

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Geologic unit: 100VFL, Valley fill; 123DCRV, Duchesne River formation; 1120TSH, Outwash; 220NJVO, Navajo Sandstone; 112PVNT, Pavant Basalt Flow; 110ALVM, Alluvium; 220JRSC, Jurassic age rocks

Local identifier	Date	Station number	Geologic unit	Depth of well, feet below LSD	pH, water, unfltrd field, std units)	Specific conductance, wat unfltrd uS/cm 25 degC	Temperature, water, deg C	Hardness, water, mg/L as CaCO ₃ (Calcium, water, fltrd, mg/L	Magnesium, water, fltrd, mg/L	Potassium, water, fltrd, mg/L	Sodium, water, fltrd, mg/L	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO ₃	Bromide water, fltrd, mg/L
BEAVER COUNTY														
(C-26-7)26cac- 1	08-22-05	383101112365301	100VFL	250	8.1	595	15.0	260	80.5	14.8	2.89	21.4	151	.30
(C-28-10)19bbc- 1	07-13-05	382152113013801	100VFL	71.0	—	500	21.5	—	—	—	—	—	—	—
(C-28-10)19dcc- 2	07-14-05	382115113010201	100VFL	300	—	510	21.0	—	—	—	—	—	—	—
(C-28-10)30bdc- 3	07-13-05	382047113012203	100VFL	290	—	900	23.5	—	—	—	—	—	—	—
(C-28-11)12dbc- 2	08-10-05	382313113020901	100VFL	460	7.2	1930	17.5	780	197	69.4	19.8	167	140	.99
(C-28-11)25ddd- 2	07-13-05	382020113014202	100VFL	150	—	620	27.5	—	—	—	—	—	—	—
(C-28-11)35ddd- 2	07-14-05	381928113025301	100VFL	150	—	910	18.0	—	—	—	—	—	—	—
(C-28-11)36caa- 1	07-14-05	381954113021401	—	—	—	410	24.5	—	—	—	—	—	—	—
(C-28-11)36cdd- 1	07-14-05	381931113021401	100VFL	90.0	—	940	16.5	—	—	—	—	—	—	—
(C-28-11)36ddd- 1	07-12-05	381927113014001	100VFL	60.0	—	1080	16.5	—	—	—	—	—	—	—
(C-29-8)25cac- 1	03-16-05	381516112422201	100VFL	250.	—	275	19.0	—	—	—	—	—	—	—
	07-06-05		100VFL	250.	—	317	19.5	—	—	—	—	—	—	—
	08-15-05		100VFL	250.	7.7	306	19.0	98	31.1	4.99	8.07	20.3	102	.10
(C-29-10) 5cdd- 2	08-10-05	381835113000001	100VFL	95.0	7.5	850	15.0	460	135	28.5	5.16	30.1	151	.34
	07-12-05		100VFL	95.0	—	950	19.0	—	—	—	—	—	—	—
(C-29-10) 5ddd- 1	06-09-05	381835112592601	100VFL	320	—	990	14.0	—	—	—	—	—	—	—
(C-29-10)18daa- 1	07-12-05	381714113003401	100VFL	298	—	730	15.0	—	—	—	—	—	—	—
(C-29-10)18dcd- 1	07-12-05	381649113005001	100VFL	375	—	490	23.0	—	—	—	—	—	—	—
(C-29-10)18ddd- 1	07-12-05	381649113003401	100VFL	166	—	960	19.5	—	—	—	—	—	—	—
(C-29-11)14cdb- 1	08-10-05	381700113033401	100VFL	—	7.9	510	18.0	190	53.1	15.1	5.29	29.8	94	.23
BOX ELDER COUNTY														
(B-10-18)33aaa- 1	08-24-05	413300113543001	100VFL	84	6.8	980	12.0	320	95.0	21.2	8.28	42.7	173	.30
(B-12-11)4bbc- 1	08-25-05	414745113063901	100VFL	230	6.8	4830	18.5	910	198	102	23.1	555	152	1.14
(B-14-9)5bbb- 1	08-25-05	415847112540401	100VFL	300	7.6	1240	17.5	440	126	29.5	12.6	44.7	109	.33
CACHE COUNTY														
(A-13-1)29bcd- 1	08-25-05	415020111520401	100VFL	173	7.8	454	15.1	200	42.5	23.4	1.68	25.6	179	E.02
DAVIS COUNTY														
(B-2-1)24bad- 3	08-23-05	405351111540803	100VFL	386	7.5	496	15.9	120	36.9	7.72	1.04	62.4	132	.17
(B-4-2)27aba- 1	08-23-05	410340112030001	—	304	7.8	590	18.5	45	11.8	3.68	5.43	115	250	.27
DUCHESNE COUNTY														
U(C-1-1)33bcc- 1	08-31-05	402114110003301	—	220	7.6	1620	14.0	730	202	54.4	3.47	117	102	.29
U(C-1-2)22cbb- 1	08-31-05	402246110061501	123DCRV	810	7.5	380	17.5	—	—	—	—	—	—	.18
U(C-2-2)11bab- 1	08-31-05	401946110044601	123DCRV	666	7.2	360	14.5	170	43.5	15.8	3.50	9.22	126	.22
U(C-3-4)31cab- 1	08-31-05	401030110225701	1120TSH	70.0	7.5	820	16.0	—	—	—	—	—	—	.24
IRON COUNTY														
(C-32-8)12bdb- 1	08-23-05	380218112424401	—	—	7.9	422	19.0	170	50.2	10.7	6.23	16.4	111	.34
(C-33-8)31ccc- 1	07-08-05	375257112483501	100VFL	466	—	450	14.5	—	—	—	—	—	—	—
(C-34-9)9bca- 1	08-22-05	375147112530001	—	600	—	482	11.5	270	55.5	31.9	2.79	9.44	210	.21
(C-34-10)24abc- 1	09-08-05	375006112554801	100VFL	162	7.4	462	13.5	230	45.9	28.2	4.28	17.3	194	.28
(C-34-16)28dcc- 2	07-06-05	374834113384301	100VFL	148	—	1050	13.5	—	—	—	—	—	—	—
	08-22-05		100VFL	148	7.5	1000	12.5	480	147	26.9	8.70	36.2	74	.97
(C-35-11)31dbd- 1	08-23-05	374248113075201	100VFL	298	7.9	990	—	650	127	80.1	2.69	12.2	81	.19
(C-35-16) 9add- 1	06-07-05	374623113381301	100VFL	150	—	490	14.0	—	—	—	—	—	—	—
	08-22-05		100VFL	150	7.5	478	12.5	220	68.0	12.2	4.93	15.4	136	.35
(C-35-16)21dcc- 3	07-13-05	374412113384503	100VFL	300	—	415	14.5	—	—	—	—	—	—	—
(C-36-15) 4bad- 3	09-08-05	374209113322203	100VFL	320	7.8	765	21.5	150	47.7	6.61	4.34	105	160	.32
(C-37-12)23acb- 1	08-17-05	373407113100801	100VFL	250	7.9	1210	13.5	600	135	63.3	1.94	49.4	118	.76
JUAB COUNTY														
(C-12-1)24baa- 1	08-04-05	394545111531001	100VFL	66.0	7.2	1240	14.8	350	82.7	34.9	4.21	109	181	.30
KANE COUNTY														
(C-42-6)19bdc- 2	08-23-05	370843112340602	220NVJO	250	8.0	263	14.0	130	24.2	16.4	2.16	3.65	117	.15
(C-44-5) 6cbb- 1	08-23-05	370050112274501	—	80.	7.1	1930	18.0	750	189	68.5	9.79	247	194	.36

<— Less than.

E— Estimated.

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Local identifier	Chloride, water, fltrd, mg/L	Fluoride, water, fltrd, mg/L	Silica, water, fltrd, mg/L	Sulfate water, fltrd, mg/L	Residue, water, fltrd, sum of constituents mg/L	Nitrite + nitrate water fltrd, mg/L as N	Ortho-phosphate, water, fltrd, mg/L as P	Phosphorus, water, fltrd, mg/L	Arsenic, water, fltrd, ug/L	Boron, water, fltrd, ug/L	Iron, water, fltrd, ug/L	Manganese, water, fltrd, ug/L	Molybdenum, water, fltrd, ug/L	Selenium, water, fltrd, ug/L	Uranium, natural water, fltrd, ug/L
BEAVER COUNTY															
(C-26-7)26cac-1	84.8	.2	44.5	25.1	371	1.23	.13	—	2.7	—	7	.9	E.4	2.0	3.42
(C-28-10)19bbe-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-28-10)19dcc-2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-28-10)30bdc-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-28-11)12dbc-2	401	2.1	53.0	238	1380	33.6	E.01	—	7.0	—	<18	52.3	13.6	2.6	4.00
(C-28-11)25ddd-2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-28-11)35ddd-2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-28-11)36caa-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-28-11)36cdd-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-28-11)36ddd-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-29-8)25cac-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5.90	.8	74.4	40.3	248	<.06	<.02	—	14.5	—	24	63.4	7.7	<.4	<.04
(C-29-10)5cdd-2	67.4	.3	35.9	85.9	492	2.84	.03	—	2.5	—	<6	<6	.6	.9	42.5
(C-29-10)5ddd-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-29-10)18daa-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-29-10)18dcd-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-29-10)18ddd-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-29-11)14cdb-1	60.9	.5	43.0	60.0	330	1.26	<.02	—	5.3	—	<6	<6	1.9	.6	4.38
BOX ELDER COUNTY															
(B-10-18)33aaa-1	89.7	.3	55.5	63.8	482	.46	E.02	—	6.3	—	17	.9	5.2	.49	7.38
(B-12-11)4bcc-1	1420	.3	50.4	51.3	2500	.69	<.02	—	2.9	—	<18	<1.8	1.7	3.1	2.19
(B-14-9)5bbb-1	269	.2	58.4	23.4	637	1.77	<.02	—	1.8	—	<6	<6	.8	.37	1.50
CACHE COUNTY															
(A-13-1)29bcd-1	7.82	.1	11.4	10.3	231	.13	<.02	—	5.6	—	148	59.9	.8	E.4	.27
DAVIS COUNTY															
(B-2-1)24bad-3	32.1	.2	17.9	29.1	275	1.88	.03	—	.7	—	E5	6.9	2.7	E.4	2.80
(B-4-2)27aba-1	40.9	.4	32.3	.6	363	<.06	.56	—	23.2	—	285	50.8	E.4	<.4	<.04
DUCHESNE COUNTY															
U(C-1-1)33bcc-1	E.72	1.4	8.67	784	—	<.06	<.02	—	3.3	—	1960	40.4	—	—	—
U(C-1-2)22cbb-1	1.19	—	—	—	—	—	—	—	—	—	—	4.3	<.08	.74	—
U(C-2-2)11bab-1	1.34	.6	10.5	49.2	210	<.06	<.02	—	E.1	—	222	11.9	—	—	—
U(C-3-4)31cab-1	11.6	—	—	—	—	—	—	—	—	—	—	—	.5	<.08	.12
IRON COUNTY															
(C-32-8)12bdb-1	43.2	.2	58.3	25.7	285	1.76	<.02	—	2.7	—	<6	E.5	.7	1.7	2.04
(C-33-8)31ccc-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-34-9)9bca-1	10.5	.1	28.6	31.4	306	2.01	<.02	—	2.1	—	<6	<6	E.2	1.7	2.77
(C-34-10)24abe-1	24.3	.3	44.0	27.0	316	1.78	<.02	—	5.3	—	6	.7	.9	.91	3.09
(C-34-16)28dcc-2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	217	.6	65.0	102	656	1.66	<.02	—	9.5	—	E5	<6	.6	5.3	3.88
(C-35-11)31dbd-1	15.0	.2	22.3	446	765	2.35	<.02	—	1.1	—	E3	E.5	.5	2.2	2.96
(C-35-16)9add-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	52.5	.2	53.1	21.8	318	1.77	E.01	—	3.2	—	<6	<6	E.4	1.8	2.43
(C-35-16)21dcc-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-36-15)4bad-3	38.1	1.6	57.0	158	519	.90	E.01	—	20.2	—	E4	<6	8.7	.32	1.33
(C-37-12)23acb-1	105	E.1	19.9	361	815	1.77	<.02	—	1.2	—	8	1.0	.5	10.0	1.79
JUAB COUNTY															
(C-12-1)24baa-1	195	.2	29.1	80.2	669	5.67	.02	—	1.3	—	<6	<6	.6	4.0	1.80
KANE COUNTY															
(C-42-6)19bdc-2	3.31	E.1	14.8	4.1	149	2.24	<.02	—	1.0	—	E6	<6	<.4	.5	.43
(C-44-5)6cbb-1	53.7	.5	15.1	833	1530	.14	<.02	—	.9	—	E10	139	5.9	1.7	1.38

<— Less than.
E— Estimated.

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Local identifier	Date	Station number	Geologic unit	Depth of well, feet below LSD	pH, water, unfltrd field, (std units)	Specific conductance, wat unf uS/cm 25 degC	Temperature, water, deg C	Hardness, water, mg/L as CaCO3	Calcium, water, fltrd, mg/L	Magnesium, water, fltrd, mg/L	Potassium, water, fltrd, mg/L	Sodium, water, fltrd, mg/L	ANC, wat unf fixed end pt, lab, mg/L as CaCO3	Bromide water, fltrd, mg/L
MILLARD COUNTY														
(C-15-4)8cba-1	08-31-05	393154112192901	100VLFL	203	7.1	3450	14.0	990	214	111	8.28	338	264	.76
(C-18-5)27bab-2	07-26-05	391341112241402	100VLFL	505.	—	—	—	—	—	—	—	—	—	—
(C-18-5)34adb-3	07-26-05	391234112233701	100VLFL	512.	—	1230	16.5	—	—	—	—	—	—	—
(C-18-5)34bba-2	07-26-05	391246112241601	100VLFL	525.	—	980	17.0	—	—	—	—	—	—	—
(C-18-5)35bdb-1	07-26-05	391231112230101	—	495	—	875	18.0	—	—	—	—	—	—	—
(C-19-4)29bcd-1	08-03-05	390758112194601	100VLFL	390	7.4	870	14.0	—	—	—	—	—	—	—
(C-19-4)31dbb-1	07-27-05	390700112203201	—	523.	—	1300	13.5	—	—	—	—	—	—	—
(C-19-5)2aad-1	07-26-05	391147112221901	—	655	—	740	19.0	—	—	—	—	—	—	—
(C-19-5)24ccd-1	07-27-05	390827112220301	100VLFL	475	—	640	15.5	—	—	—	—	—	—	—
(C-19-5)36baa-1	07-27-05	390730112214501	100VLFL	500	—	740	15.0	—	—	—	—	—	—	—
(C-19-19)35cdd-1	07-21-05	390617113571601	100VLFL	500	7.4	460	14.5	190	45.9	18.9	2.47	19.1	179	.20
(C-20-4)5cca-1	07-26-05	390558112194601	—	565	—	1180	15.5	—	—	—	—	—	—	—
(C-20-4)6aca-1	08-24-05	390628112201401	100VLFL	506	7.4	1460	13.5	840	204	81.4	3.81	72.9	130	.74
(C-20-5)27bac-1	07-27-05	3902591122540501	100VLFL	480	—	1660	17.0	—	—	—	—	—	—	—
(C-20-5)27bda-2	07-27-05	390250112235901	—	—	—	1230	18.0	—	—	—	—	—	—	—
(C-21-5)6cac-1	07-27-05	390043112273901	—	90.	—	1560	13.0	—	—	—	—	—	—	—
(C-21-5)7cdd-3	07-27-05	385939112272303	—	—	—	1230	12.5	—	—	—	—	—	—	—
	08-25-05	—	—	7.2	1250	12.5	560	124	60.5	—	4.71	120	148	—
(C-21-5)8cdd-2	07-27-05	385942112261501	100VLFL	278	—	625	16.5	—	—	—	—	—	—	—
(C-22-5)21dda-1	07-28-05	385245112244101	100VLFL	370	—	1100	14.5	—	—	—	—	—	—	—
(C-22-5)22adc-2	07-28-05	385303112234801	100VLFL	260	—	1040	15.0	—	—	—	—	—	—	—
(C-22-5)28ada-1	07-28-05	385213112244701	—	389.	—	1200	15.0	—	—	—	—	—	—	—
(C-22-5)28adb-1	07-28-05	385214112245601	—	380	—	1220	15.0	—	—	—	—	—	—	—
(C-22-5)33bad-1	07-28-05	385132112251901	—	415.	—	1190	14.5	—	—	—	—	—	—	—
(C-23-5)5acd-1	07-28-05	385026112261001	100VLFL	353.	—	645	14.5	—	—	—	—	—	—	—
(C-23-5)5adc-1	07-28-05	385028112260201	—	180	—	575	14.5	—	—	—	—	—	—	—
(C-23-6)5cbc-1	07-25-05	385015112333601	112PVNT	162	—	—	—	—	—	—	—	—	—	—
(C-23-6)9ccd-1	08-25-05	384910112321401	100VLFL	136.	7.0	3650	16.0	1100	288	91.6	54.7	502	155	1.60
(C-23-6)15aba-1	07-25-05	384906112303701	—	135	—	—	—	—	—	—	—	—	—	—
(C-23-6)15bca-1	07-25-05	384850112310701	—	145.	—	—	—	—	—	—	—	—	—	—
(C-23-6)15bda-1	07-25-05	384848112305101	—	415.	—	—	—	—	—	—	—	—	—	—
(C-23-6)17dad-1	07-25-05	384830112323501	—	135	—	—	—	—	—	—	—	—	—	—
(C-23-6)17dba-1	07-25-05	384840112325101	—	135	—	—	17.0	—	—	—	—	—	—	—
(C-23-6)21add-1	07-25-05	384751112312201	100VLFL	445	—	—	—	—	—	—	—	—	—	—
(C-23-6)28bbb-2	07-25-05	384722112322101	—	290.	—	—	14.0	—	—	—	—	—	—	—
SALT LAKE COUNTY														
(D-1-1)7abd-6	07-27-05	404506111523301	100VLFL	130	6.9	1370	15.5	590	144	56.0	3.01	54.6	165	.26
SAN JUAN COUNTY														
(D-40-21)25acd-1	08-10-05	371657109331901	220NVJO	450	8.7	430	17.0	11	3.05	.816	1.32	95.5	174	.17
(D-40-22)30bbb-1	08-10-05	371716109325501	220JRSC	825	9.0	800	20.5	4	1.15	.381	1.11	177	354	.25
SANPETE COUNTY														
(D-16-3)4aaa-1	08-04-05	392740111345301	100VLFL	160	7.2	1030	14.3	330	69.2	39.2	7.68	99.8	252	.31
SEVIER COUNTY														
(C-21-1)13abd-1	03-15-05	385910111512101	—	291	—	630	17.5	—	—	—	—	—	—	—
	08-08-05	—	—	291	7.9	750	18.5	160	32.8	18.2	4.44	93.5	113	.17
	08-08-05	—	—	291	7.9	750	18.5	—	—	—	—	—	—	—
(C-23-2)15dcb-4	03-16-05	384757112002201	—	75.0	—	650	10.5	—	—	—	—	—	—	—
	08-08-05	—	—	75.0	7.5	670	15.5	360	73.0	42.0	3.36	20.4	269	.23
	08-08-05	—	—	75.0	7.5	670	15.5	—	—	—	—	—	—	—
(C-23-2)34aba-1	03-16-05	384550112000901	—	50.0	—	1220	10.5	—	—	—	—	—	—	—
	08-09-05	—	—	50.0	—	1150	12.5	—	—	—	—	—	—	—
(C-24-2)6abc-1	08-09-05	384450112034001	110ALVM	308	—	960	11.5	—	—	—	—	—	—	—
(C-26-1)23ddb-1	08-08-05	383140111522001	100VLFL	200	8.5	210	12.5	85	28.1	3.59	2.96	9.46	81	.11

<— Less than.

E— Estimated.

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Local identifier	Chloride, water, fltrd, mg/L	Fluoride, water, fltrd, mg/L	Silica, water, fltrd, mg/L	Sulfate water, fltrd, mg/L	Residue, water, fltrd, sum of constituents mg/L	Nitrite + nitrate water fltrd, mg/L as N	Ortho-phosphate, water, fltrd, mg/L as P	Phosphorus, water, fltrd, mg/L	Arsenic, water, fltrd, ug/L	Boron, water, fltrd, ug/L	Iron, water, fltrd, ug/L	Manganese, water, fltrd, ug/L	Molybdenum, water, fltrd, ug/L	Selenium, water, fltrd, ug/L	Uranium, natural water, fltrd, ug/L
MILLARD COUNTY															
(C-15-4)8cba-1	635	.2	28.0	541	2040	.69	<.02	—	<.4	—	168	448	E.6	<.8	E.04
(C-18-5)27bab-2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-18-5)34adb-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-18-5)34bba-2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-18-5)35bdb-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-19-4)29bcd-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-19-4)31dbb-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-19-5)2aad-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-19-5)24cdd-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-19-5)36baa-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-19-19)35cdd-1	23.1	.3	23.3	19.1	261	.18	<.02	—	5.0	—	7	<.6	1.8	.7	2.99
(C-20-4)5cca-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-20-4)6aca-1	288	.3	23.3	235	1020	7.54	<.02	—	1.5	—	7	<.6	.5	2.2	.83
(C-20-5)27bac-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-20-5)27bda-2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-21-5)6cac-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-21-5)7cdd-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-21-5)8cdd-2	161	.2	28.7	225	837	5.52	<.02	—	2.1	—	8	<.6	1.2	2.5	3.01
(C-22-5)21dda-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-22-5)22adc-2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-22-5)28ada-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-22-5)28adb-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-22-5)33bad-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-5)5aed-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-5)5adc-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-6)5cbe-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-6)9ced-1	947	1.4	40.9	628	2660	2.55	<.02	—	8.6	—	<18	<1.8	1.5	3.0	3.67
(C-23-6)15aba-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-6)15bca-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-6)15bda-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-6)17dad-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-6)17dba-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-6)21add-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-6)28bbb-2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SALT LAKE COUNTY															
(D-1-1)7abd-6	162	.2	20.0	175	738	5.49	.03	—	.8	—	9	7.0	1.2	1.6	1.64
SAN JUAN COUNTY															
(D-40-21)25acd-1	2.19	E.1	10.6	46.2	264	<.06	<.02	—	10.3	—	<6	6.9	.6	<.4	E.04
(D-40-22)30bbb-1	14.8	.5	10.4	50.7	469	<.06	<.02	—	64.6	—	7	1.6	1.5	<.4	.33
SANPETE COUNTY															
(D-16-3)4aaa-1	95.8	.2	45.3	91.1	607	<.06	<.02	—	12.9	—	6900	31.6	.7	<.4	3.94
SEVIER COUNTY															
(C-21-1)13abd-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-2)15dcb-4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-23-2)15dcb-4	33.2	.4	34.1	51.2	423	.75	E.02	—	3.9	—	E4	<.6	3.7	1.4	5.54
(C-23-2)34aba-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-24-2)6abc-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(C-26-1)23ddb-1	11.7	.2	40.8	4.7	152	.36	<.02	—	3.8	—	<6	<.6	.6	E.2	2.45

<— Less than.
E— Estimated.

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Local identifier	Date	Station number	Geologic unit	Depth of well, feet below LSD	pH, water, unfltrd field, std units)	Specific conductance, wat unfltrd uS/cm 25 degC	Temperature, water, deg C	Hardness, water, mg/L as CaCO3(Calcium, water, fltrd, mg/L	Magnesium, water, fltrd, mg/L	Potassium, water, fltrd, mg/L	Sodium, water, fltrd, mg/L	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3	Bromide water, fltrd, mg/L
TOOELE COUNTY														
(C- 2- 6)23cbb- 1	08-23-05	403802112301201	100VLFL	210	7.8	955	—	200	45.9	20.3	20.1	131	134	.29
(C- 8- 5) 6ddb- 1	07-26-05	400849112263901	—	534	8.2	1450	13.5	230	44.0	28.7	2.72	39.5	138	.20
(C- 8- 5)31ccd- 5	07-26-05	400418112271701	100VLFL	60.0	8.4	950	11.5	540	166	30.4	1.77	50.2	78	.36
(C-10-19)22bcd- 1	07-20-05	395633113584301	—	130	7.2	285	15.0	84	24.9	5.40	1.18	16.9	86	.12
UTAH COUNTY														
(C- 6- 1)18cdd- 1	08-09-05	401730111594501	—	471.	7.4	738	29.7	280	70.1	26.6	3.48	39.1	173	.20
(C- 9- 1)28ccb- 1	08-12-05	395956111572101	—	802	7.2	1760	19.0	520	138	43.5	16.4	126	116	.73
(D- 5- 1)17adc-12	03-03-05	402309111510901	100VLFL	303	—	248	11.8	—	—	—	—	—	—	—
(D- 7- 2) 4cbb- 2	08-26-05	401414111435301	100VLFL	144	7.6	540	13.0	260	64.6	24.5	2.91	16.1	204	.24
(D- 9- 1)36bbe- 1	08-23-05	395942111470801	100VLFL	386	7.0	520	11.0	260	67.2	23.1	1.57	7.66	162	.16
WASATCH COUNTY														
(D- 3- 4)26dba- 1	08-19-05	403146111272701	—	19.0	7.0	760	14.5	360	108	22.7	5.90	21.5	111	—
(D- 3- 5)18cba- 1	08-19-05	403325111254601	100VLFL	140.	7.3	340	9.0	150	44.1	8.84	2.37	9.48	136	—
(D- 3- 5)19bdd- 2	08-19-05	403243111252701	—	120	6.8	290	13.0	130	39.1	8.51	.99	5.36	85	—
(D- 4- 4) 2bcd- 1	07-20-05	403004111280301	—	105.	7.0	1110	15.0	520	150	34.5	10.6	42.8	248	—
(D- 4- 4)12dcc- 1	07-12-05	402842111263101	100VLFL	—	7.0	620	12.0	260	71.8	18.9	1.32	10.4	181	—
(D- 4- 5) 3dcc- 1	07-20-05	402937111214901	100VLFL	75	6.9	460	10.5	220	75.2	8.86	3.22	6.64	188	—
(D- 4- 5) 4ccb- 1	07-12-05	402946111233901	100VLFL	217.	6.9	400	11.0	160	51.8	7.59	2.37	5.01	140	—
(D- 4- 5) 6bcc- 2	07-12-05	403003111255801	—	—	7.3	455	12.5	180	54.6	11.0	2.23	8.48	130	—
(D- 4- 5)16bab- 1	08-19-05	402840111232201	—	—	7.1	570	12.5	290	81.1	21.9	1.51	13.1	208	—
(D- 4- 5)16ccd- 1	07-20-05	402750111232701	100VLFL	150	7.3	440	15.5	250	60.1	23.5	1.10	7.91	200	—
WASHINGTON COUNTY														
(C-37-17)12bcd- 2	09-07-05	373456113423501	—	290	7.2	439	9.5	200	60.5	10.8	4.00	21.2	177	.30
(C-41-17) 8cbd- 2	09-07-05	371348113470301	—	1000	7.3	467	19.0	240	67.4	16.6	2.38	14.3	158	.17
WAYNE COUNTY														
(D-27- 3)19aaa- 1	08-08-05	382717111365601	—	285	7.4	1140	11.0	770	230	46.8	3.98	32.9	153	.17

<— Less than.

E— Estimated.

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Local identifier	Chloride, water, fltrd, mg/L	Fluoride, water, fltrd, mg/L	Silica, water, fltrd, mg/L	Sulfate water, fltrd, mg/L	Residue, water, fltrd, sum of constituents mg/L	Nitrite + nitrate water fltrd, mg/L as N	Ortho-phosphate, water, fltrd, mg/L as P	Phosphorus, water, fltrd, mg/L	Arsenic, water, fltrd, ug/L	Boron, water, fltrd, ug/L	Iron, water, fltrd, ug/L	Manganese, water, fltrd, ug/L	Molybdenum, water, fltrd, ug/L	Selenium, water, fltrd, ug/L	Uranium, natural water, fltrd, ug/L
TOOELE COUNTY															
(C-2-6)23cbb-1	236	.4	58.2	31.4	627	.81	E.01	—	5.4	—	<6	<6	.8	1.0	.95
(C-8-5)6ddb-1	92.0	.6	14.2	30.1	337	.39	<.02	—	11.0	—	<6	<6	2.4	.6	1.54
(C-8-5)31ccd-5	351	E.1	17.2	48.1	719	1.56	<.02	—	.9	—	7	E.6	E.2	1.4	1.70
(C-10-19)22bcd-1	17.2	.3	28.2	9.4	155	—	—	—	.8	—	<6	<6	1.1	.4	11.9
UTAH COUNTY															
(C-6-1)18cdd-1	71.4	.6	21.2	65.7	406	.87	<.02	—	4.6	—	<6	<6	2.3	1.2	1.73
(C-9-1)28ccb-1	379	.2	69.7	111	1020	14.1	<.02	—	4.2	—	<6	<6	1.8	5.6	4.93
(D-5-1)17adc-12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(D-7-2)4cbb-2	11.9	.3	20.9	45.2	309	<.06	E.02	—	1.7	—	643	73.2	1.0	<.08	<.04
(D-9-1)36bbc-1	19.9	.2	17.4	20.1	263	1.94	<.02	—	.5	—	<6	<6	.6	1.4	1.35
WASATCH COUNTY															
(D-3-4)26dba-1	24.2	.6	19.0	92.8	372	2.32	—	E.02	—	98	12	<.6	—	—	—
(D-3-5)18cba-1	9.10	.1	30.1	19.5	207	<.06	—	<.04	—	14	2120	33.7	—	—	—
(D-3-5)19bdd-2	12.4	E.1	30.3	29.6	181	.88	—	<.04	—	13	73	.9	—	—	—
(D-4-4)2bcd-1	43.3	1.1	17.0	244	697	1.20	—	<.04	—	261	58	7.6	—	—	—
(D-4-4)12dcc-1	18.7	.1	21.3	21.8	281	1.85	—	.04	—	33	E5	E.5	—	—	—
(D-4-5)3dcc-1	15.3	.1	36.5	4.9	298	7.78	—	—	—	21	E4	.7	—	—	—
(D-4-5)4ccb-1	9.35	E.1	41.2	13.1	229	3.17	—	.10	—	20	<6	1.7	—	—	—
(D-4-5)6bcc-2	7.96	E.1	31.0	19.1	219	1.62	—	.08	—	24	8	3.9	—	—	—
(D-4-5)16bab-1	15.9	.2	30.0	21.0	319	2.19	—	E.04	—	37	<6	E.6	—	—	—
(D-4-5)16ccd-1	10.2	.2	12.1	27.3	266	.84	—	E.03	—	16	<6	1.0	—	—	—
WASHINGTON COUNTY															
(C-37-17)12bdc-2	18.8	.2	38.4	14.5	291	3.50	.08	—	3.2	—	<6	E.4	.5	2.0	2.54
(C-41-17)8cbd-2	12.9	.3	18.9	40.1	270	.42	<.02	—	25.9	—	E4	2.8	5.7	.34	1.47
WAYNE COUNTY															
(D-27-3)19aaa-1	12.2	E.1	28.6	593	1050	2.53	.02	—	—	—	—	—	—	—	—

<— Less than.
E— Estimated.

MISCELLANEOUS WATER-QUALITY DATA, OQUIRRH MOUNTAINS, TOOELE COUNTY, UTAH,
SURFACE- AND GROUND-WATER MONITORING PROGRAM

KENNECOTT UTAH COPPER ANALYSIS

STATION NUMBER	LOCAL IDENTIFIER	DATE AS (YYYYMMDD)	PH, WATER, WHOLE- FIELD, STANDARD UNITS	SPECIFIC CONDUCT- TANCE (US/CM)	TEMPERA- TURE, WATER (DEG. C)	CALCIUM, UNFIL- TERED (MG/L AS CA)	MAGNE- SIUM, UNFILTERED (MG/L AS MG)	POTASSIUM, UNFILTERED, (MG/L AS K)	SODIUM, UNFILTERED (MG/L AS NA)	ALKALINITY, FILTERED, LAB., AS CACO3 (MG/L)	CHLORIDE, WATER, FILTERED, (MG/L AS CL)
402923112072301	(C- 4- 3)12aac	20041103	7.1	1140	15	143	46	2.1	33	252	54
402923112072301	(C- 4- 3)12aac	20050323	7.6	992	11	159	52	2.3	37	248	53
402923112072301	(C- 4- 3)12aac	20050406	7.4	1140	12.5	156	55	2.4	38	248	53
402923112072301	(C- 4- 3)12aac	20050803	7	1250	15.5	181	53	2.2	40	254	57
403636112152401	(C- 2- 4)26ddd-S1	20050706	7.8	638	19.2	72	27	2.5	31	244	33
403835112171801	(C- 2- 4)15cac-S1	20050707	7.3	2370	18	107	48	8.1	273	236	418
403457112113401	(C- 3- 3) 4ccb	20050706	7.3	771	10	69	34	0.7	13	228	10
403547112155101	(C- 2- 4)35dec- 1	20050719	7.1	2960	21.2	172	108	6	166	177	682
403547112155102	(C- 2- 4)35dec- 2	20050719	7	5240	16.8	420	240	6.6	242	140	1460
403547112155103	(C- 2- 4)35dec- 3	20050719	7.2	1190	16.6	82	35	2.5	99	215	188
403309112115501	(C- 3- 3)17ddc	20050705	7.7	581	9.5	91	33	1.2	33	281	34
403258112123201	(C- 3- 3)20bad-S1	20050426	7.2	554	9.6	65	29	1.2	17	203	23
403258112123201	(C- 3- 3)20bad-S1	20050726	—	—	—	54	25	1.1	20	181	20
403258112123201	(C- 3- 3)20bad-S1	20050120	7.7	477	5.6	56	25	1.2	15	181	13
403139112054601	(C- 3- 2)29cbd- 1	20041221	7.7	1890	13	347	110	4	29	213	38
403139112054601	(C- 3- 2)29cbd- 1	20050329	7.7	1920	15	355	126	4.2	30	215	39
403139112054601	(C- 3- 2)29cbd- 1	20050428	7.8	1980	20	360	115	4.1	32	210	42
404202112064701	(C- 1- 2)30cac- 1	20041008	7.1	1280	18	91	33	9.5	144	222	232
404202112064701	(C- 1- 2)30cac- 1	20050105	7.1	1290	18	83	31	8.3	136	220	247
404202112064701	(C- 1- 2)30cac- 1	20050406	7.2	1300	18.5	93	33	8.9	138	220	237
404202112064701	(C- 1- 2)30cac- 1	20050705	7.1	1300	20.5	85	32	8	136	226	226
403241112053301	(C- 3- 2)20bdd- 1	20041104	7.4	1020	16	93	34	13.6	66	169	190
403241112053302	(C- 3- 2)20bdd- 2	20041105	7.5	419	15	52	16	2.9	15	122	41
403055112060401	(C- 3- 2)31add- 1	20041210	8.1	717	16	16	5	1.9	130	188	68
403055112060401	(C- 3- 2)31add- 1	20050907	7.7	710	22	17	6	1.9	132	193	68
403055112060402	(C- 3- 2)31add- 2	20041210	7	987	16	113	43	3.2	38	240	121
403055112060402	(C- 3- 2)31add- 2	20050907	6.9	1030	21	113	45	3.4	41	239	117
403140112054601	(C- 3- 2)29cbd- 2	20050301	6	3260	19	670	166	7.4	50	205	122
403140112054601	(C- 3- 2)29cbd- 2	20050421	6	3410	17	646	168	7.5	49	188	124
403140112054601	(C- 3- 2)29cbd- 2	20050720	5.8	3250	20	518	149	6.9	47	167	116
403151112112001	(C- 3- 3)28bcd- 2	20041103	6.6	2150	17	380	110	3.4	14	238	18
403151112112001	(C- 3- 3)28bcd- 2	20050316	7	2330	19	471	131	3.7	15	232	21
403151112112001	(C- 3- 3)28bcd- 2	20050610	6.7	2100	21	377	112	3.7	15	228	17
403151112112001	(C- 3- 3)28bcd- 2	20050829	7.1	2160	21	371	120	3.8	15	202	19
403225112085701	(C- 3- 3)23cdc- 1	20041221	6.3	2450	22	337	239	7.1	38	280	53
403225112085701	(C- 3- 3)23cdc- 1	20050203	6.9	2250	21	328	216	6.6	32	276	52
403225112085701	(C- 3- 3)23cdc- 1	20050531	6.5	2810	21.5	353	235	6.2	33	309	57
403225112085701	(C- 3- 3)23cdc- 1	20050916	6	2770	23	349	256	6.3	34	289	59
404242112131102	(C- 1- 3)30aad- 2	20041111	7.4	928	13	79	36	2.9	73	187	61
404242112131102	(C- 1- 3)30aad- 2	20050629	7.3	890	20	78	35	2.6	73	182	58

MISCELLANEOUS WATER-QUALITY DATA, OQUIRRH MOUNTAINS, TOOELE COUNTY, UTAH,
SURFACE- AND GROUND-WATER MONITORING PROGRAM

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KENNECOTT UTAH COPPER ANALYSIS

STATION NUMBER	SILICA, UNFILTERED (MG/L AS SIO2)	SULFATE, UNFILTERED (MG/L AS SO4)	SOLIDS, RESIDUE, EVAPOR- ATION, AT 180 DEG. C (MG/L)	NITRATE, UNFILTERED (MG/L AS N)	NITRITE, UNFILTERED (MG/L AS N)	ARSENIC, FILTERED, (UG/L AS AS)	CADMIUM, FILTERED (UG/L AS CD)	COPPER, FILTERED (UG/L AS CU)	IRON, FILTERED (UG/L AS FE)	LEAD, FILTERED (UG/L AS PB)	MAN- GANESE, FILTERED, (UG/L AS MN)	MERCURY, WATER, FILTERED, (UG/L AS HG)	ZINC, WATER, FILTERED (UG/L AS ZN)
402923112072301	17	315	840	—	—	8	<1	<20	30	ϕ	70		160
402923112072301	16	305	830	<.20	<.050	8	<1	<20	70	ϕ	20	<.20	160
402923112072301	16	313	790	<.20	<.050	8	<1	<20	70	ϕ	70	<.20	180
402923112072301	16	343	877	0.3	<.050	11	<1	<20	20	ϕ	80	<.20	240
403636112152401	13	34	311	<.20	<.040	<5.0	<1	<20	<300	ϕ	<10	<.20	<10
403835112171801	20	178	1190	1.4	<.040	<5.0	<1	<20	<300	ϕ	<10	<.20	<10
403457112113401	9	81	288	0.5	<.040	<5.0	<1	<20	<300	ϕ	<10	<.20	<10
403547112155101	29	83	1820	18	<.040	46	<1	<20	<300	ϕ	<10	<.20	<10
403547112155102	28	199	3900	36	<.040	8	<1	<20	<300	ϕ	<10	<.20	<10
403547112155103	23	74	703	5.2	<.040	<5.0	<1	<20	<300	ϕ	<10	<.20	<10
403309112115501	9	81	406	<.20	<.040	<5.0	<1	<20	<300	ϕ	<10	<.20	50
403258112123201	10	69	280	1	<.040	<5.0	<1	<20	<300	ϕ	<10	<.20	<10
403258112123201	11	80	331	1.6	<.040	<5.0	<1	<20	<300	ϕ	<10	<.20	<10
403258112123201	10	79	280	1.2	<.050	<5.0	<1	<20	<300	ϕ	<10	<.20	<10
403139112054601	29	911	1760	<.20	<.050	8	M	<20	<300	ϕ	2100	<.20	3280
403139112054601	28	1040	1620	0.3	<.050	7	M	<20	<300	ϕ	1970	<.20	2300
403139112054601	27	951	1600	<.20	<.050	7	M	<20	<300	ϕ	2180	<.20	2800
404202112064701	17	74	766	1	<.050	9	<1	<20	<300	ϕ	<10	<.20	<10
404202112064701	17	74	700	0.9	<.050	7	<1	<20	<300	ϕ	<10	<.20	<10
404202112064701	17	67	690	1	<.050	5	<1	<20	<300	ϕ	<10	<.20	<10
404202112064701	17	76	642	0.9	<.050	8	<1	<20	<300	ϕ	<10	<.20	<10
403241112053301	85	37	622	0.6	<.050	6	<1	<20	<300	ϕ	<10	—	<10
403241112053302	19	23	240	<.20	<.050	10	<1	<20	<300	ϕ	10	—	<10
403055112060401	17	58	430	—	—	5	<1	<20	400	ϕ	40	—	<10
403055112060401	16	62	344	<.20	<.050	5	<1	<20	—	ϕ	—	<.20	<10
403055112060402	15	101	540	<.20	<.050	7	<1	<20	900	ϕ	40	<.20	<10
403055112060402	14	109	580	<.20	<.050	8	<1	<20	—	ϕ	—	<.20	<10
403140112054601	28	1820	2960	<.20	<.050	962	30	80	80000	ϕ	13400	<.20	35300
403140112054601	—	2060	2930	—	—	798	40	70	—	ϕ	—	—	39100
403140112054601	23	1650	2900	<.20	<.050	632	30	60	79500	ϕ	12300	<.20	33500
403151112112001	27	1200	1990	—	—	19	<1	<20	<300	ϕ	2120	<.20	1300
403151112112001	29	1220	2120	<.20	<.050	12	M	<20	<300	ϕ	2340	<.20	2070
403151112112001	27	996	1850	<.20	<.050	38	M	<20	5470	ϕ	2260	<.20	1270
403151112112001	25	1120	1910	<.20	<.050	32	<1	<20	2240	ϕ	1880	<.20	1160
403225112085701	28	1310	2410	<.20	<.050	16	<1	<20	10300	ϕ	3810	<.20	1110
403225112085701	24	1360	2260	<.20	<.050	15	<1	<20	12500	ϕ	4340	<.20	1120
403225112085701	27	1600	2510	<.20	<.050	16	<1	<20	18100	ϕ	4910	<.20	1670
403225112085701	28	1580	2600	<.20	<.050	19	M	20	27000	ϕ	6190	<.20	2220
404242112131102	14	210	610	4.9	<.050		<1	<20	<300	ϕ	<10	<.20	<10
404242112131102	14	208	527	5	<.050	<5.0	<1	<20	<300	ϕ	<10	—	<10

HYDROLOGIC DATA AT UNION PACIFIC RAILROAD CAUSEWAY
GREAT SALT LAKE BASIN

STATION NUMBER	STATION NAME	DATE	(CFS) DISCHARGE SO. TO NO.	(CFS) DISCHARGE NO. TO SO.
10010020	GSL UPR CAUSEWAY BREACH AT LAKESIDE, UT	12/03/04	142	0
		01/21/05	366	0
		04/15/05	1,060	0
		06/14/05	2,910	0
		07/19/05	1,760	0
		09/20/05	531	0
10010030	GSL UPR N CAUSEWAY, WEST CULVERT	12/03/04	195	45
		01/21/05	83	0
		04/15/05	104	73
		06/14/05	210	22
		08/09/05	0	320
		09/20/05	23	259
10010040	GSL UPR N CAUSEWAY, EAST CULVERT	12/03/04	362	0
		01/21/05	450	122
		04/15/05	360	104
		06/14/05	502	22
		08/09/05	148	178
		09/20/05	164	194

MISCELLANEOUS WATER-QUALITY DATA,
OQUIRRH MOUNTAINS, TOOELE COUNTY, UTAH

USGS ANALYSIS

STATION NUMBER	LOCAL	DATES	PH, WATER, UNFILTERED, FIELD, STANDARD UNITS	SPECIFIC CONDUCTANCE, WATER, UNFILTERED, US/CM AT 25 DEGREES CELSIUS	TEMPERATURE, WATER, DEGREES CELSIUS	CALCIUM, WATER, FILTERED, MG/L	MAGNESIUM, WATER, FILTERED, MG/L	POTASSIUM, WATER, FILTERED, MG/L
403636112152401	(C- 2- 4)26ddd-S1	20050706	7.8	638	19.2	70.7	28.7	2.44
403457112113401	(C- 3- 3) 4ccb	20050706	7.3	771	10	89.2	35.5	1.19
403547112155101	(C- 2- 4)35dec- 1	20050719	7.1	2960	21.2	177	115	6.15
403547112155102	(C- 2- 4)35dec- 2	20050719	7	5240	16.8	400	236	6.64
403547112155103	(C- 2- 4)35dec- 3	20050719	7.2	1190	16.6	86.7	38.2	2.69
403309112115501	(C- 3- 3)17ddc	20050705	7.7	581	9.5	65.8	33.9	0.82
403258112123201	(C- 3- 3)20bad-S1	20050120	7.7	477	5.6	56.4	26.9	1.31
402932112155401	(C- 4- 4)11baa-S1	20050927	7.5	510	9.5	67	19.9	0.78

USGS ANALYSIS

STATION NUMBER	SODIUM, WATER, FILTERED, MG/L	ALKALINITY, WATER, FILTERED, FIXED ENDPOINT (PH 4.5) TITRATION, LABORATORY, MG/L AS CALCIUM CARBONATE	CHLORIDE, WATER, FILTERED, MG/L	SILICA, WATER, FILTERED, MG/L	SULFATE, WATER, FILTERED, MG/L	RESIDUE ON EVAPORATION, DRIED AT 180 DEGREES CELSIUS, WATER, FILTERED, MG/L	NITRITE PLUS NITRATE, WATER, FILTERED, MG/L AS NITROGEN
403636112152401	28.6	255	38.8	10.8	31.9	361	0.07
403457112113401	30.6	278	39	9.09	72	443	0.07
403547112155101	177	181	693	28.2	78.8	1580	17.6
403547112155102	248	143	1540	26.4	209	3920	36.9
403547112155103	108	215	199	23.2	75.5	639	5.12
403309112115501	12.1	226	8.74	9.18	73.4	350	0.65
403258112123201	15.5	184	12.9	10.3	65.3	304	1.14
402932112155401	13.6	196	13.2	10.5	23.5	292	0.48

USGS ANALYSIS

STATION NUMBER	ARSENIC, WATER, FILTERED, UG/L	CADMIUM, WATER, FILTERED, UG/L	COPPER, WATER, FILTERED, UG/L	IRON, WATER, FILTERED, UG/L	LEAD, WATER, FILTERED, UG/L	MANGANESE, WATER, FILTERED, UG/L	MERCURY, WATER, FILTERED, UG/L	ZINC, WATER, FILTERED, UG/L
403636112152401	4.4	<.04	2.5	E4	0.18	773	<.01	5.6
403457112113401	0.8	0.22	0.5	<6	<.08	0.3	<.01	37.3
403547112155101	44.3	E.05	3.3	<18	0.43	0.8	<.01	5.1
403547112155102	4.8	<.12	5.2	<18	0.54	0.6	<.01	4.5
403547112155103	3.9	E.04	4.5	<6	0.34	0.3	<.01	3.8
403309112115501	0.7	<.04	E.4	<6	<.08	<.2	<.01	0.9
403258112123201	1.8	E.02	0.6	<6	0.09	0.2	<.01	0.9
402932112155401	1.4	0.22	0.5	<6	<.08	<.2	<.01	1.1

DISCHARGE MEASUREMENTS AT SELECTED SPRINGS AND TUNNELS, WATER YEAR 2005

Station number	Local Number	Name	Date	Discharge (gallons per minute)
TOOELE COUNTY				
403636112152401	(C- 2- 4)26ddd-S1	Rose Spring	10-27-2004	143.
			12-17-2004	110.3
			01-20-2005	100.
			02-24-2005	100.
			04-27-2005	90.
			05-18-2005	71.
			07-06-2005	54.
			09-27-2005	e24.8
403457112113401	(C- 3- 3) 4ccb	Pass Canyon Tunnel	10-26-2004	15.
			01-31-2005	15.8
			04-27-2005	15.
			07-06-2005	9.55
403309112115501	(C- 3- 3)17ddc	Bingham West Dip Tunnel	10-27-2004	122.
			02-24-2005	110.
			04-26-2005	104.
			07-05-2005	163.
403109112153003	(C- 3- 4)35aac- 3	Middle Canyon Weir Box	10-26-2004	215
			12-17-2004	224.
			01-20-2005	175.
			02-24-2005	172.
			03-28-2005	172.
			04-26-2005	549.
	05-18-2005	185.		

HYDROLOGIC-DISCHARGE DATA FOR OQUIRRH MOUNTAINS, TOOELE COUNTY, UTAH,
SURFACE- AND GROUND-WATER MONITORING PROGRAM

MONTHLY MEAN DISCHARGES AT SELECTED SPRINGS, TUNNELS, AND MINE WORKINGS, WATER YEAR 2005

Station number	Local Number	Name	Date	Discharge (gallons per minute)
MONTHLY MEAN DISCHARGE SALT LAKE COUNTY				
403139112054601	(C- 3- 2)29cbd- 1	Bingham Tunnel reported by Kennecott Utah Copper	10-31-2004	932.
			11-30-2004	840.
			12-31-2004	e900.
			01-31-2005	850.
			02-28-2005	844.
			03-31-2005	906.
			04-30-2005	799.
			05-31-2005	962.
			06-30-2005	1020.
			07-31-2005	1030.
403140112054601	(C- 3- 2)29cbd- 2	Lark Shaft reported by Kennecott Utah Copper	10-31-2004	0
			11-30-2004	0
			12-31-2004	0
			01-31-2005	0
			02-28-2005	197.
			03-31-2005	1230.
			04-30-2005	1230.
			05-31-2005	1060.
			06-30-2005	903.
			07-31-2005	850.
403225112085701	(C- 3- 3)23cdc- 1	North Ore Shoot reported by Kennecott Utah Copper	10-31-2004	1110.
			11-30-2004	1160.
			12-31-2004	1040.
			01-31-2005	948.
			02-28-2005	1100.
			03-31-2005	992.
			04-30-2005	842.
			05-31-2005	917.
			06-30-2005	919.
			07-31-2005	875.
402923112072301	(C- 4- 3)12aac	Butterfield Tunnel reported by Kennecott Utah Copper	10-31-2004	94.
			11-30-2004	103.
			12-31-2004	95.
			01-31-2005	102.
			02-28-2005	109.
			03-31-2005	103.
			04-30-2005	103.
			05-31-2005	e123.
			06-30-2005	e103.
			07-31-2005	e109.
08-31-2005	e109.			
09-30-2005	e109.			

MONTHLY MEAN DISCHARGES AT SELECTED SPRINGS, TUNNELS, AND MINE WORKINGS, WATER YEAR 2005

Station number	Local Number	Name	Date	Discharge (gallons per minute)
MONTHLY MEAN DISCHARGE TOOELE COUNTY				
403151112112001	(C- 3- 3)28bcd- 2	Carr Fork Service Shaft reported by Kennecott Utah Copper	10-31-2004	e522.
			11-30-2004	e1540.
			12-31-2004	e1060.
			01-31-2005	0
			02-28-2005	0
			03-31-2005	e1370.
			04-30-2005	e2320.
			05-31-2005	e2280.
			06-30-2005	e2270.
			07-31-2005	e2240.
403119112154204	(C- 3- 4)35aba-S	Middle Canyon Springs (Combined flow of Big and Little Springs) reported by Tooele City	10-31-2004	0.
			11-30-2004	0.
			12-31-2004	0.
			01-31-2005	0.
			02-28-2005	0.
			03-31-2005	0.
			04-30-2005	0.
			05-31-2005	82.1
			06-30-2005	769.
			07-31-2005	911.
402932112155401	(C- 4- 4)11baa-S1	Left Hand Fork Settlement Canyon reported by Tooele City	10-31-2004	411.
			11-30-2004	418.
			12-31-2004	357.
			01-31-2005	319.
			02-28-2005	355.
			03-31-2005	367.
			04-30-2005	291.
			05-31-2005	315.
			06-30-2005	576.
			07-31-2005	1200.
08-31-2005	1420.			
			09-30-2005	1190.

e Estimated

MISCELLANEOUS DATA,
DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2005

STREAM	TRIBUTARY TO	LOCATION	MEASUREMENTS	
			DATE	DISCHARGE (FT ³ /S)
Manti Creek	Sevier River	Lat 39°15'23", long 111°37'16" Senpete County Upstream of diversion	03-08-05	4.29
			08-11-05	18.9
		Downstream of diversion	03-08-05	4.32
			08-11-05	11.7
Virgin River abv Quail Creek diversion and below sheep bridge nr Hurricane	Virgin River	Lat 37°12'05", long 113°13'11" Washington County	07-11-05	142
			08-02-05	136
			08-02-05	135
Sevier River blw Piute Reservoir	Sevier River	Lat 38°19'41", long 112°11'13" Piute County	06-07-05	1,935
Sevier River nr Elsinore Sevier River	Sevier River	Lat 38°39'42", long 112°09'57" Bridge at 1400 S 960 W Sevier County	05-27-05	1,700
Sand Cove Wash	Santa Clara River	blw Pacificorp Hydroplant Lat 37°16'47", long 113°43'47" Washington County	05-19-05	18.0
				17.1
				16.6
		abv Sand Cove Wash inflow to Gunlock Reservoir Lat 37°15'36", long 113°46'04"	05-19-05	16.7
				17.1
				18.0

Conversion Factors

Multiply	By	To obtain
Length		
inch (in.)	2.54×10^1	millimeter (mm)
	2.54×10^{-2}	meter (m)
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^0	kilometer (km)
Area		
acre	4.047×10^3	square meter (m ²)
	4.047×10^{-1}	square hectometer (hm ²)
	4.047×10^{-3}	square kilometer (km ²)
square mile (mi ²)	2.590×10^0	square kilometer (km ²)
Volume		
gallon (gal)	3.785×10^0	liter (L)
	3.785×10^{-3}	cubic meter (m ³)
	3.785×10^0	cubic decimeter (dm ³)
million gallons (Mgal)	3.785×10^3	cubic meter (m ³)
	3.785×10^{-3}	cubic hectometer (hm ³)
cubic foot (ft ³)	2.832×10^{-2}	cubic meter (m ³)
	2.832×10^1	cubic decimeter (dm ³)
cubic foot per second per day [(ft ³ /s)/d]	2.447×10^3	cubic meter (m ³)
	2.447×10^{-3}	cubic hectometer (hm ³)
acre-foot (acre-ft)	1.233×10^3	cubic meter (m ³)
	1.233×10^{-3}	cubic hectometer (hm ³)
	1.233×10^{-6}	cubic kilometer (km ³)
Flow		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second (L/s)
	2.832×10^{-2}	cubic meter per second (m ³ /s)
	2.832×10^1	cubic decimeter per second (dm ³ /s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m ³ /s)
	6.309×10^{-2}	cubic decimeter per second (dm ³ /s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second (m ³ /s)
	4.381×10^1	cubic decimeter per second (dm ³ /s)
Mass		
ton (short)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$

