

# LIST OF TABLES

Table B-1. SUMMARY STATISTIC FOR STATION 4990880 - JORDAN RIVER AT STATE CANAL ROAD CROSSING. ....	1
Table B-2. SUMMARY STATISTICS FOR STATION 4990880 - JORDAN RIVER AT STATE CANAL ROAD CROSSING - INTENSIVE MONITORING. ....	2
Table B-3. HISTORIC DATA - STATION 4990990 - NORTH CANYON CREEK. ....	3
Table B-4. SUMMARY STATISTIC FOR STATION 4991800 - JORDAN RIVER 1000 FEET BELOW SOUTH DAVIS SOUTH WWTP. ....	4
Table B-5. SUMMARY STATISTIC FOR STATION 4991810 - SOUTH DAVIS SOUTH WWTP. ....	5
Table B-6. SUMMARY STATISTIC FOR STATION 4991810 - S Davis S WWTP - INTENSIVE MONITORING. ....	6
Table B-7. SUMMARY STATISTIC FOR STATION 4991820 - JORDAN RIVER AT CUDAHY LANE ABOVE SOUTH DAVIS SOUTH WWTP. ..	7
Table B-8. SUMMARY STATISTIC FOR STATION 4991820 - JORDAN RIVER AT CUDAHY LANE ABOVE SOUTH DAVIS SOUTH WWTP- INTENSIVE MONITORING. ....	8
Table B-9. Measurements of <i>escherichia coli</i> (E. Coli) taken at station 4991820 – Jordan River at Cudahy Lane above South Davis South WWTP. ....	9
Table B-10. Measurements of Fecal Coliform taken at station 4991820 – Jordan River at Cudahy Lane above South Davis South WWTP. ....	9
Table B-11. SUMMARY STATISTIC FOR STATION 4991860 - JORDAN RIVER 1800 NORTH CROSSING REDWOOD ROAD BRIDGE. ....	10
Table B-12. Measurements of <i>escherichia coli</i> (E. Coli) taken at station 4991860 Jordan River 1800 North Crossing Redwood Road Bridge. ....	11
Table B-13. Measurements of Fecal Coliform taken at station 4991860 Jordan River 1800 North Crossing Redwood Road Bridge. ....	11
Table B-14. SUMMARY STATISTIC FOR STATION 4991880 - JORDAN RIVER AT 900 NORTH CROSSING. ....	12
Table B-15. SUMMARY STATISTIC FOR STATION 4991890 - JORDAN RIVER AT 500 NORTH CROSSING. ....	13
Table B-16. SUMMARY STATISTIC FOR STATION 4991910 - JORDAN RIVER BELOW GADSBY PLANT 001 OUTFALL AT NORTH TEMPLE. ....	14
Table B-17. SUMMARY STATISTIC FOR STATION 4991910 - JORDAN RIVER BELOW GADSBY PLANT 001 OUTFALL AT NORTH TEMPLE - INTENSIVE MONITORING . ....	15
Table B-18. Measurements of <i>escherichia coli</i> (E. Coli) taken at station 4991910 Jordan River below Gadsby Plant 001 Outfall at North Temple. ....	16
Table B-19. Measurements of Fecal Coliform taken at station 4991910 Jordan River below Gadsby Plant 001 Outfall at North Temple. ....	16
Table B-20. SUMMARY STATISTIC FOR STATION 4991920 - CITY CREEK AT MOUTH. ....	17
Table B-21. SUMMARY STATISTIC FOR STATION 4991940 - JORDAN RIVER AT 400 SOUTH. ....	18
Table B-22. Measurements of <i>escherichia coli</i> (E. Coli) taken at station 4991940 Jordan River at 400 South. ....	18
Table B-23. Measurements of Fecal Coliform taken at station 4991940 Jordan River at 400 South. ....	19
Table B-24. SUMMARY STATISTIC FOR STATION 4992030 - JORDAN RIVER AT 700 SOUTH. ....	19
Table B-25. Measurements of <i>escherichia coli</i> (E. Coli) taken at station 4992030 Jordan River at 700 South. ....	20
Table B-26. Measurements of Fecal Coliform taken at station 4992030 Jordan River at 700 South. ....	20
Table B-27. SUMMARY STATISTIC FOR STATION 4992140 - EMIGRATION CANYON CREEK AT ROTARY GLEN. ....	21
Table B-28. SUMMARY STATISTIC FOR STATION 4992230 - PARLEYS CANYON CREEK AT MOUTH. ....	22
Table B-29. SUMMARY STATISTIC FOR STATION 4992270 - JORDAN RIVER AT CALIFORNIA AVE (1300 SOUTH) CROSSING. ....	23
Table B-30. Measurements of <i>escherichia coli</i> (E. Coli) taken at station 4992270 Jordan River at California Avenue (1300 South) Crossing. ....	24
Table B-31. Measurements of Fecal Coliform taken at station 4992270 Jordan River at California Avenue (1300 South) Crossing. ....	24
Table B-32. SUMMARY STATISTIC FOR STATION 4992320 - JORDAN RIVER 1100 WEST 2100 SOUTH. ....	25

Table B-33. SUMMARY STATISTIC FOR STATION 4992320 - JORDAN RIVER 1100 WEST 2100 SOUTH - INTENSIVE MONITORING. ....	26
Table B-34. Measurements of <i>escherichia coli</i> (E. Coli) taken at station 4992320 Jordan River 1100 West 2100 South. ....	27
Table B-35. Measurements of Fecal Coliform taken at station 4992320 Jordan River 1100 West 2100 South. ....	27
Table B-36. SUMMARY STATISTIC FOR STATION 4992500 - CENTRAL VALLEY WWTP.....	28
Table B-37. SUMMARY STATISTIC FOR STATION 4992500 - CENTRAL VALLEY WWTP - INTENSIVE MONITORING. ....	29
Table B-38. SUMMARY STATISTIC FOR STATION 4992540 - MILL CREEK ABOVE CENTRAL VALLEY WWTP AT 300 WEST. ....	30
Table B-39. SUMMARY STATISTIC FOR STATION 4992540 - MILL CREEK ABOVE CENTRAL VALLEY WWTP AT 300 WEST - INTENSIVE MONITORING.....	31
Table B-40. SUMMARY STATISTIC FOR STATION 4992880 - JORDAN RIVER AT 3300 S CROSSING.....	32
Table B41. SUMMARY STATISTIC FOR STATION 4992880 - JORDAN RIVER AT 3300 SOUTH CROSSING - INTENSIVE MONITORING. ....	33
Table B-42. SUMMARY STATISTIC FOR STATION 4992970 - BIG COTTONWOOD CREEK ABOVE JORDAN RIVER AT 500 WEST 4200 SOUTH.....	34
Table B-43. SUMMARY STATISTIC FOR STATION 4992970 - BIG COTTONWOOD CREEK ABOVE JORDAN RIVER AT 500 WEST 4200 SOUTH - INTENSIVE MONITORING. ....	35
Table B-44. SUMMARY STATISTIC FOR STATION 4993580 - LITTLE COTTONWOOD CREEK 4900 SOUTH 600 WEST, SALT LAKE CITY. 36	
Table B-45. SUMMARY STATISTIC FOR STATION 4993580 - LITTLE COTTONWOOD CREEK 4900 SOUTH 600 WEST SALT LAKE CITY - INTENSIVE MONITORING. ....	37
Table B-46. SUMMARY STATISTIC FOR STATION 4994090 - JORDAN RIVER ABOVE 5400 SOUTH AT PEDESTRIAN BRIDGE. ....	38
Table B-47. SUMMARY STATISTIC FOR STATION 4994090 - JORDAN RIVER ABOVE 5400 SOUTH AT PEDESTRIAN BRIDGE - INTENSIVE MONITORING.....	39
Table B-48. Measurements of <i>escherichia coli</i> (E. Coli) taken at station 4994090 Jordan River above 5400 South at Pedestrian Bridge. ....	40
Table B-49. Measurements of Fecal Coliform taken at station 4994090 Jordan River above 5400 South at Pedestrian Bridge. ....	40
Table B-50. SUMMARY STATISTIC FOR STATION 4994100 - JORDAN RIVER BELOW MIDVALE LAGOONS AT 6400 SOUTH CROSSING.41	
Table B-51. SUMMARY STATISTIC FOR STATION 4994160 - SO VALLEY WWTP. ....	42
Table B-52. SUMMARY STATISTIC FOR STATION 4994160 - SOUTH VALLEY WWTP - INTENSIVE MONITORING. ....	43
Table B-53. SUMMARY STATISTIC FOR STATION 4994170 - JORDAN RIVER AT 7800 SOUTH CROSSING ABOVE SOUTH VALLEY WWTP. ....	44
Table B-54. SUMMARY STATISTIC FOR STATION 4994170 - JORDAN RIVER AT 7800 SOUTH CROSSING ABOVE SOUTH VALLEY WWTP - INTENSIVE MONITORING. ....	45
Table B-55. SUMMARY STATISTIC FOR STATION 4994600 - JORDAN RIVER AT BLUFFDALE ROAD CROSSING.....	46
Table B-56. SUMMARY STATISTIC FOR STATION 4994600 - JORDAN RIVER AT BLUFFDALE ROAD CROSSING - INTENSIVE MONITORING.....	47
Table B-57. Measurements of <i>escherichia coli</i> (E. Coli) taken at station 4994600 Jordan River at Bluffdale Road Crossing. ....	48
Table B-58. Measurements of Fecal Coliform taken at station 4994600 Jordan River at Bluffdale Road Crossing. ....	48
Table B-59. SUMMARY STATISTIC FOR STATION 4994720 - JORDAN RIVER AT NARROWS - PUMP STATION. ....	49
Table B-60. SUMMARY STATISTIC FOR STATION 4994720 - JORDAN RIVER AT NARROWS - PUMP STATION - INTENSIVE MONITORING.....	50
Table B-61. SUMMARY STATISTIC FOR STATION 4994790 - JORDAN RIVER AT UTAH LAKE OUTLET U121 CROSSING.....	51

Table B-62. SUMMARY STATISTIC FOR STATION 4994790 - JORDAN RIVER AT UTAH LAKE OUTLET U121 CROSSING - INTENSIVE MONITORING.....	52
Table B-63. SUMMARY STATISTIC FOR STATION 10171000 - JORDAN RIVER AT 1700 SOUTH.....	53
Table B-64. SUMMARY STATISTIC FOR STATION 1 SV WRF 7200 South - HISTORIC.....	54
Table B-65. SUMMARY STATISTIC FOR STATION 2 SV WRF 7800 South - HISTORIC.....	54
Table B-66. SUMMARY STATISTIC FOR STATION 1 JVWCD Narrows - HISTORIC.....	55
Table B-67. SUMMARY STATISTIC FOR STATION 10168000 – LITTLE COTTONWOOD CREEK at JORDAN RIVER NR SLC – HISTORIC... ..	55
Table B-68. Selected water quality criteria included in UPDES permits for facilities that discharge directly to the Jordan River or tributaries to the Jordan River.....	56
Table B-69. Statistical assessment of effluent discharge from South Davis South Wastewater Treatment Plant UT0021628.....	59
Table B-70. Statistical assessment of effluent discharge from Utah State Prison UT0024082 near Bluffdale, UT.....	60
Table B-71. Statistical assessment of effluent discharge from South Valley Water Reclamation Facility UT0024384.....	60
Table B-72. Statistical assessment of effluent discharge from Central Valley Water Reclamation Facility UT0024392.....	61
Table B-73. Statistical assessment of effluent discharge from Rubber Engineering Outfall 001 UT0024767.....	62
Table B-74. Statistical assessment of effluent discharge from Rubber Engineering Outfall 002 UT0024767.....	63
Table B-75. GIS data files obtained as part of Jordan River Work Element 1.....	64

**Table B-1. SUMMARY STATISTIC FOR STATION 4990880 - JORDAN RIVER AT STATE CANAL ROAD CROSSING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	41	1	1976 - 1994	7.4	7	3.8	6.7	<BDL>	24	75.6
	41	9	1995 - 2005	4.0	3	2.0	3.5	<BDL>	10	17.1
Fecal Coliform (#/100mL)	61	1	1976 - 1993	7,079	148	33,100	INS <sub>3</sub>	<BDL>	240,000	
Fecal Strep (#/100mL)	16	0	1982 - 1991	593	290	856	262	25	3,400	
Flow (cfs)	93	1	1980 - 1994	80.9	60	73.6	61.1	<BDL>	500	
	63	0	1995 - 2005	60.3	65	25	53.4	12.8	100	
Ammonia (mgN/L)	157	3	1976 - 1994	1.109	0.81	0.914	0.787	<BDL>	5.759	1(n=145)
	66	21	1995 - 2004	0.252	0.111	0.318	0.129	<BDL>	1.65	0 (n=65)
DO (mg/L)	140	1	1976 - 1994	6.35	6.15	2.71	5.61	<BDL>	17.8	12.2b(n=98), 28.6c(n=42), 36.4e
	85	29	1995 - 2005	5.9	5.34	3.03	5.24	<BDL>	20	34.8b(n=66),47.4c(n=19), 55.3e
pH	142	0	1976 - 1994	7.8	7.7	0.4	7.8	7	10.6	0.7
	84	0	1995 - 2005	7.9	7.915	0.3	7.9	7.04	9.03	1.2
DP (mg/L)	25	0	1990 - 1993	1.34	1.161	0.49	1.25	0.373	2.254	100
	26	0	1995 - 2005	0.48	0.4176	0.33	0.39	0.038	1.5	96.2
TP (mg/L)	141	0	1976 - 1994	1.03	0.96	0.55	0.85	0.016	2.6	99.3
	67	1	1995 - 2005	0.83	0.663	1.22	0.59	<BDL>	10.2	97
Salinity (mg/l @ 25°C)	48	0	2000 - 2005	0.82	0.8	0.27	0.76	0.1	1.67	
Specific Conductivity (umhos/cm @ 25°C)	158	0	1976 - 1994	2,967	1,665	7876	1,647	163	63,000	
	69	0	1995 - 2004	1,533	1,510	458	1,471	702	3,060	
Temperature (°C)	154	0	1976 - 1994	11.9	11.15	6.7	9.5	0.7	24.5	0
	85	0	1995 - 2005	12.5	12.05	6.3	10.8	1.49	25.38	0
Total Coliform (#/100mL)	62	0	1976 - 1993	9,026	4,300	17,600	3,047	11	129,000	40.3
TDS (mg/L)	154	0	1976 - 1994	2,007	1,056	5,851	1,044	108	49,986	14.3
	71	0	1995 - 2005	951	952	283	910	388	1,824	12.7
TSS (mg/L)	141	3	1976 - 1994	65.4	48	65.2	44.9	<BDL>	490	66.7
	71	0	1995 - 2005	42.2	38	28.67	31.6	4	117.3	54.9

<sup>1</sup> Number of samples below detection limit (BDL).

<sup>2</sup> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** > 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-2. SUMMARY STATISTICS FOR STATION 4990880 - JORDAN RIVER AT STATE CANAL ROAD CROSSING - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	7	2	1999 - 2000	3.1	3	0.6	3.1	<BDL>	4	0
	5	2	2004 - 2005	3.6	3	2.7	2.9	<BDL>	8	20
Flow (cfs)	18	0	1999 - 2000	44.9	43.3	23.5	37.7	12.8	83.7	
	9	0	2004 - 2005	45.1	35	23.4	39.6	15	79.5	
Ammonia (mgN/L)	16	0	1999 - 2000	0.146	0.111	0.072	0.133	0.0967	0.295	0
	3	3	2004 - 2004	0.030	-	-	-	-	-	0
DO (mg/L)	21	11	1999 - 2000	4.39	3.975	2.04	3.98	<BDL>	9.51	60b, 50c, 81e
	10	0	2004 - 2005	8.24	8.13	2.78	7.86	4.7	14.72	0b, 0c, 10e
pH	21	0	1999 - 2000	7.9	7.9	0.2	7.9	7.48	8.2	0
	10	0	2004 - 2005	7.7	7.815	0.3	7.7	7.04	7.98	0
DP (mg/L)	14	0	1999 - 2000	0.41	0.394	0.20	0.34	0.038	0.723	92.9
	2	0	2004 - 2005	1.16	1.164	0.48	1.11	0.827	1.5	100
TP (mg/L)	15	0	1999 - 2000	1.18	0.584	2.51	0.59	0.184	10.2	100
	10	0	2004 - 2005	1.04	1.036	0.28	1.01	0.632	1.47	100
Salinity (mg/l@ 25°C)	13	0	2000 - 2000	0.69	0.8	0.27	0.61	0.1	1.2	
	10	0	2004 - 2005	1.01	0.91	0.28	0.98	0.68	1.67	
Specific Conductivity (umhos/cm@25°C)	21	0	1999 - 2000	1,414	1424	426	1,343	489	2345	
	10	0	2004 - 2005	1,898	1713	499	1,848	1297	3087	
Temperature (°C)	21	0	1999 - 2000	12.4	11.84	6.2	10.9	5.3	21.57	0
	10	0	2004 - 2005	11.3	8.26	8.4	8.3	1.49	24.51	0
TDS (mg/L)	17	0	1999 - 2000	890	838	215	867	566	1396	11.8
	10	0	2004 - 2005	1,161	1103	278	1,135	780	1824	20
TSS (mg/L)	17	0	1999 - 2000	52.2	50.4	21.4	47.6	16.8	87.3	70.6
	10	0	2004 - 2005	28.4	27.2	16.7	22.7	4	58	40

<sup>1</sup> Number of samples below detection limit (BDL).

<sup>2</sup> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** > 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-3. HISTORIC DATA - STATION 4990990 - NORTH CANYON CREEK.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Flow (cfs)	21	0	1999 - 2002	2.3	2	0.9	2.2	1	4	
Ammonia (mg N/L)	20	19	1999 - 2002	-	-	-	-	<BDL>	0.1	0 (n=20)
DO (mg/L)	21	0	1999 - 2002	8.92	8.66	1.43	8.81	7.05	12.75	0, 0, 33.3
pH	21	0	1999 - 2002	8.3	8.3	0.2	8.3	7.89	8.6	0
DP (mg/L)	17	3	1999 - 2002	0.05	0.046	0.03	0.04	<BDL>	0.132	41.2
TP (mg/L)	17	0	1999 - 2002	0.10	0.073	0.1	0.08	0.026	0.425	76.5
Salinity (mg/l @ 25°C)	17	0	2000 - 2002	0.49	0.4	0.37	0.40	0.1	1.8	
Temperature (°C)	21	0	1999 - 2002	13.3	13.46	5.9	11.7	3.7	21.99	19
TDS (mg/L)	1	0	1999 - 1999	416	416	-	-	416	416	0
TSS (mg/L)	20	6	1999 - 2002	35.4	18.8	77.0	14.2	<BDL>	356	20

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-4. SUMMARY STATISTIC FOR STATION 4991800 - JORDAN RIVER 1000 FEET BELOW SOUTH DAVIS SOUTH WWTP.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	12	0	1976 - 1979	9.1	9	1.7	8.9	7	12	100
Fecal Coliform (#/100 mL)	13	0	1976 - 1979	12,440	930	16,770	INS <sub>3</sub>	40	43,000	76.9
Ammonia (mg N/L)	7	0	1977 - 1979	1.414	1.6	1.061	1.03	0.3	3.3	0 (n=7)
DO (mg/L)	3	0	1977 - 1979	7.3	7.6	1.77	7.15	5.4	8.9	0 (n=2), 0 (n=1)
pH	5	0	1977 - 1979	7.8	7.8	0.2	7.8	7.5	7.9	0
TP (mg/L)	6	0	1978 - 1979	0.96	0.925	0.41	0.89	0.43	1.65	100
Temperature (°C)	11	0	1976 - 1979	7.9	7	6.1	5.4	1	19	0
Total Coliform (#/100 mL)	13	0	1976 - 1979	14,490	4,300	25,450	1,801	23	93,000	38.5
TDS (mg/L)	9	0	1977 - 1979	870	934	210	846	550	1,082	0
TSS (mg/L)	12	0	1976 - 1979	48.3	45	37.1	30.7	5	100	50

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-5. SUMMARY STATISTIC FOR STATION 4991810 - SOUTH DAVIS SOUTH WWTP.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	146	0	1976 - 1994	20.3	15.5	16.3	16.1	2	103	
	65	6	1995 - 2005	10.6	9	8.2	8.3	<BDL>	45	
Fecal Coliform (#/100mL)	129	24	1976 - 1994	7,637	23	50,700	INS <sub>3</sub>	<BDL>	470,000	
	64	18	1995 - 2005	5	2	6	INS <sub>3</sub>	<BDL>	24	
Fecal Strep (#/100mL)	65	6	1983 - 1991	3,125	300	13,000	306	<BDL>	104,000	
Flow (cfs)	7	0	1977 - 1992	3.6	3.5	1.2	3.4	1.8	5.5	
	1	0	2000 - 2000	-	-	-	-	-	-	
Ammonia (mgN/L)	141	0	1975 - 1994	13.670	13	7.935	10.94	0.5	34.9	
	64	0	1995 - 2004	6.694	3.465	7.614	3.085	0.099	43	
DO (mg/L)	110	0	1977 - 1994	5.89	5.85	1.96	5.69	1.9	22.9	
	72	0	1995 - 2005	6.86	6.795	1.23	6.75	4.26	9.48	
pH	121	0	1977 - 1994	7.6	7.5	0.3	7.6	7	9.2	
	72	0	1995 - 2005	7.5	7.515	0.2	7.5	6.99	8	
DP (mg/L)	10	0	1999 - 2000	1.78	1.945	0.67	1.49	0.142	2.47	
TP (mg/L)	75	0	1977 - 1988	6.61	6.7	1.69	6.24	0.61	10	
	15	0	1999 - 2005	2.23	2.08	0.53	2.18	1.61	3.68	
Salinity (mg/l@ 25°C)	32	0	2000 - 2005	1.39	1.4	0.30	1.31	0.1	1.88	
Temperature (°C)	137	0	1976 - 1994	15.7	16	5.7	14	1.4	25.1	
	72	0	1995 - 2005	17.7	16.85	4.7	17.1	9.5	25.83	
Total Coliform (#/100mL)	142	11	1976 - 1994	54,040	450	571,000	548	<BDL>	6,800,000	
	65	6	1995 - 2005	352	130	564	128	<BDL>	3,400	
TDS (mg/L)	30	0	1975 - 1979	1,514	1,482	224	1,499	1,154	2,210	
TSS (mg/L)	144	6	1976 - 1994	18.8	17	15	14.6	<BDL>	137	
	75	13	1995 - 2005	9.0	6.8	9.9	6.9	<BDL>	82	

<sup>1</sup> Number of samples below detection limit (BDL).

<sup>2</sup> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sup>3</sup> INS=Insufficient data.



**TABLE B-6. SUMMARY STATISTIC FOR STATION 4991810 - S Davis S WWTP - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	11	0	1999 - 2000	10.6	9	6.5	8.9	3	25	
	8	1	2004 - 2005	10.4	5	12.4	6.2	<BDL>	39	
Fecal Coliform (#/100 mL)	10	5	1999 - 2000	5	2.062	6	3	<BDL>	20	
	8	1	2004 - 2005	6	4	6	4	<BDL>	20	
Flow (cfs)	1	0	2000 - 2000	2.4	2.4	-	-	2.4	2.4	
Ammonia (mgN/L)	17	0	1999 - 2000	3.901	3.31	2.029	3.568	1.82	10	
	2	0	2004 - 2004	3.139	3.139	4.160	1.094	0.197	6.08	
DO (mg/L)	18	0	1999 - 2000	6.82	6.615	1.01	6.75	5.15	9	
	8	0	2004 - 2005	8.17	8.525	1.21	8.09	6.39	9.48	
pH	18	0	1999 - 2000	7.6	7.6	0.2	7.6	7.19	7.87	
	8	0	2004 - 2005	7.4	7.43	0.1	7.4	7.29	7.72	
DP (mg/L)	10	0	1999 - 2000	1.78	1.945	0.67	1.49	0.142	2.47	
TP (mg/L)	10	0	1999 - 2000	2.22	2.06	0.59	2.16	1.61	3.68	
	5	0	2004 - 2005	2.25	2.19	0.44	2.22	1.69	2.9	
Salinity (mg/l@ 25°C)	10	0	2000 - 2000	1.29	1.4	0.44	1.09	0.1	1.7	
	8	0	2004 - 2005	1.47	1.5	0.31	1.44	0.86	1.88	
Specific Conductivity (umhos/cm@25°C)	17	0	1999 - 2000	2,427	2606	687	2,171	185	3058	
	8	0	2004 - 2005	2,730	2784	563	2,671	1619	3467	
Temperature (°C)	18	0	1999 - 2000	17.7	17.67	4.7	17.1	9.5	24.3	
	8	0	2004 - 2005	17.6	16.73	5.6	16.9	11.09	25.15	
Total Coliform (#/100mL)	8	0	2004 - 2005	2,730	2784	563	2,671	1619	3467	
TDS (mg/L)	10	1	1999 - 2000	401	219	459	175	<BDL>	1430	
TSS (mg/L)	17	1	1999 - 2000	8.2	7.3	3.4	7.5	<BDL>	13.3	
	8	0	2004 - 2005	8.3	9.4	2.6	7.9	4	10.7	

<sup>1</sup> Number of samples below detection limit (BDL).

<sup>2</sup> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-7. SUMMARY STATISTIC FOR STATION 4991820 - JORDAN RIVER AT CUDAHY LANE ABOVE SOUTH DAVIS SOUTH WWTP.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	116	2	1976 - 1994	7.9	7	3.7	7.0	<BDL>	20	73.3
	51	18	1995 - 2005	3.5	3	2.3	2.9	<BDL>	12	17.6
E Coli (#/100mL)	9	0	2004 - 2004	467	400	346	290-359	100	1,000	28.6
Fecal Coliform (#/100mL)	103	3	1976 - 1993	3,823	480	12,600	INS <sub>3</sub>	<BDL>	93,000	
	9	0	2004 - 2004	521	460	274	362-567	180	1,100	40.0-85.7
Fecal Strep (#/100mL)	71	2	1982 - 1991	1,940	580	3,836	658	<BDL>	26,000	
Flow (cfs)	112	0	1981 - 1994	202.5	177.4	159.3	162.9	26.8	1,400	
	43	0	1995 - 2003	146.6	120	122.7	113.8	32	609	
Ammonia (mgN/L)	168	4	1975 - 1994	1.190	1	0.896	0.839	<BDL>	4.5	1 (n=132)
	70	20	1995 - 2004	0.342	0.251	0.347	0.218	<BDL>	1.84	0 (n=70)
DO (mg/L)	153	0	1977 - 1994	6.47	6.5	2.1	6.01	0.1	18.8	6.4b(n=109),25c(n=44), 29.4e
	99	1	1995 - 2005	6.92	6.8	1.68	6.69	<BDL>	10.83	2.9b(n=68), 12.9c(n=31), 19.2e
pH	155	0	1977 - 1994	7.8	7.8	0.4	7.8	6.8	9.9	1.3
	83	0	1995 - 2005	7.9	7.9	0.3	7.9	6.6	8.95	0
DP (mg/L)	28	0	1990 - 1994	1.06	1.077	0.38	0.98	0.396	1.742	100
	35	0	1995 - 2005	0.52	0.453	0.34	0.40	0.059	1.35	100
TP (mg/L)	161	0	1978 - 1994	1.07	0.95	0.82	0.85	0.015	7.733	99.4
	93	2	1995 - 2005	0.65	0.61	0.39	0.53	<BDL>	2.43	97.8
Salinity (mg/l @ 25°C)	37	0	2000 - 2005	0.83	0.83	0.24	0.8	0.43	1.6	
Specific Conductivity (umhos/cm @ 25°C)	156	0	1975 - 1994	1,406	1,458	378	1,346	450	2,500	
	79	0	1995 - 2005	1,426	1,420	424	1,355	201	2,820	
Temperature (°C)	165	0	1976 - 1994	12.6	11.9	6.2	10.7	1.3	24.7	0
	98	0	1995 - 2005	14.2	13.83	5.9	12.9	4	25.01	0
Total Coliform (#/100mL)	107	3	1976 - 1993	35,520	8,900	96,300	7,332	<BDL>	700,000	59.8
	9	0	2004 - 2004	3,111	3,100	2,088	2,626	1,100	8,000	11.1
TDS (mg/L)	162	0	1975 - 1994	883	924	246	841	264	1,524	4.3
	88	0	1995 - 2005	897	912	257	862	360	2,084	6.8
TSS (mg/L)	156	3	1976 - 1994	63.2	52	50.7	47.7	<BDL>	345	67.3
	88	2	1995 - 2005	38.2	34	22.8	31.3	<BDL>	106.8	45.5

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-8. SUMMARY STATISTIC FOR STATION 4991820 - JORDAN RIVER AT CUDAHY LANE ABOVE SOUTH DAVIS SOUTH WWTP-INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	14	5	2004 - 2005	3.2	2.6	3.0	2.3	<BDL>	12	14.3
Flow (cfs)	12	0	1999 - 2000	211.7	100.2	203.0	129.8	32	609	
Fecal Coliform (#/100 mL)	9	0	2004 - 2004	521	460	274	362-567	180	1,100	40.0-85.7
Ammonia (mgN/L)	15	0	1999 - 2000	0.273	0.253	0.075	0.264	0.141	0.45	0
	3	3	2004-2005	-	-	-	-	-	-	0
DO (mg/L)	18	0	1999 - 2000	6.43	6.53	1.67	6.18	2.38	8.9	0b, 33.3c, 27.8e
	28	0	2004 - 2005	6.34	5.775	1.76	6.11	3.34	9.54	6.25b, 0c, 39.3e
pH	18	0	1999 - 2000	7.9	7.855	0.2	7.9	7.47	8.37	0
	12	0	2004 - 2005	7.8	7.8	0.2	7.8	7.34	8.05	0
DP (mg/L)	14	0	1999 - 2000	0.43	0.4025	0.27	0.33	0.059	0.837	100
TP (mg/L)	20	0	1999 - 2000	0.59	0.3885	0.51	0.46	0.11	2.43	100
	18	0	2004 - 2005	0.95	0.965	0.26	0.91	0.491	1.41	100
Salinity (mg/l@ 25°C)	10	0	2000 - 2000	0.73	0.75	0.18	0.71	0.5	1	
	12	0	2004 - 2005	0.90	0.875	0.24	0.87	0.43	1.44	
Specific Conductivity (umhos/cm@25°C)	18	0	1999 - 2000	1,409	1375	303	1,379	945	2096	
	12	0	2004 - 2005	1,692	1645	440	1,637	828.2	2676	
Temperature (°C)	18	0	1999 - 2000	13.8	14.06	5.8	12.6	5.8	21.9	0
	27	0	2004 - 2005	17.3	19.5	6.0	15.8	5.09	23.44	0
Total Coliform (#/100mL)	9	0	2004 - 2004	3,111	3100	2,088	2,626	1100	8000	11.1
TDS (mg/L)	17	0	1999 - 2000	857	850	185	839	576	1252	5.9
	18	0	2004 - 2005	998	1022	221	977	616	1588	11.1
TSS (mg/L)	17	0	1999 - 2000	48.2	47.3	20.5	44.0	20.4	92.8	64.7
	18	1	2004 - 2005	32.6	33.8	11.6	30.3	<BDL>	48.4	38.9

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-9. Measurements of *escherichia coli* (E. Coli) taken at station 4991820 – Jordan River at Cudahy Lane above South Davis South WWTP. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2006 303(d) list (DWQ 2006). Geometric means and Percent Exceedance values are calculated from at least 5 samples.**

Station	Agency_Code	Date	Parameter	Measured Value	Values > 940	Geometric Mean	% Exceedance	Units	Comment
4991820	UTAHDWQ	6/2/2004	E. Coli	500				#/100ml	
4991820	UTAHDWQ	6/9/2004	E. Coli	300				#/100ml	
4991820	UTAHDWQ	6/16/2004	E. Coli	1000	1000			#/100ml	
4991820	UTAHDWQ	6/22/2004	E. Coli	100				#/100ml	
4991820	UTAHDWQ	6/24/2004	E. Coli	400		359.4	20.0	#/100ml	
4991820	UTAHDWQ	6/29/2004	E. Coli	100		290.4	16.7	#/100ml	
4991820	UTAHDWQ	7/1/2004	E. Coli	600		322.1	14.3	#/100ml	
4991820	UTAHDWQ	7/7/2004	E. Coli	1000	1000	355.7	28.6	#/100ml	
4991820	UTAHDWQ	7/14/2004	E. Coli	200		335.7	28.6	#/100ml	

**Table B-10. Measurements of Fecal Coliform taken at station 4991820 – Jordan River at Cudahy Lane above South Davis South WWTP. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2004 303(d) list (DWQ 2004). Geometric means and Percent Exceedance values are calculated from at least 5 samples. Bold text shown in the Percent Exceedance column indicate sample dates where Criterion 2 is violated.**

Station	Agency	Date	Parameter	Measured Value	Values >400	Geometric Mean	% Exceedance	Units	Comment
4991820	UTAHDWQ	6/2/2004	Fecal Coliform	180				#/100ml	
4991820	UTAHDWQ	6/9/2004	Fecal Coliform	280				#/100ml	
4991820	UTAHDWQ	6/16/2004	Fecal Coliform	520	520			#/100ml	
4991820	UTAHDWQ	6/22/2004	Fecal Coliform	350				#/100ml	
4991820	UTAHDWQ	6/24/2004	Fecal Coliform	680	680	362.2	<b>40.0</b>	#/100ml	
4991820	UTAHDWQ	6/29/2004	Fecal Coliform	1100	1100	435.9	<b>50.0</b>	#/100ml	
4991820	UTAHDWQ	7/1/2004	Fecal Coliform	440	440	436.5	<b>57.1</b>	#/100ml	
4991820	UTAHDWQ	7/7/2004	Fecal Coliform	680	680	527.8	<b>71.4</b>	#/100ml	
4991820	UTAHDWQ	7/14/2004	Fecal Coliform	460	460	566.6	<b>85.7</b>	#/100ml	

**Table B-11. SUMMARY STATISTIC FOR STATION 4991860 - JORDAN RIVER 1800 NORTH CROSSING REDWOOD ROAD BRIDGE.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	82	0	1976 - 1992	8.3	8	4.1	7.4	1	27	76.8
	9	1	2004 - 2004	2.8	2.7	0.7	2.7	<BDL>	3.9	0
E Coli (#/100mL)	9	4	2004 - 2004	630	200	881	1-30	<BDL>	2,800	28.6
Fecal Coliform (#/100mL)	64	1	1978 - 1992	4,847	1,650	8,820	INS <sub>3</sub>	<BDL>	42,000	
	9	0	2004 - 2004	631	540	496	374-637	200	1,900	40.0-85.7
Fecal Strep (#/100mL)	63	5	1981 - 1992	1,250	250	3,570	-	<BDL>	20,000	
Ammonia (mgN/L)	50	1	1983 - 1992	1.587	0.75	1.94	0.87	<BDL>	9.2	0 (n=50)
DO (mg/L)	82	0	1976 - 1992	6.97	7.05	1.96	6.67	3	12	5.4b(n=56), 15.4c(n=26), 23.2e
	15	0	2004 - 2004	5.43	5.64	0.84	5.35	3.29	6.48	25b(n=4), 9.1c(n=11), 33.3e
pH	58	0	1980 - 1992	7.7	7.7	0.3	7.7	7	8.6	0
DP (mg/L)	7	0	1991 - 1992	1.28	1.313	0.9	0.88	0.1	2.6	100
TP (mg/L)	11	0	1989 - 1991	1.70	1.796	.75	1.55	0.495	3.513	100
	9	0	2004 - 2004	0.89	0.93	.19	0.87	0.57	1.18	100
Specific Conductivity (umhos/cm@25°C)	12	0	1989 - 1991	1,465	1,513	338	1,416	601	1,856	
Temperature (°C)	84	1	1976 - 1992	10.7	11.25	5.9	8.7	<BDL>	21	0
	15	0	2004 - 2004	20.6	20.9	1.5	20.5	17.8	22.9	0
Total Coliform (#/100mL)	76	1	1976 - 1992	21,770	12,300	26,900	10,500	<BDL>	125,000	73.7
	9	0	2004 - 2004	3,689	3,000	2,040	3,234	1,700	7,400	33.3
TDS (mg/L)	12	0	1989 - 1991	930	960	219	897	380	1,156	0
	9	0	2004 - 2004	895	896	130	886	618	1,072	0
TSS (mg/L)	82	0	1976 - 1992	74.2	55	62.1	51.7	3	420	69.5
	9	0	2004 - 2004	35.1	32.4	8.7	34.1	24.8	47.6	44.4

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-12. Measurements of *escherichia coli* (E. Coli) taken at station 4991860 Jordan River 1800 North Crossing Redwood Road Bridge. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2006 303(d) list (DWQ 2006). Geometric means and Percent Exceedance values are calculated from at least 5 samples.**

Station	Agency	Date	Parameter	Measured Value	Values > 940	Geometric Mean	% Exceedance	Units	Comment
4991860	UTAHDWQ	6/2/2004	E. Coli	0				#/100ml	BDL
4991860	UTAHDWQ	6/9/2004	E. Coli	0				#/100ml	BDL
4991860	UTAHDWQ	6/16/2004	E. Coli	600				#/100ml	
4991860	UTAHDWQ	6/22/2004	E. Coli	0				#/100ml	BDL
4991860	UTAHDWQ	6/24/2004	E. Coli	200		0.7	0.0	#/100ml	
4991860	UTAHDWQ	6/29/2004	E. Coli	700		2.1	0.0	#/100ml	
4991860	UTAHDWQ	7/1/2004	E. Coli	2800	2800	5.9	14.3	#/100ml	
4991860	UTAHDWQ	7/7/2004	E. Coli	1000	1000	30.3	28.6	#/100ml	
4991860	UTAHDWQ	7/14/2004	E. Coli	0		30.3	28.6	#/100ml	BDL

**Table B-13. Measurements of Fecal Coliform taken at station 4991860 Jordan River 1800 North Crossing Redwood Road Bridge. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2004 303(d) list (DWQ 2004). Geometric means and Percent Exceedance values are calculated from at least 5 samples. Bold text shown in the Percent Exceedance column indicate sample dates where Criterion 2 is violated.**

Station	Agency	Date	Parameter	Measured Value	Values > 400	Geometric Mean	% Exceedance	Units	Comment
4991860	UTAHDWQ	6/2/2004	Fecal Coliform	200				#/100ml	
4991860	UTAHDWQ	6/9/2004	Fecal Coliform	350				#/100ml	
4991860	UTAHDWQ	6/16/2004	Fecal Coliform	370				#/100ml	
4991860	UTAHDWQ	6/22/2004	Fecal Coliform	520	520			#/100ml	
4991860	UTAHDWQ	6/24/2004	Fecal Coliform	540	540	373.5	<b>40.0</b>	#/100ml	
4991860	UTAHDWQ	6/29/2004	Fecal Coliform	1900	1900	489.9	<b>50.0</b>	#/100ml	
4991860	UTAHDWQ	7/1/2004	Fecal Coliform	600	600	504.3	<b>57.1</b>	#/100ml	
4991860	UTAHDWQ	7/7/2004	Fecal Coliform	600	600	590.0	<b>71.4</b>	#/100ml	
4991860	UTAHDWQ	7/14/2004	Fecal Coliform	600	600	637.2	<b>85.7</b>	#/100ml	

**Table B-14. SUMMARY STATISTIC FOR STATION 4991880 - JORDAN RIVER AT 900 NORTH CROSSING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Fecal Coliform (#/100 mL)	4	0	2001 - 2001	8,675	6,000	7,719	INS <sub>3</sub>	2,700	20,000	100
Fecal Strep (#/100 mL)	4	0	2001 - 2001	1,865	2,080	703	1,736	880	2,419	
Ammonia (mg N/L)	7	0	1985 - 1985	0.686	0.7	0.107	0.678	0.5	0.8	0 (n=7)
DO (mg/L)	7	0	1985 - 1985	7.26	7.2	0.26	7.25	7	7.7	0 (n=7)/NA, 0
	3	0	2001 - 2001	6.2	6.19	0.17	6.2	6.03	6.37	0 (n=3), 0
pH	7	0	1985 - 1985	7.9	7.8	0.2	7.9	7.7	8.2	0
	3	0	2001 - 2001	7.6	7.71	0.2	7.6	7.39	7.72	0
Salinity (mg/l@ 25°C)	3	0	2001 - 2001	0.73	0.8	0.14	0.72	0.57	0.83	
Temperature (°C)	7	0	1985 - 1985	12	12	0.4	12	11.4	12.5	0
	3	0	2001 - 2001	21	21	1	21	20.39	21.52	0
Total Coliform (#/100 mL)	4	0	2001 - 2001	72,250	63,000	48,490	60,140	24,000	139,000	100

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-15. SUMMARY STATISTIC FOR STATION 4991890 - JORDAN RIVER AT 500 NORTH CROSSING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	7	0	1977 - 1981	12.6	13	2.8	12.2	7	16	100
Fecal Coliform (#/100 mL)	2	0	1978 - 1981	4,900	4,900	141	INS <sub>3</sub>	4,800	5,000	100
Fecal Strep (#/100 mL)	1	0	1981 - 1981	15,000	15,000	-	-	15,000	15,000	
Flow (cfs)	10	0	1984 - 1986	270.8	263	22.7	270	242	311.1	
Ammonia (mg N/L)	8	0	1985 - 1986	0.575	0.6	0.167	0.542	0.2	0.7	0 (n=8)
DO (mg/L)	13	0	1977 - 1986	6.58	7.2	1.33	6.42	3.6	7.8	0 (n=11), 50 (n=2)
pH	8	0	1985 - 1986	7.9	7.85	0.2	7.9	7.7	8.2	0
TP (mg/L)	1	0	1986 - 1986	0.28	0.28	-	-	0.28	0.28	100
Temperature (°C)	13	0	1977 - 1986	12.4	11.9	4.6	11.4	2.8	20	0
Total Coliform (#/100 mL)	1	0	1981 - 1981	2,500	2,500	-	-	2,500	2,500	0
TDS (mg/L)	1	0	1986 - 1986	404	404	-	-	404	404	0
TSS (mg/L)	1	0	1986 - 1986	108	108	-	-	108	108	100

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.



**Table B-16. SUMMARY STATISTIC FOR STATION 4991910 - JORDAN RIVER BELOW GADSBY PLANT 001 OUTFALL AT NORTH TEMPLE.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	54	0	1978 - 1992	7.5	7	4.0	6.7	2	24	68.5
	9	0	2004 - 2004	3.3	3.3	0.8	3.2	2.1	5.2	11.1
E Coli (#/100mL)	9	0	2004 - 2004	689	500	690	290-393	100	2,400	
Fecal Coliform (#/100mL)	16	0	1978 - 1993	7,131	1,350	11,200	INS <sub>3</sub>	50	41,000	
	13	0	2001 - 2004	2,899	640	5,769	331-473	180	21,000	33.3-42.9
Fecal Strep (#/100mL)	4	1	1991 - 1992	1,923	1,400	2,206	760	<BDL>	4,800	
	4	0	2001 - 2001	1,774	1,894	656	1,663	888	2,419	
Flow (cfs)	1	0	2005 - 2005	-	-	-	-	-	-	
Ammonia (mgN/L)	56	2	1978 - 1992	1.307	0.7	1.673	0.736	<BDL>	7.1	0 (n=56)
DO (mg/L)	59	0	1980 - 1993	7.66	7.4	2.08	7.23	0.5	12	0b(n=41), 5.6c(n=18), 10.2e
	24	0	2001 - 2005	5.72	5.375	1.13	5.63	3.88	8.68	7.7b(n=13), 9.1c(n=11), 54.2e
pH	57	0	1979 - 1993	7.8	7.9	0.4	7.8	6.2	8.7	1.8
	9	0	2001 - 2005	7.7	7.72	0.2	7.7	7.36	7.97	0
DP (mg/L)	7	0	1991 - 1992	0.99	0.5	0.9	0.60	0.1	2.26	100
	6	0	2004 - 2005	1	0.9885	0.04	1	0.963	1.07	100
TP (mg/L)	14	0	1978 - 1991	1.64	1.7	0.54	1.53	0.48	2.3	100
	15	0	2004 - 2005	1.02	1.05	0.16	1.01	0.55	1.2	100
Salinity (mg/l@ 25°C)	9	0	2001 - 2005	0.89	0.84	0.23	0.87	0.57	1.44	
Specific Conductivity (umhos/cm@25°C)	13	0	1989 - 1991	1,500	1,615	341	1,450	597	1,884	
	6	0	2004 - 2005	1,756	1,781	128	1,752	1,548	1,887	
Temperature (°C)	66	1	1976 - 1993	10.1	11.05	5.5	8.2	<BDL>	20	0
	24	0	2001 - 2005	18.4	20.1	4.6	17.7	7.62	22.5	0
Total Coliform (#/100mL)	60	0	1978 - 1993	23,470	9,050	37,000	8,446	70	150,000	66.7
	13	0	2001 - 2004	21,190	6,200	33,600	7,974	1,500	111,000	53.8
TDS (mg/L)	14	0	1978 - 1991	969	1,053	221	936	374	1,180	0
	15	0	2004 - 2005	992	1,002	151	979	596	1,192	0
TSS (mg/L)	58	0	1976 - 1992	82.7	63.5	81.9	50.4	4	380	63.8
	15	0	2004 - 2005	28.4	27.6	7.5	27.5	16	42.8	13.3

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-17. SUMMARY STATISTIC FOR STATION 4991910 - JORDAN RIVER BELOW GADSBY PLANT 001 OUTFALL AT NORTH TEMPLE - INTENSIVE MONITORING .**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	9	0	2004 - 2004	3.3	3.3	0.8	3.2	2.1	5.2	11.1
Fecal Coliform (#/100 mL)	9	0	2004 - 2004	477	340	299	408	180	1100	88.9
Flow (cfs)	1	0	2005 - 2005	32.9	32.9	-	-	32.9	32.9	
DO (mg/L)	21	0	2004 - 2005	5.69	5.29	1.21	5.58	3.88	8.68	10b 9c, 61.9e
pH	6	0	2004 - 2005	7.8	7.785	0.2	7.8	7.36	7.97	0
DP (mg/L)	6	0	2004 - 2005	1.00	0.9885	0.04	1.00	0.963	1.07	100
TP (mg/L)	15	0	2004 - 2005	1.02	1.05	0.16	1.01	0.55	1.2	100
Salinity (mg/l@ 25°C)	6	0	2004 - 2005	0.96	0.85	0.24	0.94	0.8	1.44	
Specific Conductivity (umhos/cm@25°C)	6	0	2004 - 2005	1,804	1602	444	1,766	1503	2674	
Temperature (°C)	21	0	2004 - 2005	18.1	19.6	4.8	17.2	7.62	22.5	0
Total Coliform (#/100mL)	9	0	2004 - 2004	4,500	4000	2,877	3,737	1500	9400	33.3
TDS (mg/L)	15	0	2004 - 2005	992	1002	151	979	596	1192	0
TSS (mg/L)	15	0	2004 - 2005	28.4	27.6	7.5	27.5	16	42.8	13.3

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-18. Measurements of *escherichia coli* (E. Coli) taken at station 4991910 Jordan River below Gadsby Plant 001 Outfall at North Temple. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2006 303(d) list (DWQ 2006). Geometric means and Percent Exceedance values are calculated from at least 5 samples.**

Station	Agency	Date	Parameter	Measured Value	Values > 940	Geometric Mean	% Exceedance	Units	Comment
4991910	UTAHDWQ	6/2/2004	E. Coli	500				#/100ml	
4991910	UTAHDWQ	6/9/2004	E. Coli	400				#/100ml	
4991910	UTAHDWQ	6/16/2004	E. Coli	500				#/100ml	
4991910	UTAHDWQ	6/22/2004	E. Coli	100				#/100ml	
4991910	UTAHDWQ	6/24/2004	E. Coli	600		359.4	0.0	#/100ml	
4991910	UTAHDWQ	6/29/2004	E. Coli	100		290.4	0.0	#/100ml	
4991910	UTAHDWQ	7/1/2004	E. Coli	2400	2400	392.7	14.3	#/100ml	
4991910	UTAHDWQ	7/7/2004	E. Coli	800		420.0	14.3	#/100ml	
4991910	UTAHDWQ	7/14/2004	E. Coli	800		463.7	14.3	#/100ml	

**Table B-19. Measurements of Fecal Coliform taken at station 4991910 Jordan River below Gadsby Plant 001 Outfall at North Temple. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2004 303(d) list (DWQ 2004). Geometric means and Percent Exceedance values are calculated from at least 5 samples. Bold text shown in the Percent Exceedance column indicate sample dates where Criterion 2 is violated.**

Station	Agency	Date	Parameter	Measured Value	Values > 400	Geometric Mean	% Exceedance	Units	Comment
4991910	UTAHDWQ	6/2/2004	Fecal Coliform	180				#/100ml	
4991910	UTAHDWQ	6/9/2004	Fecal Coliform	330				#/100ml	
4991910	UTAHDWQ	6/16/2004	Fecal Coliform	260				#/100ml	
4991910	UTAHDWQ	6/22/2004	Fecal Coliform	340				#/100ml	
4991910	UTAHDWQ	6/24/2004	Fecal Coliform	760	760	331.3	<b>20.0</b>	#/100ml	
4991910	UTAHDWQ	6/29/2004	Fecal Coliform	1100	1100	404.6	<b>33.3</b>	#/100ml	
4991910	UTAHDWQ	7/1/2004	Fecal Coliform	640	640	432.0	<b>42.9</b>	#/100ml	
4991910	UTAHDWQ	7/7/2004	Fecal Coliform	280		460.2	<b>42.9</b>	#/100ml	
4991910	UTAHDWQ	7/14/2004	Fecal Coliform	400		473.0	<b>42.9</b>	#/100ml	

**Table B-20. SUMMARY STATISTIC FOR STATION 4991920 - CITY CREEK AT MOUTH.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	9	0	1976 - 1981	3.2	1	5.3	1.6	1	17	11.1
Fecal Coliform (#/100 mL)	3	0	1976 - 1981	4,210	5,000	3,748	INS <sub>3</sub>	130	7,500	66.7
Fecal Strep (#/100 mL)	1	0	1981 - 1981	30,000	30,000	-	-	30,000	30,000	
Ammonia (mg N/L)	4	0	1975 - 1976	0.125	0.1	0.05	0.119	0.1	0.2	0 (n=3)
	7	7	1995 - 1995	<BDL>	<BDL>	-	-	<BDL>	<BDL>	0 (n=7)
DO (mg/L)	5	0	1977 - 1981	7.58	7.5	1.18	7.51	6.2	9.2	0, 20, 60
pH	6	0	1995 - 1995	8.5	8.5	0.1	8.5	8.3	8.7	0
DP (mg/L)	7	4	1995 - 1995	0.013	0.007798	0.01	0.01	<BDL>	0.036	0
TP (mg/L)	7	3	1995 - 1995	0.01	0.01	0.01	0.01	<BDL>	0.031	0
Temperature (°C)	5	0	1977 - 1981	15	14.2	6.8	13.5	5.5	22.6	40
	7	0	1995 - 1995	8.4	6.4	5.3	5.5	0.3	16.2	0
Total Coliform (#/100 mL)	2	0	1976 - 1981	2,650	2,650	2,616	1,897	800	4,500	0
TDS (mg/L)	5	0	1975 - 1976	519	362	339	450	269	1,084	0
	7	0	1995 - 1995	288	268	59	283	218	380	0
TSS (mg/L)	9	4	1995 - 1995	10.3	4	11.1	5.4	<BDL>	29	0

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-21. SUMMARY STATISTIC FOR STATION 4991940 - JORDAN RIVER AT 400 SOUTH.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	9	1	2004 - 2004	3.6	3.3	0.9	3.5	<BDL>	5.2	11.1
E Coli (#/100mL)	9	0	2004 - 2004	556	200	871	170-280	100	2,800	
Fecal Coliform (#/100mL)	9	0	2004 - 2004	682	520	484	431-683	210	1,680	40.0-85.7
DO (mg/L)	15	0	2004 - 2004	4.75	4.73	0.69	4.70	3.28	5.91	25b(n=4), 9.1c(n=11), 86.7e
TP (mg/L)	9	0	2004 - 2004	0.98	1.04	0.22	0.95	0.58	1.2	100
Temperature (°C)	15	0	2004 - 2004	20.0	20.8	1.8	19.9	16.4	22.4	0
Total Coliform (#/100mL)	9	0	2004 - 2004	3,611	2,200	3,737	2,601	700	13,000	22.2
TDS (mg/L)	9	0	2004 - 2004	910	938	155	897	586	1,102	0
TSS (mg/L)	9	0	2004 - 2004	24	26	6.1	23.2	13.2	32.8	0

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-22. Measurements of *escherichia coli* (E. Coli) taken at station 4991940 Jordan River at 400 South. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2006 303(d) list (DWQ 2006). Geometric means and Percent Exceedance values are calculated from at least 5 samples.**

Station	Agency	Date	Parameter	Measured Value	Values > 940	Geometric Mean	% Exceedance	Units	Comment
4991940	UTAHDWQ	6/2/2004	E. Coli	400				#/100ml	
4991940	UTAHDWQ	6/9/2004	E. Coli	300				#/100ml	
4991940	UTAHDWQ	6/16/2004	E. Coli	100				#/100ml	
4991940	UTAHDWQ	6/22/2004	E. Coli	100				#/100ml	
4991940	UTAHDWQ	6/24/2004	E. Coli	200		188.8	0.0	#/100ml	
4991940	UTAHDWQ	6/29/2004	E. Coli	100		169.8	0.0	#/100ml	
4991940	UTAHDWQ	7/1/2004	E. Coli	2800	2800	253.5	14.3	#/100ml	
4991940	UTAHDWQ	7/7/2004	E. Coli	800		279.8	14.3	#/100ml	
4991940	UTAHDWQ	7/14/2004	E. Coli	200		264.1	14.3	#/100ml	

**Table B-23. Measurements of Fecal Coliform taken at station 4991940 Jordan River at 400 South. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2004 303(d) list (DWQ 2004). Geometric means and Percent Exceedance values are calculated from at least 5 samples. Bold text shown in the Percent Exceedance column indicate sample dates where Criterion 2 is violated.**

Station	Agency	Date	Parameter	Measured Value	Values > 400	Geometric Mean	% Exceedance	Units	Comment
4991940	UTAHDWQ	6/2/2004	Fecal Coliform	210				#/100ml	
4991940	UTAHDWQ	6/9/2004	Fecal Coliform	300				#/100ml	
4991940	UTAHDWQ	6/16/2004	Fecal Coliform	250				#/100ml	
4991940	UTAHDWQ	6/22/2004	Fecal Coliform	1120	1120			#/100ml	
4991940	UTAHDWQ	6/24/2004	Fecal Coliform	840	840	430.7	<b>40.0</b>	#/100ml	
4991940	UTAHDWQ	6/29/2004	Fecal Coliform	1680	1680	540.4	<b>50.0</b>	#/100ml	
4991940	UTAHDWQ	7/1/2004	Fecal Coliform	800	800	571.5	<b>57.1</b>	#/100ml	
4991940	UTAHDWQ	7/7/2004	Fecal Coliform	520	520	650.5	<b>71.4</b>	#/100ml	
4991940	UTAHDWQ	7/14/2004	Fecal Coliform	420	420	682.6	<b>85.7</b>	#/100ml	

**Table B-24. SUMMARY STATISTIC FOR STATION 4992030 - JORDAN RIVER AT 700 SOUTH.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	9	0	2004 - 2004	3.3	3.2	0.9	3.2	2.1	5.1	11.1
E Coli (#/100mL)	9	2	2004 - 2004	515	400	549	23-458	<BDL>	1,800	
Fecal Coliform (#/100mL)	9	0	2004 - 2004	564	360	491	375-518	260	1,730	33.3-57.1
DO (mg/L)	18	0	2004 - 2004	5.15	5.1	0.85	5.09	3.56	6.92	14.3b(n=7), 18.2c(n=11), 66.7e
pH	3	0	2004 - 2004	7.8	7.83	0.1	7.8	7.76	7.94	0
TP (mg/L)	9	0	2004 - 2004	1.01	1.03	0.25	0.97	0.49	1.25	100
Salinity (mg/l@ 25°C)	3	0	2004 - 2004	0.96	0.97	0.09	0.96	0.87	1.05	
Temperature (°C)	18	0	2004 - 2004	19.8	19.94	1.8	19.8	16.2	22.3	0
Total Coliform (#/100mL)	9	0	2004 - 2004	2,744	2,500	1,567	2,408	1,000	6,300	11.1
TDS (mg/L)	9	0	2004 - 2004	910	928	155	896	572	1,094	0
TSS (mg/L)	9	0	2004 - 2004	22.3	22.8	6.5	21.4	12	33.2	0

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-25. Measurements of *escherichia coli* (E. Coli) taken at station 4992030 Jordan River at 700 South. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2006 303(d) list (DWQ 2006). Geometric means and Percent Exceedance values are calculated from at least 5 samples.**

Station	Agency	Date	Parameter	Measured Value	Values > 940	Geometric Mean	% Exceedance	Units	Comment
4992030	UTAHDWQ	6/2/2004	E. Coli	600				#/100ml	
4992030	UTAHDWQ	6/9/2004	E. Coli	200				#/100ml	
4992030	UTAHDWQ	6/16/2004	E. Coli	700				#/100ml	
4992030	UTAHDWQ	6/22/2004	E. Coli	100				#/100ml	
4992030	UTAHDWQ	6/24/2004	E. Coli	400		320.1	0.0	#/100ml	
4992030	UTAHDWQ	6/29/2004	E. Coli	700		364.7	0.0	#/100ml	
4992030	UTAHDWQ	7/1/2004	E. Coli	1800	1800	458.1	14.3	#/100ml	
4992030	UTAHDWQ	7/7/2004	E. Coli	0		95.1	14.3	#/100ml	BDL
4992030	UTAHDWQ	7/14/2004	E. Coli	0		23.1	14.3	#/100ml	BDL

**Table B-26. Measurements of Fecal Coliform taken at station 4992030 Jordan River at 700 South. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2004 303(d) list (DWQ 2004). Geometric means and Percent Exceedance values are calculated from at least 5 samples. Bold text shown in the Percent Exceedance column indicate sample dates where Criterion 2 is violated.**

Station	Agency	Date	Parameter	Measured Value	Values > 400	Geometric Mean	% Exceedance	Units	Comment
4992030	UTAHDWQ	6/2/2004	Fecal Coliform	260				#/100ml	
4992030	UTAHDWQ	6/9/2004	Fecal Coliform	280				#/100ml	
4992030	UTAHDWQ	6/16/2004	Fecal Coliform	360				#/100ml	
4992030	UTAHDWQ	6/22/2004	Fecal Coliform	290				#/100ml	
4992030	UTAHDWQ	6/24/2004	Fecal Coliform	980	980	375.3	<b>20.0</b>	#/100ml	
4992030	UTAHDWQ	6/29/2004	Fecal Coliform	1730	1730	484.2	<b>33.3</b>	#/100ml	
4992030	UTAHDWQ	7/1/2004	Fecal Coliform	440	440	477.6	<b>42.9</b>	#/100ml	
4992030	UTAHDWQ	7/7/2004	Fecal Coliform	280		482.7	<b>42.9</b>	#/100ml	
4992030	UTAHDWQ	7/14/2004	Fecal Coliform	460	460	518.2	<b>57.1</b>	#/100ml	

**Table B-27. SUMMARY STATISTIC FOR STATION 4992140 - EMIGRATION CANYON CREEK AT ROTARY GLEN.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	13	0	1976 - 1979	2	1	3.6	1.2	1	14	7.7
Fecal Coliform (#/100mL)	1	0	1978 - 1978	-	-	-	INS <sub>3</sub>	-	-	
Flow (cfs)	97	12	1995 - 2003	9.1	3.84	12.1	4.5	<BDL>	59.95	
Ammonia (mgN/L)	2	0	1976 - 1976	0.100	0.1	0	0.1	0.1	0.1	0 (n=2)
	77	74	1995 - 2001	0.003	0.000276	0.011	0.000	<BDL>	0.07	0 (n=77)
DO (mg/L)	9	0	1976 - 1979	8.24	8.6	1.50	8.11	5.5	10.4	
pH	86	0	1995 - 2003	8.2	8.3	0.3	8.2	7.39	8.8	0
DP (mg/L)	69	17	1995 - 2004	0.03	0.024	0.05	0.02	<BDL>	0.427	13
TP (mg/L)	90	30	1995 - 2005	0.05	0.02255	0.07	0.02	<BDL>	0.55	23.3
Specific Conductivity (umhos/cm@25°C)	5	0	1975 - 1976	759	760	114	752	595	915	0b(n=9), 22.2f, 22.2g
	97	0	1995 - 2005	934	908	202	916	568	1,770	
Temperature (°C)	9	0	1976 - 1979	9.3	7.2	6.8	6.4	1	20	0
	87	0	1995 - 2003	8.6	8.7	4.6	6.7	0.4	18.7	0
Total Coliform (#/100mL)	8	0	1976 - 1979	464	310	484	324	80	1,600	0
TDS (mg/L)	5	0	1975 - 1976	473	494	76	468	342	533	0
	97	0	1995 - 2005	567	532	128	554	358	990	0
TSS (mg/L)	11	0	1976 - 1979	36.3	6	78.9	11.5	3	270	18.2
	107	57	1995 - 2005	28	4.75	67.1	4.8	<BDL>	471.3	16.8

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.



**Table B-28. SUMMARY STATISTIC FOR STATION 4992230 - PARLEYS CANYON CREEK AT MOUTH.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Flow (cfs)	35	0	2000 - 2002	4.3	3	3.3	3.4	1.4	12.6	
Ammonia (mgN/L)	24	24	1999 - 2001	-	-	-	-	-	-	0 (n=24)
pH	45	0	1999 - 2003	8.2	8.2	0.2	8.2	7.7	8.4	0
DP (mg/L)	25	14	1999 - 2004	0.02	0.01499	0.02	0.01	<BDL>	0.082	4
TP (mg/L)	62	36	1999 - 2005	0.02	0.01261	0.04	0.01	<BDL>	0.304	6.5
Specific Conductivity (umhos/cm@25°C)	64	0	1999 - 2005	1,163	1,110	336	1,110	102.8	3,020	
Temperature (°C)	45	0	1999 - 2003	9.2	8.9	2.4	8.9	4.5	13.6	0
TDS (mg/L)	64	0	1999 - 2005	722	699	191	705	484	1,794	3.1
TSS (mg/L)	64	46	1999 - 2005	8.5	1.008	30.2	1.0	<BDL>	207	4.7

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-29. SUMMARY STATISTIC FOR STATION 4992270 - JORDAN RIVER AT CALIFORNIA AVE (1300 SOUTH) CROSSING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	62	0	1976 - 1988	8.0	7	3.4	7.3	3	16	74.2
	9	1	2004 - 2004	3.0	2.7	1.0	2.8	<BDL>	4.9	0
E Coli (#/100mL)	9	0	2004 - 2004	422	400	254	270-365	100	1,000	
Fecal Coliform (#/100mL)	43	3	1978 - 1988	6,696	1,000	10,400	INS <sub>3</sub>	<BDL>	30,000	
	9	0	2004 - 2004	514	440	284	402-557	190	980	60.0-71.4
Fecal Strep (#/100mL)	40	5	1981 - 1988	494	330	755	180	<BDL>	3,500	
Ammonia (mgN/L)	29	0	1983 - 1988	1.130	0.8	1.02	0.881	0.3	4.6	0 (n=29)
DO (mg/L)	65	0	1976 - 1988	7.41	7.4	2.04	7.01	0.6	11.5	0b(n=47), 11.1c(n=18), 13.8e
	14	0	2004 - 2004	5.3	5.275	0.98	5.22	3.73	6.96	33.3b(n=3), 18.2c(n=11), 50.0e
pH	38	0	1980 - 1988	7.8	7.85	0.3	7.8	7.4	8.5	0
TP (mg/L)	9	0	2004 - 2004	1.09	1.23	0.31	1.04	0.51	1.45	100
Temperature (°C)	63	1	1976 - 1988	10.1	11	5.3	8.2	<BDL>	20	0
	14	0	2004 - 2004	19.6	20.35	2.3	19.4	15	22.3	0
Total Coliform (#/100mL)	53	2	1976 - 1988	28,620	7,900	42,800	7,202	<BDL>	180,000	58.5
	9	0	2004 - 2004	1,900	1,400	1,294	1,628	800	4,800	0
TDS (mg/L)	9	0	2004 - 2004	945	994	192	923	506	1,138	0
TSS (mg/L)	62	0	1976 - 1988	69.1	50	67.1	43.5	4	310	67.7
	9	0	2004 - 2004	19.1	19.6	3.3	18.9	14.8	24.8	0

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-30. Measurements of *escherichia coli* (E. Coli) taken at station 4992270 Jordan River at California Avenue (1300 South) Crossing. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2006 303(d) list (DWQ 2006). Geometric means and Percent Exceedance values are calculated from at least 5 samples.**

Station	Agency	Date	Parameter	Measured Value	Values > 940	Geometric Mean	% Exceedance	Units	Comment
4992270	UTAHDWQ	6/2/2004	E. Coli	300				#/100ml	
4992270	UTAHDWQ	6/9/2004	E. Coli	400				#/100ml	
4992270	UTAHDWQ	6/16/2004	E. Coli	100				#/100ml	
4992270	UTAHDWQ	6/22/2004	E. Coli	400				#/100ml	
4992270	UTAHDWQ	6/24/2004	E. Coli	300		270.2	0.0	#/100ml	
4992270	UTAHDWQ	6/29/2004	E. Coli	300		274.9	0.0	#/100ml	
4992270	UTAHDWQ	7/1/2004	E. Coli	1000	1000	330.6	14.3	#/100ml	
4992270	UTAHDWQ	7/7/2004	E. Coli	600		365.1	14.3	#/100ml	
4992270	UTAHDWQ	7/14/2004	E. Coli	400		365.1	14.3	#/100ml	

**Table B-31. Measurements of Fecal Coliform taken at station 4992270 Jordan River at California Avenue (1300 South) Crossing. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2004 303(d) list (DWQ 2004). Geometric means and Percent Exceedance values are calculated from at least 5 samples. Bold text shown in the Percent Exceedance column indicate sample dates where Criterion 2 is violated.**

Station	Agency	Date	Parameter	Measured Value	Values > 400	Geometric Mean	% Exceedance	Units	Comment
4992270	UTAHDWQ	6/2/2004	Fecal Coliform	190				#/100ml	
4992270	UTAHDWQ	6/9/2004	Fecal Coliform	220				#/100ml	
4992270	UTAHDWQ	6/16/2004	Fecal Coliform	440	440			#/100ml	
4992270	UTAHDWQ	6/22/2004	Fecal Coliform	580	580			#/100ml	
4992270	UTAHDWQ	6/24/2004	Fecal Coliform	980	980	401.7	<b>60.0</b>	#/100ml	
4992270	UTAHDWQ	6/29/2004	Fecal Coliform	900	900	459.5	<b>66.7</b>	#/100ml	
4992270	UTAHDWQ	7/1/2004	Fecal Coliform	640	640	481.7	<b>71.4</b>	#/100ml	
4992270	UTAHDWQ	7/7/2004	Fecal Coliform	320		519.0	<b>71.4</b>	#/100ml	
4992270	UTAHDWQ	7/14/2004	Fecal Coliform	360		556.8	<b>71.4</b>	#/100ml	

**Table B-32. SUMMARY STATISTIC FOR STATION 4992320 - JORDAN RIVER 1100 WEST 2100 SOUTH.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	74	0	1977 - 1992	7.1	6	4.2	6.3	2	31	62.2
	44	18	1996 - 2005	2.9	2.55	1.8	2.4	<BDL>	10	9.1
E Coli (#/100mL)	9	2	2004 - 2004	465	400	675	17-355	<BDL>	2,200	
Fecal Coliform (#/100mL)	68	5	1978 - 1993	4,732	535	10,300	INS <sub>3</sub>	<BDL>	58,000	
	13	0	2001 - 2004	6,187	360	18,600	312-344	190	68,000	
Fecal Strep (#/100mL)	61	7	1981 - 1992	732	240	1,700	183	<BDL>	11,000	
	4	0	2001 - 2001	1,238	976	840	1,053	580	2,419	
Flow (cfs)	21	0	1983 - 1994	392.5	292	301	284.6	3	1,320	
	47	0	1995 - 2002	721	565	525	565.3	102	2,720	
Ammonia (mgN/L)	67	6	1983 - 1994	1.286	0.81	1.62	0.773	<BDL>	9.4	1 (n=67)
	52	19	1995 - 2004	0.193	0.08585	0.343	0.073	<BDL>	1.792	0 (n=51)
DO (mg/L)	92	0	1977 - 1994	7.82	7.8	1.90	7.50	0.7	12.1	0b(n=66), 3.8c(n=26), 7.6e
	76	0	1995 - 2005	7.64	7.475	1.94	7.41	3.61	15	2.1b(n=47), 0c(n=29), 14.5e
pH	74	0	1980 - 1994	7.8	7.9	0.3	7.8	7	8.4	0
	61	0	1995 - 2005	7.8	7.79	0.3	7.8	6.76	8.51	0
DP (mg/L)	19	0	1991 - 1994	1.47	1.216	0.82	1.29	0.673	3.5	100
	28	1	1995 - 2005	0.77	0.7125	0.43	0.61	<BDL>	1.499	96.4
TP (mg/L)	25	0	1986 - 1994	1.61	1.546	0.71	1.45	0.54	2.866	100
	37	1	1995 - 2005	0.91	0.926	0.43	0.75	<BDL>	2.03	94.6
Salinity (mg/l @ 25°C)	27	0	2000 - 2005	0.79	0.82	0.21	0.76	0.31	1.37	
Specific Conductivity (umhos/cm @ 25°C)	26	0	1986 - 1994	1,538	1,619	313	1,498	593	2,108	
	28	0	1995 - 2005	1,394	1,445	395	1,331	552	2,008	
Temperature (°C)	94	1	1977 - 1994	11.7	11.8	5.3	10.2	<BDL>	21.9	0
	77	0	1995 - 2005	14.6	14.24	5.4	13.5	3.7	24.39	0
Total Coliform (#/100mL)	75	1	1977 - 1993	19,030	3,700	34,700	3,756	<BDL>	150,000	41.3
	13	0	2001 - 2004	43,360	2,800	129,000	4,659	800	470,000	38.5
TDS (mg/L)	26	0	1986 - 1994	972	1,025	206	944	374	1,346	3.8
	37	0	1995 - 2005	880	914	252	837	298	1,302	2.7
TSS (mg/L)	88	2	1977 - 1994	64.9	50	62.5	40.6	<BDL>	350	59.1
	56	4	1995 - 2005	31.4	22.2	29.8	22.4	<BDL>	144	23.2

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L. <sub>3</sub> INS=Insufficient data.

**Table B-33. SUMMARY STATISTIC FOR STATION 4992320 - JORDAN RIVER 1100 WEST 2100 SOUTH - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	6	2	1999 - 2000	3.0	3	0.6	2.9	<BDL>	4	0
	14	5	2004 - 2005	2.5	2.15	1.6	2.1	<BDL>	7	7.1
Fecal Coliform (#/100 mL)	9	0	2004 - 2004	337	280	194	304	190	820	77.8
Flow (cfs)	15	0	1999 - 2000	749.7	712	394.1	648.8	286	1360	
Ammonia (mgN/L)	14	2	1999 - 2000	0.088	0.0921	0.028	0.085	<BDL>	0.17	0
	2	2	2004 - 2004	-	-	-	-	-	-	0
DO (mg/L)	15	0	1999 - 2000	8.21	8.23	1.17	8.13	6.52	10.6	0b, 0c, 0e
	24	0	2004 - 2005	6.98	6.11	2.55	6.60	3.61	15	8.3b, 0c, 33.3e
pH	15	0	1999 - 2000	7.7	7.8	0.3	7.7	6.76	8.3	0
	9	0	2004 - 2005	7.7	7.74	0.2	7.7	7.41	7.97	0
DP (mg/L)	11	0	1999 - 2000	0.61	0.66	0.29	0.50	0.054	1.04	100
	6	0	2004 - 2005	1.30	1.395	0.22	1.28	0.918	1.47	100
TP (mg/L)	11	0	1999 - 2000	0.84	0.737	0.45	0.76	0.441	2.03	100
	15	0	2004 - 2005	1.14	1.14	0.27	1.10	0.48	1.56	100
Salinity (mg/l@ 25°C)	8	0	2000 - 2000	0.65	0.7	0.14	0.63	0.4	0.8	
	9	0	2004 - 2005	0.96	0.95	0.17	0.95	0.74	1.37	
Specific Conductivity (umhos/cm@25°C)	15	0	1999 - 2000	1,270	1348	304	1,227	571	1653	
	9	0	2004 - 2005	1,807	1780	322	1,784	1404	2554	
Temperature (°C)	15	0	1999 - 2000	13.8	13.5	4.4	13.1	6.4	21.4	0
	24	0	2004 - 2005	17.2	19.05	4.6	16.5	7.81	22.57	0
Total Coliform (#/100mL)	9	0	2004 - 2004	2,222	1700	1,524	1,841	800	5400	11.1
TDS (mg/L)	11	0	1999 - 2000	796	832	189	772	408	1034	0
	15	0	2004 - 2005	1,019	1072	166	1,003	532	1176	0
TSS (mg/L)	14	0	1999 - 2000	44.7	33	27.5	38.4	21	111.3	42.9
	17	1	2004 - 2005	21.1	20.4	6.5	20.2	<BDL>	38.8	5.9

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-34. Measurements of *escherichia coli* (E. Coli) taken at station 4992320 Jordan River 1100 West 2100 South. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2006 303(d) list (DWQ 2006). Geometric means and Percent Exceedance values are calculated from at least 5 samples.**

Station	Agency	Date	Parameter	Measured Value	Values > 940	Geometric Mean	% Exceedance	Units	Comment
4992320	UTAHDWQ	6/2/2004	E. Coli	400				#/100ml	
4992320	UTAHDWQ	6/9/2004	E. Coli	400				#/100ml	
4992320	UTAHDWQ	6/16/2004	E. Coli	100				#/100ml	
4992320	UTAHDWQ	6/22/2004	E. Coli	100				#/100ml	
4992320	UTAHDWQ	6/24/2004	E. Coli	500		240.2	0.0	#/100ml	
4992320	UTAHDWQ	6/29/2004	E. Coli	400		261.5	0.0	#/100ml	
4992320	UTAHDWQ	7/1/2004	E. Coli	2200	2200	354.5	14.3	#/100ml	
4992320	UTAHDWQ	7/7/2004	E. Coli	0		78.0	14.3	#/100ml	BDL
4992320	UTAHDWQ	7/14/2004	E. Coli	0		17.2	14.3	#/100ml	BDL

**Table B-35. Measurements of Fecal Coliform taken at station 4992320 Jordan River 1100 West 2100 South. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2004 303(d) list (DWQ 2004). Geometric means and Percent Exceedance values are calculated from at least 5 samples.**

Station	Agency	Date	Parameter	Measured Value	Values > 400	Geometric Mean	% Exceedance	Units	Comment
4992320	UTAHDWQ	6/2/2004	Fecal Coliform	190				#/100ml	
4992320	UTAHDWQ	6/9/2004	Fecal Coliform	240				#/100ml	
4992320	UTAHDWQ	6/16/2004	Fecal Coliform	280				#/100ml	
4992320	UTAHDWQ	6/22/2004	Fecal Coliform	280				#/100ml	
4992320	UTAHDWQ	6/24/2004	Fecal Coliform	820	820	311.5	<b>20.0</b>	#/100ml	
4992320	UTAHDWQ	6/29/2004	Fecal Coliform	400		324.7	<b>16.7</b>	#/100ml	
4992320	UTAHDWQ	7/1/2004	Fecal Coliform	360		329.6	<b>14.3</b>	#/100ml	
4992320	UTAHDWQ	7/7/2004	Fecal Coliform	260		344.7	<b>14.3</b>	#/100ml	
4992320	UTAHDWQ	7/14/2004	Fecal Coliform	200		335.8	<b>14.3</b>	#/100ml	

**Table B-36. SUMMARY STATISTIC FOR STATION 4992500 - CENTRAL VALLEY WWTP.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	59	0	1988 - 1992	11.1	8	10.2	8.5	2	47	
	4	0	1995 - 1999	6	6	2.9	5.4	3	9	
Fecal Coliform (#/100mL)	59	12	1988 - 1994	115	8	580	INS <sub>3</sub>	<BDL>	4,400	
	63	7	1995 - 2005	21	8	36	INS <sub>3</sub>	<BDL>	180	
Fecal Strep (#/100mL)	18	2	1988 - 1992	41	20	57	16	<BDL>	192	
Ammonia (mgN/L)	57	4	1988 - 1994	3.561	2.4	3.91	1.809	<BDL>	21	
	66	6	1995 - 2004	1.460	0.1905	2.555	0.331	<BDL>	12.303	
DO (mg/L)	53	0	1988 - 1994	5.03	4.75	1.50	4.82	2.5	9.5	
	72	0	1995 - 2005	5.43	5.35	1.16	5.31	3.05	9.22	
pH	59	0	1988 - 1994	7.4	7.4	0.3	7.4	6.9	8.2	
	72	0	1995 - 2005	7.2	7.125	0.3	7.2	6.56	7.81	
DP (mg/L)	7	0	1991 - 1992	6.40	6.5	2.99	5.49	1.3	10	
	9	0	1999 - 2000	3.16	3.04	0.59	3.11	2.56	4.49	
TP (mg/L)	13	0	1999 - 2005	3.13	3.17	0.45	3.1	2.07	3.74	
	13	0	1999 - 2005	3.13	3.17	0.45	3.1	2.07	3.74	
Salinity (mg/l@ 25°C)	33	0	2000 - 2005	0.71	0.7	0.13	0.69	0.2	0.98	
Temperature (°C)	59	0	1988 - 1994	16.6	16.5	3.9	16.1	8.5	22.5	
	72	0	1995 - 2005	17.0	16.07	3.6	16.6	11.31	23.72	
Total Coliform (#/100mL)	60	1	1988 - 1994	629	240	984	225	<BDL>	4,800	
	67	2	1995 - 2005	935	330	2,122	366	<BDL>	14,100	
TSS (mg/L)	60	22	1988 - 1994	8.5	5	16.5	3.9	<BDL>	85	
	73	21	1995 - 2005	5.2	4.8	2.1	4.8	<BDL>	13.2	

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-37. SUMMARY STATISTIC FOR STATION 4992500 - CENTRAL VALLEY WWTP - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Fecal Coliform (#/100 mL)	10	0	1999 - 2000	13.8	7	19.7	6.9	2	64	
	9	4	2004 - 2005	7.8	2	8.1	4.0	<BDL>	22	
Ammonia (mgN/L)	17	1	1999 - 2000	0.389	0.0813	1.162	0.116	<BDL>	4.89	
	3	1	2004-2005	0.580	0.122	0.899	0.122	<BDL>	1.62	
DO (mg/L)	18	0	1999 - 2000	5.17	4.99	0.63	5.14	4.02	6.63	
	9	0	2004 - 2005	6.61	6.36	1.08	6.54	5.56	9.22	
pH	18	0	1999 - 2000	7.1	7.11	0.1	7.1	6.73	7.28	
	9	0	2004 - 2005	7.1	7.02	0.3	7.1	6.56	7.64	
DP (mg/L)	9	0	1999 - 2000	3.16	3.04	0.59	3.11	2.56	4.49	
TP (mg/L)	9	0	1999 - 2000	3.22	3.17	0.32	3.21	2.81	3.74	
Salinity (mg/l@ 25°C)	10	0	2000 - 2000	0.76	0.8	0.08	0.76	0.6	0.9	
	9	0	2004 - 2005	0.74	0.74	0.13	0.73	0.51	0.98	
Specific Conductivity (umhos/cm@25°C)	18	0	1999 - 2000	1,299	1372	284	1,259	581	1610	
	9	0	2004 - 2005	1,385	1390	229	1,368	983	1843	
Temperature (°C)	18	0	1999 - 2000	17.3	16.35	3.3	17.0	13.5	23.4	
	9	0	2004 - 2005	16.5	15.22	4.4	16.0	12.17	22.85	
Total Coliform (#/100mL)	10	2	1999 - 2000	1,268	190	3,095	208	<BDL>	10000	
	9	0	2004 - 2005	191	180	147	141	30	520	
TSS (mg/L)	17	6	1999 - 2000	4.9	4.8	1.5	4.7	<BDL>	7.6	
	9	5	2004 - 2005	4.2	4.129	1.1	4.1	<BDL>	6	

<sup>1</sup> Number of samples below detection limit (BDL).

<sup>2</sup> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.



**Table B-38. SUMMARY STATISTIC FOR STATION 4992540 - MILL CREEK ABOVE CENTRAL VALLEY WWTP AT 300 WEST.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	5	2	1982 - 1983	1	1	0	1	<BDL>	1	0
Fecal Coliform (#/100mL)	3	0	1983 - 1983	5,113	240	8,562	INS <sub>3</sub>	100	15,000	
Fecal Strep (#/100mL)	3	0	1982 - 1983	4,833	60	8,285	326	40	14,400	
Flow (cfs)	23	0	1983 - 1994	27.3	19	29.8	20.1	7	143.6	
	31	0	1995 - 2005	37.3	25	27.5	28.5	5	107	
Ammonia (mgN/L)	17	13	1982 - 1994	0.066	0.06375	0.019	0.064	<BDL>	0.1	0 (n=17)
	21	17	1995 - 2000	0.031	0.01226	0.05	0.012	<BDL>	0.21	0 (n=21)
DO (mg/L)	17	0	1982 - 1994	8.85	8.9	1.46	8.73	6.4	11.6	0a, 0d
	28	0	1995 - 2005	9.02	8.84	1.31	8.93	6.9	11.6	0a, 0d
pH	18	0	1982 - 1994	8	7.9	0.3	8	7.6	8.9	0
	27	0	1995 - 2005	7.9	8	0.2	7.9	7.1	8.3	0
DP (mg/L)	12	0	1994 - 1994	0.03	0.02	0.04	0.02	0.013	0.143	8.3
	27	2	1995 - 2005	0.03	0.025	0.01	0.03	<BDL>	0.058	3.7
TP (mg/L)	17	0	1982 - 1994	0.15	0.06	0.21	0.08	0.016	0.88	70.6
	27	1	1995 - 2005	0.1	0.047	0.18	0.06	<BDL>	0.935	48.1
Salinity (mg/l@ 25°C)	13	0	2000 - 2005	0.57	0.52	0.15	0.55	0.4	0.92	
Specific Conductivity (umhos/cm@25°C)	17	0	1982 - 1994	946	920	229	919	570	1,378	
	27	0	1995 - 2005	1,106	974	612	1,005	513	3,157	
Temperature (°C)	17	0	1982 - 1994	11.4	10.3	4.4	10.6	4.2	19.9	0
	28	0	1995 - 2005	11.9	11.25	4.2	11.2	5.6	21.07	0
Total Coliform (#/100mL)	5	0	1982 - 1983	4,340	1,700	4,431	2,696	800	11,000	40
TDS (mg/L)	17	0	1982 - 1994	617	596	138	602	346	858	0
	27	0	1995 - 2005	679	570	358	620	312	1,904	7.4
TSS (mg/L)	18	2	1982 - 1994	54.8	16	99.5	18.3	<BDL>	353	33.3
	27	0	1995 - 2005	25.1	16.4	29.3	16.7	4.4	128	14.8

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-39. SUMMARY STATISTIC FOR STATION 4992540 - MILL CREEK ABOVE CENTRAL VALLEY WWTP AT 300 WEST - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Flow (cfs)	10	0	1999 - 2000	38.7	27.4	22.7	33.9	21	80	
	5	0	2004 - 2005	12.4	6.8	11.3	9.4	5	31.46	
Ammonia (mgN/L)	11	10	1999 - 2000	0.030	0.030	-	-	0.030	0.030	0
DO (mg/L)	11	0	1999 - 2000	8.70	8.79	1.08	8.64	7.46	10.6	0b, 0c, 0e
	7	0	2004 - 2005	8.85	8.71	1.27	8.78	7.45	11.03	0b, 0c, 0e
pH	11	0	1999 - 2000	7.9	8	0.2	7.9	7.62	8.18	0
	7	0	2004 - 2005	7.9	7.99	0.2	7.9	7.48	8.24	0
DP (mg/L)	11	1	1999 - 2000	0.03	0.039	0.01	0.03	<BDL>	0.058	9.1
	6	1	2004 - 2005	0.02	0.0215	0.00	0.02	<BDL>	0.024	0
TP (mg/L)	11	1	1999 - 2000	0.13	0.043	0.27	0.05	<BDL>	0.935	45.5
	6	0	2004 - 2005	0.05	0.041	0.03	0.04	0.023	0.091	50
Salinity (mg/l@ 25°C)	6	0	2000 - 2000	0.45	0.45	0.05	0.45	0.4	0.5	
	7	0	2004 - 2005	0.67	0.65	0.14	0.66	0.52	0.92	
Specific Conductivity (umhos/cm@25°C)	11	0	1999 - 2000	1,095	925	672	994	707	3089	
	7	0	2004 - 2005	1,277	1225	248	1,258	989	1725	
Temperature (°C)	11	0	1999 - 2000	12.7	13.4	4.2	11.9	5.6	18.4	0
	7	0	2004 - 2005	12.8	9.81	6.2	11.5	6.86	21.07	0
TDS (mg/L)	11	0	1999 - 2000	650	568	343	603	460	1670	9.1
	6	0	2004 - 2005	826	785	109	820	716	984	0
TSS (mg/L)	11	0	1999 - 2000	20.6	18.8	11.5	18.3	8.8	50	9.1
	6	0	2004 - 2005	11.0	9.8	5.3	9.9	4.4	18	0

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-40. SUMMARY STATISTIC FOR STATION 4992880 - JORDAN RIVER AT 3300 S CROSSING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	59	0	1978 - 1992	5.22	5	3.494	4.439	1	25	33.9
	36	20	1996 - 2005	2.879	2.417	1.805	2.416	<BDL>	7	11.1
Fecal Coliform (#/100ml)	12	0	1978 - 1992	6293	3050	7858	2611	200	24000	91.7
Flow (cfs)	14	0	1996 - 2004	582.8	304.5	454	419	85	1514	
Ammonia (mgN/l)	50	6	1978 - 1992	0.6366	0.5	0.6047	0.3977	<BDL>	3.2	0
	35	24	1996 - 2004	0.05873	0.05107	0.03331	0.05107	<BDL>	0.178	0
DO (mg/l)	52	0	1979 - 1992	9.4	9.1	2.216	9.147	5	14.4	0b, 0c
	40	0	1996 - 2005	9.235	9.265	1.518	9.118	6.28	13.39	0b, 0c
pH	43	0	1984 - 1992	7.947	8	0.2877	7.942	7.3	8.4	0
	40	0	1996 - 2005	8.107	8.04	0.3198	8.1	7.32	9.03	0
TP (mg/l)	14	0	1978 - 1991	1.038	0.59	1.741	0.653	0.254	7.05	100
Salinity (mg/L @ 25°C)	21	0	2000 - 2005	0.8819	0.9	0.2882	0.8224	0.2	1.63	
Specific Conductivity (umhos/cm @ 25°C)	12	0	1989 - 1991	1722	1865	416.8	1642	522	2071	
	40	0	1996 - 2005	1549	1567	430.2	1482	457	3014	
Temperature	54	1	1979 - 1992	11.19	11	5.849	9.151	<BDL>	22	0
	40	0	1996 - 2005	13.43	12.59	6.047	11.91	2.6	23.93	0
Total Coliform(#/100ml)	56	1	1978 - 1992	8893	2400	18880	2091	<BDL>	86000	25
TDS (mg/l)	15	0	1978 - 1991	1106	1226	305.5	1043	326	1370	60
TSS (mg/l)	59	0	1978 - 1992	82.05	60	77.67	47.12	1	390	66.1
	27	4	1998 - 2005	32.61	22.8	28.79	21.33	<BDL>	103.5	29.6

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B41. SUMMARY STATISTIC FOR STATION 4992880 - JORDAN RIVER AT 3300 SOUTH CROSSING - INTENSIVE MONITORING.**

Parameter	n	BDL <sup>1</sup>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Ammonia (mgN/L)	8	8	1999 - 2000	-	-	-	-	-	-	0
	2	2	2004-2005	-	-	-	-	-	-	0
DO (mg/L)	8	0	1999 - 2000	8.92	8.705	1.31	8.84	7.52	10.9	0b, 0c, 0e
pH	8	0	1999 - 2000	8.2	8.09	0.2	8.1	7.9	8.56	0
Specific Conductivity (umhos/cm@25°C)	8	0	1999 - 2000	1,343	1387	406	1,260	457	1737	
Temperature (°C)	8	0	1999 - 2000	13.2	13.56	5.7	12.1	6	22.97	0
TSS (mg/L)	8	0	1999 - 2000	54.0	53.75	26.1	48.2	22	95	62.5

<sup>1</sup> Number of samples below detection limit (BDL).

<sup>2</sup> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Water Temperature:** < 27 °C; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-42. SUMMARY STATISTIC FOR STATION 4992970 - BIG COTTONWOOD CREEK ABOVE JORDAN RIVER AT 500 WEST 4200 SOUTH.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	83	1	1976 - 1992	3.5	3	3.0	2.6	<BDL>	16	20.5
Fecal Coliform (#/100mL)	65	4	1976 - 1992	2,377	700	6,528	INS <sub>3</sub>	<BDL>	43,000	
Fecal Strep (#/100mL)	62	5	1981 - 1992	606	415	625	302	<BDL>	2,500	
Flow (cfs)	11	0	1994 - 1994	26.8	24	18.3	21.3	7	65	
	24	0	1995 - 2005	75.4	25	98.2	32.9	5	380	
Ammonia (mgN/L)	61	23	1976 - 1994	0.290	0.1	0.387	0.127	<BDL>	2	0 (n=61)
	21	20	1995 - 2000	-	-	-	-	-	-	0 (n=21)
DO (mg/L)	89	0	1976 - 1994	9.38	9.2	2.13	9.13	3.7	16	1.1b(n=89), 7.9f, 20.2g
	28	0	1995 - 2005	9.68	9.475	1.7	9.54	7.2	13.3	0b(n=28), 0f, 14.3g
pH	65	0	1980 - 1994	8	8	0.3	8	6.3	8.5	1.5
	27	0	1995 - 2005	8.1	8.1	0.2	8.1	7.6	8.6	0
DP (mg/L)	18	6	1991 - 1994	0.04	0.0255	0.04	0.03	<BDL>	0.11	38.9
	27	11	1995 - 2005	0.02	0.015	0.01	0.01	<BDL>	0.045	0
TP (mg/L)	25	1	1978 - 1994	0.07	0.047	0.06	0.06	<BDL>	0.21	48
	27	1	1995 - 2005	0.16	0.035	0.55	0.05	<BDL>	2.889	33.3
Salinity (mg/l @ 25°C)	13	0	2000 - 2005	0.56	0.58	0.29	0.49	0.2	1.24	
Specific Conductivity (umhos/cm @ 25°C)	31	0	1975 - 1994	923	972	383	822	228	1,630	
	27	0	1995 - 2005	961	998	605	792	197	3,060	
Temperature (°C)	92	0	1976 - 1994	10.4	9.25	5.1	9.0	1	22	4.3
	28	0	1995 - 2005	11.5	10.13	4.8	10.6	5.4	22.28	10.7
Total Coliform (#/100mL)	74	0	1976 - 1992	5,090	3,050	7,720	2,378	50	44,000	23
TDS (mg/L)	32	0	1975 - 1994	574	601	236	509	128	1,006	0
	27	0	1995 - 2005	567	596	356	464	112	1,766	3.7
TSS (mg/L)	94	2	1976 - 1994	57.9	20.5	125.3	24.8	<BDL>	1,030	37.2
	27	4	1995 - 2005	33.4	22.4	35.1	19.8	<BDL>	149	29.6

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-43. SUMMARY STATISTIC FOR STATION 4992970 - BIG COTTONWOOD CREEK ABOVE JORDAN RIVER AT 500 WEST 4200 SOUTH - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Flow (cfs)	15	0	1999 - 2005	45.2	10.8	77.2	18.7	5	275	
Ammonia (mgN/L)	11	11	1999-2000	-	-	-	-	-	-	0
DO (mg/L)	18	0	1999 - 2005	9.49	9.475	1.56	9.37	7.2	12.02	0b, 0c, 0e
pH	18	0	1999 - 2005	8.1	8.05	0.3	8.1	7.6	8.57	0
DP (mg/L)	17	9	1999 - 2005	0.02	0.01684	0.01	0.02	<BDL>	0.043	0
TP (mg/L)	17	1	1999 - 2005	0.21	0.035	0.69	0.04	<BDL>	2.889	23.5
Salinity (mg/l@ 25°C)	13	0	2000 - 2005	0.56	0.58	0.29	0.49	0.2	1.24	
Specific Conductivity (umhos/cm@25°C)	18	0	1999 - 2005	991	999.5	515	850	267	2305	
Temperature (°C)	18	0	1999 - 2005	12.4	12.34	5.6	11.2	5.4	22.28	0
TDS (mg/L)	17	0	1999 - 2005	604	626	257	535	170	1032	0
TSS (mg/L)	17	4	1999 - 2005	29.2	21.6	34.9	17.8	<BDL>	149	23.5

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-44. SUMMARY STATISTIC FOR STATION 4993580 - LITTLE COTTONWOOD CREEK 4900 SOUTH 600 WEST, SALT LAKE CITY.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	1	0	1981 - 1981	1.6	1.6	-	-	1.6	1.6	0
Fecal Coliform (#/100 mL)	1	0	1981 - 1981	750	750	-	INS <sub>3</sub>	750	750	
Fecal Strep (#/100 mL)	1	0	1981 - 1981	720	720	-	-	720	720	
Flow (cfs)	9	0	1994 - 1994	13.8	15	6.7	11.8	3	24	
	27	0	1995 - 2004	62.0	18	80.7	20.2	0.5	300	
Ammonia (mg N/L)	13	8	1994 - 1994	0.047	0.0392	0.030	0.039	<BDL>	0.111	0
	20	14	1995 - 2000	0.043	0.0329	0.032	0.033	<BDL>	0.13	0
DO (mg/L)	14	0	1981 - 1994	8.46	8.4	1.14	8.39	5.9	10	0b, 7.1f, 28.6g
	28	0	1995 - 2005	8.69	8.4	1.58	8.56	6.6	13.2	0b, 0f, 32.1g
pH	13	0	1994 - 1994	8.1	8.2	0.2	8.1	7.6	8.5	0
	27	0	1995 - 2005	8.1	8.07	0.3	8.1	7.36	8.8	0
DP (mg/L)	13	0	1994 - 1994	0.04	0.035	0.02	0.03	0.011	0.072	23.1
	26	6	1995 - 2005	0.03	0.031	0.03	0.03	<BDL>	0.154	11.5
TP (mg/L)	13	0	1994 - 1994	0.08	0.069	0.04	0.07	0.028	0.155	69.2
	26	0	1995 - 2005	0.07	0.065	0.05	0.06	0.014	0.235	61.5
Salinity (mg/l @ 25°C)	13	0	2000 - 2005	0.70	0.8	0.31	0.59	0.1	1.12	
Specific Conductivity (umhos/cm @ 25°C)	13	0	1994 - 1994	1399	1328	994	1150	434	4200	
	27	0	1995 - 2005	1272	1390	852	1001	248	3958	
Temperature (°C)	14	0	1981 - 1994	13.0	12.55	5.8	11.5	3.4	21.9	14.3
	28	0	1995 - 2005	11.3	10.95	5.3	10.1	3.97	22.24	10.7
Total Coliform (#/100 mL)	1	0	1981 - 1981	3200	3200	-	-	3200	3200	0
TDS (mg/L)	13	0	1994 - 1994	823	824	569	678	250	2398	15.4
	27	0	1995 - 2005	747	794	492	586	142	2248	14.8
TSS (mg/L)	14	0	1981 - 1994	28.6	23	23.7	20.6	4	80	28.6
	27	0	1995 - 2005	39.3	22	34.9	26.9	4	121	40.7

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-45. SUMMARY STATISTIC FOR STATION 4993580 - LITTLE COTTONWOOD CREEK 4900 SOUTH 600 WEST SALT LAKE CITY - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Flow (cfs)	15	0	1999 - 2000	48.8	15	66.4	15.1	0.5	219.5	
	2	0	2004 - 2004	4.5	4.5	0.7	4.5	4	5	
Ammonia (mgN/L)	10	9	1999 - 2000	0.030	0.030	-	-	0.030	0.030	0
DO (mg/L)	11	0	1999 - 2000	8.59	8.4	1.42	8.48	6.8	11.2	0b, 0c, 0e
	7	0	2004 - 2005	8.52	8.52	1.22	8.45	6.8	10.43	0b, 0c, 0e
pH	11	0	1999 - 2000	8.0	8	0.2	8.0	7.65	8.45	0
	7	0	2004 - 2005	8.0	8.07	0.3	8.0	7.36	8.24	0
DP (mg/L)	10	3	1999 - 2000	0.04	0.0365	0.04	0.03	<BDL>	0.154	20
	6	2	2004 - 2005	0.03	0.0235	0.01	0.02	<BDL>	0.045	0
TP (mg/L)	10	0	1999 - 2000	0.09	0.072	0.06	0.07	0.024	0.235	70
	6	0	2004 - 2005	0.05	0.0365	0.02	0.04	0.031	0.083	33.3
Salinity (mg/l@ 25°C)	6	0	2000 - 2000	0.45	0.45	0.29	0.36	0.1	0.8	
	7	0	2004 - 2005	0.91	0.92	0.12	0.90	0.76	1.12	
Specific Conductivity (umhos/cm@25°C)	11	0	1999 - 2000	1,218	1225	703	996	236	2677	
	7	0	2004 - 2005	1,707	1723	219	1,695	1433	2088	
Temperature (°C)	11	0	1999 - 2000	12.3	12.7	5.1	11.2	4.7	21.5	0
	7	0	2004 - 2005	11.8	9.07	8.0	9.4	3.97	22.24	0
TDS (mg/L)	11	0	1999 - 2000	720	714	406	593	154	1558	9.1
	6	0	2004 - 2005	1,039	983	206	1,022	794	1330	33.3
TSS (mg/L)	11	0	1999 - 2000	52.4	51.6	38.5	40.3	10.4	121	54.5
	6	0	2004 - 2005	19.9	19	10.5	17.1	5.2	36.8	16.7

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.



**Table B-46. SUMMARY STATISTIC FOR STATION 4994090 - JORDAN RIVER ABOVE 5400 SOUTH AT PEDESTRIAN BRIDGE.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	13	0	1990 - 1992	2.3	2	0.9	2.2	2	5	0
	42	27	1996 - 2005	2.5	2.34	1.0	2.3	<BDL>	5	0
E Coli (#/100mL)	9	3	2004 - 2004	371	200	556	19-78	<BDL>	1,800	
Fecal Coliform (#/100mL)	4	0	1991 - 1992	813	825	614	INS <sub>3</sub>	100	1,500	
	9	0	2004 - 2004	379	380	236	291-382	20	840	57.1-66.7
Fecal Strep (#/100mL)	4	0	1991 - 1992	350	350	238	278	100	600	
Flow (cfs)	11	0	1994 - 1994	255.5	250	126.7	195.2	11	425	
	24	0	1995 - 2005	286.8	109	436.1	150.8	45	1,836	
Ammonia (mgN/L)	25	11	1990 - 1994	0.292	0.07	0.638	0.064	<BDL>	3	0 (n=25)
	49	34	1995 - 2004	0.049	0.03859	0.036	0.039	<BDL>	0.165	0 (n=48)
DO (mg/L)	23	0	1990 - 1994	8.37	8.5	1.2	8.29	6.2	10.3	0b(n=23), 14.3f, 57.1g
	71	0	1995 - 2005	8.72	8.69	1.96	8.52	4.86	15.33	0b(n=71), 7.0f, 40.8g
pH	21	0	1990 - 1994	7.9	7.9	0.1	7.9	7.7	8.3	0
	55	0	1995 - 2005	8	8	0.3	8	7.28	8.57	0
DP (mg/L)	19	0	1991 - 1994	0.89	0.884	0.31	0.83	0.429	1.44	100
	27	0	1995 - 2005	0.67	0.679	0.38	0.54	0.087	1.46	100
TP (mg/L)	21	0	1990 - 1994	1.04	0.984	0.38	0.99	0.506	1.592	100
	37	0	1995 - 2005	0.72	0.72	0.40	0.62	0.112	2.35	100
Salinity (mg/l@ 25°C)	25	0	2000 - 2005	0.97	1	0.17	0.96	0.7	1.55	
Specific Conductivity (umhos/cm@25°C)	22	0	1990 - 1994	1,945	2,004	182	1,935	1,380	2,158	
	27	0	1995 - 2005	1,843	1,860	437	1,803	1,360	3,602	
Temperature (°C)	26	0	1990 - 1994	14.6	15.55	4.9	13.6	5.1	21.4	7.7
	71	0	1995 - 2005	15.4	16.44	4.7	14.6	5.61	23.78	14.1
Total Coliform (#/100mL)	12	2	1990 - 1992	1,158	600	1,511	438	<BDL>	5,200	8.3
	9	0	2004 - 2004	2,411	2,200	884	2,278	1,400	4,200	0
TDS (mg/L)	22	0	1990 - 1994	1,275	1,318	123	1,269	918	1,440	77.3
	36	0	1995 - 2005	1,189	1,235	248	1,166	818	2,192	57.7
TSS (mg/L)	26	1	1990 - 1994	49.5	30.5	68	30.1	<BDL>	350	42.3
	55	3	1995 - 2005	34.8	22	40.8	21.4	<BDL>	257	30.9

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-47. SUMMARY STATISTIC FOR STATION 4994090 - JORDAN RIVER ABOVE 5400 SOUTH AT PEDESTRIAN BRIDGE - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	6	3	1999 - 2000	3.0	2.784	1.3	2.8	<BDL>	5	0
	14	13	2004 - 2005	1.6	1.6	-	-	1.6	1.6	0
Fecal Coliform (#/100 mL)	9	0	2004 - 2004	379	380	236	291-382	20	840	57.1-66.7
Flow (cfs)	7	0	1999 - 2000	606.5	300	684.7	321.8	50	1836	
	8	0	2004 - 2005	85.7	83.6	24.1	82.7	52	124.86	
Ammonia (mgN/L)	14	12	1999 - 2000	0.022	0.005168	0.044	0.005	<BDL>	0.165	0
	2		2004-2005	0.030						0
DO (mg/L)	15	0	1999 - 2000	9.23	9.02	1.45	9.12	6.3	11.6	0b, 0c, 0e
	24	0	2004 - 2005	8.15	7.275	2.27	7.87	4.86	12.67	0b, 0c, 8.3e
pH	15	0	1999 - 2000	8.0	8	0.2	8.0	7.7	8.5	0
	9	0	2004 - 2005	8.0	7.95	0.3	8.0	7.53	8.42	0
DP (mg/L)	11	0	1999 - 2000	0.52	0.381	0.41	0.38	0.087	1.46	100
	6	0	2004 - 2005	1.08	1.07	0.21	1.06	0.791	1.42	100
TP (mg/L)	11	0	1999 - 2000	0.63	0.469	0.63	0.45	0.112	2.35	100
	15	0	2004 - 2005	0.86	0.78	0.22	0.83	0.58	1.44	100
Salinity (mg/l@ 25°C)	8	0	2000 - 2000	0.83	0.8	0.12	0.82	0.7	1	
	8	0	2004 - 2005	1.12	1.08	0.18	1.11	0.96	1.55	
Specific Conductivity (umhos/cm@25°C)	15	0	1999 - 2000	1,568	1558	194	1,557	1296	1827	
	9	0	2004 - 2005	2,082	1983	314	2,064	1799	2875	
Temperature (°C)	15	0	1999 - 2000	14.5	15	5.0	13.6	6.6	22.5	0
	24	0	2004 - 2005	16.9	18.05	3.7	16.4	8.83	22.1	0
Total Coliform (#/100mL)	9	0	2004 - 2004	2,411	2200	884	2,278	1400	4200	0
TDS (mg/L)	11	0	1999 - 2000	986	924	153	975	818	1244	9.1
	15	0	2004 - 2005	1290	1280	61	1288	1170	1408	93.3
TSS (mg/L)	14	0	1999 - 2000	48.3	37.2	33.7	36.8	6	120	57.1
	17	0	2004 - 2005	24.6	24	13.3	20.7	4.8	54	23.5

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-48. Measurements of *escherichia coli* (E. Coli) taken at station 4994090 Jordan River above 5400 South at Pedestrian Bridge. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2006 303(d) list (DWQ 2006). Geometric means and Percent Exceedance values are calculated from at least 5 samples.**

Station	Agency	Date	Parameter	Measured Value	Values > 940	Geometric Mean	% Exceedance	Units	Comment
4994090	UTAHDWQ	6/2/2004	E. Coli	200				#/100ml	
4994090	UTAHDWQ	6/9/2004	E. Coli	0				#/100ml	BDL
4994090	UTAHDWQ	6/16/2004	E. Coli	400				#/100ml	
4994090	UTAHDWQ	6/22/2004	E. Coli	300				#/100ml	
4994090	UTAHDWQ	6/24/2004	E. Coli	100		29.9	0.0	#/100ml	
4994090	UTAHDWQ	6/29/2004	E. Coli	400		46.1	0.0	#/100ml	
4994090	UTAHDWQ	7/1/2004	E. Coli	1800	1800	77.8	14.3	#/100ml	
4994090	UTAHDWQ	7/7/2004	E. Coli	0		18.9	14.3	#/100ml	BDL
4994090	UTAHDWQ	7/14/2004	E. Coli	0		18.9	14.3	#/100ml	BDL

**Table B-49. Measurements of Fecal Coliform taken at station 4994090 Jordan River above 5400 South at Pedestrian Bridge. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2004 303(d) list (DWQ 2004). Geometric means and Percent Exceedance values are calculated from at least 5 samples. Bold text shown in the Percent Exceedance column indicate sample dates where Criterion 2 is violated.**

Station	Agency	Date	Parameter	Measured Value	Values > 400	Geometric Mean	% Exceedance	Units	Comment
4994090	UTAHDWQ	6/2/2004	Fecal Coliform	120				#/100ml	
4994090	UTAHDWQ	6/9/2004	Fecal Coliform	310				#/100ml	
4994090	UTAHDWQ	6/16/2004	Fecal Coliform	420	420			#/100ml	
4994090	UTAHDWQ	6/22/2004	Fecal Coliform	540	540			#/100ml	
4994090	UTAHDWQ	6/24/2004	Fecal Coliform	840	840	371.6	<b>60.0</b>	#/100ml	
4994090	UTAHDWQ	6/29/2004	Fecal Coliform	440	440	382.2	<b>66.7</b>	#/100ml	
4994090	UTAHDWQ	7/1/2004	Fecal Coliform	340		375.9	<b>57.1</b>	#/100ml	
4994090	UTAHDWQ	7/7/2004	Fecal Coliform	20		291.0	<b>57.1</b>	#/100ml	
4994090	UTAHDWQ	7/14/2004	Fecal Coliform	380		299.6	<b>57.1</b>	#/100ml	

**Table B-50. SUMMARY STATISTIC FOR STATION 4994100 - JORDAN RIVER BELOW MIDVALE LAGOONS AT 6400 SOUTH CROSSING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	81	0	1977 - 1992	5.5	4	3.8	4.6	2	25	35.8
Fecal Coliform (#/100mL)	70	4	1978 - 1992	1,799	375	3,668	INS <sub>3</sub>	<BDL>	24,000	
Fecal Strep (#/100mL)	65	7	1981 - 1992	407	300	375	212	<BDL>	1,500	
Ammonia (mgN/L)	48	13	1978 - 1992	0.765	0.3	1.852	0.28	<BDL>	12.6	2 (n=47)
DO (mg/L)	73	0	1977 - 1992	9.67	9.3	2.49	9.37	5.1	17.7	0b(n=73), 5.5f, 26.0e
pH	54	0	1980 - 1992	7.9	8	0.3	7.9	7.2	8.5	0
DP (mg/L)	6	0	1991 - 1992	1.28	1.423	0.42	1.19	0.5	1.613	100
TP (mg/L)	13	0	1978 - 1991	1.27	1.38	0.33	1.21	0.461	1.709	100
Specific Conductivity (umhos/cm@25°C)	12	0	1989 - 1991	1,944	1,979	189	1,934	1,380	2,121	
Temperature (°C)	76	1	1977 - 1992	11.5	11.25	5.7	9.6	<BDL>	22	5.3
Total Coliform (#/100mL)	78	2	1977 - 1992	5,366	1,700	12,200	1,512	<BDL>	85,000	16.7
TDS (mg/L)	14	0	1978 - 1991	1,311	1,329	128	1,304	910	1,458	92.9
TSS (mg/L)	81	2	1977 - 1992	74.1	60	65.4	49.2	<BDL>	330	64.2

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-51. SUMMARY STATISTIC FOR STATION 4994160 - SO VALLEY WWTP.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	94	1	1985 - 1992	8.5	6	7.5	6.0	<BDL>	33	
	53	25	1996 - 2005	2.8	3	1.4	2.6	<BDL>	9	
Fecal Coliform (#/100mL)	93	16	1985 - 1994	401	9	2,516	INS <sub>3</sub>	<BDL>	20,000	
	63	4	1995 - 2005	19	10	28	INS <sub>3</sub>	<BDL>	170	
Fecal Strep (#/100mL)	20	6	1987 - 1991	18	8	24	9	<BDL>	92	
Ammonia (mgN/L)	90	38	1985 - 1994	0.559	0.095	1.631	0.103	<BDL>	12	
	60	18	1995 - 2004	0.103	0.06245	0.179	0.062	<BDL>	1.04	
DO (mg/L)	84	0	1985 - 1994	7.94	7.9	1.61	7.78	4.4	15	
	69	0	1995 - 2005	8.57	7.57	8.73	7.72	5.05	79.6	
pH	91	0	1985 - 1994	7.6	7.6	0.4	7.6	6.6	9	
	69	0	1995 - 2005	7.5	7.49	0.3	7.5	6.97	8.16	
DP (mg/L)	6	0	1991 - 1992	5.43	6	4.43	2.61	0.1	12	
	8	0	1999 - 2000	2.87	3.175	0.96	2.71	1.3	4.19	
TP (mg/L)	6	0	1987 - 1988	6.16	5.48	1.30	6.05	5.04	8.22	
	13	0	1999 - 2005	3.29	3.457	0.79	3.17	1.21	4.36	
Salinity (mg/l@ 25°C)	32	0	2000 - 2005	0.77	0.8	0.19	0.73	0.2	1.14	
Temperature (°C)	91	0	1985 - 1994	15.6	15	4.1	14.8	1.2	22.6	
	69	0	1995 - 2005	17.5	17.1	3.1	17.2	12.7	23.13	
Total Coliform (#/100mL)	93	1	1985 - 1994	1,633	120	10,600	147	<BDL>	100,000	
	62	1	1995 - 2005	350	170	416	190	<BDL>	2,150	
TSS (mg/L)	95	29	1985 - 1994	15.4	5	29.8	5.3	<BDL>	210	
	72	36	1995 - 2005	4.8	3.5	5.6	3.1	<BDL>	33	

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-52. SUMMARY STATISTIC FOR STATION 4994160 - SOUTH VALLEY WWTP - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	11	3	1999 - 2000	3.3	3	1.5	3.1	<BDL>	7	
	9	7	2004 - 2005	1.8	1.294	1.5	1.3	<BDL>	5	
Fecal Coliform (#/100 mL)	10	0	1999 - 2000	15	11	17	9	2	56	
	9	1	2004 - 2005	26	6	55	7	<BDL>	170	
Ammonia (mgN/L)	15	5	1999 - 2000	0.059	0.0585	0.019	0.057	<BDL>	0.11	
	3	0	2004 - 2004	0.106	0.107	0.011	0.106	0.095	0.117	
DO (mg/L)	17	0	1999 - 2000	7.52	7.5	0.78	7.48	5.51	8.88	
	9	0	2004 - 2005	8.58	8.6	0.88	8.54	7.44	10.14	
pH	17	0	1999 - 2000	7.4	7.4	0.2	7.4	7.13	7.7	
	9	0	2004 - 2005	7.6	7.48	0.2	7.6	7.35	7.94	
DP (mg/L)	8	0	1999 - 2000	2.87	3.175	0.96	2.71	1.3	4.19	
TP (mg/L)	8	0	1999 - 2000	3.27	3.524	0.90	3.10	1.21	4.15	
	5	0	2004 - 2005	3.33	3.11	0.66	3.28	2.58	4.36	
Salinity (mg/l@ 25°C)	9	0	2000 - 2000	0.66	0.8	0.21	0.62	0.3	0.9	
	9	0	2004 - 2005	0.89	0.87	0.10	0.89	0.76	1.14	
Specific Conductivity (umhos/cm@25°C)	17	0	1999 - 2000	1,287	1504	392	1,210	475	1618	
	9	0	2004 - 2005	1,655	1596	192	1,646	1435	2124	
Temperature (°C)	17	0	1999 - 2000	17.7	17.03	2.8	17.5	14.27	21.87	
	9	0	2004 - 2005	17.5	16.14	3.5	17.2	13.62	22.26	
Total Coliform (#/100mL)	9	0	1999 - 2000	477	210	453	298	60	1200	
	9	0	2004 - 2005	294	140	453	174	80	1490	
TSS (mg/L)	15	8	1999 - 2000	5.9	3.29	6.8	3.3	<BDL>	20.4	
	9	3	2004 - 2005	6.5	4.4	6.1	4.6	<BDL>	20	

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-53. SUMMARY STATISTIC FOR STATION 4994170 - JORDAN RIVER AT 7800 SOUTH CROSSING ABOVE SOUTH VALLEY WWTP.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	91	0	1976 - 1992	4	4	2.3	3.5	1	18	19.8
	30	21	1996 - 2005	2.4	2.242	0.9	2.2	<BDL>	5	0
Fecal Coliform (#/100mL)	76	11	1976 - 1992	937	195	2,055	INS <sub>3</sub>	<BDL>	11,000	
Fecal Strep (#/100mL)	68	10	1981 - 1992	505	110	1,401	122	<BDL>	9,300	
Flow (cfs)	14	0	1986 - 1994	333.9	262.5	200.9	299	190	959.8	
	40	0	1995 - 2005	329.4	136	459.3	151.4	10.8	2,340	
Ammonia (mgN/L)	81	23	1975 - 1994	0.350	0.161	0.535	0.157	<BDL>	3.6	0 (n=80)
	48	37	1995 - 2004	0.039	0.01346	0.084	0.013	<BDL>	0.55	0 (n=46)
DO (mg/L)	104	0	1976 - 1994	9.90	9.35	2.45	9.62	6.3	17	0b(n=104), 1.9f, 22.1g
	55	0	1995 - 2005	10.06	10.16	2.19	9.82	5.1	15.01	0b(n=55), 3.6f, 18.2g
pH	81	0	1980 - 1994	8	8	0.3	8	7.2	8.6	0
	54	0	1995 - 2005	8.0	8	0.2	8.0	7.49	8.7	0
DP (mg/L)	19	0	1991 - 1994	0.07	0.053	0.06	0.06	0.017	0.221	52.6
	27	3	1995 - 2005	0.05	0.036	0.05	0.04	<BDL>	0.302	25.9
TP (mg/L)	34	1	1978 - 1994	0.13	0.109	0.11	0.10	<BDL>	0.5	85.3
	27	2	1995 - 2005	0.09	0.06	0.13	0.06	<BDL>	0.733	66.7
Salinity (mg/l@ 25°C)	26	0	2000 - 2005	1	1.025	0.2	0.92	0.6	1.37	
Specific Conductivity (umhos/cm@25°C)	37	0	1975 - 1994	1,853	2,022	340	1,819	1,248	2,212	
	27	0	1995 - 2005	1,818	1,870	359	1,782	1,090	2,320	
Temperature (°C)	107	1	1976 - 1994	11.5	11.9	5.8	9.5	<BDL>	22	5.6
	55	0	1995 - 2005	13.6	13.6	5.3	12.3	1.9	24.2	10.9
Total Coliform (#/100mL)	87	4	1976 - 1992	3,759	700	8,817	681	<BDL>	51,000	12.6
TDS (mg/L)	40	0	1975 - 1994	1,242	1,366	251	1,214	674	1,492	65
	27	0	1995 - 2005	1,167	1,154	283	1,133	722	1,592	48.1
TSS (mg/L)	105	2	1976 - 1994	76.7	55	74.8	47.9	<BDL>	420	61.9
	46	2	1995 - 2005	39.1	22.8	47.2	21.6	<BDL>	249	32.6

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-54. SUMMARY STATISTIC FOR STATION 4994170 - JORDAN RIVER AT 7800 SOUTH CROSSING ABOVE SOUTH VALLEY WWTP - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	6	3	1999 - 2000	2.8	2.781	0.7	2.7	<BDL>	4	0
	3	2	2004 - 2005	2.0	2.0	-	-	2.0	2.0	0
Flow (cfs)	10	0	1999 - 2000	490.5	210	736.5	205.6	40	2340	
	8	0	2004 - 2005	44.8	50.5	20.2	38.7	10.8	64	
Ammonia (mgN/L)	14	14	1999 - 2000	-	-	-	-	-	-	0
	2	2	2004 - 2004	-	-	-	-	-	-	0
DO (mg/L)	15	0	1999 - 2000	10.02	10.16	1.64	9.89	7.74	13.4	0e
	9	0	2004 - 2005	10.83	10.93	2.54	10.54	6.67	14.38	0e
pH	15	0	1999 - 2000	8.0	8.03	0.2	8.0	7.62	8.56	0
	9	0	2004 - 2005	7.9	7.81	0.3	7.9	7.55	8.26	0
DP (mg/L)	11	0	1999 - 2000	0.07	0.053	0.08	0.05	0.024	0.302	54.5
	6	3	2004 - 2005	0.02	0.01923	0.01	0.02	<BDL>	0.045	0
TP (mg/L)	11	0	1999 - 2000	0.13	0.069	0.20	0.08	0.035	0.733	72.7
	6	2	2004 - 2005	0.04	0.0325	0.02	0.03	<BDL>	0.073	16.7
Salinity (mg/l@ 25°C)	8	0	2000 - 2000	0.79	0.75	0.15	0.78	0.6	1	
	9	0	2004 - 2005	1.19	1.18	0.09	1.19	1.07	1.37	
Specific Conductivity (umhos/cm@25°C)	15	0	1999 - 2000	1,497	1438	355	1,454	747	2132	
	9	0	2004 - 2005	2,213	2207	153	2,208	2001	2543	
Temperature (°C)	15	0	1999 - 2000	13.8	15	5.0	12.9	5.73	23	0
	9	0	2004 - 2005	12.6	11.25	5.4	11.6	6.23	21.64	0
TDS (mg/L)	11	0	1999 - 2000	939	886	192	923	722	1352	9.1
	6	0	2004 - 2005	1,473	1522	127	1,468	1270	1592	100
TSS (mg/L)	14	0	1999 - 2000	48.0	39.2	38.8	32.7	5.2	124	57.1
	8	0	2004 - 2005	33.1	15.4	46.9	19.0	4.8	146.8	12.5

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.



**Table B-55. SUMMARY STATISTIC FOR STATION 4994600 - JORDAN RIVER AT BLUFFDALE ROAD CROSSING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	114	1	1976 - 1992	2.9	3	1.8	2.4	<BDL>	10	8.8
	9	9	2004 - 2004	-	-	-	-	-	-	0
E Coli (#/100mL)	9	3	2004 - 2004	255	200	239	4-67	<BDL>	800	
Fecal Coliform (#/100mL)	94	23	1976 - 1993	400	40	1,352	INS <sub>3</sub>	<BDL>	9,300	
	9	0	2004 - 2004	257	100	314	122-202	30	900	28.6
Fecal Strep (#/100mL)	66	21	1981 - 1992	142	40	341	35	<BDL>	2,600	
Flow (cfs)	54	0	1982 - 1994	813.2	934.5	734.7	249.7	5.2	2,740	
	45	0	1995 - 2005	76.4	30	100.6	41.2	9.4	450	
Ammonia (mgN/L)	176	70	1975 - 1994	0.173	0.1	0.334	0.077	<BDL>	3	1 (n=166)
	73	47	1995 - 2004	0.055	0.03462	0.074	0.035	<BDL>	0.576	0 (n=73)
DO (mg/L)	191	0	1976 - 1994	9.79	9.5	2.52	9.45	2	18.5	0.5b(n=191), 6.8f, 23.6g
	97	0	1995 - 2005	9.05	8.9	2.29	8.74	3.04	14.47	1.0b(n=97), 13.4f, 36.1g
pH	176	0	1976 - 1994	8.1	8.1	0.4	8.1	6.9	9.4	1.7
	82	0	1995 - 2005	8.2	8.2	0.3	8.2	7.4	9.01	1.2
DP (mg/L)	31	3	1990 - 1994	0.05	0.037	0.07	0.03	<BDL>	0.3	32.3
	34	9	1995 - 2005	0.03	0.022	0.03	0.02	<BDL>	0.165	8.8
TP (mg/L)	133	11	1976 - 1994	0.10	0.09	0.09	0.08	<BDL>	0.77	74.4
	82	3	1995 - 2005	0.08	0.07	0.04	0.07	<BDL>	0.209	68.3
Salinity (mg/l@ 25°C)	36	0	2000 - 2005	0.96	0.935	0.23	0.94	0.59	1.56	
Specific Conductivity (umhos/cm@25°C)	139	0	1975 - 1994	1,414	1,440	308	1,380	940	2,110	
	77	0	1995 - 2005	1,513	1,500	299	1,485	1,011	2,400	
Temperature (°C)	203	2	1976 - 1994	11.6	11.5	7	8.6	<BDL>	24.7	14.8
	97	0	1995 - 2005	13.7	16	6.2	11.8	2.32	23.6	16.5
Total Coliform (#/100mL)	103	11	1976 - 1993	629	200	1,520	139	<BDL>	9,300	1.9
	9	0	2004 - 2004	811	600	633	600	200	1,700	0
TDS (mg/L)	145	0	1975 - 1994	932	946	218	906	566	1,380	11
	87	0	1995 - 2005	979	950	240	941	118	1,528	21.8
TSS (mg/L)	210	8	1976 - 1994	66.9	40	75.2	34.5	<BDL>	400	53.3
	88	1	1995 - 2005	55.4	47.6	44.4	40.5	<BDL>	227.5	61.4

<sub>1</sub> Number of samples below detection limit (BDL). <sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams: **Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L. <sub>3</sub> INS=Insufficient data.

**Table B-56. SUMMARY STATISTIC FOR STATION 4994600 - JORDAN RIVER AT BLUFFDALE ROAD CROSSING - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	9	9	2004 - 2004	-	-	-	-	-	-	0
Fecal Coliform (#/100 mL)	9	0	2004 - 2004	257	100	314	122-202	30	900	28.6
Flow (cfs)	8	0	1999 - 2000	178.3	117.5	155.6	122.9	41.5	450	
	10	0	2004 - 2005	30.2	20.04	22.0	23.8	9.9	67.9	
Ammonia (mgN/L)	15	12	1999 - 2000	0.029	0.01219	0.045	0.012	<BDL>	0.178	0
	3	3	2004 - 2005	-	-	-	-	-	-	0
DO (mg/L)	17	0	1999 - 2000	9.67	9.9	1.65	9.53	7.3	12.2	0e
	27	0	2004 - 2005	8.27	7.46	2.84	7.81	3.04	14.47	29.6e
pH	17	0	1999 - 2000	8.2	8.18	0.2	8.2	7.8	8.6	0
	12	0	2004 - 2005	8.1	8.1	0.3	8.1	7.65	8.67	0
DP (mg/L)	13	3	1999 - 2000	0.03	0.026	0.02	0.03	<BDL>	0.082	15.4
	6	4	2004 - 2005	0.02	0.02036	0.00	0.02	<BDL>	0.026	0
TP (mg/L)	15	0	1999 - 2000	0.06	0.066	0.02	0.06	0.024	0.092	73.3
	18	2	2004 - 2005	0.08	0.069	0.04	0.07	<BDL>	0.15	61.1
Salinity (mg/l@ 25°C)	8	0	2000 - 2000	0.76	0.8	0.05	0.76	0.7	0.8	
	12	0	2004 - 2005	1.11	1.085	0.29	1.08	0.59	1.56	
Specific Conductivity (umhos/cm@25°C)	17	0	1999 - 2000	1,342	1347	236	1,318	674	1624	
	12	0	2004 - 2005	2,073	2002	525	2,008	1128	2882	
Temperature (°C)	17	0	1999 - 2000	14.0	16.4	6.1	12.5	4.7	23.5	0
	26	0	2004 - 2005	15.4	18.05	5.9	13.6	2.32	21.5	0
Total Coliform (#/100mL)	9	0	2004 - 2004	811	600	633	600	200	1700	0
TDS (mg/L)	16	0	1999 - 2000	830	792	117	822	702	1044	0
	18	0	2004 - 2005	1,236	1264	171	1,223	716	1528	72.2
TSS (mg/L)	16	0	1999 - 2000	56.6	58.2	24.3	50.8	19.2	99	75
	18	0	2004 - 2005	44.4	44.6	22.5	37.6	6.4	91.6	61.1

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams: **Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-57. Measurements of *escherichia coli* (E. Coli) taken at station 4994600 Jordan River at Bluffdale Road Crossing. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2006 303(d) list (DWQ 2006). Geometric means and Percent Exceedance values are calculated from at least 5 samples.**

Station	Agency	Date	Parameter	Measured Value	Values > 940	Geometric Mean	% Exceedance	Units	Comment
4994600	UTAHDWQ	6/2/2004	E. Coli	0				#/100ml	BDL
4994600	UTAHDWQ	6/9/2004	E. Coli	0				#/100ml	BDL
4994600	UTAHDWQ	6/16/2004	E. Coli	300				#/100ml	
4994600	UTAHDWQ	6/22/2004	E. Coli	100				#/100ml	
4994600	UTAHDWQ	6/24/2004	E. Coli	300		3.9	0.0	#/100ml	
4994600	UTAHDWQ	6/29/2004	E. Coli	400		8.4	0.0	#/100ml	
4994600	UTAHDWQ	7/1/2004	E. Coli	800		16.2	0.0	#/100ml	
4994600	UTAHDWQ	7/7/2004	E. Coli	0		16.2	0.0	#/100ml	BDL
4994600	UTAHDWQ	7/14/2004	E. Coli	200		66.5	0.0	#/100ml	

**Table B-58. Measurements of Fecal Coliform taken at station 4994600 Jordan River at Bluffdale Road Crossing. Data shown meet the minimum sample requirements for assessing impairment to Secondary Contact Beneficial Use (Class 2B) with respect to Criterion 1 and 2 as stated in the Utah 2004 303(d) list (DWQ 2004). Geometric means and Percent Exceedance values are calculated from at least 5 samples. Bold text shown in the Percent Exceedance column indicate sample dates where Criterion 2 is violated.**

Station	Agency	Date	Parameter	Measured Value	Values > 400	Geometric Mean	% Exceedance	Units	Comment
4994600	UTAHDWQ	6/2/2004	Fecal Coliform	40				#/100ml	
4994600	UTAHDWQ	6/9/2004	Fecal Coliform	30				#/100ml	
4994600	UTAHDWQ	6/16/2004	Fecal Coliform	100				#/100ml	
4994600	UTAHDWQ	6/22/2004	Fecal Coliform	250				#/100ml	
4994600	UTAHDWQ	6/24/2004	Fecal Coliform	900	900	122.0	<b>20.0</b>	#/100ml	
4994600	UTAHDWQ	6/29/2004	Fecal Coliform	150		126.3	<b>16.7</b>	#/100ml	
4994600	UTAHDWQ	7/1/2004	Fecal Coliform	100		122.1	<b>14.3</b>	#/100ml	
4994600	UTAHDWQ	7/7/2004	Fecal Coliform	680	680	183.0	<b>28.6</b>	#/100ml	
4994600	UTAHDWQ	7/14/2004	Fecal Coliform	60		202.1	<b>28.6</b>	#/100ml	

Table B-59. SUMMARY STATISTIC FOR STATION 4994720 - JORDAN RIVER AT NARROWS - PUMP STATION.										
Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Fecal Coliform (#/100mL)	50	11	1989 - 1994	50	16	81	INS <sub>3</sub>	<BDL>	400	
Fecal Strep (#/100mL)	22	0	1989 - 1991	150	100	152	100	20	680	
Flow (cfs)	42	0	1989 - 1994	186.1	45	222.6	66.1	5	830	
	6	0	2000 - 2005	222.5	138	277.1	65.9	7	710	
Ammonia (mgN/L)	72	31	1985 - 1994	0.117	0.07	0.116	0.075	<BDL>	0.551	0 (n=72)
	20	12	1995 - 2000	0.083	0.02457	0.147	0.024	<BDL>	0.548	0 (n=20)
DO (mg/L)	71	0	1985 - 1994	9.01	8.8	2.78	8.61	4.6	16.5	0b(n=71), 4.2e, 46.5g
	27	0	1995 - 2005	8.78	8.75	2.19	8.5	4.6	12.8	0b(n=27), 7.4e, 37.0g
pH	71	0	1985 - 1994	7.9	7.9	0.4	7.9	7	8.8	0
	26	0	1995 - 2005	8.2	8.28	0.3	8.2	7.25	8.73	0
DP (mg/L)	35	1	1992 - 1994	0.03	0.023	0.03	0.03	<BDL>	0.146	11.4
	26	11	1995 - 2005	0.02	0.011	0.03	0.01	<BDL>	0.122	11.5
TP (mg/L)	63	0	1989 - 1994	0.11	0.094	0.07	0.09	0.025	0.413	84.1
	26	0	1995 - 2005	0.08	0.08	0.04	0.08	0.031	0.199	76.9
Salinity (mg/l@ 25°C)	12	0	2000 - 2005	0.99	0.825	0.34	0.94	0.7	1.63	
Specific Conductivity (umhos/cm@25°C)	65	0	1989 - 1994	1,857	1,905	346	1,792	149	2,440	
	26	0	1995 - 2005	1,564	1,459	440	1,509	1,000	2,690	
Temperature (°C)	71	0	1985 - 1994	12.1	11.7	8.5	8.5	0.7	45	15.5
	27	0	1995 - 2005	12.6	12.1	7.2	10.0	1.98	23.7	18.5
Total Coliform (#/100mL)	55	10	1989 - 1994	269	100	432	82	<BDL>	1,500	0
TDS (mg/L)	65	0	1989 - 1994	1,217	1,290	246	1,169	86	1,562	56.9
	26	0	1995 - 2005	976	938	297	935	530	1,730	19.2
TSS (mg/L)	64	0	1989 - 1994	80.4	62.5	60.6	57.7	3	286	71.9
	26	0	1995 - 2005	79.1	63.9	67	61.6	21	345	69.2

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:  
**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

<sub>3</sub> INS=Insufficient data.

**Table B-60. SUMMARY STATISTIC FOR STATION 4994720 - JORDAN RIVER AT NARROWS - PUMP STATION - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Flow (cfs)	1	1	2000 - 2000	-	-	-	-	-	-	
	5	0	2004 - 2005	125.0	16	157.2	41.0	7	330	
Ammonia (mgN/L)	10	6	1999 - 2000	0.065	0.01943	0.128	0.019	<BDL>	0.422	0
DO (mg/L)	10	0	1999 - 2000	8.32	8.335	2.65	7.93	4.6	12.8	20e
	7	0	2004 - 2005	9.38	10.66	2.56	9.04	5.68	11.74	0e
pH	10	0	1999 - 2000	8.2	8.25	0.2	8.2	7.77	8.43	0
	7	0	2004 - 2005	8.1	8.26	0.5	8.1	7.25	8.73	0
DP (mg/L)	10	4	1999 - 2000	0.03	0.024	0.02	0.02	<BDL>	0.08	20
	6	5	2004 - 2005	0.01						0
TP (mg/L)	10	0	1999 - 2000	0.07	0.08	0.02	0.07	0.039	0.101	70
	6	0	2004 - 2005	0.06	0.0615	0.03	0.06	0.031	0.115	66.7
Salinity (mg/l@ 25°C)	5	0	2000 - 2000	0.70	0.7	0.00	0.70	0.7	0.7	
	7	0	2004 - 2005	1.19	1.13	0.31	1.16	0.81	1.63	
Specific Conductivity (umhos/cm@25°C)	10	0	1999 - 2000	1,370	1,306	195	1,358	1,124	1,728	
	7	0	2004 - 2005	2,222	2112	558	2,161	1,535	3,013	
Temperature (°C)	10	0	1999 - 2000	14.4	16.07	8.1	11.6	2.7	23.7	0
	7	0	2004 - 2005	11.4	9.19	9.0	7.8	1.98	23.37	0
TDS (mg/L)	10	0	1999 - 2000	822	768	171	808	650	1,134	0
	6	0	2004 - 2005	1,334	1,292	234	1,318	1,070	1,730	66.7
TSS (mg/L)	10	0	1999 - 2000	78.0	83	25.1	73.5	30.4	116	90
	6	0	2004 - 2005	58.2	35.2	44.6	47.4	28	138	50

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-61. SUMMARY STATISTIC FOR STATION 4994790 - JORDAN RIVER AT UTAH LAKE OUTLET U121 CROSSING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
BOD (mg/L)	29	0	1976 - 1989	6.138	5	4.206	4.769	1	16	50
	3	0	2006 - 2006	7.54	6.21	3.585	7.024	4.81	11.6	66.6
Fecal Coliform (#/100ml)	68	14	1976 - 1994	207.7	29	491.7	29.31	<BDL>	2,400	17.9
	3	0	2006 - 2006	2,419	2,419	0	2419	2,419.2	2,419.2	100
Flow (cfs)	114	14	1975 - 1995	514.8	427.5	583.2	129.1	<BDL>	2,980	
	22	13	1999 - 2006	38.26	0.1416	85.97	0.1362	<BDL>	300	
Ammonia (mgN/l)	165	68	1975 - 1995	0.1367	0.09	0.167	0.07738	<BDL>	0.98	0
	42	28	1999 - 2006	0.1615	0.01729	0.6113	0.01726	<BDL>	3.92	0
DO (mg/l)	160	0	1976 - 1995	9.27	8.5	3.093	8.867	5.4	21.5	0a, 0d, 1.3e
	41	0	1999 - 2005	7.767	7.02	2.849	7.257	2.1	15.1	2.4a, 17.1d, 17.1e
pH	161	0	1976 - 1995	8.106	8.2	0.6122	8.076	3.2	9.2	1.2
	41	0	1999 - 2005	8.132	8.22	0.4022	8.122	6.86	8.88	0
DP (mg/l)	42	5	1992 - 1995	0.03472	0.017	0.06576	0.01848	<BDL>	0.391	9.8
	17	7	1999 - 2005	0.02353	0.021	0.01932	0.01849	<BDL>	0.082	11.8
TP (mg/l)	156	3	1976 - 1995	0.1598	0.1	0.3446	0.1023	<BDL>	4.19	80.8
	43	4	1999 - 2006	0.09639	0.061	0.1295	0.06323	<BDL>	0.803	62.8
Salinity (mg/L @ 25°C)	36	0	2000 - 2005	0.9339	0.965	0.2546	0.895	0.3	1.43	
Specific Conductivity (umhos/cm @ 25°C)	169	0	1974 - 1995	1,557	1,500	515.5	1,472	224	2,870	
	41	0	1999 - 2005	1,699	1,650	424.3	1,648	1,050	2,690	
Temperature	167	2	1976 - 1995	11.51	11	7.913	7.795	<BDL>	28	0
	41	0	1999 - 2005	14.19	15.64	6.939	11.99	2.13	24.2	0
Total Coliform (#/100ml)	72	11	1976 - 1994	522.2	150	1,621	108.4	<BDL>	13,100	1.4
TDS (mg/l)	165	0	1975 - 1995	1,023	928	355.1	966.9	546	1,910	26.7
	41	0	1999 - 2005	1,092	1,070	296.6	1,052	680	1,726	39
TSS (mg/l)	166	5	1976 - 1995	96.34	51	129.7	48.02	<BDL>	758	64.5
	44	3	1999 - 2006	37.1	22.4	38.36	21.72	<BDL>	179	31.8

<sup>1</sup> Number of samples below detection limit (BDL).

<sup>2</sup> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-62. SUMMARY STATISTIC FOR STATION 4994790 - JORDAN RIVER AT UTAH LAKE OUTLET U121 CROSSING - INTENSIVE MONITORING.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Flow (cfs)	1	1	1999 - 1999	-	-	-	-	-	-	
	13	9	2004 - 2005	97.5	68.06	88.0	68.1	<BDL>	300	
Ammonia (mgN/L)	12	8	1999 - 2000	0.101	0.01552	0.238	0.015	<BDL>	0.843	0
	11	3	2004 - 2005	0.474	0.16	1.148	0.111	<BDL>	3.92	0
DO (mg/L)	15	0	1999 - 2000	7.94	7.85	1.76	7.74	4.4	11.15	6.7e
	11	0	2004 - 2005	5.95	6.17	1.90	5.61	2.1	9.52	36.4e
pH	15	0	1999 - 2000	8.2	8.3	0.3	8.2	7.59	8.64	0
	11	0	2004 - 2005	7.9	8.06	0.5	7.9	6.86	8.68	0
DP (mg/L)	11	4	1999 - 2000	0.03	0.023	0.02	0.02	<BDL>	0.082	18.2
	6	3	2004 - 2005	0.02	0.02069	0.00	0.02	<BDL>	0.023	0
TP (mg/L)	13	3	1999 - 2000	0.07	0.057	0.04	0.06	<BDL>	0.155	61.5
	11	1	2004 - 2005	0.06	0.047	0.05	0.05	<BDL>	0.2	45.5
Salinity (mg/l@ 25°C)	11	0	2000 - 2000	0.73	0.7	0.23	0.69	0.3	1.2	
	11	0	2004 - 2005	1.00	0.98	0.26	0.97	0.64	1.43	
Specific Conductivity (umhos/cm@25°C)	15	0	1999 - 2000	1,374	1315	384	1,318	524	2186	
	11	0	2004 - 2005	1,863	1838	474	1,805	1223	2659	
Temperature (°C)	15	0	1999 - 2000	15.2	16.38	6.8	13.3	4.48	24.2	0
	11	0	2004 - 2005	15.7	16.46	5.6	14.5	6.13	21.76	0
TSS (mg/L)	14	0	1999 - 2000	45.1	39	36.0	28.8	4.4	109	50
	11	1	2004 - 2005	27.4	24.4	16.3	23.7	<BDL>	65.6	18.2

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Coliform:** >5,000 colonies/100 mL; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-63. SUMMARY STATISTIC FOR STATION 10171000 - JORDAN RIVER AT 1700 SOUTH.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Fecal Coliform (#/100ml)	159	6	1976 - 1994	1881	290	5376	216.8	<BDL>	38000	INS
Flow (cfs)	316	1	1974 - 1994	147.5	147	50.19	135.8	<BDL>	321	
Ammonia (mgN/L)	88	0	1977 - 1992	1.288	1.1	0.9236	0.9683	0.08	3.8	
	77	1	1998 - 2004	0.47	0.2	0.62	0.22	<BDL>	3.88	na
DO (mg/L)	269	0	1974 - 1994	7.599	7.5	1.733	7.393	3.7	12.7	1.4(n=142)7.3(n=82),14.1e
	89	0	1998 - 2004	8.44	8.6	1.53	8.29	5	11.6	0b(n=53),0c(n=26),5.6e
pH	452	0	1959 - 1994	7.675	7.7	0.6201	7.656	6.4	17	1.5
	90	0	1998 - 2004	7.90	7.9	0.21	7.90	7.1	8.3	0
DP (mg/L)	150	1	1977 - 1994	1.084	0.94	0.6765	0.8907	<BDL>	4.6	99.3
	48	1	1998 - 2001	0.63	0.47	0.38	0.51	<BDL>	1.43	97.9
TP (mg/L)	196	0	1974 - 1994	1.489	1.2	2.075	1.177	0.2	27	100
	77	0	1998 - 2004	0.95	1.04	0.45	0.80	0.03	1.88	98.7
TDS	123	0	1969 - 1985	931	994	195.3	905.5	356	1210	1.6
Specific Conductivity (umhos/cm@25°C)	539	0	1959 - 1994	1659	1700	378.5	1586	13	2380	
	90	0	1998 - 2004	1,514.00	1520	289.60	1484.00	865	2120	na
Temperature (°C)	379	0	1965 - 1994	12.54	12.5	5.232	11.29	2	25	0
	90	0	1998 - 2004	12.79	12.3	5.14	11.65	1.4	24	0
TSS (mg/L)	181	0	1974 - 1994	109.6	76	140.5	70.56	10	1040	67
	77	0	1998 - 2004	47.06	31	42.63	36.02	10	302	78.1

<sub>1</sub> Number of samples below detection limit (BDL).

<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:

**Bio-chemical Oxygen Demand (BOD):** > 5 mg/L ; **Fecal Coliform:** >200 colonies/100 mL; **Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.



<b>Table B-64. SUMMARY STATISTIC FOR STATION 1 SV WRF 7200 South - HISTORIC.</b>										
<b>Parameter</b>	<b>n</b>	<b>BDL<sub>1</sub></b>	<b>Date</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Geo. Mean</b>	<b>Min</b>	<b>Max</b>	<b>Exceedance (%)<sub>2</sub></b>
Ammonia (mgN/L)	61	0	2000 - 2005	0.06	0.05	0.04	0.06	0.02	0.26	0
DO (mg/L)	61	0	2000 - 2005	9.04	9.04	1.29	8.95	6.77	12.6	0b, 1.4e, 27.5f
pH	61	0	2000 - 2005	7.94	7.93	0.14	7.94	7.72	8.45	0
TDS	61	0	2000 - 2005	1,219	1,200	377.90	1,189	714	3,920	37.7
Temperature (°C)	61	0	2000 - 2005	15.61	15	4.05	15.07	8	23	18.8

<sub>1</sub> Number of samples below detection limit (BDL).  
<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:  
**Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Water Temperature:** < 27 °C.

<b>Table B-65. SUMMARY STATISTIC FOR STATION 2 SV WRF 7800 South - HISTORIC.</b>										
<b>Parameter</b>	<b>n</b>	<b>BDL<sub>1</sub></b>	<b>Date</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Geo. Mean</b>	<b>Min</b>	<b>Max</b>	<b>Exceedance (%)<sub>2</sub></b>
Ammonia (mgN/L)	61	0	2000 - 2005	0.06	0.05	0.05	0.05	0.02	0.32	0
DO (mg/L)	61	0	2000 - 2005	9.62	9.46	1.67	9.48	6.54	13.7	0b, 1.4e, 24.6f
pH	61	0	2000 - 2005	7.96	7.94	0.17	7.96	7.63	8.56	0
TDS	61	0	2000 - 2005	1,290	1,320	205.10	1,271	612	1,640	63.8
Temperature (°C)	61	0	2000 - 2005	14.33	13.5	4.82	13.43	3	26	17.4

<sub>1</sub> Number of samples below detection limit (BDL).  
<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:  
**Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Water Temperature:** < 27 °C.

**Table B-66. SUMMARY STATISTIC FOR STATION 1 JWCD Narrows - HISTORIC.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
pH	274	0	1995 - 2005	8.351	8.35	0.1782	8.349	7.96	8.85	0
Phosphate, Total (mg/l as PO <sub>4</sub> )	11	11	2005 - 2005							na
Specific Conductivity (umhos/cm@25°C)	274	0	1995 - 2005	1504	1433	321.1	1470	622	2470	na
Temperature (°C)	6	0	2005 - 2005	9.967	9.65	5.507	8.571	2.8	19.3	0
TDS	273	0	1995 - 2005	982.5	922	249.1	951.3	382	1716	23.1

<sub>1</sub> Number of samples below detection limit (BDL).  
<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:  
**pH:** <6.5 or >9.0; **Total Dissolved Solids (TDS):** >1,200 mg/L ; **Water Temperature:** < 27 °C.

**Table B-67. SUMMARY STATISTIC FOR STATION 10168000 – LITTLE COTTONWOOD CREEK at JORDAN RIVER NR SLC – HISTORIC.**

Parameter	n	BDL <sub>1</sub>	Date	Mean	Median	SD	Geo. Mean	Min	Max	Exceedance (%) <sub>2</sub>
Ammonia (mgN/L)	81	26	1998 - 2004	0.07	0.03	0.10	0.03	<BDL>	0.49	na
DO (mg/L)	87	0	1998 - 2004	9.97	10.2	1.58	9.85	7.3	15	0b, 0f, 27.5e
pH	95	0	1998 - 2004	8.02	8	0.26	8.02	7.5	8.6	0
DP (mg/L)	57	2	1998 - 2001	0.03	0.022	0.03	0.02	<BDL>	0.156	23.4
TP (mg/L)	81	1	1998 - 2004	0.19	0.07	0.40	0.09	<BDL>	2.39	79.2
TDS	100	0	1998 - 2004	1,235.00	1220	704.30	1,037.00	200	4470	na
Specific Conductivity (umhos/cm@25°C)	100	0	1998 - 2004	11.84	11.1	6.37	9.76	0.2	23.7	0
Temperature (°C)	79	0	1998 - 2004	109.40	35	257.00	39.69	3	1580	65
TSS (mg/L)	81	26	1998 - 2004	0.07	0.03	0.10	0.03	<BDL>	0.49	na

<sub>1</sub> Number of samples below detection limit (BDL).  
<sub>2</sub> Percent exceedance values calculated using the following numeric criteria and narrative standards associated with Class 2B and 3B streams:  
**Ammonia:** pH dependent criteria calculated for individual data points as per Utah Code R317-2; **Dissolved Oxygen (DO):** [standard used is dependent upon the respective site specific criteria] (a) <3.0 mg/L, (b) Aug-April <4 mg/l, (c) May-July <4.5 mg/L (d) <5.0 mg/L (e) <5.5 mg/L (f) <6.5 mg/L (g) <8.0 mg/L; **pH:** <6.5 or >9.0; **Dissolved Phosphorus (DP):** >0.05 mg/L; **Total Phosphorus (TP):** >0.05 mg/L; **Water Temperature:** < 27 °C; **Total Dissolved Solids (TDS):** >1,200 mg/L; **Total Suspended Solids (TSS):** >35 mg/L.

**Table B-68. Selected water quality criteria included in UPDES permits for facilities that discharge directly to the Jordan River or tributaries to the Jordan River.** Information in this table was obtained from UPDES Engineering Section – Permits, Compliance & TMDL Branch - Utah Division of Water Quality.

<b>Central Valley Water Reclamation Facility – UPDES No. UT0024392</b>												
	<b>Daily Limit</b>				<b>7 Day Maximum</b>				<b>30-day average</b>			
	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
<b>Ammonia (mg/l)</b>	24.5	15.75	15.75	17.5								
<b>pH (S.U.)</b>	6.5<>9.0	6.5<>9.0	6.5<>9.0	6.5<>9.0								
<b>DO -Min. (mg/l)</b>	4	5	5	5								
<b>Fecal Coliform (# col/100 ml)</b>					200	200	200	200	250	250	250	250
<b>Total Coliform (# col/100 ml)</b>					2000	2000	2000	2000	2500	2500	2500	2500
<b>Total Residual Chlorine (mg/l)</b>	.044	.029	.044	.044								
<b>Total Suspended Solids (mg/l)</b>					35	35	35	35	25	25	25	25
<b>Biochemical Oxygen Demand (mg/l)</b>					25	25	19	19	15	15	9	9
<b>South Davis South Wastewater Treatment Plant – UPDES No. UT0021628</b>												
	<b>Daily Limit</b>				<b>7 Day Maximum</b>				<b>30-day average</b>			
<b>Ammonia</b>					40				20			
<b>pH (S.U.)</b>	6.5<>9.0											
<b>DO -Min. (mg/l)</b>	5											
<b>Total Residual Chlorine (mg/l)</b>	0.18											
<b>Total Suspended Solids (mg/l)</b>					35				25			
<b>Biochemical Oxygen Demand (mg/l)</b>					35				25			
<b>E. coli (# col/100 ml)</b>					157				126			

**Table B-68. (cont.) Selected water quality criteria included in UPDES permits for facilities that discharge directly to the Jordan River or tributaries to the Jordan River.** Information in this table was obtained from UPDES Engineering Section – Permits, Compliance & TMDL Branch - Utah Division of Water Quality.

<b>South Valley Water Reclamation Facility – UPDES No. UT0024384</b>												
	<b>Daily Limit</b>				<b>7 Day Maximum</b>				<b>30-day average</b>			
	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
<b>Ammonia (mg/l)</b>	12.25	8.75	8.75	8.75								
<b>pH (S.U.)</b>	6.5<>9.0	6.5<>9.0	6.5<>9.0	6.5<>9.0								
<b>DO -Min. (mg/l)</b>	5	5	5	5								
<b>Fecal Coliform (# col/100 ml)</b>					126	126	126	126	157	157	157	157
<b>Total Coliform (# col/100 ml)</b>					2000	2000	2000	2000	2500	2500	2500	2500
<b>Total Residual Chlorine (mg/l)</b>	.05	.05	.05	.05								
<b>Total Suspended Solids (mg/l)</b>					35	35	35	35	25	25	25	25
<b>Biochemical Oxygen Demand (mg/l)</b>					20	20	18	18	10	10	8	8
<b>Hexcel Corporation – UPDES No. UT0025305</b>												
	<b>Daily Limit</b>				<b>7 Day Maximum</b>				<b>30-day average</b>			
<b>pH (S.U.)</b>	6.5<>9.0				NA				NA			
<b>Total Suspended Solids (mg/l)</b>	35				NA				25			
<b>Biochemical Oxygen Demand (mg/l)</b>	35				NA				25			
<b>Total Dissolved Solids (mg/l)</b>	1,200				NA				NA			
<b>Rubber Engineering (Outfall 001) – UPDES No. UT0024767</b>												
	<b>Daily Limit</b>				<b>7 Day Maximum</b>				<b>30-day average</b>			
<b>pH (S.U.)</b>	6.5<>9.0				NA				NA			
<b>Total Suspended Solids (mg/l)</b>	NA				35				25			
<b>Biochemical Oxygen Demand (mg/l)</b>	NA				35				20			

**Table B-68. (cont.) Selected water quality criteria included in UPDES permits for facilities that discharge directly to the Jordan River or tributaries to the Jordan River.** Information in this table was obtained from UPDES Engineering Section – Permits, Compliance & TMDL Branch - Utah Division of Water Quality.

<b>Rubber Engineering (Outfall 002) – UPDES No. UT0024767</b>			
	<b>Daily Limit</b>	<b>7 Day Maximum</b>	<b>30-day average</b>
<b>Total Suspended Solids (lbs/day)</b>	6.4	NA	3.25
<b>Utah State Prison – UPDES No. UT0024082</b>			
	<b>Daily Limit</b>	<b>7 Day Maximum</b>	<b>30-day average</b>
<b>pH (S.U.)</b>	6.5<=>9.0		
<b>Total Suspended Solids (mg/l)</b>		35	25
<b>Total Dissolved Solids (mg/l)</b>	2,000		

**Table B-69. Statistical assessment of effluent discharge from South Davis South Wastewater Treatment Plant UT0021628.** Information in table based on measurements included in Discharge Monitoring Reports submitted to Utah DWQ by permittee.

	n	BDL	Date	Mean	Median	STD	Geo Mean	Min	Max
BOD, 5 Day, 30-Day Average (mg/l)	62	0	2001 - 2006	17.52	17	3.73	17.16	12	30
BOD, 5 Day, 7-Day Average (mg/l)	62	0	2001 - 2006	20.61	19.5	5.29	20.04	13	43
BOD, 5 Day, Percent Removal (%)	62	0	2001 - 2006	91.05	91	2.24	91.02	84	95
Chlorine, Total Residual, Daily Maximum (mg/l)	62	0	2001 - 2006	0.04	0.03	0.04	0.04	0.01	0.22
Coliform, Total, 30-Day Average (# / 100 ml)	116	0	2001 - 2005	69.19	27.5	90.56	31.15	2	467
Coliform, Total, 7-Day Average (# / 100 ml)	58	0	2001 - 2005	275.10	192	288.90	186.70	44	1682
E. Coli, 30-Day Average (# / 100 ml)	4	0	2005 - 2006	30.83	20.55	26.74	24.21	12	70.2
E. Coli, 7-Day Average (# / 100 ml)	4	0	2005 - 2006	382.80	179.2	513.70	166.70	41	1,131.80
Fecal Coliform, 7-Day Average (# / 100 ml)	58	0	2001 - 2005	20.91	16	13.54	17.63	6	69
Flow, Thru a Treatment Plant, Daily Maximum, MGD	62	0	2001 - 2006	2.95	3	0.35	2.93	2.27	4.3
Flow, Thru a Treatment Plant, Monthly Avg. MGD	62	0	2001 - 2006	2.33	2.275	0.24	2.32	1.98	2.96
Nitrate Nitrogen, Total, 7-Day Average (mg/l as NO3)	4	0	2005 - 2006	11.75	11.5	0.96	11.72	11	13
Nitrite Nitrogen, Total, 7-Day Average (mg/l as NO2)	4	0	2005 - 2006	0.60	0.59	0.10	0.59	0.48	0.73
Nitrogen, Ammonia, Total (mg/l as N)	776	0	1998 - 2002	5.28	5	2.56	4.66	0.19	18
Nitrogen, Ammonia, Total, 30-Day Average (mg/l as N)	4	0	2005 - 2006	6.23	5.9	1.12	6.16	5.3	7.8
Nitrogen, Ammonia, Total, 7-Day Average (mg/l as N)	4	0	2005 - 2006	4.95	4.5	1.82	4.72	3.3	7.5
Nitrogen, Ammonia, Total, Daily Maximum (mg/l as N)	58	0	2001 - 2005	6.33	6	2.34	5.95	3	15
Oil/Grease, Daily Maximum (mg/l)	62	0	2001 - 2006	5.45	5.45	1.50	5.24	3	9.1
Oxygen, Dissolved, Daily Minimum (mg/l)	62	0	2001 - 2006	5.98	5.45	1.10	5.89	5	9.1
pH (Standard Units)	1826	0	1998 - 2002	7.55	7.53	0.20	7.55	6.78	8.76
pH, Daily Maximum (SU)	62	0	2001 - 2006	8.02	8	0.27	8.02	7.7	9.2
pH, Daily Minimum (SU)	62	0	2001 - 2006	7.34	7.3	0.17	7.33	6.9	7.7
Phosphorus, Total, 7-Day Average (mg/l as P)	4	0	2005 - 2006	3.90	3.15	2.41	3.40	2.1	7.2
Temperature, Water (Degrees Centigrade)	1826	0	1998 - 2002	17.25	16.69	3.98	16.76	0.22	25.67
Total Suspended Solids, 30-Day Average (mg/l)	62	0	2001 - 2006	16.55	16	3.05	16.29	12	28
Total Suspended Solids, 7-Day Average (mg/l)	62	0	2001 - 2006	19.58	20	4.49	19.09	13	34
Total Suspended Solids, Percent Removal (%)	62	0	2001 - 2006	92.60	93	1.61	92.58	88	96

**Table B-70. Statistical assessment of effluent discharge from Utah State Prison UT0024082 near Bluffdale, UT.** Information in table based on measurements included in Discharge Monitoring Reports submitted to Utah DWQ by permittee.

	n	BDL	Date	Mean	Median	STD	Geo Mean	Min	Max
Flow, Thru a Treatment Plant, Daily Maximum, MGD	26	20	1998 - 2005	0.20	0.1674	0.13	0.17	<BDL>	0.45
pH, Daily Maximum (SU)	2	0	2004 - 2005	6.85	6.85	0.07	6.85	6.8	6.9
Solids, Dissolved - Sum of Constituents - Daily Maximum (mg/l)	7	0	2002 - 2005	1,711.00	1800	273.00	1,688.00	1,114	1,940
Specific Conductance (Umhos/cm @ 25C)	2	0	2002 - 2003	2,315.00	2,315	573.50	2,279.00	1,909	2,720
Temperature, Water (Degrees Centigrade)	2	0	2002 - 2003	34.05	34.05	12.98	32.79	24.87	43.23
Total Suspended Solids, 30-Day Average (mg/l)	5	0	2004 - 2005	19.20	18	11.21	16.48	6	37
Total Suspended Solids, 7-Day Average (mg/l)	5	0	2004 - 2005	19.20	18	11.21	16.48	6	37

**Table B-71. Statistical assessment of effluent discharge from South Valley Water Reclamation Facility UT0024384.** Information in table based on measurements included in Discharge Monitoring Reports submitted to Utah DWQ by permittee.

	n	BDL	Date	Mean	Median	STD	Geo Mean	Min	Max
BOD, 5 Day, 30-Day Average (mg/l)	73	0	2000 - 2006	3.90	4	0.93	3.78	2	6
BOD, 5 Day, 7-Day Maximum (mg/l)	73	0	2000 - 2006	5.12	5	1.59	4.92	3	11
BOD, 5 Day, Percent Removal (%)	73	0	2000 - 2006	97.74	98	0.60	97.74	97	99
Chlorine, Total Residual, Daily Maximum (mg/l)	73	0	2000 - 2006	0.05	0.05	0.03	0.05	0.02	0.2
COD, .025N K2CR2O7 mg/l	69	26	2000 - 2006	2.27	2	1.52	1.89	<BDL>	8.5
Coliform, Total, 30-Day Average (# / 100 ml)	64	0	2000 - 2005	343.70	232.5	294.60	247.10	41	1,352
Coliform, Total, 7-Day Maximum (# / 100 ml)	64	0	2000 - 2005	1,087.00	111	7,288.00	136.20	29	58,459
E. Coli, 30-Day Average (# / 100 ml)	73	0	2000 - 2006	24.08	17	20.61	17.88	4	99
E. Coli, 7-Day Maximum (# / 100 ml)	73	0	2000 - 2006	24.63	9	113.80	8.99	1	980
Flow, Thru a Treatment Plant, Daily Maximum, MGD	73	0	2000 - 2006	41.42	42.68	4.88	41.12	32.11	48.85
Flow, Thru a Treatment Plant, Monthly Avg. MGD	72	0	2000 - 2006	27.41	27.51	1.36	27.38	25.08	30.86
Nitrate Nitrogen, Total (mg/l as N)	19	0	2005 - 2006	14.59	14.6	6.24	12.76	1.6	25
Nitrite Nitrogen, Total (mg/l as N)	19	12	2005 - 2006	0.03	0.0113	0.04	0.01	<BDL>	0.13
Nitrogen, Ammonia, Total (mg/l as N)	69	0	2000 - 2006	0.06	0.05	0.05	0.06	0.03	0.38
Nitrogen, Ammonia, Total, Daily Maximum (mg/l as N)	73	0	2000 - 2006	0.25	0.12	0.53	0.15	0.07	4.29
Oxygen, Dissolved, mg/l	69	0	2000 - 2006	7.74	7.6	0.95	7.69	6.4	13.5
Oxygen, Dissolved, Daily Minimum (mg/l)	73	0	2000 - 2006	7.62	7.6	0.53	7.60	6.6	8.8
pH (SU)	69	0	2000 - 2006	7.52	7.53	0.14	7.52	7.13	7.93
pH, Daily Maximum (SU)	73	0	2000 - 2006	7.63	7.7	0.18	7.62	7.3	7.9
pH, Daily Minimum (SU)	73	0	2000 - 2006	7.36	7.4	0.17	7.36	7	7.7
Phosphate, Ortho (mg/l as PO4)	19	0	2005 - 2006	3.44	3.59	0.76	3.28	0.75	4.2

**Table B-71. (cont'd) Statistical assessment of effluent discharge from South Valley Water Reclamation Facility UT0024384.** Information in table based on measurements included in Discharge Monitoring Reports submitted to Utah DWQ by permittee.

	n	BDL	Date	Mean	Median	STD	Geo Mean	Min	Max
Phosphorus, Total (mg/l as P)	19	1	2005 - 2006	3.88	3.92	0.46	3.86	<BDL>	4.6
Temperature, Water (Degrees Centigrade)	69	0	2000 - 2006	18.18	18	3.52	17.82	8.32	24
Total Dissolved Solids (mg/l)	69	0	2000 - 2006	958.40	960	53.02	956.90	850	1,090
Total Suspended Solids, 30-Day Average (mg/l)	73	0	2000 - 2006	6.63	6	1.91	6.38	4	13
Total Suspended Solids, 7-Day Maximum (mg/l)	73	0	2000 - 2006	9.29	8	4.42	8.51	4	29
Total Suspended Solids, Percent Removal (%)	73	0	2000 - 2006	97.35	98	1.24	97.34	89.7	99

**Table B-72. Statistical assessment of effluent discharge from Central Valley Water Reclamation Facility UT0024392.** Information in table based on measurements included in Discharge Monitoring Reports submitted to Utah DWQ by permittee.

	n	BDL	Date	Mean	Median	STD	Geo Mean	Min	Max
Aluminum, Dissolved (ug/l as AL)	7	2	1996 - 1997	0.15	0.144	0.15	0.03	<BDL>	0.33
Aluminum, OtaI (ug/l as AL)	7	1	1996 - 1997	0.15	0.14	0.11	0.13	<BDL>	0.38
BOD, 5 Day, 30-Day Average (mg/l)	97	0	1998 - 2006	3.42	3.4	0.77	3.35	2.1	7.7
BOD, 5 Day, 7-Day Maximum (mg/l)	97	0	1998 - 2006	3.95	3.8	0.91	3.86	2.4	9.1
BOD, 5 Day, Percent Removal (%)	97	0	1998 - 2006	105.40	97	88.61	98.76	91.8	969
Calcium, Total (mg/l as CA)	6	0	1996 - 1996	72.82	79.3	14.33	71.51	50.8	86.3
Chlorine, Total Residual , Daily Maximum (mg/l)	97	0	1998 - 2006	0.03	0.03	0.01	0.03	0.0025	0.04
Coliform, Total, 30-Day Average (# / 100 ml)	97	0	1998 - 2006	526.60	568	330.30	408.10	36	1571
Coliform, Total, 7-Day Maximum (# / 100 ml)	97	0	1998 - 2006	269.40	189	197.40	206.30	41	919
Fecal Coliform, 30-Day Average (# / 100 ml)	97	0	1998 - 2006	34.27	27	21.09	29.83	6	140
Fecal Coliform, 7-Day Maximum (# / 100 ml)	97	0	1998 - 2006	25.38	23	11.13	23.18	4	80
Flow, Thru a Treatment Plant, Daily Maximum, MGD	97	0	1998 - 2006	81.86	80.9	12.32	80.96	47.6	120.3
Flow, Thru a Treatment Plant, Monthly Avg. MGD	62	0	2001 - 2006	52.70	52.4	4.50	52.52	46.3	71.9
Hardness, Total (mg/l as CaCO3)	6	0	1996 - 1996	317.60	334.3	50.78	314.10	245.58	374.86
Magnesium, Total (mg/l as MG)	6	0	1996 - 1996	32.90	33.8	5.01	32.55	23.8	38.7
Mercury, Dissolved (ug/l as HG)	6	2	1996 - 1996	0.0007	0.00035	0.0010	0.0003	<BDL>	0.0027
Mercury, Total (ug/l as HG)	6	1	1996 - 1996	0.0004	0.00025	0.0003	0.0003	<BDL>	0.001
Nitrogen, Ammonia, Total (mg/l as N)	5	0	1996 - 1996	3.25	3.36	2.05	2.02	0.15	5.61
Nitrogen, Ammonia, Total, 30-Day Average (mg/l as N)	55	0	1998 - 2006	1.53	1.3	1.06	1.13	0.16	3.7
Nitrogen, Ammonia, Total, Daily Maximum (mg/l as N)	62	0	2001 - 2006	2.59	2.25	1.80	2.00	0.4	7.9
Oxygen, Dissolved, Daily Minimum (mg/l)	97	0	1998 - 2006	5.17	5.1	0.68	5.13	4.1	7.1



**Table B-72. (cont'd) Statistical assessment of effluent discharge from Central Valley Water Reclamation Facility UT0024392.** Information in table based on measurements included in Discharge Monitoring Reports submitted to Utah DWQ by permittee.

	n	BDL	Date	Mean	Median	STD	Geo Mean	Min	Max
pH (SU)	6	0	1996 - 1996	6.79	6.89	0.47	6.78	6.1	7.29
pH, Daily Maximum (SU)	97	0	1998 - 2006	7.38	7.4	0.24	7.38	7	8.5
pH, Daily Minimum (SU)	97	0	1998 - 2006	6.82	6.9	0.14	6.82	6.5	7.1
Silver, Dissolved (ug/l as AG)	8	3	1996 - 1997	0.0007	0.0006	0.0006	0.0006	<BDL>	0.0019
Silver, Total (ug/l as AG)	8	3	1996 - 1997	0.0008	0.0006	0.0004	0.0007	<BDL>	0.0014
Temperature, Water (Degrees Centigrade)	6	0	1996 - 1996	20.00	19.5	2.97	19.82	17	24
Total Suspended Solids, 30-Day Average (mg/l)	97	0	1998 - 2006	6.42	6.5	1.29	6.29	3.5	9.1
Total Suspended Solids, 7-Day Maximum (mg/l)	97	0	1998 - 2006	7.24	7.3	1.59	7.06	3.6	13
Total Suspended Solids, Percent Removal (%)	97	0	1998 - 2006	96.33	96.3	0.77	96.33	93.1	98.1

**Table B-73. Statistical assessment of effluent discharge from Rubber Engineering Outfall 001 UT0024767.** Information in table based on measurements included in Discharge Monitoring Reports submitted to Utah DWQ by permittee.

	n	BDL	Date	Mean	Median	STD	Geo Mean	Min	Max
BOD, 5 Day, 30-Day Average (mg/l)	62	2	2001 - 2006	5.25	5	1.54	5.14	<BDL>	16
BOD, 5 Day, 7-Day Average (mg/l)	62	2	2001 - 2006	5.39	5	2.62	5.17	<BDL>	25
Flow, Thru a Treatment Plant, Daily Maximum, MGD	61	0	2001 - 2006	0.20	0.18	0.12	0.18	0.089	0.567
Flow, Thru a Treatment Plant, Monthly Avg. MGD	61	0	2001 - 2006	0.15	0.14	0.07	0.14	0.079	0.344
Nitrite Nitrogen, Total, 7-Day Average (mg/l as NO2)	62	2	2001 - 2006	0.02	0.004	0.03	0.01	<BDL>	0.07
Oil/Grease, Daily Maximum (mg/l)	62	2	2001 - 2006	5.16	5	0.36	5.14	<BDL>	6
pH, Daily Maximum (SU)	24	0	2004 - 2006	7.83	7.7	0.43	7.82	7.3	9
pH, Daily Minimum (SU)	24	0	2004 - 2006	7.83	7.7	0.43	7.82	7.3	9
Phosphorus, Total, 7-Day Average (mg/l as P)	62	2	2001 - 2006	0.02	0.004	0.03	0.01	<BDL>	0.07
Total Suspended Solids, 30-Day Average (mg/l)	62	1	2001 - 2006	4.89	3	6.18	3.07	<BDL>	38
Total Suspended Solids, 7-Day Average (mg/l)	62	1	2001 - 2006	4.89	3	6.18	3.07	<BDL>	38

**Table B-74. Statistical assessment of effluent discharge from Rubber Engineering Outfall 002 UT0024767.** Information in table based on measurements included in Discharge Monitoring Reports submitted to Utah DWQ by permittee.

	<b>n</b>	<b>BDL</b>	<b>Date</b>	<b>Mean</b>	<b>Median</b>	<b>STD</b>	<b>Geo Mean</b>	<b>Min</b>	<b>Max</b>
Flow, Thru a Treatment Plant, Daily Maximum, MGD	60	0	2001 - 2006	0.01	0.01	0.01	0.01	0.006	0.06
Flow, Thru a Treatment Plant, Monthly Avg. MGD	60	0	2001 - 2006	0.01	0.01	0.01	0.01	0.003	0.04
Oil/Grease, 30-Day Average (mg/l)	60	1	2001 - 2006	9.49	5.512	5.90	7.79	<BDL>	19.97
Oil/Grease, 7-Day Average (mg/l)	60	1	2001 - 2006	9.49	5.512	5.90	7.79	<BDL>	19.97
Total Suspended Solids, 30-Day Average (mg/l)	60	0	2001 - 2006	11.52	6.391	15.80	5.78	0.96	99.86
Total Suspended Solids, 7-Day Average (mg/l)	60	0	2001 - 2006	11.52	6.391	15.80	5.78	0.96	99.86

**Table B-75. GIS data files obtained as part of Jordan River Work Element 1.**

Category	Dataset Name	Description	Spatial Coverage	Dataset Type	Source	Feature Type	Comments
Administrative	Municipalities	Project Area Municipalities	State of Utah	ESRI Shapefile	State of Utah AGRC	Polygon	Downloaded from AGRC website by Cirrus Ecological Solutions. Clipped to Project Area boundary.
Administrative	Land Ownership	Land Surface Ownership	State of Utah	ESRI Shapefile	State of Utah AGRC	Polygon	Downloaded from AGRC website by Cirrus Ecological Solutions.
Climate	PRISM Annual Precipitation	Annual average precipitation in inches	State of Utah	ESRI Coverage	Spatial Climate Analysis Service Oregon State University	Polygon	Downloaded from Oregon State University website by Cirrus Ecological Solutions.
Environmental	Water Quality Station Locations	BASINS Water Quality Station Locations	Jordan River TMDL Project Area Boundary	ESRI Shapefile	USEPA BASINS	Point	Downloaded from EPA website by Cirrus Ecological Solutions. Raw data was converted to shapefile.
Environmental	Daily Streamflow Gage Locations	Streamflow Gages for which data exist in the Bear River WIS Database	Jordan River TMDL Project Area Boundary	ESRI Shapefile	EMRG	Point	Created from streamflow database with x-y coordinates downloaded with streamflow data.
Environmental	Streamflow Gage Locations	Locations of Real Time USGS real time streamflow gages	Jordan River TMDL Project Area Boundary	ESRI Shapefile	EMRG	Point	Created from streamflow database with x-y coordinates downloaded with streamflow data.
Environmental	Stormwater Outfall Locations	Salt Lake County Outfall Locations	Salt Lake County	ESRI Shapefile	Salt Lake County	Point	Data was provided by Salt Lake County Engineering Division.
Facilities	Wastewater Treatment Facilities	Salt Lake County Wastewater Treatment Facility Locations	Salt Lake County	ESRI Shapefile	Salt Lake County	Point	Data was provided by Salt Lake County Engineering Division.
Hydrology	Selected Waterways	Major Tributaries of Salt Lake County	Salt Lake County	ESRI Shapefile	Salt Lake County	Line	Data was provided by Salt Lake County Engineering Division.
Hydrology	Imported Water	Imported water sources	State of Utah	ESRI Shapefile	USGS National Hydrography Dataset	Line	Data was selected from the TIGER stream layer by Cirrus Ecological Solutions.
Hydrology	Canals	Canals 0906	Salt Lake County	ESRI Shapefile	Salt Lake County	Line	Data was provided by Salt Lake County.

<b>Table B-75. (cont'd) GIS data files obtained as part of Jordan River Work Element 1.</b>							
<b>Category</b>	<b>Dataset Name</b>	<b>Description</b>	<b>Spatial Coverage</b>	<b>Dataset Type</b>	<b>Source</b>	<b>Feature Type</b>	<b>Comments</b>
Hydrology	Jordan River	Jordan River	Jordan River	ESRI Shapefile	Stantec Inc.	Line	Data was provided by Stantec Inc. and is a screen digitized shapefile of the Jordan River obtained from 1:24k DOQs.
Hydrology	Major Diversions	Diversions	Jordan River TMDL Project Area	ESRI Shapefile		Line	Data was selected from the TIGER stream layer by Cirrus Ecological Solutions.
Hydrology	Springs	Jordan River TMDL Project Area Springs	State of Utah	ESRI Shapefile	State of Utah AGRC	Point	Downloaded from AGRC website.
Hydrology	Lakes	State of Utah Lakes	State of Utah	ESRI Shapefile	State of Utah AGRC	Polygon	Downloaded from AGRC website.
Images/Base Coverage	NAIP Color Photograph (2004)	National Agricultural Imagery Program Aerial Photograph 2004	Quarter quadrangles for Project Area	MrSid Images	State of Utah AGRC	Image	Data downloaded from AGRC website.
Images/Base Coverage	State of Utah Mosaic	Landsat TM imagery of Utah	State of Utah	MrSid Image	IRDIAC	Image	Downloaded from Intermountain Regional Digital Image Archive Center.
Land Use/Land Cover	National Land Cover Dataset	National Land Cover Dataset - 1992	Jordan River TMDL Project Area Boundary	ArcInfo Grid	USGS Seamless Data Server	Grid	Downloaded from USGS seamless data server.
Terrain	30 Meter National Elevation Dataset Shaded Relief	Hillshade	Jordan River TMDL Project Area Boundary	ArcInfo Grid	Stantec Inc.	Grid	Hillshade was provided to Cirrus Ecological Solutions by Stantec Inc and was created from National Elevation Dataset DEM.
Transporation	TIGER 2000 roads	US Census TIGER 2000 roads	State of Utah	ESRI Shapefile	State of Utah AGRC	Line	Downloaded from AGRC website.
Transporation	Major Interstates	I-15 and I-80 Utah Interstates	State of Utah	ESRI Shapefile	State of Utah AGRC	Line	Downloaded from Utah AGRC website, clipped and merged two major interstates.
Watershed	Jordan River TMDL Project Area Boundary from BASINS 8-Digit HUCs	Watershed Boundary for the Jordan River Watershed	Jordan River TMDL Project Area	ESRI Shapefile	USEPA BASINS	Polygon	BASINS USGS HUC boundaries merged into a single polygon by Cirrus Ecological Solutions.
Watershed	USGS 12 Digit HUC Boundaries	USGS 12 Digit HUC Boundaries for the Jordan River TMDL Project Area	State of Utah	ESRI Shapefile	USEPA BASINS	Polygon	Downloaded from BASINS USGS website. HUC boundaries merged and modified by Cirrus Ecological Solutions.

<b>Table B-75. (cont'd) GIS data files obtained as part of Jordan River Work Element 1.</b>							
<b>Category</b>	<b>Dataset Name</b>	<b>Description</b>	<b>Spatial Coverage</b>	<b>Dataset Type</b>	<b>Source</b>	<b>Feature Type</b>	<b>Comments</b>
Watershed	USGS 8 Digit HUC Boundaries	USGS 8 Digit HUC Boundaries for the Bear River Watershed	State of Utah	ESRI Shapefile	USGS	Polygon	Created by Cirrus Ecological Solutions by merging all of the USGS 12-digit HUCs in each of the 8-digit HUCs in the river watershed.