(Concentration of dissolved constituents, dissolved solids, and hardness given in milligrams per liter, unless otherwise noted)

Site No.	Sampling site	Date of collection	Temperature (°C)	Discharge (ft³/s)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3) + Nitrite (NO_2) as N	Suspended Solids	Dissolved Solids	Specific conductance (micromhos at 25°C)	Alkalinity	Acidity	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium-adsorption ratio	pH	Boron (B)	Total Iron (Fe)	Dissolved Fe	Manganese (Mn)	Aluminum (Al)	Source
S-4	Unnamed canal at (D-22-6) 9 bcb	8-26-75	18.5	16	6.3	42	24	7.2	0.6	231	0	14	2.2	.39		213	380			200	15	.2	8.3	.02					USGS
	at highway 10 and about 8 miles	11-19-75	1.0	13													420												USGS
	below point of diversion at site	3-31-76	11.0	2.5	5.3	40	27	20	1.2	265	0	32	5.9	.42		264	475			210	0	.6	8.2	.03					USGS
	S-1 near EMERY																												
S-5	UNNAMED CANAL BEFORE INTERSECTION	6-9-76													77	207		222	0				6.9		0.4	0.4	0	0.55	CONSOL
	WITH CHRISTIANSEN WASH NEAR HWY 10																												
S-6	CHRISTIANSEN WASH AT HWY 10 NEAR	7-23-75	24.5	.01	11	460	370	990	11	483	0	4300	77	2.5		6470	7100			2700	2300	8.3	7.8	.86					USGS
	EMERY	8-26-75	18.0	.02	13	390	270	760	8.2	482	0	3200	54	2.2		4950	5820			2100	1700		7.8	.68					USGS
		11-19-75	0	3.5	5.5	50	29	17	0.8	282	0	49	3.8	.55		298	580			250	14	.5	8.2	.03	.10		.01	.04	USGS
		3-31-76	10.0	1.0	5.3	55	33	39	1.5	271	0	120	7.4	.51		397	665			270	51	1.0	8.1	.06					USGS
S-7	CHRISTIANSEN WASH AT UNNAMED COUNTY	6-9-76													21	2951		393	0				6.8		0.4	0.2	0	0.55	CONSOL
	ROAD NORTH OF EMERY MINE	3-23-77				115	138	120	2.67			770	32		70	1310		345	0				8.0		1.0	0.9	.24	0	CONSOL
S-8	QUITCHUPAH CREEK AT HWY 10	5-10-74				62	32	54				120				370	1020						7.9						CONSOL
	NEAR EMERY	6-11-74				62	38	65				180			58	729	850						8.3		.01				CONSOL
		7-23-75	23.0	2.0	7.5	55	35	40	2.0	254	0	120	14	.23		400	640			280	73	1.0	8.1	.08					USGS
		8-26-75	14.5	0.4	13	200	77	110	5.5	452	0	580	33	.69		1250	1720			820	450	1.7	8.0	.23					USGS
		11-19-75	1.5	1.2													1280												USGS
		3-31-76	13.5	2.0	11	81	58	160	4.5	370	0	390	52	.17		940	1450			440	140	3.3	8.9	.25					USGS
S-9	MILLER CANYON AT MOUTH AT (D-22-6)	7-23-75	21.5	0.10	3.3	400	160	130	9.0	215	0	1600	22	.03		2430	2800			1700	1500	1.4	8.0	.66					USGS
	26 ddd near EMERY	8-26-75	21.0	0.03	6.4	490	200	140	7.4	179	0	2000	25	.39		2960	3300			2100	1900	1.3	7.9	.84					USGS
		11-19-75	0	0.25	6.9	470	200	170	6.7	198	0	2000	29	1.50		2990	3470			2000	1800	1.7	8.1	.80	0		.76	.16	USGS
S-10	MUDDY CREEK BELOW MILLER CANYON	7-23-75	23.0	6.0	9.2	120	89	300	7.9	339	7	940	30	.01		1670	2250			670	380	5.1	8.5	.22					USGS
	AT (D-22-6) 25ccc near	8-26-75	25.0	0.5	4.7	320	170	360	8.6	291	0	1900	37	.30		2950	3640			1500	1300	4.0	8.0	.57					USGS
	EMERY	11-19-75	1.0	2.5	7.4	320	220	740	7.8	422	0	2800	67	3.40		4390	5190			1700	1400	7.8	8.1	.47	0		.15	.17	USGS
S-11	CHRISTIANSEN WASH NE OF EMERY MINE	2-11-76						1150				2125	124		1670	5738		471	0				7.4		1.4	0.3	0	0	CONSOL
S-12	CHRISTIANSEN WASH ABOUT 1800 FT	3-22-77		0.475		278	681	653	9.7			3750	113		571	5016		470	0				8.0		1.7	1.0	.03	0	CONSOL
	BELOW S-11																												
S-13	DRAINAGE INTO CHRISTIANSEN WASH	3-22-77		0.003		335	1650	275	11.85			2850	82		6962	6584		815	0				7.6		1.5	0.9	.02	.1	CONSOL
	BELOW S-12 FROM IRRIGATED																												
	FARMLAND																												
S-14	DRAINAGE INTO CHRISTIANSEN WASH	5-10-74				350	830	1200				4100				9900	10000						8.4						CONSOL
	BELOW S-13 FROM IRRIGATED	3-22-77		0.51		267	365	598	12.6			3400	111		544	4972		439	0				7.9		1.2	1.0	.03	0	CONSOL
	FARMLAND																												
S-15	DRAINAGE INTO CHRISTIANSEN WASH	3-22-77		0.345		115	154	137	4.77			980	37		15	1684		345	0				8.1		0.6	0.6	0	0	CONSOL
	FROM IRRIGATED FARMLAND NE																												
	OF EMERY MINE																												
S-16	CHRISTIANSEN WASH BELOW S-15	3-22-77		0.956		187	405	738	7.37			—	82		274	3604		420	0				8.0		1.0	0.9	0.08	0	CONSOL
S-17	CHRISTIANSEN WASH BELOW S-16	2-18-76						525				2521	98		182	5166		423	0				7.6		0.4	0.1	0	0	CONSOL

APPENDIX B
TABLE 1
Sheet 2 of 4
SAMPLING & ANALYSES OF SURFACE WATER