mg/L	6020 mg/L	6010B mg/L	6020 mg/L	6010B mg/L	6020 mg/L	2320B mg/L	2320B mg/L	EPA 903 pCi/L
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	
CD-13B (32-42)	06/13/22	ICON	183	—	—	—	790	14.4	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.133	<0.123	0.00878	0.703	<0.00500	131	<0.0100	4.47	<0.0100	36.1	0.413	<0.000200	6.07	—	—	90.1	0.8	<0.0100	180	<20.0	0.388	0.386
CD-13B (32-42)	06/13/22	ERM	178	—	—	—	870	15	<0.0010	0.0013	<0.0010	<0.0010	—	—	—	0.00866	0.756	<0.00200	135	<0.00400	4.36	<0.00200	37.3	0.443	<0.000200	5.92	—	—	89.4	0.795	<0.00400	447	<5.00	Pending	Pending
CD-13B (32-42) (Dissolved)	06/13/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0093	0.789	<0.00200	—	<0.00400	3.91	<0.00200	—	0.449	<0.000200	—	—	—	—	0.789	0.00453	—	—	—	—
CD-14A (30-40)	06/14/22	ICON	211	—	—	—	682	1.31	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.130	<0.120	0.0733	0.521	<0.00500	72.3	<0.0100	2.83	<0.0100	32.2	0.427	<0.000200	<5.00	—	—	129	0.542	<0.0100	325	<20.0	0.0789	0.903
CD-14A (30-40)	06/14/22	ERM	180	—	—	—	624	1.14	<0.0010	<0.0010	<0.0010	<0.0010	—	—	—	0.0638	0.489	<0.00200	67.6	<0.00400	2.39	<0.00200	28.6	0.407	<0.000200	4	—	—	118	0.471	<0.00400	356	<5.00	Pending	Pending
CD-14A (30-40) (Dissolved)	06/14/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0716	0.57	<0.00200	—	<0.00400	2.58	<0.00200	—	0.454	<0.000200	—	—	—	—	0.528	<0.00400	—	—	—	—
CD-15A (28-38)	06/23/22	ICON	302	—	—	—	925	34.9	<0.00500	0.0153	<0.00500	<0.0500	<0.150	<0.127	<0.117	0.0243	0.698	<0.00500	105	<0.0100	2.22	<0.0100	37.8	0.544	<0.000200	5.31	—	—	196	0.642	<0.0100	355	<20.0	0.416	0.967
CD-15A (28-38)	06/23/22	ERM	302	—	—	—	908	1.14	<0.0010	0.0130	<0.0010	<0.0010	—	—	—	0.0216	0.662	<0.00200	85.4	<0.00400	1.75	<0.00200	30	0.485	<0.000200	3.79	—	—	149	0.502	<0.00400	411	<5.00	Pending	Pending
CD-15A (28-38) (Dissolved)	06/23/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0265	0.677	<0.00200	—	0.0058	1.78	<0.00200	—	0.513	<0.000200	—	—	—	—	0.581	<0.00400	—	—	—	—
CD-15B (38-48)	06/23/22	ICON	241	—	—	—	780	<1.25	<0.00500	0.0194	<0.00500	<0.0500	<0.150	0.196	<0.117	0.00854	0.605	<0.00500	97	<0.0100	3.11	<0.0100	34.2	0.409	<0.000200	6.19	—	—	147	0.642	<0.0100	312	<20.0	0.356	0.509
CD-15B (38-48)	06/23/22	ERM	234	—	—	—	782	<0.500	<0.0010	0.014	<0.0010	<0.0010	—	—	—	0.00831	0.613	<0.00200	86.3	0.0106	2.76	<0.00200	29.7	0.392	<0.000200	5	—	—	121	0.544	<0.00400	368	<5.00	Pending	Pending
CD-15B (38-48) (Dissolved)	06/23/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0126	0.611	<0.00200	—	0.00457	2.72	<0.00200	—	0.402	<0.000200	—	—	—	—	0.595	<0.00400	—	—	—	—
CD-16A1 (16-26)	06/13/24	ICON	82.0	0.339	242	—	626	20.7	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.130	<0.149	<0.0100	0.317	<0.00500	71.7	<0.0100	0.463	<0.0100	25.3	0.0851	<0.000200	<5.00	—	—	146	0.405	<0.0100	452	<20.0	0.501	0.503
CD-16A1 (16-26)	06/13/24	ERM	78.1	<0.500	—	—	642	20.3	<0.001	<0.005	<0.001	<0.001	—	—	—	<0.0050	0.313	<0.0050	72.8	<0.005	<0.500	<0.0050	27.4	0.077	<0.00020	1.94	<0.005	<0.0050	136	0.415	<0.050	490	<10	Pending	Pending
CD-16A1 (16-26) (Dissolved)	06/13/24	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.0010	0.313	<0.0010	—	<0.001	<0.100	<0.0010	25.4	0.066	<0.00020	—	<0.001	<0.0010	—	0.34	<0.010	—	—	—	—
CD-16A2 (36-46)	06/13/24	ICON	195	0.671	291	—	673	0.297	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.131	<0.148	0.0212	0.469	<0.00500	90.9	<0.0100	2.81	<0.0100	30.8	0.338	<0.000200	7.32	—	—	115	0.622	<0.0100	325	<20.0	0.579	0.261
CD-16A2 (36-46)	06/13/24	ERM	203	<0.500	—	—	705	<2.50	<0.001	<0.005	<0.001	<0.001	—	—	—	0.0172	0.449	<0.0050	88.2	<0.005	2.56	<0.0050	31.8	0.329	<0.00020	6.2	<0.005	<0.0050	104	0.594	<0.050	360	<10	Pending	Pending
CD-16A2 (36-46) (Dissolved)	06/13/24	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0182	0.459	<0.0010	—	<0.001	3.3	<0.0010	31.5	0.344	<0.00020	—	<0.001	<0.0010	—	0.533	<0.010	—	—	—	—
CD-17A1 (16-26)	06/18/24	ICON	474	1.36	349	—	975	13	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	1.05	1.34	0.0291	0.521	<0.00500	131	<0.0100	1.17	<0.0100	50.3	1.05	<0.000200	7.2	—	—	133	0.916	0.0217	348	<20.0	Pending	Pending
CD-17A1 (16-26)	06/18/24	ERM	354	<0.500	—	—	1050	5.63	<0.001	0.006	<0.001	<0.001	—	—	—	0.0099	0.49	<0.0050	132	<0.010	2.41	0.0013	52.3	0.964	<0.00020	6.6	<0.001	<0.0050	137	0.855	<0.100	310	<10	Pending	Pending
CD-17A1 (16-26) (Dissolved)	06/18/24	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0143	0.539	<0.0050	—	<0.010	<0.500	<0.0050	57	1.22	<0.00020	—	<0.005	<0.0050	—	0.966	<0.100	—	—	—	—
CD-17A2 (39-49)	06/18/24	ICON	230	2.71	84.9	—	835	3.34	<0.00500</																										

Groundwater Analytical Summary - Zone B

Castex Development, LLC v. Anadarko Petroleum Corporation, et al.
31st Judicial District Court, Docket No. C-050220
Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West
Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West
West Mermentau Oil and Gas Field
Jefferson Davis Parish, Louisiana
LDENR OC Legacy Project No. 031-027
HET Project No. 1009.A75

Table 5
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Well Number (Screen Interval)	Date	Sampler	Salinity						BTEX				Hydrocarbons			Metals																		Alkalinity		Radium	
			Chloride	Bromide	Cl/Br Ratio	Specific Conductivity	TDS	Sulfate	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Strontium	Zinc	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Radium 226	Radium 228		
			9056A	9056A	N/A	2510B	2540C	9056A	8260B	8260B	8260B	8260B	8015C	8015C	8015C	6020	6020	6020	6010B	6020	6010B	6020	6010B	6010B	7470A	6010B	6020	6020	6010B	6020	6020	2320B	2320B	EPA 903	EPA 904		
			mg/L	mg/L	N/A	umhos/ cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³			
CD-1C (48-58')	03/21/22	ICON	40.9	—	—	—	413	16.8	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.128	<0.118	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	280	<20.0	1.12	1.43		
CD-1C (48-58') (Dissolved)	03/21/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.00250	0.353	<0.00500	—	<0.0100	0.664	<0.0100	—	0.211	<0.000200	—	—	—	—	0.332	<0.0100	—	—	—	—		
CD-1C (48-58') FD	03/21/22	ICON	44.3	—	—	—	404	17	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.131	<0.120	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	278	<20.0	—	—		
CD-1C (48-58') FD (Dissolved)	03/21/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.00250	0.36	<0.00500	—	<0.0100	0.594	<0.0100	—	0.215	<0.000200	—	—	—	—	0.337	<0.0100	—	—	—	—		
CD-1C (48-58')	03/21/22	ERM	44.4	—	—	—	408	17.7	<0.0010	0.0027	<0.0010	<0.0010	—	—	—	0.00419	0.518	<0.00200	69.7	0.0135	7.75	0.00948	19.7	0.448	<0.000200	3.16	—	—	70	0.345	0.0384	315	<5.00	0.328	1.29		
CD-1C (48-58') (Dissolved)	03/21/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.00200	0.382	<0.00200	—	<0.00400	0.659	<0.00200	—	0.216	<0.000200	—	—	—	—	0.317	<0.00400	—	—	—	—		
CD-2B (58-68')	03/17/22	ICON	2450	—	—	—	4060	15.2	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.130	<0.120	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	152	<20.0	3.05	6.84		
CD-2B (58-68') (Dissolved)	03/17/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00855	3.93	<0.00500	—	<0.0100	13.1	<0.0100	—	2.1	<0.000200	—	—	—	—	4.68	<0.0100	—	—	—	—		
CD-2B (58-68')	03/17/22	ERM	2510	—	—	—	6230 H	11.9	<0.0010	<0.0010	<0.0010	<0.0010	—	—	—	0.00999	4.14	<0.00200	718	0.00424	15.6	<0.00200	219	2.22	<0.000200	10.8	—	—	306	4.55	0.0108	167	<5.00	3.92	4.17		
CD-2B (58-68') (Dissolved)	03/17/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0102	4.24	<0.00200	—	<0.00400	12.9	<0.00200	—	2.27	<0.000200	—	—	—	—	4.73	<0.00400	—	—	—	—		
CD-3B (60-65')	03/18/22	ICON	3520	—	—	—	6020	152	<0.00500	<0.0500	<0.0250	<0.250	<0.150	0.409	<0.123	0.00943	2.42	<0.00500	808	<0.0100	12.1	<0.0100	231	2.5	<0.000200	18.4	—	—	858	5.36	<0.0100	142	<20.0	-1.37	4.48		
CD-3B (60-65')	03/18/22	ERM	3190	—	—	—	8060	125	<0.0010	0.035	<0.0010	<0.0010	—	—	—	0.0273	0.866	<0.00200	914	0.145	68.8	0.0424	272	4.82	<0.000200	16.7	—	—	798	5.45	0.261	159	<5.00	Pending	Pending		
CD-3B (60-65') (Dissolved)	03/18/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0100	1.4	<0.00200	—	<0.00400	11.9	<0.00200	—	2.56	<0.000200	—	—	—	—	5.42	0.00598	—	—	—	—		
CD-4B (62-67')	03/21/22	ICON	1230	—	—	—	2020	39.1	<0.00500	0.0172	<0.00500	<0.0500	<0.150	<0.130	<0.120	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	210	<20.0	2.12	2.70		
CD-4B (62-67') (Dissolved)	03/21/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0187	1.09	<0.00500	—	<0.0100	5.12	<0.0100	—	1.09	<0.000200	—	—	—	—	2.46	<0.0100	—	—	—	—		
CD-4B (62-67')	03/21/22	ERM	1150	—	—	—	2580	39.9	<0.0010	0.017	<0.0010	<0.0010	—	—	—	0.0235	1.44	<0.00200	271	0.0235	16.9	0.00946	84.3	1.32	<0.000200	6.39	—	—	221	2.12	0.0499	212	<5.00	1.13	1.29		
CD-4B (62-67') (Dissolved)	03/21/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0208	1.14	<0.00200	—	<0.00400	5.14	<0.00200	—	1.12	<0.000200	—	—	—	—	2.34	<0.00400	—	—	—	—		
CD-5B (65-70')	03/23/22	ICON	12900	—	—	—	21300	<25.0	0.0154	<0.0100	<0.0050	<0.0500	<0.150	<0.128	<0.119	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	158	<20.0	21.6	27.2		
CD-5B (65-70') (Dissolved)	03/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00313	25.1	<0.00500	—	<0.0100	54.1	<0.0100	—	8.7	<0.000200	—	—	—	—	27.6	<0.0100	—	—	—	—		
CD-5B (65-70')	03/23/22	ERM	12900	—	—	—	26500	14.1	0.013	<0.0010	<0.0010	<0.0010	—	—	—	<0.0100	27.9	<0.0100	2840	0.0516	99.3	0.0788	770	12.3	<0.000200	20.8	—	—	3320	26.2	0.213	177	<5.00	4.70	23.0		
CD-5B (65-70') (Dissolved)	03/23/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.0100	32.7	<0.0100	—	<0.0200	55.2	<0.0100	—	11.1	<0.000200	—	—	—	—	31.7	<0.0200	—	—	—	—		
CD-5C (90-95')	05/09/22	ICON	311	—	—	—	855	0.367	<0.00500	0.0149	<0.00500	<0.0500	<0.150	<0.134	<0.124	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	205 H	<20.0 H	2.40	3.17		
CD-5C (90-95') (Dissolved)	05/09/22	ICON	—	—	—	—	—	—	—	—																											

Groundwater Analytical Summary - Zone B																																			
Castex Development, LLC v. Anadarko Petroleum Corporation, et al. 31st Judicial District Court, Docket No. C-050220 Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West West Mermentau Oil and Gas Field Jefferson Davis Parish, Louisiana LDENR OC Legacy Project No. 031-027 HET Project No. 1009.A75																																			
Table 5 Page 2 of 2																																			
Well Number (Screen Interval)	Date	Sampler	Salinity						BTEX				Hydrocarbons			Metals															Alkalinity		Radium		
			Chloride	Bromide	Cl/Br Ratio	Specific Conductivity	TDS	Sulfate	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Strontium	Zinc	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Radium 226	Radium 228
			9056A	9056A	N/A	2510B	2540C	9056A	8260B	8260B	8260B	8015C	8015C	8015C	6020	6020	6020	6010B	6020	6010B	6020	6010B	6010B	7470A	6010B	6020	6020	6010B	6020	6020	2320B	2320B	EPA 903	EPA 904	
			mg/L	mg/L	N/A	umhos/ cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	
CD-14B (60-80')	06/13/22	ICON	8260	—	—	—	12900	<12.5	0.322	0.138	0.0113	0.0657	1.69	0.328	0.167	0.0328	9.19	<0.00500	659	<0.0100	18.4	<0.0100	188	2.01	<0.000200	34.7	—	—	4110	18.3	<0.0100	298	<20.0	7.45	8.88
CD-14B (60-80')	06/13/22	ERM	7960	—	—	—	16500	<5.00	0.350	0.150	0.0110	0.0600	—	—	—	0.0286	10.7	<0.0100	790	<0.0200	18.3	<0.0100	208	1.99	<0.000200	19.8	—	—	4870	19.5	<0.0200	345	<5.00	Pending	Pending
CD-14B (60-80') (Dissolved)	06/13/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0332	11.3	<0.00200	—	<0.00400	19	<0.00200	—	2.45	<0.000200	—	—	—	20.8	0.00727	—	—	—	—	
CD-15C (63-68')	06/23/22	ICON	77.1	—	—	—	433	4.36	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.126	0.125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	275	<20.0	Pending	Pending
CD-15C (63-68') (Dissolved)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0148	0.299	<0.00500	54.3	<0.0100	0.827	<0.0100	15.8	0.202	<0.000200	<5.00	—	—	75	0.345	<0.0100	—	—	—	—
CD-15C (63-68')	06/23/22	ERM	77.1	—	—	—	440	9.45	<0.0010	<0.0010	<0.0010	<0.0010	—	—	—	0.0155	0.54	<0.00200	73.6	0.0111	11	0.00861	20.7	0.648	<0.000200	3.75	—	—	65.7	0.339	0.0564	314	<5.00	Pending	Pending
CD-15C (63-68') (Dissolved)	06/23/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.015	0.286	<0.00020	—	<0.00400	0.768	<0.00200	—	0.19	<0.000200	—	—	—	—	0.338	<0.00400	—	—	—	—
CD-16B (63-68')	06/13/24	ICON	74.0	0.157	471	—	361	2.31	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.143	<0.132	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	300	<20.0	1.54	1.17
CD-16B (63-68') (Dissolved)	06/13/24	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0181	0.22	<0.00500	46.5	<0.0100	0.397	<0.0100	13	0.156	<0.000200	<5.00	—	—	63.4	0.279	<0.0100	—	—	—	—
CD-16B (63-68')	06/13/24	ERM	70.9	<0.200	—	—	355	2.15	<0.001	<0.005	<0.001	<0.001	—	—	—	0.0452	0.645	<0.0050	155	0.188	98.7	0.041	61.6	1.97	<0.00020	12.1	<0.005	<0.0050	66.3	0.523	0.323	230	<10	Pending	Pending
CD-16B (63-68') (Dissolved)	06/13/24	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0149	0.224	<0.0010	—	0.006	3.42	0.0011	14.2	0.195	<0.00020	—	<0.001	<0.0010	—	0.196	<0.010	—	—	—	—
CD-17B (62-72')	06/19/24	ICON	278	0.811	343	—	621	<0.250	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.136	0.181	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	212	<20.0	1.34	1.08
CD-17B (62-72') (Dissolved)	06/19/24	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0132	0.451	<0.00500	89.2	<0.0100	1.49	<0.0100	25.8	0.371	<0.000200	<5.00	—	—	93.1	0.539	<0.0100	—	—	—	—
CD-17B (62-72')	06/19/24	ERM	248	<0.500	—	—	756	<2.50	<0.001	0.009	<0.001	<0.001	—	—	—	0.0076	0.461	<0.0010	98.9	0.04	18.2	0.0059	29.3	0.764	<0.00020	5.91	<0.001	<0.0010	89.2	0.506	0.064	245	<10	Pending	Pending
CD-17B (62-72') (Dissolved)	06/19/24	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0106	0.46	<0.0010	—	<0.005	1.52	<0.0010	27.6	0.354	<0.00020	—	<0.005	<0.0010	—	0.554	<0.050	—	—	—	—
CD-18C (52-57')	08/06/24	ICON	176	—	—	—	547	8.44	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.134	<0.124	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	225	<20.0	Pending	Pending
CD-18C (52-57') (Dissolved)	08/06/24	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0161	0.512	<0.00500	95.2	<0.0100	1.8	<0.0100	28.2	0.302	<0.000200	5.14	—	—	99.9	0.586	<0.0100	—	—	—	—
CD-18C (52-57')	08/06/24	ERM	163	<0.500	—	—	536	8.63	<0.001	0.005	<0.001	<0.001	—	—	—	0.0177	0.406	<0.0010	77.3	0.006	5.00	0.002	22.1	0.326	<0.00020	5	<0.001	<0.0010	75.2	0.443	0.013	240	<10	0.968	3.52
CD-18C (52-57') (Dissolved)	08/06/24	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0172	0.392	<0.0010	—	<0.001	1.5	<0.0010	—	0.243	<0.00020	—	<0.001	<0.0010	—	0.465	<0.010	—	—	—	—
CD-18D (64-74')	08/06/24	ICON	148	—	—	—	470	10.7	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.139	<0.129	0.0211	0.36	<0.00500	67.9	<0.0100	2.83	<0.0100	18.8	0.27	<0.000200	<5.00	—	—	73.7	0.39	<0.0100	222	<20.0	Pending	Pending
CD-18D (64-74')	08/06/24	ERM	145	0.334	434	—	496	9.25	<0.001	<0.005	<0.001	<0.001	—	—	—	0.0954	0.546	<0.0010	102	0.065	37.3	0.02180	27.2	0.773	<0.00020	6.85	0.002	<0.0010	69.5	0.437	0.096	230	<10	0.0960	3.13
CD-18D (64-74') (Dissolved)	08/06/24	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0191	0.348	<0.0010	—	<0.001	1.71	<0.0010	—	0.246	<0.00020	—	<0.001	<0.0010	—	0.37	<0.010	—	—	—	—
CD-19C (52-62')	08/07/24	ICON	168	—	—	—	557	15.9	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.134	<0.123	0.0214	0.354	<0.00500	64.5	<0.0100	2.71	<0.0100	17.6	0.237	<0.000200	<5.00	—	—	67.22	0.401	0.0119	220	<20.0	Pending	Pending
CD-19C (52-62')	08/07/24	ERM	156	0.457	341	—	525	15.8	<0.001	<0.005	<0.001	<0.001	—	—	—	0.0221	0.376	<0.0010	72.9	0.003	2.63	<0.0010	18.7	0.28	<0.00020	4.3	<0.001	<0.0010	69.7	0.442	<0.010	240	<10	1.63	5.70
CD-19C (52-62') (Dissolved)	08/07/24	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.022	0.359	<0.0010	—	<0.001	1.37	<0.0010	—	0.224	<0.00020	—	0.001	<0.0010	—	0.42	<0.010	—	—	—	—
Maximum	N/A	N/A	12900	0.811	471	—	26500	152	0.350	0.150	0.0113	0.0657	1.69	0.44	0.181	0.0954	32.7	<0.0100	2840	0.188	99.3	0.0788	770	12.3	<0.00020	34.7	0.002	<0.0010	4870	31.7	0.323	371	<20.0	48.8	
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only

2 - EPA Secondary Drinking Water Standard

3 - EPA Primary Drinking Water Standard

BTEX - Benzene, Toluene, Ethylbenzene, and Xylene

TDS - Total Dissolved Solids

pCi/L - picocuries per liter

H - Holding time for preparation or analysis exceeded

Filtered - Dissolved metal containers filtered and preserved at time of sample collection

mg/L - milligrams per liter equivalent to parts per million (ppm)

umhos/cm - micro mohs per centimeter

— Not Analyzed

N/A - Not Applicable

Groundwater Analytical Summary - Transition Zone																																			
Castex Development, LLC v. Anadarko Petroleum Corporation, et al.																																			
31st Judicial District Court, Docket No. C-050220																																			
Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West																																			
Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West																																			
West Mermentau Oil and Gas Field																																			
Jefferson Davis Parish, Louisiana																																			
LDENR OC Legacy Project No. 031-027																																			
HET Project No. 1009.A75																																			
Table 6																																			
Page 1 of 1																																			
Well Number (Screen Interval)	Date	Sampler	Salinity						BTEX				Hydrocarbons			Metals															Alkalinity		Radium		
			Chloride	Bromide	Cl/Br Ratio	Specific Conductivity	TDS	Sulfate	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Strontium	Zinc	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Radium 226	Radium 228
			9056A	9056A	N/A	2510B	2540C	9056A	8260B	8260B	8260B	8260B	8015C	8015C	8015C	6020	6020	6020	6010B	6020	6010B	6020	6010B	6010B	7470A	6010B	6020	6020	6010B	6020	6020	2320B	2320B	EPA 903	EPA 904
			mg/L	mg/L	N/A	umhos/ cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	
CD-5D (95-110')	06/16/22	ICON	55.4	—	—	—	327	0.762	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	0.282	0.179	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	218	<20.0	0.445	0.447	
CD-5D (95-110') (Dissolved)	06/16/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.00250	0.349	<0.00500	53	<0.0100	2.95	<0.0100	13.7	0.235	<0.000200	<5.00	—	—	62.1	0.272	<0.0100	—	—	—	—
CD-5D (95-110')	06/16/22	ERM	54.7	—	—	—	392	0.736	<0.001	<0.001	<0.001	<0.001	—	—	—	<0.00200	0.351	<0.00200	59.7	0.0153	7.59	0.00414	15.6	0.405	<0.000200	4.58	—	—	57.6	0.245	0.021	232	<5.00	—	—
CD-5D (95-110') (Dissolved)	06/16/22	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.00200	0.367	<0.00200	—	0.00544	3.23	<0.00200	—	0.241	<0.000200	—	—	—	0.275	0.00535	—	—	—	—	
CD-19D (94-104')	07/30/24	ICON	64.4	—	—	—	347	0.379	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.131	<0.131	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	315	<20.0	Pending	Pending
CD-19D (94-104') (Dissolved)	07/30/24	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.0100	0.349	<0.00500	64	<0.0100	0.247	<0.0100	17.5	0.223	<0.000200	<5.00	—	—	90	0.367	<0.0100	—	—	—	—
CD-19D (94-104')	07/30/24	ERM	65.7	<0.200	—	—	348	<1.00	<0.001	<0.005	<0.001	<0.001	—	—	—	0.0234	0.754	0.0014	121	0.211	91.4	0.0382	48.1	1.48	<0.00020	11.2	0.003	<0.0010	64.5	0.423	0.283	240	<10	1.67	8.68
CD-19D (94-104') (Dissolved)	07/30/24	ERM	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0049	0.238	<0.0010	—	<0.001	0.86	<0.0010	—	0.158	<0.00020	—	<0.001	<0.0010	—	0.259	<0.010	—	—	—	—
Maximum	N/A	N/A	65.7	<0.200	—	—	392	0.762	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	0.282	0.179	0.0234	0.754	0.0014	121	0.211	91.4	0.0382	48.1	1.48	<0.00020	11.2	0.003	<0.0010	90	0.423	0.283	315	<20.0	10.4	
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only

2 - EPA Secondary Drinking Water Standard

3 - EPA Primary Drinking Water Standard

BTEX - Benzene, Toluene, Ethylbenzene, and Xylene

TDS - Total Dissolved Solids

pCi/L - picocuries per liter

Filtered - Dissolved metal containers filtered and preserved at time of sample collection

mg/L - milligrams per liter equivalent to parts per million (ppm)

umhos/cm - micro mohs per centimeter

— Not Analyzed

N/A - Not Applicable

Groundwater Analytical Summary (Additional Parameters) - Zone A

Castex Development, LLC v. Anadarko Petroleum Corporation, et al.
31st Judicial District Court, Docket No. C-050220
Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West
Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West
West Mermentau Oil and Gas Field
Jefferson Davis Parish, Louisiana
LDENR OC Legacy Project No. 031-027
HET Project No. 1009.A75

Table 7
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Additional Parameters																												
Well Number (Screen Interval)	Date	Sampler	VPH			EPH							PAH															
			C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	2-Methyl- naphthalene	Acenaphthene	Ace- naphthylene	Anthracene	Benz(a)- anthracene	Benzo(a)- pyrene	Benzo(b)- fluoranthene	Benzo(k)- fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor- anthene	Fluorene	Indeno (1,2,3- cd) pyrene	Naphthalene	Phen- anthrene	Pyrene
			MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CD-1A (13-18')	03/18/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-1B (32-37')	03/18/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-2A (33-43')	03/17/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-3A (27-42')	03/17/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-4A (27-42')	03/21/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-5A (28-43')	03/21/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-6A (30-40')	05/12/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-7B (27-32')	05/11/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-7C (40-50')	05/12/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-8A (20-30')	05/10/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-9A (26-36')	05/09/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-10A (30-40')	05/10/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-11A (30-35')	05/10/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-12A (7-17')	06/13/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-12B (29-39')	06/13/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-13A (22-32')	06/13/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-13B (32-42')	06/13/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-14A (30-40')	06/14/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-15A (28-38')	06/23/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-15B (38-48')	06/23/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-16A1 (16-26')	06/13/24	ERM	0.009	<0.013	<0.005	<0.128	<0.128	<0.128	<0.128	<0.128	<0.213	<0.149	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-16A2 (36-46')	06/13/24	ERM	<0.005	<0.013	<0.005	<0.125	<0.125	<0.125	<0.125	<0.125	<0.208	<0.146	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-17A1 (16-26')	06/18/24	ERM	<0.005	<0.013	<0.005	<0.120	<0.120	<0.120	<0.120	<0.120	<0.200	<0.140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-17A2 (39-49')	06/18/24	ERM	<0.005	<0.013	<0.005	<0.122	<0.122	<0.122	<0.122	<0.122	<0.204	<0.143	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-18A (16-26')	08/06/24	ERM	<0.005	0.017	<0.005	<0.120	<0.120	<0.120	<0.120	<0.120	<0.200	<0.140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-18B (32-42')	08/06/24	ERM	<0.005	<0.013	<0.005	<0.120	<0.120	<0.120	<0.120	<0.120	<0.200	<0.140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-19A (10-20')	08/07/24	ERM	<0.005	<0.013	<0.005	<0.120	<0.120	<0.120	<0.120	<0.120	<0.200	<0.140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-19B (32-42')	08/07/24	ERM	<0.005	<0.013	<0.005	<0.125	<0.125	<0.125	<0.125	<0.125	<0.208	<0.146	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Maximum	N/A	N/A	0.009	0.017	<0.0100	<0.128	<0.128	<0.128	<0.128	<0.128	<0.213	<0.149	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LDEQ RECAP SS ¹	10/20/03	N/A	3.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15	7.3	0.15	0.00062	0.037	0.1	0.043	0.0078	0.0002	0.0048	0.0025	0.0016	0.0025	0.15	0.024	0.0037	0.01	0.18	0.018

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only
2 - EPA Secondary Drinking Water Standard
VPH - Volatile Petroleum Hydrocarbons
EPH - Extractable Petroleum Hydrocarbons
mg/L - milligrams per liter equivalent to parts per million (ppm)
— Not Analyzed
N/A - Not Applicable

Groundwater Analytical Summary (Additional Parameters) - Zone B

Castex Development, LLC v. Anadarko Petroleum Corporation, et al.
31st Judicial District Court, Docket No. C-050220
Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West
Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West
West Mermentau Oil and Gas Field
Jefferson Davis Parish, Louisiana
LDENR OC Legacy Project No. 031-027
HET Project No. 1009.A75

Table 8
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Additional Parameters																												
Well Number (Screen Interval)	Date	Sampler	VPH			EPH							PAH															
			C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	2-Methyl- naphthalene	Acenaphthene	Ace- naphthylene	Anthracene	Benz(a)- anthracene	Benzo(a)- pyrene	Benzo(b)- fluoranthene	Benzo(k)- fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor- anthene	Fluorene	Indeno (1,2,3- cd) pyrene	Naphthalene	Phen- anthrene	Pyrene
			MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CD-1C (48-58')	03/21/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-2B (58-68')	03/17/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-3B (60-65')	03/18/22	ERM	0.0132	0.0136	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-4B (62-67')	03/21/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-5B (65-70')	03/23/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-5C (90-95')	05/09/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-6B (56-66')	05/12/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-8B (52-62')	05/10/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-9B (58-68')	05/09/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-10D (67-82')	06/21/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-11B (60-70')	05/11/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-13C (58-68')	06/14/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-14B (60-80')	06/13/22	ERM	0.0989	0.014	0.0489	<0.00100	0.0365	<0.00200	0.0283	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-15C (63-68')	06/23/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	0.00741	<0.00200	0.0921	0.0928	0.849	10.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-16B (63-68')	06/13/24	ERM	0.006	<0.013	<0.005	<0.125	<0.125	<0.125	<0.125	<0.125	<0.208	<0.146	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-17B (62-72')	06/19/24	ERM	<0.005	<0.013	<0.005	<0.120	<0.120	<0.120	<0.120	<0.120	<0.200	<0.140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-18C (52-57')	08/06/24	ERM	<0.005	<0.013	<0.005	<0.122	<0.122	<0.122	<0.122	<0.122	<0.204	<0.143	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-18D (64-74')	08/06/24	ERM	<0.005	<0.013	<0.005	<0.120	<0.120	<0.120	<0.120	<0.120	<0.200	<0.140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-19C (52-62')	08/07/24	ERM	<0.005	<0.013	<0.005	<0.120	<0.120	<0.120	<0.120	<0.120	<0.200	<0.140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Maximum	N/A	N/A	0.0989	0.014	0.0489	<0.125	0.0365	<0.125	0.0921	0.0928	0.849	10.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LDEQ RECAP SS ¹	10/20/03	N/A	3.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15	7.3	0.15	0.00062	0.037	0.1	0.043	0.0078	0.0002	0.0048	0.0025	0.0016	0.0025	0.15	0.024	0.0037	0.01	0.18	0.018

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only
2 - EPA Secondary Drinking Water Standard
VPH - Volatile Petroleum Hydrocarbons
EPH - Extractable Petroleum Hydrocarbons
mg/L - milligrams per liter equivalent to parts per million (ppm)
— Not Analyzed
N/A - Not Applicable

Groundwater Analytical Summary (Additional Parameters) - Transition Zone

Castex Development, LLC v. Anadarko Petroleum Corporation, et al.
31st Judicial District Court, Docket No. C-050220
Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West
Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West
West Mermentau Oil and Gas Field
Jefferson Davis Parish, Louisiana
LDENR OC Legacy Project No. 031-027
HET Project No. 1009.A75

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Additional Parameters																												
Well Number (Screen Interval)	Date	Sampler	VPH			EPH							PAH															
			C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	2-Methyl- naphthalene	Acenaphthene	Ace- naphthylene	Anthracene	Benz(a)- anthracene	Benzo(a)- pyrene	Benzo(b)- fluoranthene	Benzo(k)- fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor- anthene	Fluorene	Indeno (1,2,3- cd) pyrene	Naphthalene	Phen- anthrene	Pyrene
			MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CD-5D (95-110')	06/16/22	ERM	<0.0100	<0.0100	<0.0100	<0.00100	<0.00100	<0.00200	<0.00400	<0.00300	<0.00800	<0.00900	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CD-19D (94-104')	07/30/24	ERM	<0.005	<0.013	<0.005	<0.122	<0.122	<0.122	<0.122	<0.122	<0.204	<0.143	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Maximum	N/A	N/A	<0.0100	<0.013	<0.0100	<0.122	<0.122	<0.122	<0.122	<0.122	<0.204	<0.143	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LDEQ RECAP SS ¹	10/20/03	N/A	3.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15	7.3	0.15	0.00062	0.037	0.1	0.043	0.0078	0.0002	0.0048	0.0025	0.0016	0.0025	0.15	0.024	0.0037	0.01	0.18	0.018

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only
2 - EPA Secondary Drinking Water Standard
VPH - Volatile Petroleum Hydrocarbons
EPH - Extractable Petroleum Hydrocarbons
mg/L - milligrams per liter equivalent to parts per million (ppm)
— Not Analyzed
N/A - Not Applicable

Natural Gas Analytical Summary																													
Castex Development, LLC v. Anadarko Petroleum Corporation, et al. 31st Judicial District Court, Docket No. C-050220 Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West West Mermentau Oil and Gas Field Jefferson Davis Parish, Louisiana LDENR OC Legacy Project No. 031-027 HET Project No. 1009.A75																													
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Well Name (Depth)	Date	Sampler	Carbon Monoxide	Helium	Hydrogen	Argon	Oxygen	Nitrogen	Carbon Dioxide	Methane	Ethane	Ethylene	Propane	Propylene	Iso-butane	N-butane	Iso-pentane	N-pentane	Hexanes +	δ13C02	δ13C1	δDC1	δ13C2	δDC2	δ13C3	δDC3	δ13nC4	Specific Gravity	BTU
			CO	He	H2	Ar	O2	N2	CO2	C1	C2	C2H4	C3	C3H6	iC4	nC4	iC5	nC5	C6+	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	@ 60deg F	* See Below
			Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	Chemical Mol. %	%	%	%	%	%	%	%	%	Calculated
CD-2A (33-43')	5/13/22	HET	ND	ND	ND	0.664	11.55	51.7	1.92	31.59	1.33	0.0003	0.617	0.0001	0.292	0.144	0.0936	0.0426	0.0599	-16.87	-40.14	-174.1	-27.1	-145.4	-25.12	-120.90	-25.93	0.878	382
CD-2A (33-43')	5/13/22	ICON	ND	ND	ND	0.710	13.20	56.34	1.52	26.29	1.03	0.0002	0.458	ND	0.210	0.103	0.0656	0.0300	0.0401	-17.38	-42.95	-176.1	—	—	—	—	—	0.897	312
CD-6C (75-80')	5/13/22	HET	ND	ND	ND	0.184	3.58	14.68	0.39	75.54	3.09	ND	1.38	ND	0.495	0.313	0.17	0.0723	0.109	-16.26	-45.33	-173.5	-29.86	-147.9	-27.52	-127.70	-26.29	0.687	897
CD-6C (75-80')	5/13/22	ICON	ND	ND	ND	0.190	3.66	14.77	0.40	75.56	3.05	ND	1.33	ND	0.467	0.284	0.147	0.0602	0.0862	-17.01	-45.32	-177.7	—	—	—	—	—	0.685	891
CD-5B (65-70')	5/13/22	HET	ND	ND	ND	0.631	1.97	45.16	2.71	49.49	0.0132	ND	0.0093	ND	0.0107	0.0035	ND	0.0007	0.0034	-17	-51.93	-258.4	—	—	—	—	—	0.783	502
CD-5B (65-70')	5/13/22	ICON	ND	ND	ND	0.623	1.59	44.44	2.70	50.60	0.0134	ND	0.0092	ND	0.0108	0.0036	0.0048	0.0007	0.0031	-17.13	-52.50	-263.7	—	—	—	—	—	0.778	514
Maximum	N/A	N/A	ND	ND	ND	0.71	13.20	56.34	2.71	75.56	3.09	0.0003	1.38	0.0001	0.495	0.313	0.17	0.0723	0.109	-16.26	-40.14	-173.5	-27.1	-145.4	-25.12	-120.9	-25.93	0.897	897

N/A - Not Applicable
— Not Analyzed
* cu.ft dry @ 60deg F & 14.73psia

Geotechnical Analytical Summary Table

Castex Development, LLC v. Anadarko Petroleum Corporation, et al.
31st Judicial District Court, Docket No. C-050220
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Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West
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Jefferson Davis Parish, Louisiana
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Sample ID / Depth (feet)	Sample Date	Description	Atterberg Limits			% Passing No. 200 Sieve	Moisture Content (% Weight)	Dry Density (pcf)	Coefficient of Permeability (cm/sec)
			LL	PL	PI				
CD-05R (78-80')	04/21/25	Gray clay (CH), slightly silty	52	21	31	99.7	29.5	98.8	5.53×10^{-8}
CD-10R (68-70')	04/23/25	Tan silt (ML), slightly sandy	—	—	—	92.8	—	—	—
CD-10R (43-45')	04/15/25	Gray and tan clay (CH)	60	20	40	99.9	33.6	89.2	4.16×10^{-8}
CD-12R (29-30')	04/22/25	Red and gray clay (CH)	75	26	49	99.8	37.7	82.4	3.94×10^{-8}
CD-12R (54-56')	04/22/25	Tan silt (ML), slightly sandy	—	—	—	88.5	—	—	—
CD-12R (78-80')	04/22/25	Tan silt (ML) with sand	—	—	—	82.0	—	—	—
CD-18R (48-50')	04/16/25	Tan silt (ML), slightly sandy	—	—	—	87.1	—	—	—
CD-18R (72-74')	04/16/25	Gray clay (CH)	64	19	45	99.7	34.2	87.5	4.97×10^{-8}
DB-01 (58-60')	04/17/25	Gray clay (CH)	70	25	45	99.6	47.4	73.3	6.12×10^{-8}
DB-01 (70-72')	04/17/25	Gray clay (CH)	73	21	52	99.4	38.9	83.5	5.49×10^{-8}

— Not Analyzed

X-Ray Diffraction Bulk Mineralogy

**Castex Development, LLC v. Anadarko Petroleum Corporation, et al.
31st Judicial District Court, Docket No. C-050220
Sections 13 and 39, Township 10 South, Range 03 West; and Sections 17 and 18, Township 10 South, Range 02 West
Section 17, Township 10 South, Range 02 West and Section 39, Township 10 South, Range 03 West
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Jefferson Davis Parish, Louisiana
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Mineralogy Determined by X-Ray Diffraction

Sample Name	Sample Date	Semi Quantitative X-Ray Diffraction (XRD) & Energy Dispersive X-Ray Spectrometry (EDX)													
		Quartz	K-Feldspars	Plagioclase	Calcite	Fe-Dolomite	Pyrite	Halite	Barium Sulfide	Barite	Witherite	Barium Chloride	Baria	Barium Peroxide	Total Clay
SB-3 (0-2')	4/25/2025	61.5	1.6	5.2	2.0	ND	ND	ND	ND	Tr	ND	ND	ND	ND	29.8
CD-1R (0-2')	4/30/2025	81.3	1.1	1.0	ND	ND	ND	—	ND	5.5	ND	ND	ND	ND	11.1
HA-10R (0-2')	4/25/2025	59.7	0.8	2.6	ND	ND	ND	ND	ND	Tr	ND	ND	ND	ND	36.9

— Not Analyzed

Tr - Trace Amount

ND - None Detected