

SAMPLE LOCATION	DATE OF COLLECTION (mo./yr.)	TEMPERATURE °C	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (as N)	pH	SPECIFIC CONDUCTANCE (µmhos/cm @ 25 °C)	TRITIUM (pCi/liter)	REMARKS
UTAH																	
(C-9-7) 35b	7-64	19	14	50	8.0	28	2.8	189	0	17	38	0.1	0.3	7.6	421	--	2, Spring
(C-9-8) 15dbc	3-65	--	12	52	9.1	55	1.1	208	0	26	67	0.4	2.1	7.4	573	--	2, Winter Spring
(C-9-8) 18adb	2-73	--	15	85	16	120	2.3	309	0	34	180	0.4	0.24	7.4	1100	--	2, Simpson Spring
(C-9-8) 18adc	2-73	--	13	90	18	140	2.0	334	0	44	200	0.3	0.52	7.4	1200	--	2, Spring
(C-10-7) 5c	8-64	18.5	8.4	40	16	43	1.1	212	0	14	54	0.2	0.1	7.9	492	--	2, Spring
(C-10-7) 8cac	7-64	--	13	60	25	44	4.3	304	0	26	60	0.4	0.3	7.6	664	--	2, Cherry Spring
(C-10-7) 8cad	7-64	10.0	11	55	22	35	0.9	266	0	22	47	0	1.0	7.8	566	--	2, Spring
(C-10-7) 17a	8-64	15.0	16	61	13	48	0.6	256	0	19	58	0.2	1.1	7.9	588	--	2, Spring
(C-10-7) 17bab	7-64	--	16	69	27	53	1.2	330	0	28	75	0.4	0.1	7.4	746	--	2, Spring
(C-10-8) 2dba	7-64	9.5	16	70	27	46	0.7	348	0	28	55	0.3	0.2	7.6	698	--	2, Spring
(C-10-8) 3abb	9-65	16.0	5.6	38	19	33	--	192	8	19	40	--	0.2	8.4	492	--	2, Indian Spring
(C-10-8) 4abb	7-64	10.5	13	77	28	46	1.2	360	0	39	54	0.3	0.2	7.7	732	--	2, Spring
(C-10-9) 21acc	8-71	--	37	82	36	140	8.0	185	1.6	71	286	0.3	3.0	8.2	1360	--	2
(C-12-8) 9bba	5-63	18	41	68	27	80*	--	194	0	36	182	--	0.7	7.2	964	--	1
(C-12-9) 8bbc	7-64	--	16	226	112	271	4.3	193	0	152	920	0.1	1.1	7.4	3220	--	2, Keg Spring
(C-13-6) 12bcb	3-80	--	37	99	62	--	--	160	0	275	456	1.1	0.06	--	--	--	--
(C-13-6) 26bac	3-80	10	55	119	30	--	--	140	0	531	681	1.05	1.89	7.1	3700	--	Christiansen Windmill
(C-13-7) 9cbe	3-80	16	<0.1	24	23	101	4	140	0	44	123	0.75	0.8	7.8	920	--	BLM-Desert Mtn. Well
(C-14-5) 35cdc	9-61	16	--	--	--	--	--	--	--	805	--	--	--	3520	--	1	--
(C-14-5) 35daa	7-52	--	--	--	--	--	--	--	--	1340	--	--	7.4	--	--	1	--
(C-14-5) 36ccc	3-59	--	32	126	94	250*	--	245	0	250	555	--	2.3	7.5	2480	--	1
(C-14-6) 9bab	3-80	12.5	38	151	53	--	--	260	0	356	476	1.77	<0.04	7.4	3100	--	--
(C-14-6) 9dda	3-80	12.5	38	139	22	--	--	240	0	335	660	1.58	0.02	7.4	3500	--	--
(C-14-7) 20ccc	4-63	17	23	82	51	322*	--	90	0	268	540	--	2.1	7.0	2340	--	1
(C-14-8) 10ddb	3-79	--	0.6	212	147	578	158	--	<0.1	764	471	2.89	0.03	--	--	--	3, Baker Hot Springs
(C-14-8) 25ccc	4-63	15	17	54	36	324*	--	66	0	283	450	--	2.7	6.8	2100	--	1
(C-15-5) 2ddc	6-68	15	--	113	61	76	--	196	0	76	325	--	--	8.0	1430	--	4
(C-15-5) 13bbc	6-69	12	29	80	62	88*	--	215	0	71	280	--	0.2	7.5	1300	--	4
(C-15-5) 14bda	3-60	--	19	65	24	45	5.0	225	0.6	85	65	0.5	0.7	7.6	886	--	1
(C-15-5) 22bcb	3-80	--	15	37	23	--	--	140	0	37	65	0.34	<0.04	7.7	675	--	--
(C-15-5) 26baa	7-72	16	25	32	18	23	2.1	165	0	27	31	--	0.83	7.2	410	--	4
(C-15-5) 27dcc	10-69	21	17	19	19	38*	--	177	0	24	28	--	0	7.5	387	--	1
(C-15-5) 29dda	3-80	--	24	37	26	--	--	120	0	40	65	0.27	0.19	7.6	720	--	--

1. MOWER AND FELTIS, 1964.
2. STEPHENS AND SUMSION, 1978.
3. BUREAU OF LAND MANAGEMENT, FILLMORE DISTRICT, 1980.
4. U.S. GEOLOGICAL SURVEY, 1980.

* SODIUM PLUS POTASSIUM

NOTE: SAMPLES FOR WATER QUALITY ANALYSIS COLLECTED DURING FUGRO WATER RESOURCE STUDIES EXCEPT WHERE NOTED. UTAH LOCATIONS BASED ON SALT LAKE BASELINE AND MERIDIAN. NEVADA LOCATIONS BASED ON MT. DIABLO BASELINE AND MERIDIAN.

WATER QUALITY ANALYSES
SEVIER DESERT, UTAH

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - BMO

TABLE
C1-11
1 OF 2

FUGRO NATIONAL, INC.

SAMPLE LOCATION	DATE OF COLLECTION (mo./yr.)	TEMPERATURE °C	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (as N)	pH	SPECIFIC CONDUCTANCE (μmhos/cm @ 25°C)	TRITIUM (pCi/liter)	REMARKS
UTAH																	
(C-15-5) 33dcb	8-62	22	26	31	20	42	2.3	152	0	56	52	0.3	3.1	7.5	513	--	1
(C-15-6) 4aab	10-78	--	36	171	21	456	113	160	--	402	871	1.24	0.2	--	--	--	3, BLM-Delta Well #1
(C-15-6) 19cac	8-61	15	29	30	22	98*	--	202	0	62	105	--	0.3	7.8	762	--	1
(C-15-7) 18caa	3-80	16	23	37	5	--	--	120	0	206	159	1.24	0.05	7.4	1250	--	1
(C-15-7) 33bcd	6-62	15	23	18	7.5	76*	--	125	0	55	59	--	0	7.4	513	--	1
(C-15-7) 36cbb	9-61	16	38	30	13	62*	--	150	0	55	58	--	0.4	8.2	524	--	1
(C-15-8) 8cac	3-63	14	22	12	5.4	316*	--	144	0	199	292	--	1.2	7.4	1590	--	1
(C-15-8) 23bba	9-61	13	24	6.4	5.8	281*	--	166	6	149	248	--	0.7	8.4	1410	--	1
(C-15-8) 29ccc	3-63	12	19	8.0	1.9	183*	--	217	0	100	102	--	0.3	7.7	875	--	1
(C-16-4) 18bda	8-61	17	40	103	45	89*	--	212	0	129	227	--	8.9	7.7	1290	--	1
(C-16-5) 18caa	7-61	20	29	32	14	22*	--	178	0	10	20	--	2.6	7.7	349	--	1
(C-16-5) 19cbd	6-61	20	25	26	18	19	1.7	158	0	13	24	0.2	2.9	7.9	325	--	1
(C-16-6) 34bad	9-62	--	29	22	18	19*	--	168	0	-7.4	17	0.3	0.3	7.2	329	--	1
(C-16-7) 2cbc	4-55	13	25	24	18	55	--	132	0	54	58	--	0.1	8.0	495	--	1
(C-16-7) 4abb	4-55	12	22	16	11	62	--	132	0	51	52	--	0.1	8.0	464	--	1
(C-16-7) 10bad	11-62	18	23	17	6.3	68*	--	142	0	41	39	0.5	0.5	7.8	434	--	1
(C-16-7) 10bbb	11-62	--	13	23	9.7	51*	--	125	0	38	46	0.4	0.4	7.6	420	--	1
(C-16-7) 13cad	4-55	--	25	28	20	31*	--	132	0	44	45	--	1.0	7.5	438	--	1
(C-16-7) 13cdc	4-57	12	8.3	22	14	40*	--	119	0	37	44	--	0.8	7.8	404	--	1
(C-16-7) 23dad	4-55	21	32	11	5.4	154	--	192	0	82	112	--	0.2	7.8	824	--	1
(C-16-7) 24bca	6-62	23	27	16	8.0	67*	--	149	0	38	40	--	0	7.9	439	--	1
(C-16-7) 33bba	8-62	17	22	8.4	4.4	113*	--	168	0	51	66	--	0.4	7.8	594	--	1
(C-16-8) 12ddd	6-62	27	32	11	1.9	119*	--	210	0	39	57	--	0	7.9	601	--	1
(C-16-8) 15dcd	6-58	--	7.8	0	20	14*	--	228	4.0	107	106	0.1	4.0	8.5	--	--	1
(C-16-8) 21bcb	12-47	24	41	28	11	510*	--	188	14	173	615	--	0.2	--	2520	--	1, Topaz Camp Well
(C-16-8) 21cbb	11-57	29	41	35	13	605*	--	208	0	192	770	--	1.8	8.0	3110	--	1, Topaz Camp Well
(C-16-8) 26bdb	7-74	26.5	31	11	9.5	210	2.6	236	0	89	180	--	0.04	8.4	1080	--	4

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