Table 10. Summary of data values describing: the sample number; field parameters; individual and average chemical values; and isotopic results for the 2009 San Mateo Creek set of ground water samples (p. 1 of 3).

Sample Number	Latitude (NAD83)	Longitude (NAD83)	Sample Date	Tempera-ture (T) °C	Dissolved Oxygen (DO) mg/L	Specific Conduc-tance (SC) µS/cm	Oxidation Reduction Potential (ORP)	Field pH	Lab pH	Total Dissolved Solids (TDS) mg/L	Total anions meq/L	Total cations meq/L	Charge balance error	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)
EPA MCL																	
NM WQCC								6 - 9		1000			<10%				
SMC-03	35.204251	-107.897797	3/31/2009	13.28	4.55	1481	130.2	7.29	7.4	884	13.13	14.35	4.44	172	40.1	54.3	4.1
SMC-04	35.206449	-107.871402	3/31/2009	12.79	1.29	1291	25.2	8.57	8.4	698	9.83	9.94	0.56	11.2	3.24	208	2.4
SMC-05	35.204204	-107.872925	3/31/2009	15.09	3.24	1126	93.3	8.81	8.6	592	8.08	8.86	4.61	2.83	0.58	199	0.5
SMC-07	35.442460	-107.823329	4/1/2009	n/a	n/a	n/a	n/a	n/a	8.2	534	7.59	9.18	9.47	21.7	7.94	168	5.3
SMC-08	35.266714	-107.835451	3/30/2009	12.74	5.01	727	116.5	8.36	7.1	1400	21.34	22.11	1.77	106	23.4	341	2.3
SMC-09	35.238520	-107.784902	3/30/2009	12.77	70.70	898	92.8	7.47	7.4	3400	47.59	50.33	2.80	541	148	251	9.4
SMC-10	35.277739	-107.830824	3/30/2009	12.96	0.16	2341	-195.3	7.94	7.4	3380	48.41	52.09	3.65	567	149	261	7.0
SMC-11	35.276939	-107.844180	3/31/2009	13.05	0.20	3590	207.4	6.92	7.5	2440	37.55	43.14	6.94	479	88.5	269	10.1
SMC-12	35.289443	-107.839515	3/31/2009	12.43	4.10	3206	201.0	7.70	8	1870	27.08	31.12	6.94	59	10.3	628	0.5
SMC-13	35.275482	-107.850652	4/2/2009	13.52	1.52	2922	13.7	6.83	7.4	2710	38.46	41.13	3.36	389	73.7	355	8.4
SMC-14	35.275194	-107.859294	4/2/2009	11.8	0.17	1643	-222.5	8.76	8.7	1180	16.9	19.22	6.43	4.94	0.84	434	1.1
SMC-16	35.348006	-107.737150	4/1/2009	10.5	0.25	1184	-225.0	8.10	8.1	864	13.4	15.40	6.94	47	17.2	266	2.7
SMC-17	35.357557	-107.807733	4/1/2009	14.14	3.18	1980	195.0	7.57	7.8	1100	16.34	18.02	4.91	87.7	5.53	301	3.8
SMC-18	35.348290	-107.803197	4/1/2009	13.18	0.18	1289	-55.9	7.28	7.7	732	10.74	11.83	4.83	89.9	14.8	136	8.1
SMC-20	35.349029	-107.779781	3/31/2009	13.74	2.5	589	-13.7	7.05	7.6	504	6.71	9.01	14.65	92.3	15.8	67.9	5.9
SMC-21	35.363551	-107.769202	3/31/2009	12.96	2.30	2870	57.1	6.84	7.4	3320	15.24	53.11	55.41	536	183	257	4.8
SMC-22	35.325185	-107.826384	3/31/2009	16.56	5.50	7078	40.2	9.29	9.2	506	6.32	8.38	14.05	1.09	0.08	191	0.5
SMC-23	35.345152	-107.786056	3/30/2009	12.64	0.39	3	82.0	6.97	8.4	440	5.19	6.70	12.71	7.07	1.44	143	0.5
SMC-24	35.344586	-107.785136	3/30/2009	12.26	0.78	3221	40.0	7.11	7.3	3310	47.69	47.97	0.29	509	138	254	6.4
SMC-25	35.347131	-107.783340	3/30/2009	10.68	0.83	3110	78.7	7.05	7.8	504	6.86	8.38	9.94	64.9	8.26	102	1.0
SMC-26	35.346584	-107.774666	3/31/2009	13.69	7.29	721	68.1	7.84	7.9	572	7.92	9.96	11.40	48.7	8.35	156	2.3
SMC-28	35.348787	-107.767434	4/2/2009	16.98	1.61	714	101.7	7.50	7.8	378	5.35	6.28	7.98	52.4	6.47	70.1	3.3
SMC-30	35.336706	-107.854231	4/2/2009	10.88	4.40	130	453.0	6.84	7.3	254	3.36	4.32	12.46	51.5	7.26	24.3	3.6
SMC-31	35.335064	-107.638226	4/2/2009	10.1	0.12	969	-11.6	7.37	7.9	500	7.44	9.06	9.85	36.2	7.82	151	1.6
SMC-32	35.354520	-107.794613	4/1/2009	13.38	0.10	2591	-61.9	7.00	7.4	1630	26.86	27.05	0.36	316	72.3	118	7.9
SMC-33	35.321455	-107.817586	4/1/2009	15.42	2.25	2478	59.5	7.12	7.5	1490	22.72	24.76	4.30	225	24.8	262	3.6
SMC-34	35.332654	-107.802743	4/1/2009	n/a	n/a	n/a	n/a	n/a	7.5	1780	26.78	29.55	4.92	247	39.3	317	7.8
Average values	n/a	n/a	n/a	13	5	1926	50	7.58	7.8	1369	18.7	21.9	8.37	176.5	40.6	221.7	4.2

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Table 10. Summary of data values describing: the sample number; field parameters; individual and average chemical values; and isotopic results for the 2009 San Mateo Creek set of ground water samples (p. 2 of 3).

Sample Number	Cl (mg/L)	SO_4 (mg/L)	HCO_3 (mg/L)	Ag (µg/L)	Al (µg/L)	As (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	Co (µg/L)	Cr (µg/L)	Cu (µg/L)	F (mg/L)	Fe (µg/L)	Hg (µg/L)	Mn (µg/L)	Mo (µg/L)	Ni (µg/L)	NO_3+NO_2 (mg/L)	Pb (µg/L)
EPA MCL						10	2000	4	5		100	1300	4		2				10	15
NM WQCC	250	600		50	5000(i)	100	1000		10	50(i)	50	1000	1.6	1000	2	200	1000(i)	200(i)	10	50
SMC-03	32	369	272	<10	<100	2.9	11.9	<5	<5	<20	<10	<20	0.39	<25	<0.2	<5	<50	<20	4.12	<2
SMC-04	33	200	284	<10	<100	5.1	5	<5	<5	<20	<10	<20	1.18	<25	<0.2	<5	<50	<20	0.82	<2
SMC-05	27	105	308	<10	<100	3.2	5	<5	<5	<20	<10	<20	1.28	<25	<0.2	<5	<50	<20	0.86	<2
SMC-07	2.5	168	243	<10	<100	4	18.7	<5	<5	<20	<10	<20	0.76	<25	<0.2	<5	<50	<20	0.02	<2
SMC-08	78	911	10	<10	<100	<2	39.4	<5	<5	<20	<10	<20	<0.25	2740	<0.2	101	<50	<20	0.05	<2
SMC-09	48	2070	168	<10	<100	3.4	5	<5	<5	<20	<10	<20	0.36	<25	<0.2	<5	<50	<20	22.80	<2
SMC-10	47	2110	170	<10	<100	3.2	31.9	<5	<5	<20	<10	<20	0.56	<25	<0.2	<5	<50	<20	21.20	<2
SMC-11	55	1580	188	<10	<100	21.5	11.9	<5	<5	<20	<10	<20	0.31	<25	<0.2	<5	<50	<20	0.02	<2
SMC-12	125	955	210	<10	<100	22.8	11.3	<5	<5	<20	<10	<20	0.91	<25	<0.2	<5	<50	<20	11.50	<2
SMC-13	59	1610	180	<10	<100	37.7	67	<5	<5	<20	<10	<20	0.5	<25	<0.2	11.5	<50	<20	18.60	<2
SMC-14	58	535	246	<10	<100	4.7	12.5	<5	<5	<20	<10	<20	1.08	28.4	<0.2	23.8	<50	<20	2.36	<2
SMC-16	25	323	359	<10	<100	1	29.2	<5	<5	<20	<10	<20	1.68	168	<0.2	57	<50	<20	0.02	<2
SMC-17	11	656	139	<10	<100	10	5	<5	<5	<20	<10	<20	1.25	112	<0.2	53.6	<50	<20	1.45	<2
SMC-18	10	370	167	<10	<100	<2	27.5	<5	<5	<20	<10	<20	0.29	86.9	<0.2	75.7	<50	<20	0.02	<2
SMC-20	15	96	260	<10	<100	4.7	5	<5	<5	<20	<10	<20	<0.25	<25	<0.2	56.8	<50	<20	1.08	<2
SMC-21	42	546	153	<10	<100	<2	21.3	<5	<5	<20	<10	<20	0.46	<25	<0.2	128	<50	<20	9.38	<2
SMC-22	27	100	206	<10	<100	21.5	36	<5	<5	<20	<10	<20	1.27	<25	<0.2	<5	<50	<20	1.86	<2
SMC-23	33	49	192	<10	<100	3.1	54.3	<5	<5	<20	<10	<20	0.43	45.2	<0.2	<5	<50	<20	4.43	<2
SMC-24	50	2070	172	<10	<100	5.3	11.1	<5	<5	<20	<10	<20	0.63	<25	<0.2	<5	<50	<20	20.20	<2
SMC-25	26	144	181	<10	<100	11.8	13.2	<5	<5	<20	<10	<20	1.43	<25	<0.2	<5	<50	<20	5.67	<2
SMC-26	13	135	280	<10	<100	2.5	13.6	<5	<5	<20	<10	<20	1.04	<25	<0.2	<5	72.8	<20	6.28	<2
SMC-28	2.5	144	136	<10	<100	5	5	<5	<5	<20	<10	<20	0.69	<25	<0.2	<5	<50	<20	1.11	<2
SMC-30	2.5	12	184	<10	<100	<2	5	<5	<5	<20	<10	<20	0.41	<25	<0.2	<5	<50	<20	0.11	<2
SMC-31	7	120	286	<10	<100	<2	15.4	<5	<5	<20	<10	<20	0.98	27.4	<0.2	88.4	<50	<20	0.02	<2
SMC-32	33	1100	184	<10	<100	<2	5	<5	<5	<20	<10	<20	<0.25	1650	<0.2	1150	<50	<20	0.02	<2
SMC-33	46	899	153	<10	<100	21	28.1	<5	<5	<20	<10	<20	0.73	<25	<0.2	6.8	<50	<20	9.62	<2
SMC-34	53	1080	163	<10	<100	29	288	<5	<5	<20	<10	<20	0.52	<25	<0.2	<5	<50	<20	6.15	<2
Average values	35.6	684	203	<10	<100	8.5	29.0	<5	<5	<20	<10	<20	0.71	188.7	<0.2	66.4	<50	<20	5.55	<2

Table 10. Summary of data values describing: the sample number; field parameters; individual and average chemical values; and isotopic results for the 2009 San Mateo Creek set of ground water samples (p. 3 of 3).

Sample Number	Sb (µg/L)	Se (µg/L)	Tl (µg/L)	V (µg/L)	Zn (µg/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)	^{226}Ra (pCi/L)	^{228}Ra (pCi/L)	U (µg/L)	^{238}U (pCi/L)	^{235}U (pCi/L)	^{234}U (pCi/L)	∂^{2}H per mil (‰)	∂^{18}O per mil (‰)	∂^{13}C per mil (‰)	∂^{34}S per mil (‰)
EPA MCL	6	50	2			15	50	5	5	30							
NM WQCC		50			10000			30	30	30							
SMC-03	<2	22.1	<2	<20	26.9	5.6	5	0.01	<0.08	11	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SMC-04	<2	5.8	<2	<20	<20	17.4	5.2	0.08	0.15	20.6 [19]	[5.61]	n/a	[11.1]	n/a	n/a	n/a	n/a
SMC-05	<2	4.6	<2	22.3	<20	20.8	10.3	0.05	<0.17	26.2 [26]	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SMC-07	<2	<2	<2	<20	70.9	8.2	6.8	1.61	0.87	2.5 [2]	0.6 [0.7]	0.1	4.6 [4.03]	-98.3	-13.12	-11.06	-9.25
SMC-08	<2	3.8	<2	<20	<20	6.7	1.5	0.02	0.89	<2 [9]	2.8	0.2	3.9	-57.8	-8.17	-7.80	-6.12
SMC-09	<2	36.5	<2	<20	209	7.9	6.7	0.31	0.28	40.7 [21]	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SMC-10	<2	32.1	<2	<20	81.9	1.3	3.9	0.01	0.36	30.9	0.04	0.01	0.1	-83.9	-8.51	-7.96	-3.96
SMC-11	<2	367	<2	<20	<20	91.3	82.7	0.16	0.76	228 [200]	63	2.8	78.1	-76.7	-10.04	-7.86	-24.97
SMC-12	<2	382	<2	38.3	481	66.8	29.5	0.01	0.52	163 [150]	52 [44.8]	2.3	81.9 [54.6	-70.8	-9.36	-6.00	-11.11
SMC-13	<2	618	<2	<20	<20	121	83	0.07	0.28	240 [220]	64.3	3.2	75.8	-72.7	-9.89	-5.57	-21.20
SMC-14	<2	52.9	<2	<20	<20	14	9.7	<0.01	0.45	23.2 [21]	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SMC-16	<2	<2	<2	<20	<20	0.9	4.6	0.28	0.44	2.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SMC-17	<2	49	<2	<20	959	58.8	33.3	0.14	0.46	99.5 [85]	[27.1]	n/a	[44.9]	n/a	n/a	n/a	n/a
SMC-18	<2	3.6	<2	<20	<20	10.9	14.6	1.35	0.83	<2 [2]	0.5 [0.52]	0.03	4 [3.73]	-73.3	-9.99	-14.38	1.53
SMC-20	<2	73.6	<2	<20	54.8	46.6	20.6	0.96	1.87	63.9 [58]	17.4	0.9	30.4	-73.6	-9.96	-9.06	-1.84
SMC-21	<2	8	<2	<20	<20	6.5	7.5	0.27	2.4	11.9 [10]	3.3	0.2	6.8	-71.8	-9.84	-6.48	-11.37
SMC-22	<2	26.3	<2	135	<20	33.5	11.7	<0.01	0.11	42.9 [42]	[12.8]	n/a	[22.9]	n/a	n/a	n/a	n/a
SMC-23	<2	27.1	<2	<20	<20	6.2	10.9	0.42	0.97	10.1 [12]	3.8	0.3	6.1	-68.9	-9.51	-7.51	-12.07
SMC-24	<2	66.2	<2	<20	<20	20.7	20.1	<0.01	0.33	13.8 [36]	11.8	0.4	15.7	-70.2	-9.00	-7.44	-11.40
SMC-25	<2	13.2	<2	26.5	<20	16	10.4	<0.01	0.51	20.6 [26]	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SMC-26	<2	26.2	<2	<20	20.8	128.3	45.3	0.13	0.24	188 [170]	62.5 [52.9	3.5	94.6 [82.4	-68.3	-9.52	-9.34	-0.33
SMC-28	<2	42.6	<2	<20	527	19.4	18.6	0.15	0.34	46.4 [43]	13.5	0.6	19.8	-70.7	-9.78	-8.56	9.09
SMC-30	<2	<2	<2	<20	<20	2	3.1	n/a	0.8	2.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SMC-31	<2	<2	<2	<20	268	<0.1	2	0.38	n/a	<2	0.1	-0.02	0.5	-89.2	-12.03	-12.21	n/a
SMC-32	<2	<2	<2	<20	23.3	56	50.3	2.9	3.91	<2 [100]	31.8	1.6	31.3	-71.6	-9.75	-7.82	-15.48
SMC-33	<2	268	<2	<20	<20	72.1	62.5	0.13	0.5	166 [150]	46.7 [42.7]	2.5	59.9 [53.5	-79.0	-10.20	-7.03	-8.21
SMC-34	<2	434	<2	<20	<20	56.2	46.4	0.27	0.46	117 [100]	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Average values	<2	95.1	<2	<20	<20	33.2	22.5	0.37	0.75	58.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	SLD radiochem data in brackets [ ]: U, 238U, & 234U.																