

## Appendix B

Station Name	Date	Hardness mg/l	Cu-D µg/l	Chronic Cu Site- Specific Standard µg/L	Exceed/Attain Chronic Standard	Acute Cu Site- Specific Standard µg/L	Exceed/Attain Acute Standard
Cross Creek near Mouth	01/25/02	38	0.0	5.1	Attain	6.9	Attain
Cross Creek near Mouth	03/27/02	69	0.0	7.2	Attain	12.5	Attain
Cross Creek near Mouth	04/19/02	18	2.2	3.3	Attain	3.3	Attain
Cross Creek near Mouth	05/29/02	12	3.2	2.6	<b>Exceed</b>	2.2	<b>Exceed</b>
Cross Creek near Mouth	09/17/02	28	0.0	4.2	Attain	5.2	Attain
Cross Creek near Mouth	10/22/02	24	0.0	3.9	Attain	4.4	Attain
Cross Creek near Mouth	01/24/03	32	0.0	4.6	Attain	5.9	Attain
Cross Creek near Mouth	03/26/03	42	0.0	5.4	Attain	7.7	Attain
Cross Creek near Mouth	04/29/03	17	2.1	3.1	Attain	3.2	Attain
Cross Creek near Mouth	05/29/03	9	2.5	2.2	<b>Exceed</b>	1.7	<b>Exceed</b>
Cross Creek near Mouth	09/18/03	23	0.0	3.8	Attain	4.3	Attain
Cross Creek near Mouth	10/29/03	28	0.0	4.2	Attain	5.2	Attain
Cross Creek near Mouth	01/23/04	37	0.0	5.0	Attain	6.8	Attain
Cross Creek near Mouth	03/25/04	31	2.1	4.5	Attain	5.7	Attain
Cross Creek near Mouth	04/16/04	21	0.0	3.6	Attain	3.9	Attain
Cross Creek near Mouth	09/16/04	29	0.0	4.3	Attain	5.3	Attain
Cross Creek near Mouth	10/20/04	28	0.0	4.2	Attain	5.2	Attain
Cross Creek near Mouth	01/14/05	48	1.4	5.8	Attain	8.7	Attain
Cross Creek near Mouth	03/03/05	39	0.0	5.1	Attain	7.1	Attain
Cross Creek near Mouth	03/10/05	41	0.0	5.3	Attain	7.5	Attain
Cross Creek near Mouth	03/17/05	41	0.0	5.3	Attain	7.5	Attain
Cross Creek near Mouth	03/24/05	38	0.0	5.1	Attain	6.9	Attain
Cross Creek near Mouth	03/31/05	39	0.0	5.1	Attain	7.1	Attain
Cross Creek near Mouth	04/12/05	55	0.0	6.3	Attain	10.0	Attain
Cross Creek near Mouth	05/23/05	12	2.5	2.6	Attain	2.2	<b>Exceed</b>
Cross Creek near Mouth	09/12/05	28	0.0	4.2	Attain	5.2	Attain
Cross Creek near Mouth	10/18/05	27	2.9	4.1	Attain	5.0	Attain
Cross Creek near Mouth	01/31/06	34	0.0	4.7	Attain	6.2	Attain
Cross Creek near Mouth	03/09/06	44	2.0	5.5	Attain	8.0	Attain
Cross Creek near Mouth	03/16/06	45	0.0	5.6	Attain	8.2	Attain
Cross Creek near Mouth	03/23/06	45	0.0	5.6	Attain	8.2	Attain
Cross Creek near Mouth	03/30/06	47	0.0	5.7	Attain	8.6	Attain
Cross Creek near Mouth	04/06/06	61	2.3	6.7	Attain	11.0	Attain
Cross Creek near Mouth	04/13/06	28	2.4	4.2	Attain	5.2	Attain
Cross Creek near Mouth	04/20/06	24	2.8	3.9	Attain	4.4	Attain
Cross Creek near Mouth	05/22/06	13	3.3	2.7	<b>Exceed</b>	2.4	<b>Exceed</b>
Cross Creek near Mouth	09/27/06	26	0.0	4.0	Attain	4.8	Attain

Table 17. Dissolved copper concentrations and corresponding acute and chronic standards for Cross Creek, Segment 7b from 2002 through 2006. Site-specific acute and chronic standards were recalculated and adopted at Upper/Lower Colorado Basin hearing in June 2008.

Station Name	Date	Hardness mg/l	Zn-D µg/l	Chronic Zn Site- Specific Standard µg/L	Exceed/Attain Chronic Standard	Acute Zn Site- Specific Standard µg/L	Exceed/Attain Acute Standard
Cross Creek near Mouth	1/25/2002	38	120	156.1	Attain	183.7	Attain
Cross Creek near Mouth	3/27/2002	69	280	259.8	<b>Exceed</b>	305.7	Attain
Cross Creek near Mouth	4/19/2002	18	19	82.5	Attain	97.1	Attain
Cross Creek near Mouth	5/29/2002	12	4.5	28.7	Attain	33.7	Attain
Cross Creek near Mouth	9/17/2002	28	12	59.1	Attain	69.5	Attain
Cross Creek near Mouth	10/22/2002	24	24	51.8	Attain	60.9	Attain
Cross Creek near Mouth	1/24/2003	32	110	134.8	Attain	158.6	Attain
Cross Creek near Mouth	3/26/2003	42	190	170.0	<b>Exceed</b>	200.1	Attain
Cross Creek near Mouth	4/29/2003	17	14	78.6	Attain	92.5	Attain
Cross Creek near Mouth	5/29/2003	9	3.4	22.4	Attain	26.4	Attain
Cross Creek near Mouth	9/18/2003	23	12	49.9	Attain	58.8	Attain
Cross Creek near Mouth	10/29/03	28	86	59.1	<b>Exceed</b>	69.5	<b>Exceed</b>
Cross Creek near Mouth	1/23/04	37	120	152.6	Attain	179.6	Attain
Cross Creek near Mouth	3/25/04	31	63	131.2	Attain	154.4	Attain
Cross Creek near Mouth	4/16/04	21	16	94.1	Attain	110.7	Attain
Cross Creek near Mouth	9/16/04	29	26	60.9	Attain	71.6	Attain
Cross Creek near Mouth	10/20/04	28	25	59.1	Attain	69.5	Attain
Cross Creek near Mouth	1/14/05	48	120	190.6	Attain	224.3	Attain
Cross Creek near Mouth	3/3/05	39	100	159.6	Attain	187.8	Attain
Cross Creek near Mouth	3/10/05	41	110	166.6	Attain	196.0	Attain
Cross Creek near Mouth	3/17/05	41	120	166.6	Attain	196.0	Attain
Cross Creek near Mouth	3/24/05	38	96	156.1	Attain	183.7	Attain
Cross Creek near Mouth	3/31/05	39	93	159.6	Attain	187.8	Attain
Cross Creek near Mouth	4/12/05	55	180	214.1	Attain	251.9	Attain
Cross Creek near Mouth	5/23/05	12	9.6	28.7	Attain	33.7	Attain
Cross Creek near Mouth	9/12/05	28	16	59.1	Attain	69.5	Attain
Cross Creek near Mouth	10/18/05	27	16	57.3	Attain	67.4	Attain
Cross Creek near Mouth	1/31/06	34	63	142.0	Attain	167.1	Attain
Cross Creek near Mouth	3/9/06	44	97	176.9	Attain	208.2	Attain
Cross Creek near Mouth	3/16/06	45	110	180.4	Attain	212.2	Attain
Cross Creek near Mouth	3/23/06	45	110	180.4	Attain	212.2	Attain
Cross Creek near Mouth	3/30/06	47	120	187.2	Attain	220.3	Attain
Cross Creek near Mouth	4/6/06	61	150	233.8	Attain	275.2	Attain
Cross Creek near Mouth	4/13/06	28	25	120.3	Attain	141.6	Attain
Cross Creek near Mouth	4/20/06	24	23	105.5	Attain	121.1	Attain
Cross Creek near Mouth	5/22/06	13	3.6	30.7	Attain	36.1	Attain
Cross Creek near Mouth	09/27/06	26	14	55.5	Attain	66.2	Attain

Table 18. Dissolved zinc concentrations and corresponding acute and chronic standards for Cross Creek, Segment 7b from 2002 through 2006. Site-specific seasonal acute and chronic standards were recalculated and adopted at Upper/Lower Colorado Basin hearing in June 2008.

Station Name	Date	Hardness mg/l	Zn-D µg/l	Chronic Zn TVS Standard µg/L	Exceed/Attain Chronic Standard	Acute Zn TVS Standard µg/L	Exceed/Attain Acute Standard
Cross Creek near Mouth	1/25/2002	38	120	54.5	<b>Exceed</b>	62.8	<b>Exceed</b>
Cross Creek near Mouth	3/27/2002	69	280	90.6	<b>Exceed</b>	104.5	<b>Exceed</b>
Cross Creek near Mouth	4/19/2002	18	19	28.8	Attain	33.2	Attain
Cross Creek near Mouth	5/29/2002	12	4.5	20.4	Attain	23.5	Attain
Cross Creek near Mouth	9/17/2002	28	12	42.0	Attain	48.4	Attain
Cross Creek near Mouth	10/22/2002	24	24	36.8	Attain	42.5	Attain
Cross Creek near Mouth	1/24/2003	32	110	47.1	<b>Exceed</b>	54.3	<b>Exceed</b>
Cross Creek near Mouth	3/26/2003	42	190	59.3	<b>Exceed</b>	68.4	<b>Exceed</b>
Cross Creek near Mouth	4/29/2003	17	14	27.4	Attain	31.7	Attain
Cross Creek near Mouth	5/29/2003	9	3.4	16.0	Attain	18.4	Attain
Cross Creek near Mouth	9/18/2003	23	12	35.5	Attain	41.0	Attain
Cross Creek near Mouth	10/29/03	28	86	42.0	<b>Exceed</b>	48.4	<b>Exceed</b>
Cross Creek near Mouth	1/23/04	37	120	53.3	<b>Exceed</b>	61.4	<b>Exceed</b>
Cross Creek near Mouth	3/25/04	31	63	45.8	<b>Exceed</b>	52.8	<b>Exceed</b>
Cross Creek near Mouth	4/16/04	21	16	32.9	Attain	37.9	Attain
Cross Creek near Mouth	9/16/04	29	26	43.3	Attain	49.9	Attain
Cross Creek near Mouth	10/20/04	28	25	42.0	Attain	48.4	Attain
Cross Creek near Mouth	1/14/05	48	120	66.5	<b>Exceed</b>	76.7	<b>Exceed</b>
Cross Creek near Mouth	3/3/05	39	100	55.7	<b>Exceed</b>	64.2	<b>Exceed</b>
Cross Creek near Mouth	3/10/05	41	110	58.1	<b>Exceed</b>	67.0	<b>Exceed</b>
Cross Creek near Mouth	3/17/05	41	120	58.1	<b>Exceed</b>	67.0	<b>Exceed</b>
Cross Creek near Mouth	3/24/05	38	96	54.5	<b>Exceed</b>	62.8	<b>Exceed</b>
Cross Creek near Mouth	3/31/05	39	93	55.7	<b>Exceed</b>	64.2	<b>Exceed</b>
Cross Creek near Mouth	4/12/05	55	180	74.7	<b>Exceed</b>	86.1	<b>Exceed</b>
Cross Creek near Mouth	5/23/05	12	9.6	20.4	Attain	23.5	Attain
Cross Creek near Mouth	9/12/05	28	16	42.0	Attain	48.4	Attain
Cross Creek near Mouth	10/18/05	27	16	40.7	Attain	47.0	Attain
Cross Creek near Mouth	1/31/06	34	63	49.6	<b>Exceed</b>	57.2	<b>Exceed</b>
Cross Creek near Mouth	3/9/06	44	97	61.7	<b>Exceed</b>	71.2	<b>Exceed</b>
Cross Creek near Mouth	3/16/06	45	110	62.9	<b>Exceed</b>	72.6	<b>Exceed</b>
Cross Creek near Mouth	3/23/06	45	110	62.9	<b>Exceed</b>	72.6	<b>Exceed</b>
Cross Creek near Mouth	3/30/06	47	120	65.3	<b>Exceed</b>	75.3	<b>Exceed</b>
Cross Creek near Mouth	4/6/06	61	150	81.6	<b>Exceed</b>	94.1	<b>Exceed</b>
Cross Creek near Mouth	4/13/06	28	25	38.1	Attain	44.0	Attain
Cross Creek near Mouth	4/20/06	24	23	36.8	Attain	42.5	Attain
Cross Creek near Mouth	5/22/06	13	3.6	21.8	Attain	25.2	Attain
Cross Creek near Mouth	09/27/06	26	14	39.4	Attain	45.5	Attain

Table 16. Dissolved zinc concentrations and corresponding acute and chronic standards for Cross Creek, Segment 7b from 2002 through 2006.

Station Name	Date	Hardness mg/l	Cu-D µg/l	Chronic Cu TVS Standard µg/L	Exceed/Attain Chronic Standard	Acute Cu TVS Standard µg/L	Exceed/Attain Acute Standard
Cross Creek near Mouth	01/25/02	38	0.0	3.9	Attain	5.4	Attain
Cross Creek near Mouth	03/27/02	69	0.0	6.5	Attain	9.5	Attain
Cross Creek near Mouth	04/19/02	18	2.2	2.1	<b>Exceed</b>	2.7	Attain
Cross Creek near Mouth	05/29/02	12	3.2	1.5	<b>Exceed</b>	1.8	<b>Exceed</b>
Cross Creek near Mouth	09/17/02	28	0.0	3.0	Attain	4.1	Attain
Cross Creek near Mouth	10/22/02	24	0.0	2.7	Attain	3.5	Attain
Cross Creek near Mouth	01/24/03	32	0.0	3.4	Attain	4.6	Attain
Cross Creek near Mouth	03/26/03	42	0.0	4.3	Attain	5.9	Attain
Cross Creek near Mouth	04/29/03	17	2.1	2.0	<b>Exceed</b>	2.5	Attain
Cross Creek near Mouth	05/29/03	9	2.5	1.1	<b>Exceed</b>	1.4	<b>Exceed</b>
Cross Creek near Mouth	09/18/03	23	0.0	2.6	Attain	3.4	Attain
Cross Creek near Mouth	10/29/03	28	0.0	3.0	Attain	4.1	Attain
Cross Creek near Mouth	01/23/04	37	0.0	3.8	Attain	5.3	Attain
Cross Creek near Mouth	03/25/04	31	2.1	3.3	Attain	4.5	Attain
Cross Creek near Mouth	04/16/04	21	0.0	2.4	Attain	3.1	Attain
Cross Creek near Mouth	09/16/04	29	0.0	3.1	Attain	4.2	Attain
Cross Creek near Mouth	10/20/04	28	0.0	3.0	Attain	4.1	Attain
Cross Creek near Mouth	01/14/05	48	1.4	4.8	Attain	6.7	Attain
Cross Creek near Mouth	03/03/05	39	0.0	4.0	Attain	5.5	Attain
Cross Creek near Mouth	03/10/05	41	0.0	4.2	Attain	5.8	Attain
Cross Creek near Mouth	03/17/05	41	0.0	4.2	Attain	5.8	Attain
Cross Creek near Mouth	03/24/05	38	0.0	3.9	Attain	5.4	Attain
Cross Creek near Mouth	03/31/05	39	0.0	4.0	Attain	5.5	Attain
Cross Creek near Mouth	04/12/05	55	0.0	5.4	Attain	7.7	Attain
Cross Creek near Mouth	05/23/05	12	2.5	1.5	<b>Exceed</b>	1.8	<b>Exceed</b>
Cross Creek near Mouth	09/12/05	28	0.0	3.0	Attain	4.1	Attain
Cross Creek near Mouth	10/18/05	27	2.9	2.9	Attain	3.9	Attain
Cross Creek near Mouth	01/31/06	34	0.0	3.6	Attain	4.9	Attain
Cross Creek near Mouth	03/09/06	44	2.0	4.4	Attain	6.2	Attain
Cross Creek near Mouth	03/16/06	45	0.0	4.5	Attain	6.3	Attain
Cross Creek near Mouth	03/23/06	45	0.0	4.5	Attain	6.3	Attain
Cross Creek near Mouth	03/30/06	47	0.0	4.7	Attain	6.6	Attain
Cross Creek near Mouth	04/06/06	61	2.3	5.9	Attain	8.4	Attain
Cross Creek near Mouth	04/13/06	28	2.4	3.0	Attain	4.1	Attain
Cross Creek near Mouth	04/20/06	24	2.8	2.7	<b>Exceed</b>	3.5	Attain
Cross Creek near Mouth	05/22/06	13	3.3	1.6	<b>Exceed</b>	2.0	<b>Exceed</b>
Cross Creek near Mouth	09/27/06	26	0.0	2.8	Attain	3.8	Attain

Table 15. Dissolved copper concentrations and corresponding acute and chronic standards for Cross Creek, Segment 7b from 2002 through 2006.