

**Table 2-4 Benchmark Data within the ETGSA Subsidence Monitoring
Area 2021 - 2025**

Benchmark ID	Owner	Latitude	Longitude	2021 Measurement Date	2022 Measurement Date	2023 Measurement Date	2024 Measurement Date	2025 Measurement Date	2021 Elevation (ft amst)	2022 Elevation (ft amst)	2023 Elevation (ft amst)	2024 Elevation (ft amst)	2025 Elevation (ft amst)	2021 to 2022 Subsidence (ft)	2022 - 2023 Subsidence (ft)	2023 - 2024 Subsidence (ft)	2024 - 2025 Subsidence (ft)	2021 - 2025 Cumulative Subsidence (ft)
E0035_B_RMS	Tule Subbasin TAC	35.946759	-119.179535	7/20/2021	8/16/2022	7/18/2023	7/8/2024	7/16/2025	341.44	341.11	340.92	340.76	340.52	0.33	0.19	0.16	0.24	0.92
E0047_B_RMS	Tule Subbasin TAC	36.007967	-119.143592	7/21/2021	8/16/2022	7/20/2023	7/4/2024	6/26/2025	365.73	365.35	365.09	364.94	365.13	0.38	0.26	0.15	-0.19	0.60
E0048_B_RMS	Tule Subbasin TAC	35.963965	-119.143187	7/22/2021	8/16/2022	7/19/2023	7/8/2024	7/7/2025	369.89	369.13	369.04	368.96	368.82	0.76	0.09	0.08	0.14	1.07
E0049_B_RMS	Tule Subbasin TAC	35.921217	-119.143854	7/21/2021	8/16/2022	8/3/2023	7/16/2024	7/7/2025	402.61	401.95	401.77	401.66	401.5	0.66	0.18	0.11	0.16	1.11
E0051_B_FKC	FWA	36.065720	-119.107738	7/19/2021	8/30/2022	7/27/2023	6/30/2024	6/25/2025	397.06	396.78	396.63	396.66	396.4	0.27	0.15	-0.03	0.26	0.66
E0053_B_FKC	FWA	35.978021	-119.107469	7/22/2021	8/16/2022	7/20/2023	7/1/2024	7/7/2025	399.32	399.17	399.16	398.94	398.83	0.15	0.01	0.22	0.11	0.49
E0056_G_FKC	FWA	36.080733	-119.083891	7/19/2021	8/16/2022	6/29/2023	6/30/2024	6/24/2025	406.75	406.69	406.64	406.82	406.42	0.06	0.05	-0.18	0.40	0.33
E0057_B_FKC	FWA	36.065853	-119.101469	7/21/2021	8/16/2022	7/18/2023	6/30/2024	6/24/2025	399.12	398.92	399.01	398.89	398.81	0.20	-0.09	0.12	0.08	0.31
E0058_B_FKC	FWA	36.046115	-119.088891	7/21/2021	8/4/2022	6/30/2023	6/30/2024	6/25/2025	407.68	407.38	407.12	407.11	406.93	0.30	0.26	0.01	0.18	0.75
E0059_B_FKC	FWA	36.023157	-119.080043	7/21/2021	8/4/2022	7/27/2023	7/1/2024	6/30/2025	417.67	417.17	417.02	416.84	416.75	0.50	0.15	0.18	0.09	0.92
E0060_B_FKC	FWA	36.022253	-119.104147	7/21/2021	8/16/2022	7/20/2023	7/1/2024	6/30/2025	393.41	393.00	392.93	392.66	392.55	0.41	0.07	0.27	0.11	0.86
E0061_B_FKC	FWA	36.007748	-119.095966	7/22/2021	8/16/2022	7/27/2023	7/1/2024	6/30/2025	403.54	403.21	402.93	402.94	402.66	0.33	0.28	-0.01	0.28	0.88
E0062_B_FKC	FWA	35.993320	-119.107673	7/22/2021	8/16/2022	1/16/2023	No Data	No Data	403.22	403.07	No Data	No Data	No Data	0.15	NA	NA	NA	NA
E0063_G_FKC	FWA	35.978046	-119.106731	7/22/2021	8/16/2022	7/20/2023	7/1/2024	7/1/2025	402.85	402.49	402.39	402.3	402.1	0.36	0.10	0.09	0.20	0.75
E0064_B_FKC	FWA	35.977592	-119.107239	7/22/2021	8/16/2022	7/20/2023	7/2/2024	7/1/2025	400.61	400.17	400.06	400.01	399.82	0.44	0.11	0.05	0.19	0.79
E0065_B_FKC	FWA	35.964394	-119.107485	8/12/2021	8/16/2022	7/20/2023	8/5/2024	7/1/2025	400.14	400.06	399.86	399.51	399.15	0.08	0.20	0.35	0.36	0.99
E0066_B_FKC	FWA	35.964278	-119.097250	7/21/2021	8/16/2022	7/24/2023	7/16/2024	7/8/2025	411.62	411.29	411.00	410.83	410.68	0.33	0.29	0.17	0.15	0.94

Benchmark Data within the ETGSA Subsidence Monitoring Area 2021 - 2025																		
BenchmarkID	Owner	Latitude	Longitude	2021 Measurement Date	2022 Measurement Date	2023 Measurement Date	2024 Measurement Date	2025 Measurement Date	2021 Elevation (ft amst)	2022 Elevation (ft amst)	2023 Elevation (ft amst)	2024 Elevation (ft amst)	2025 Elevation (ft amst)	2021 to 2022 Subsidence (ft)	2022 - 2023 Subsidence (ft)	2023 - 2024 Subsidence (ft)	2024 - 2025 Subsidence (ft)	2021 - 2025 Cumulative Subsidence (ft)
E0067_B_FKC	FWA	35.949757	-119.107021	8/12/2021	8/16/2022	7/19/2023	7/14/2024	7/8/2025	407.47	407.29	407.04	406.77	406.47	0.18	0.25	0.27	0.30	1.00
E0068_B_FKC	FWA	35.942592	-119.128878	7/21/2021	No Data	No Data	No Data	No Data	390.67	No Data	No Data	No Data	No Data	NA	NA	NA	NA	NA
E0069_B_FKC	FWA	35.928049	-119.137364	7/21/2021	No Data	No Data	No Data	No Data	397.14	No Data	No Data	No Data	No Data	NA	NA	NA	NA	NA
E0085_B_RMS	Tule Subbasin TAC	36.015027	-119.029953	7/26/2021	No Data	7/27/2023	7/1/2024	7/2/2025	480.47	No Data	480.54	480.54	480.6	NA	NA	0.00	-0.06	-0.13
E0086_B_RMS	Tule Subbasin TAC	35.982697	-119.046424	7/26/2021	No Data	7/27/2023	8/5/2024	7/2/2025	447.26	No Data	447.05	446.87	446.89	NA	NA	0.18	-0.02	0.37
E0087_B_RMS	Tule Subbasin TAC	35.891593	-119.054074	7/26/2021	No Data	7/13/2023	7/4/2024	7/2/2025	530.90	No Data	530.61	530.64	530.45	NA	NA	-0.03	0.19	0.45
E0088_B_RMS	Tule Subbasin TAC	35.859012	-119.107779	7/26/2021	No Data	7/13/2023	No Data	No Data	457.16	No Data	457.22	No Data	No Data	NA	NA	NA	NA	NA
E0089_B_LSMA	ETGSA	35.949882	-119.121121	No Data	8/30/2022	7/19/2023	7/16/2024	7/7/2025	No Data	404.45	404.21	404.13	403.88	NA	0.24	0.08	0.25	NA
E0090_B_LSMA	ETGSA	35.935379	-119.133460	No Data	8/30/2022	7/19/2023	7/16/2024	7/7/2025	No Data	404.31	404.15	404.16	403.85	NA	0.16	-0.01	0.31	NA
E0091_B_LSMA	ETGSA	35.964221	-119.125305	No Data	No Data	8/3/2023	7/8/2024	7/1/2025	No Data	No Data	378.29	378.16	377.95	NA	NA	0.13	0.21	NA
E0092_B_LSMA	ETGSA	35.949994	-119.144013	No Data	8/30/2022	7/18/2023	7/8/2024	7/2/2025	No Data	372.48	372.33	372.28	372.07	NA	0.15	0.05	0.21	NA
E0093_B_LSMA	ETGSA	35.935268	-119.109074	No Data	8/30/2022	7/13/2023	7/14/2024	8/6/2025	No Data	416.11	416.07	415.9	415.76	NA	0.04	0.17	0.14	NA
E0094_B_LSMA	ETGSA	35.942736	-119.107482	No Data	8/30/2022	7/24/2023	7/14/2024	8/6/2025	No Data	409.17	408.82	408.8	408.59	NA	0.35	0.02	0.21	NA
E0095_B_LSMA	ETGSA	35.949595	-119.089902	No Data	8/30/2022	7/19/2023	7/14/2024	8/6/2025	No Data	421.12	420.67	420.64	420.68	NA	0.45	0.03	-0.04	NA
E0096_B_LSMA	ETGSA	35.950024	-119.152902	No Data	8/30/2022	7/18/2023	7/8/2024	8/5/2025	No Data	363.86	363.56	363.33	363.08	NA	0.30	0.23	0.25	NA
E0097_B_LSMA	ETGSA	35.949814	-119.134855	No Data	8/19/2022	7/18/2023	7/14/2024	8/5/2025	No Data	378.83	378.70	378.57	378.29	NA	0.13	0.13	0.28	NA
E0098_B_LSMA	ETGSA	35.993449	-119.125472	No Data	8/30/2022	7/20/2023	7/15/2024	7/1/2025	No Data	381.42	381.37	381.27	381.05	NA	0.05	0.10	0.22	NA

Benchmark Data within the ETGSA Subsidence Monitoring Area 2021 - 2025																		
BenchmarkID	Owner	Latitude	Longitude	2021 Measurement Date	2022 Measurement Date	2023 Measurement Date	2024 Measurement Date	2025 Measurement Date	2021 Elevation (ft amst)	2022 Elevation (ft amst)	2023 Elevation (ft amst)	2024 Elevation (ft amst)	2025 Elevation (ft amst)	2021 to 2022 Subsidence (ft)	2022 - 2023 Subsidence (ft)	2023 - 2024 Subsidence (ft)	2024 - 2025 Subsidence (ft)	2021 - 2025 Cumulative Subsidence (ft)
E0099_B_LSMA	ETGSA	35.993207	-119.089254	No Data	8/30/2022	7/20/2023	7/15/2024	8/6/2025	No Data	413.66	413.52	413.36	413.05	NA	0.14	NA	0.31	NA
E0100_B_LSMA	ETGSA	35.978766	-119.125347	No Data	8/24/2022	7/20/2023	7/2/2024	8/6/2025	No Data	381.99	381.88	381.87	381.69	NA	0.11	0.01	0.18	NA
E0101_B_LSMA	ETGSA	35.978970	-119.116649	No Data	8/24/2022	7/20/2023	7/2/2024	7/1/2025	No Data	388.12	388.03	387.95	387.81	NA	0.09	0.08	0.14	NA
E0102_B_LSMA	ETGSA	36.007968	-119.125503	No Data	8/24/2022	7/20/2023	7/2/2024	6/26/2025	No Data	383.21	382.69	382.7	382.44	NA	0.52	-0.01	0.26	NA
E0103_B_LSMA	ETGSA	36.007749	-119.116638	No Data	8/24/2022	7/20/2023	7/2/2024	6/30/2025	No Data	389.38	389.14	389.01	388.72	NA	0.24	0.13	0.29	NA
E0104_B_LSMA	ETGSA	35.935325	-119.143992	No Data	8/30/2022	7/18/2023	7/15/2024	8/5/2025	No Data	379.59	379.53	379.55	379.19	NA	0.06	-0.02	0.36	NA
E0105_B_LSMA	ETGSA	36.051229	-119.097278	No Data	8/30/2022	7/31/2023	8/5/2024	7/7/2025	No Data	412.17	411.95	412.02	411.91	NA	0.22	-0.07	0.11	NA
E0106_B_LSMA	ETGSA	36.022501	-119.125537	No Data	8/30/2022	7/20/2023	7/2/2024	8/7/2025	No Data	382.57	381.93	381.76	381.66	NA	0.64	0.17	0.10	NA
E0107_B_LSMA	ETGSA	36.022307	-119.089109	No Data	8/30/2022	7/31/2023	7/1/2024	6/30/2025	No Data	409.12	408.89	408.76	408.94	NA	0.23	0.13	-0.18	NA
E0108_B_LSMA	ETGSA	36.051111	-119.116205	No Data	8/30/2022	7/31/2023	7/15/2024	6/25/2025	No Data	389.82	389.49	389.6	389.48	NA	0.33	-0.11	0.12	NA
E0109_B_LSMA	ETGSA	36.051318	-119.071165	No Data	8/30/2022	7/18/2023	7/15/2024	6/30/2025	No Data	421.06	421.11	420.97	420.99	NA	-0.05	0.14	-0.02	NA
E0110_B_LSMA	ETGSA	35.935271	-119.116447	No Data	8/30/2022	7/19/2023	7/8/2024	7/8/2025	No Data	409.47	409.44	409.51	409.14	NA	0.03	-0.07	0.37	NA
E0111_B_LSMA	ETGSA	35.964213	-119.085094	No Data	8/30/2022	7/24/2023	7/14/2024	8/6/2025	No Data	424.55	424.61	424.24	424.12	NA	-0.06	0.37	0.12	NA
E0112_B_LSMA	ETGSA	36.004220	-119.071361	No Data	8/30/2022	7/31/2023	7/1/2024	8/7/2025	No Data	417.28	416.91	416.93	416.83	NA	0.37	-0.02	0.10	NA
E0113_B_LSMA	ETGSA	36.036668	-119.079912	No Data	8/30/2022	7/20/2023	7/2/2024	8/7/2025	No Data	416.26	416.27	416.03	415.95	NA	-0.01	0.24	0.08	NA
E0114_B_FKC	FWA	35.964338	-119.110823	No Data	No Data	7/19/2023	7/16/2024	7/8/2025	No Data	No Data	392.66	392.55	392.27	NA	NA	0.11	0.28	NA
E0115_B_LSMA	ETGSA	35.978820	-119.134400	No Data	No Data	7/20/2023	7/2/2024	7/16/2025	No Data	No Data	372.52	372.54	372.32	NA	NA	-0.02	0.22	NA

Benchmark Data within the ETGSA Subsidence Monitoring Area 2021 - 2025																		
BenchmarkID	Owner	Latitude	Longitude	2021 Measurement Date	2022 Measurement Date	2023 Measurement Date	2024 Measurement Date	2025 Measurement Date	2021 Elevation (ft amst)	2022 Elevation (ft amst)	2023 Elevation (ft amst)	2024 Elevation (ft amst)	2025 Elevation (ft amst)	2021 to 2022 Subsidence (ft)	2022 - 2023 Subsidence (ft)	2023 - 2024 Subsidence (ft)	2024 - 2025 Subsidence (ft)	2021 - 2025 Cumulative Subsidence (ft)
E0116_B_LSMA	ETGSA	35.986050	-119.143410	No Data	No Data	7/20/2023	7/7/2024	7/2/2025	No Data	No Data	364.95	365.02	364.67	NA	NA	-0.07	0.35	NA
E0117_B_LSMA	ETGSA	35.987090	-119.179020	No Data	No Data	7/10/2023	7/7/2024	7/2/2025	No Data	No Data	338.24	337.87	337.61	NA	NA	0.37	0.26	NA
E0118_B_LSMA	ETGSA	35.974080	-119.178860	No Data	No Data	7/10/2023	7/7/2024	7/2/2025	No Data	No Data	341.75	341.71	341.44	NA	NA	0.04	0.27	NA
E0119_B_LSMA	ETGSA	35.964300	-119.169890	No Data	No Data	7/10/2023	7/8/2024	7/16/2025	No Data	No Data	350.32	350.09	349.85	NA	NA	0.23	0.24	NA
E0120_B_LSMA	ETGSA	35.964300	-119.152040	No Data	No Data	7/19/2023	7/8/2024	7/2/2025	No Data	No Data	361.00	360.77	360.59	NA	NA	0.23	0.18	NA
E0121_B_LSMA	ETGSA	35.964260	-119.135310	No Data	No Data	7/18/2023	7/8/2024	7/1/2025	No Data	No Data	370.26	370.1	369.95	NA	NA	0.16	0.15	NA
E0122_B_LSMA	ETGSA	35.971680	-119.161110	No Data	No Data	7/31/2023	7/7/2024	7/2/2025	No Data	No Data	355.14	354.99	354.64	NA	NA	0.15	0.35	NA
E0123_B_LSMA	ETGSA	35.978840	-119.152340	No Data	No Data	7/10/2023	7/7/2024	7/2/2025	No Data	No Data	357.25	357.14	356.88	NA	NA	0.11	0.26	NA
E0124_B_LSMA	ETGSA	35.985900	-119.161120	No Data	No Data	7/10/2023	7/7/2024	No Data	No Data	No Data	349.61	349.37	No Data	NA	NA	0.24	NA	NA
E0125_B_LSMA	ETGSA	35.972290	-119.143280	No Data	No Data	7/20/2023	7/7/2024	7/2/2025	No Data	No Data	366.74	366.88	366.6	NA	NA	-0.14	0.28	NA
E0126_B_LSMA	ETGSA	35.978920	-119.170040	No Data	No Data	7/10/2023	7/7/2024	7/2/2025	No Data	No Data	345.33	345.29	344.97	NA	NA	0.04	0.32	NA
P0036_B_RMS	Tule Subbasin TAC	35.971652	-119.205568	7/20/2021	8/16/2022	7/7/2023	7/23/2024	7/24/2025	323.07	322.71	322.53	322.38	322.17	0.36	0.18	0.15	0.21	0.90
P0037_B_RMS	Tule Subbasin TAC	36.002530	-119.197349	7/20/2021	8/16/2022	7/7/2023	7/23/2024	7/2/2025	324.07	323.57	323.45	323.32	323.15	0.50	0.12	0.13	0.17	0.92
P0090_B_RMS	Tule Subbasin TAC	35.921016	-119.161702	8/12/2021	8/16/2022	7/18/2023	7/16/2024	7/15/2025	368.39	368.06	367.85	367.78	367.61	0.33	0.21	0.07	0.17	0.78
P0093_B_RMS	Tule Subbasin TAC	35.921023	-119.179422	8/19/2021	8/16/2022	7/18/2023	7/16/2024	7/16/2025	349.96	349.76	349.51	349.42	349.51	0.20	0.25	0.09	-0.09	0.45
P0094_B_RMS	Tule Subbasin TAC	35.936825	-119.214756	8/19/2021	8/24/2022	7/25/2023	7/23/2024	7/9/2025	310.79	310.34	309.96	309.78	309.47	0.45	0.38	0.18	0.31	1.32
P0095_B_LSMA	ETGSA	35.939497	-119.161718	No Data	8/30/2022	7/18/2023	7/15/2024	7/16/2025	No Data	360.78	360.59	360.48	360.11	NA	0.19	0.11	0.37	NA

Benchmark Data within the ETGSA Subsidence Monitoring Area 2021 - 2025																		
BenchmarkID	Owner	Latitude	Longitude	2021 Measurement Date	2022 Measurement Date	2023 Measurement Date	2024 Measurement Date	2025 Measurement Date	2021 Elevation (ft amsl)	2022 Elevation (ft amsl)	2023 Elevation (ft amsl)	2024 Elevation (ft amsl)	2025 Elevation (ft amsl)	2021 to 2022 Subsidence (ft)	2022 - 2023 Subsidence (ft)	2023 - 2024 Subsidence (ft)	2024 - 2025 Subsidence (ft)	2021 - 2025 Cumulative Subsidence (ft)
P0096_B_RMS	Tule Subbasin TAC	35.996666	-119.179127	No Data	8/30/2022	7/7/2023	7/8/2024	7/21/2025	No Data	336.53	336.28	336.23	335.91	NA	0.25	0.05	0.32	NA

Notes:

Data provided from the Tule Subbasin Data Management System (4Creeks) and the *Eastern Tule GSA Land Subsidence 2021/22 and 2022/23 Annual Reports* (Thomas Harder & Co., 2023 and 2024d)

All presented measurements were collected annually during summer months (June-August of each year)

Data from Tule Subbasin Monitoring Network. Positive subsidence equivalent to uplift.

No Data = Data was not collected and/or not available

NA = Not Applicable

FWA = Friant Water Authority

Table 2-6. MCL Exceedances within PID (2005 – 2025)

Constituent of Concern	COC Unit	Minimum Threshold: Drinking Water Limits (MCL)	Well ID	Well Type	Dataset/ Source	MCL Exceedance Detection Result	Sample Collection Date
Nitrate as N	mg/L	10	CA5401063_001_001	Municipal	DDW	18.7	2/12/2020
						12.6	3/4/2020
			CA5401063_002_002	Municipal	DDW	13	7/31/2007
						16	10/23/2007
						22	1/25/2008
						17	3/26/2008
						10.7	9/30/2008
						12.6	4/8/2009
						12	7/22/2010
						11	7/15/2011
						20	4/12/2012
						19.8	7/12/2012
						11.7	4/4/2013
						13.3	7/26/2013
						11.2	2/24/2014
						11.8	4/30/2014
						15.9	4/2/2020
						15	7/9/2020
						13.2	10/8/2020
						17.5	11/17/2020
			CA5401063_002_002	Municipal	DDW	17.7	11/22/2020
						23.6	2/3/2021
						21.5	3/10/2021
						17	6/6/2021
						11	8/4/2021
						17.4	11/4/2021
						18.3	2/15/2022
						18.7	5/10/2022
						18.1	8/22/2022
						18	11/8/2022
						11.5	2/7/2023
						17.2	8/8/2023
			18	11/6/2023			
			33	2/5/2024			
			30	5/1/2024			
			31	8/5/2024			
			35	11/4/2024			
			12.3	2/12/2025			
			28.2	5/7/2025			
			NO3_1004805	Municipal	UCD_NO3	13.5	4/17/2007
						13	7/31/2007
						16	10/22/2007
16	10/23/2007						
22	1/25/2008						
17	3/26/2008						
10.7	9/30/2008						
12.6	4/8/2009						
NO3_1021889	Water Supply, Other	UCD_NO3	12.9	8/8/2007			
			12.9	8/12/2008			
NO3_1021890	Water Supply, Other	NO3N	17.5	8/8/2007			
			17.1	8/12/2008			
			10.4	8/13/2009			
NO3_1023282	Water Supply, Other	UCD_NO3	10.6	6/11/2008			
NO3_1023284	Water Supply, Other	UCD_NO3	21.6	11/2/2007			
			20.6	8/26/2008			
NO3_1023286	Water Supply, Other	UCD_NO3	43	11/2/2007			
			13.2	6/11/2008			
NO3_1023287	Water Supply, Other	UCD_NO3	10.2	4/7/2009			
NO3_1023289	Water Supply, Other	UCD_NO3	20.7	8/26/2008			

Table 5. MCL Exceedances within PID (2005 – 2025)

Constituent of Concern	COC Unit	Minimum Threshold: Drinking Water Limits (MCL)	Well ID	Well Type	Dataset/ Source	MCL Exceedance Detection Result	Sample Collection Date
Nitrate as N	mg/L	10	NO3_1025571	Domestic	UCD_NO3	17.2	12/1/2010

Notes:

Data provided from the California State Water Resources Control Board (SWRCB) Groundwater Ambient Monitoring and Assessment (GAMA) Program (SWRCB, 2025).

COC = Constituent of Concern

DDW = Division of Drinking Water

DWR = Department of Water Resources

UCD_NO3 = U.C. Davis Nitrate Report

mg/L = milligrams per liter