Denison Environmental Services

Table C-1: Rose Creek Drainage Water Quality
2010 - Surface Water - General Parameters

Faro Mine Closure

Station	Date	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TDS mg/L	TEMP-F °C	TOC mg/L	TSS mg/L	TURB NTU
ETA Combined	**9/2/2010**	<0.5	<0.5			12.00			<0.5		7060.0	>3999.0		<0.5	1.10	0.01	0.90	0.89	<0.5	4.9	6.0	6600.0	6400.00	5		170	
ETA Combined	**10/20/2010**	<0.5	<0.5	3600	4140	12.00			<0.5		7510.0	>3999.0		<0.5	1.30	0.01	0.34	0.33	<0.5	4.9	6.3	6900.0	7400.00	2		190	
ETA Combined	**11/8/2010**	1.80	<0.5	3880	3900	9.50			<0.5		7450.0	>3999.0		2.10	0.95	0.02	0.03	<0.02	<0.5	5.1	6.1	7200.0	7200.00	2		150	
ETA Combined	**12/1/2010**	3.40	<0.5	3720		11.00			<0.5		7360.0	>3999.0		4.10	1.20	<0.5	<0.02	<0.5	<0.5	5.3	6.2	7500.0	9000.00	2		140	
ETA Combined Average		1.43	0	3733	4020	11.13			0.25		7345.0	>3999.0		1.68	1.14	0.07	0.32	0.37	0	5.0	6.1	7050.0	7500.00	3		163	
ETA Combined Max		3.40	<0.5	3880	4140	12.00			<0.5		7510.0	>3999.0		4.10	1.30	<0.5	0.90	0.89	<0.5	5.3	6.3	7500.0	9000.00	5		190	
ETA Combined Min		<0.5	<0.5	3600	3900	9.50			<0.5		7060.0	>3999.0		<0.5	0.95	0.01	<0.02	<0.02	<0.5	4.9	6.0	6600.0	6400.00	2		140	
ETA Combined N > DL		2	0	3	2	4	0	0	0	0	4	0	0	2	4	3	3	2	0	4	4	4	4	4	0	4	0
ETA Combined Median		1.03	<0.5	3720	4020	11.50			<0.5		7405.0	>3999.0		1.18	1.15	0.02	0.19	0.33	<0.5	5.0	6.1	7050.0	7300.00	2		160	
FAROCR	**5/3/2010**	20.00	<0.5	25	25	<0.5			<0.5		50.0	78.0	13.5	25.00	<0.005				<0.5	7.3	7.5	<0.5	50.00	2	12.50	5	
FAROCR	**6/5/2010**	12.00	<0.5	14	14	<0.5			<0.5		29.0	21.0	4.2	15.00	<0.05				<0.5	7.2	7.8	<0.5	24.00	6	4.10	<1.0	
FAROCR	**7/8/2010**	16.00	<0.5	22	20	<0.5			<0.5		48.0	42.0	4.2	19.00	<0.05				<0.5	7.5	8.2	2.9	40.00	13	3.70	<1.0	
FAROCR	**8/3/2010**	39.00	<0.5	35	33	<0.5			<0.5		81.0	79.0	1.8	48.00	<0.05				<0.5	7.8	7.3	3.6	54.00	15	1.80	<1.0	
FAROCR	**9/1/2010**	34.00	<0.5	33	33	<0.5			<0.5		85.0	80.0	2.4	42.00	<0.05	<0.005	<0.02	<0.02	<0.5	7.7	7.8	4.6	62.00	7	3.90	<1.0	0.40
FAROCR	**10/19/2010**	34.00	<0.5	34	35	<0.5			<0.5		74.0	244.0	4.7	41.00	0.02	<0.005	<0.02	<0.02	<0.5	7.7	7.3	4.6	50.00	2	1.00	<1.0	0.50
FAROCR Average		25.83	0	27	26	0.25			0.25		61.2	90.7	5.1	31.67	0.02	0.00	0.01	0.01	0	7.5	7.6	2.7	46.67	7	4.50	1	0.45
FAROCR Max		39.00	<0.5	35	35	<0.5			<0.5		85.0	244.0	13.5	48.00	<0.05	<0.005	<0.02	<0.02	<0.5	7.8	8.2	4.6	62.00	15	12.50	5	0.50
FAROCR Min		12.00	<0.5	14	14	<0.5			<0.5		29.0	21.0	1.8	15.00	<0.005	<0.005	<0.02	<0.02	<0.5	7.2	7.3	<0.5	24.00	2	1.00	<1.0	0.40
FAROCR N > DL		6	0	6	6	0	0	0	0	0	6	6	6	6	1	0	0	0	0	6	6	4	6	6	6	1	2
FAROCR Median		27.00	<0.5	29	29	<0.5			<0.5		62.0	78.5	4.2	33.00	<0.05	<0.005	<0.02	0.00	<0.5	7.6	7.6	3.3	50.00	6	3.80	<1.0	0.45
FCO	**6/16/2010**	17.00	<0.5	47	45	<0.5			<0.5		118.0	122.0		20.00	0.15				<0.5	7.1	7.9	33.0	76.00	8		<1.0	
FCO	**9/1/2010**																				7.3			5			
FCO	**10/7/2010**	17.00	<0.5	47	47	<0.5			<0.5		123.0	70.0		21.00	0.04	<0.005	0.05	0.05	<0.5	7.2	7.5	37.0	80.00	2		3	
FCO	**11/4/2010**																				7.5			0			
FCO Average		17.00	0	47	46	0.25			0.25		120.5	96.0		20.50	0.10	0.00	0.05	0.05	0	7.2	7.6	35.0	78.00	4		2	
FCO Max		17.00	<0.5	47	47	<0.5			<0.5		123.0	122.0		21.00	0.15	<0.005	0.05	0.05	<0.5	7.2	7.9	37.0	80.00	8		3	
FCO Min		17.00	<0.5	47	45	<0.5			<0.5		118.0	70.0		20.00	0.04	<0.005	0.05	0.05	<0.5	7.1	7.3	33.0	76.00	0		<1.0	
FCO N > DL		2	0	2	2	0	0	0	0	0	2	2	0	2	2	0	1	1	0	2	4	2	2	4	0	1	0
FCO Median		17.00	<0.5	47	46	<0.5			<0.5		120.5	96.0		20.50	0.10	<0.005	0.05	0.05	<0.5	7.2	7.5	35.0	78.00	4		1	
FCS-4	**9/2/2010**	2.40	<0.5			15.00			<0.5		6080.0	>3999.0		2.90	1.10	<0.005	<0.02	<0.02	<0.5	5.3	6.3	5500.0	5700.00	4		230	
FCS-4	**10/20/2010**	<0.5	<0.5	4440	4220	13.00			<0.5		7180.0	>3999.0		<0.5	1.20	<0.005	0.15	0.15	<0.5	4.6	6.5	7300.0	7100.00	0		250	
FCS-4	**11/10/2010**	<0.5	<0.5	4400	4230	12.00			<0.5		7160.0	>3999.0		0.60	0.89	<0.005	<0.02	<0.02	<0.5	5.1	6.6	7200.0	8400.00	2		250	
FCS-4	**12/2/2010**	<0.5	<0.5	3980		12.00			<0.5		6890.0	>3999.0		<0.5	1.40	<0.5	0.03	<0.5	<0.5	4.7	6.7	7400.0	8200.00	3		180	
FCS-4 Average		0.79	0	4273	4225	13.00			0.25		6827.5	>3999.0		1.00	1.15	0.06	0.05	0.11	0	4.9	6.6	6850.0	7350.00	5		228	
FCS-4 Max		2.40	<0.5	4440	4230	15.00			<0.5		7180.0	>3999.0		2.90	1.40	<0.5	0.15	<0.5	<0.5	5.3	7.4	7400.0	8400.00	16		250	
FCS-4 Min		<0.5	<0.5	3980	4220	12.00			<0.5		6080.0	>3999.0		<0.5	0.89	<0.005	<0.02	<0.02	<0.5	4.6	3.8	5500.0	5700.00	0		180	
FCS-4 N > DL		1	0	3	2	4	0	0	0	0	4	0	0	2	4	0	2	1	0	4	4	4	4	4	0	4	0
FCS-4 Median		<0.5	<0.5	4400	4225	12.50			<0.5		7025.0	>3999.0		0.00	1.15	<0.005	0.00	0.13	<0.5	4.9	6.6	7250.0	7650.00	3		240	
GDHSECK	**3/4/2010**	230.00	<0.5	744	738	1.70			<0.5		1230.0	1110.0		280.00	0.12				<0.5	8.1	7.6	480.0	950.00	2			
GDHSECK	**6/16/2010**	170.00	<0.5	740	659	1.20			<0.5		1230.0	1238.0		210.00	<0.01				<0.5	8.1	8.2	490.0	990.00	6		<1.0	
GDHSECK	**10/6/2010**	180.00	<0.5	676	639	0.60			<0.5		1110.0	1234.0		220.00	0.03	<0.005	<0.02	<0.02	<0.5	8.1	7.1	500.0	870.00	2		<1.0	
GDHSECK Average		193.33	0	720	679	1.17			0.25		1190.0	1194.0		236.67	0.05	0.00	0.01	0.01	0	8.1	7.6	490.0	936.67	3		1	
GDHSECK Max		230.00	<0.5	744	738	1.70			<0.5		1230.0	1238.0		280.00	0.12	<0.005	<0.02	<0.02	<0.5	8.1	8.2	500.0	990.00	6		<1.0	
GDHSECK Min		170.00	<0.5	676	639	0.60			<0.5		1110.0	1110.0		210.00	<0.01	<0.005	<0.02	<0.02	<0.5	8.1	7.1	480.0	870.00	2		<1.0	
GDHSECK N > DL		3	0	3	3	3	0	0	0	0	3	3	0	3	2	0	0	0	0	3	3	3	3	3	0	0	0
GDHSECK Median		180.00	<0.5	740	659	1.20			<0.5		1230.0	1234.0		220.00	0.03	<0.005	<0.02	<0.02	<0.5	8.1	7.6	490.0	950.00	2		<1.0	

Table C-1: Rose Creek Drainage Water Quality
2010 - Surface Water - General Parameters

Station	Date	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TDS mg/L	TEMP-F °C	TOC mg/L	TSS mg/L	TURB NTU
NF1	**2/23/2010**	140.00	<0.5	160	148	<0.5			<0.5		297.0	240.0	1.5	170.00	0.02				<0.5	7.9	7.8	19.0	240.00	1	1.80	12	
NF1	**3/10/2010**	140.00	<0.5	155	155	<0.5			<0.5		298.0	269.0	1.0	170.00	<0.01				<0.5	8.0	7.8	20.0	180.00	2	1.10	<1.0	
NF1	**4/11/2010**	150.00	<0.5	143	168	<0.5			<0.5		325.0	260.0	3.2	190.00	0.04				<0.5	7.9	7.4	20.0	170.00	0	3.20	10	
NF1	**5/3/2010**	49.00	<0.5	53	51	1.90			<0.5		103.0	90.0	13.5	60.00	<0.005				<0.5	7.6	7.4	0.8	74.00	2	13.30	2	
NF1	**6/5/2010**	46.00	<0.5	54	52	<0.5			<0.5		97.0	99.0	3.1	57.00	<0.05				<0.5	7.6	7.8	6.1	70.00	4	3.20	2	
NF1	**7/8/2010**	64.00	<0.5	64	69	<0.5			<0.5		134.0	129.0	3.4	78.00	<0.05				<0.5	7.9	7.7	8.0	80.00	12	3.40	2	
NF1	**8/3/2010**	140.00	<0.5	176	169	0.80			<0.5		355.0	421.0	4.1	170.00	<0.05				<0.5	7.3	6.7	48.0	230.00	17	5.40	7	
NF1 Average		104.14	0	115	116	0.56			0.25		229.9	215.4	4.3	127.86	0.02				0	7.7	7.5	17.4	149.14	5	4.49	5	
NF1 Max		150.00	<0.5	176	169	1.90			<0.5		355.0	421.0	13.5	190.00	<0.05				<0.5	8.0	7.8	48.0	240.00	17	13.30	12	
NF1 Min		46.00	<0.5	53	51	<0.5			<0.5		97.0	90.0	1.0	57.00	<0.005				<0.5	7.3	6.7	0.8	70.00	0	1.10	<1.0	
NF1 N > DL		7	0	7	7	2	0	0	0	0	7	7	7	7	2	0	0	0	0	7	7	7	7	7	7	6	0
NF1 Median		140.00	<0.5	143	148	<0.5			<0.5		297.0	240.0	3.2	170.00	0.04				<0.5	7.9	7.7	19.0	170.00	2	3.20	2	
NF2	**1/12/2010**	130.00	<0.5	146	147	<0.5			<0.5		286.0	266.0	1.5	160.00	<0.01				<0.5	7.7	6.9	22.0	190.00	0	0.90	<1.0	
NF2	**2/23/2010**	140.00	<0.5	158	155	<0.5			<0.5		295.0	230.0	2.0	170.00	<0.01				<0.5	8.0	7.7	19.0	160.00	0	1.90	<1.0	
NF2	**3/10/2010**	140.00	<0.5	147	149	<0.5			<0.5		298.0	267.0	1.1	170.00	<0.01				<0.5	8.0	7.6	20.0	180.00	2	1.20	<1.0	
NF2	**4/14/2010**	150.00	<0.5	142	153	<0.5			<0.5		308.0	270.0	1.8	180.00	<0.01				<0.5	8.2	7.5	21.0	150.00	1	1.40	<1.0	
NF2	**5/3/2010**	52.00	<0.5	57	51	0.60			<0.5		107.0	97.0	13.9	64.00	<0.005				<0.5	7.6	7.3	<0.5	88.00	1	13.90	3	
NF2	**6/4/2010**	42.00	<0.5	48	48	<0.5			<0.5		87.0	81.0	3.0	51.00	<0.05				<0.5	7.6	7.9	5.6	56.00	5	3.20	4	
NF2	**7/8/2010**	65.00	<0.5	65	64	<0.5			<0.5		136.0	154.0	3.4	79.00	<0.05				<0.5	7.9	8.2	9.0	78.00	10	3.60	3	
NF2	**8/3/2010**	93.00	<0.5	89	89	<0.5			<0.5		196.0	193.0	2.3	110.00	<0.05				<0.5	8.0	7.5	10.0	110.00	13	2.10	18	
NF2	**9/1/2010**	89.00	<0.5	94	96	<0.5			<0.5		203.0	222.0	2.6	110.00	0.16	<0.005	0.05	0.05	<0.5	7.9	8.1	12.0	120.00	5	2.50	<1.0	0.70
NF2	**10/18/2010**	96.00	<0.5	111	106	0.60			<0.5		215.0	200.0	1.5	120.00	<0.005	<0.005	0.14	0.14	<0.5	7.9	7.5	15.0	130.00	1	1.80	<1.0	1.10
NF2	**11/9/2010**	110.00	<0.5	122	121	<0.5			<0.5		258.0	252.0	<0.5	140.00	0.02	<0.005	0.19	0.19	<0.5	8.1	8.1	21.0	170.00	0	1.50	<4.0	1.20
NF2	**12/1/2010**	120.00	<0.5	129	131	<0.5			<0.5		262.0	120.0	1.4	150.00	0.14	<0.005	0.21	0.21	<0.5	7.9	7.4	20.0	150.00	0	1.30	<4.0	0.82
NF2 Average		102.25	0	109	109	0.31			0.25		220.9	196.0	2.9	125.33	0.03	0.00	0.15	0.15	0	7.9	7.6	14.6	131.83	3	2.94	3	0.93
NF2 Max		150.00	<0.5	158	155	0.60			<0.5		308.0	270.0	13.9	180.00	0.16	<0.005	0.21	0.21	<0.5	8.2	8.2	22.0	190.00	13	13.90	18	1.20
NF2 Min		42.00	<0.5	48	48	<0.5			<0.5		87.0	81.0	<0.5	51.00	<0.005	<0.005	0.05	0.05	<0.5	7.6	6.9	<0.5	56.00	0	0.90	<1.0	0.70
NF2 N > DL		12	0	12	12	2	0	0	0	0	12	12	11	12	3	0	4	4	0	12	12	11	12	12	12	4	4
NF2 Median		103.00	<0.5	117	114	<0.5			<0.5		236.5	211.0	1.9	130.00	0.01	<0.005	0.17	0.17	<0.5	7.9	7.6	17.0	140.00	1	1.85	2	0.96
NFRC SC-1	**1/12/2010**	130.00	<0.5	147	146	<0.5			<0.5		288.0	252.0	1.4	160.00	<0.01				<0.5	7.6	6.8	22.0	170.00	0	1.00	<1.0	
NFRC SC-1	**2/23/2010**	140.00	<0.5	156	152	<0.5			<0.5		298.0	250.0	1.1	170.00	<0.01				<0.5	8.0	7.8	20.0	190.00	1	1.70	<1.0	
NFRC SC-1	**3/10/2010**	140.00	<0.5	153	152	0.60			<0.5		304.0	269.0	1.2	170.00	<0.01				<0.5	8.0	7.8	22.0	190.00	2	1.30	<1.0	
NFRC SC-1	**4/14/2010**	140.00	<0.5	143	157	<0.5			<0.5		304.0	260.0	1.8	170.00	<0.01				<0.5	8.1	7.2	21.0	120.00	3	1.40	<1.0	
NFRC SC-1	**5/3/2010**	53.00	<0.5	55	57	<0.5			<0.5		108.0	96.0	13.1	64.00	<0.005				<0.5	7.6	7.6	<0.5	90.00	1	14.10	4	
NFRC SC-1	**6/4/2010**	40.00	<0.5	48	47	<0.5			<0.5		88.0	84.0	3.3	49.00	<0.05				<0.5	7.6	7.7	5.9	74.00	5	3.20	4	
NFRC SC-1	**7/8/2010**	65.00	<0.5	66	61	<0.5			<0.5		137.0	129.0	3.4	79.00	<0.05				<0.5	7.9	8.1	9.0	84.00	9	3.50	5	
NFRC SC-1	**8/3/2010**	95.00	<0.5	97	92	<0.5			<0.5		197.0	192.0	1.3	120.00	<0.05				<0.5	8.0	7.6	10.0	120.00	12	1.90	2	
NFRC SC-1	**10/18/2010**	98.00	<0.5	105	108	<0.5			<0.5		217.0	197.0	2.0	120.00	0.04	<0.005	0.14	0.14	<0.5	8.0	7.5	16.0	130.00	0	1.40	<1.0	
NFRC SC-1 Average		100.11	0	108	108	0.29			0.25		215.7	192.1	3.2	122.44	0.02	0.00	0.14	0.14	0	7.9	7.6	14.0	129.78	4	3.28	2	
NFRC SC-1 Max		140.00	<0.5	156	157	0.60			<0.5		304.0	269.0	13.1	170.00	<0.05	<0.005	0.14	0.14	<0.5	8.1	8.1	22.0	190.00	12	14.10	5	
NFRC SC-1 Min		40.00	<0.5	48	47	<0.5			<0.5		88.0	84.0	1.1	49.00	<0.005	<0.005	0.14	0.14	<0.5	7.6	6.8	<0.5	74.00	0	1.00	<1.0	
NFRC SC-1 N > DL		9	0	9	9	1	0	0	0	0	9	9	9	9	1	0	1	1	0	9	9	8	9	9	9	4	0
NFRC SC-1 Median		98.00	<0.5	105	108	<0.5			<0.5		217.0	197.0	1.8	120.00	<0.01	<0.005	0.14	0.14	<0.5	8.0	7.6	16.0	120.00	2	1.70	<1.0	
NFRC SC-2	**1/12/2010**	130.00	<0.5	141	143	<0.5			<0.5		287.0	250.0	1.8	160.00	<0.01				<0.5	7.6	7.0	24.0	160.00	0	1.20	<1.0	
NFRC SC-2	**2/23/2010**	140.00	<0.5	155	151	<0.5			<0.5		300.0	240.0	1.5	170.00	<0.01				<0.5	7.9	7.8	20.0	170.00	0	1.50	<1.0	
NFRC SC-2	**3/10/2010**	140.00	<0.5	148	151	0.60			<0.5		301.0	269.0	1.3	170.00	<0.01				<0.5	8.0	7.6	21.0	180.00	1	1.30	<1.0	
NFRC SC-2	**4/14/2010**	140.00	<0.5	143	154	<0.5			<0.5		309.0	270.0	1.7	180.00	<0.01				<0.5	8.1	7.2	20.0	150.00	2	1.40	<1.0	
NFRC SC-2	**5/3/2010**	53.00	<0.5	55	59	<0.5			<0.5		109.0	99.0	12.2	65.00	<0.005				<0.5	7.6	7.7	<0.5	84.00	1	14.70	4	
NFRC SC-2	**6/4/2010**	43.00	<0.5	48	48	<0.5			<0.5		89.0	86.0	3.5	52.00	<0.05				<0.5	7.6	7.7	5.7	52.00	6	3.20	4	
NFRC SC-2	**7/8/2010**	62.00	<0.5	70	64	<0.5			<0.5		135.0	129.0	3.3	76.00	<0.05				<0.5	7.8	8.0	8.7	78.00	9	3.30	2	
NFRC SC-2	**8/3/2010**	94.00	<0.5	91	95	<0.5			<0.5		196.0	186.0	2.9	110.00	<0.05				<0.5	8.0	7.5	10.0	120.00	14	2.00	<1.0	
NFRC SC-2	**10/18/2010**	98.00	<0.5	105	107	<0.5			<0.5		219.0	198.0	2.0	120.00	0.04	<0.005	0.14	0.14	<0.5	8.0	7.5	17.0	140.00	0	1.60	<1.0	
NFRC SC-2 Average		100.00	0	106	108	0.29			0.25		216.1	191.9	3.4	122.56	0.01	0.00	0.14	0.14	0	7.9	7.6	14.1	126.00	4	3.36	1	
NFRC SC-2 Max		140.00	<0.5	155	154	0.60			<0.5		309.0	270.0	12.2	180.00	<0.05	<0.005	0.14	0.14	<0.5	8.1	8.0	24.0	180.00	14	14.70	4	
NFRC SC-2 Min		43.00	<0.5	48	48	<0.5			<0.5		89.0	86.0	1.3	52.00	<0.005	<0.005	0.14	0.14	<0.5	7.6	7.0	<0.5	52.00	0	1.20	<1.0	
NFRC SC-2 N > DL		9	0	9	9	1	0	0	0	0	9	9	9	9	1	0	1	1	0	9	9	8	9	9	9	3	0
NFRC SC-2 Median		98.00	<0.5	105	107	<0.5			<0.5		219.0	198.0	2.0	120.00	<0.01	<0.005	0.14	0.14	<0.5	7.9	7.6	17.0	140.00	1	1.60	<1.0	

Denison Environmental Services

Table C-1: Rose Creek Drainage Water Quality
2010 - Surface Water - General Parameters

Faro Mine Closure

Station	Date	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TDS mg/L	TEMP-F °C	TOC mg/L	TSS mg/L	TURB NTU
NFRC SC-3	**1/12/2010**	130.00	<0.5	144	145	<0.5			<0.5		288.0	257.0	0.9	160.00	0.02				<0.5	7.8	7.0	23.0	220.00	0	1.00	<1.0	
NFRC SC-3	**2/23/2010**	140.00	<0.5	150	149	<0.5			<0.5		297.0	260.0	1.7	170.00	0.02				<0.5	8.0	7.7	20.0	160.00	2	1.70	<1.0	
NFRC SC-3	**3/10/2010**	140.00	<0.5	144	149	<0.5			<0.5		304.0	270.0	1.0	170.00	<0.01				<0.5	8.0	7.7	21.0	170.00	1	2.10	<1.0	
NFRC SC-3	**4/14/2010**	140.00	<0.5	143	150	<0.5			<0.5		308.0	270.0	1.5	180.00	0.02				<0.5	8.1	7.3	20.0	130.00	2	1.50	<1.0	
NFRC SC-3	**5/3/2010**	54.00	<0.5	55	57	0.60			<0.5		109.0	96.0	11.8	66.00	<0.005				<0.5	7.6	7.5	<0.5	80.00	1	14.60	3	
NFRC SC-3	**6/4/2010**	41.00	<0.5	48	48	<0.5			<0.5		89.0	84.0	3.5	50.00	<0.05				<0.5	7.6	7.7	6.1	52.00	6	3.10	4	
NFRC SC-3	**7/8/2010**	64.00	<0.5	63	65	<0.5			<0.5		136.0	130.0	3.5	78.00	<0.05				<0.5	7.9	8.0	8.6	76.00	10	3.30	2	
NFRC SC-3	**8/3/2010**	94.00	<0.5	91	92	<0.5			<0.5		195.0	191.0	2.3	110.00	<0.05				<0.5	8.0	7.7	10.0	110.00	13	2.00	<1.0	
NFRC SC-3	**10/18/2010**	99.00	<0.5	104	108	<0.5			<0.5		218.0	197.0	2.1	120.00	<0.005	<0.005	0.14	0.14	<0.5	8.0	7.6	16.0	130.00	0	1.50	<1.0	
NFRC SC-3 Average		100.22	0	105	107	0.29			0.25		216.0	195.0	3.1	122.67	0.02	0.00	0.14	0.14	0	7.9	7.6	13.9	125.33	4	3.42	1	
NFRC SC-3 Max		140.00	<0.5	150	150	0.60			<0.5		308.0	270.0	11.8	180.00	<0.05	<0.005	0.14	0.14	<0.5	8.1	8.0	23.0	220.00	13	14.60	4	
NFRC SC-3 Min		41.00	<0.5	48	48	<0.5			<0.5		89.0	84.0	0.9	50.00	<0.005	<0.005	0.14	0.14	<0.5	7.6	7.0	<0.5	52.00	0	1.00	<1.0	
NFRC SC-3 N > DL		9	0	9	9	1	0	0	0	0	9	9	9	9	3	0	1	1	0	9	9	8	9	9	9	3	0
NFRC SC-3 Median		99.00	<0.5	104	108	<0.5			<0.5		218.0	197.0	2.1	120.00	0.02	<0.005	0.14	0.14	<0.5	8.0	7.7	16.0	130.00	2	2.00	<1.0	
NFRC SC-4	**1/11/2010**	130.00	<0.5	147	148	<0.5			<0.5		294.0	255.0	0.9	160.00	<0.01				<0.5	7.8	7.0	25.0	200.00	0	1.20	2	
NFRC SC-4	**2/23/2010**	140.00	<0.5	162	152	<0.5			<0.5		303.0	260.0	1.1	170.00	<0.01				<0.5	7.9	7.5	23.0	220.00	0	1.00	<1.0	
NFRC SC-4	**3/10/2010**	140.00	<0.5	159	148	<0.5			<0.5		305.0	271.0	1.9	170.00	0.02				<0.5	8.0	7.8	24.0	200.00	1	1.90	<1.0	
NFRC SC-4	**4/14/2010**	140.00	<0.5	146	154	<0.5			<0.5		316.0	270.0	1.2	170.00	<0.01				<0.5	8.1	7.5	22.0	140.00	2	1.20	<1.0	
NFRC SC-4	**5/3/2010**	51.00	<0.5	56	61	<0.5			<0.5		112.0	95.0	11.9	63.00	<0.01				<0.5	7.7	7.5	<0.5	74.00	1	14.40	3	
NFRC SC-4	**6/4/2010**	42.00	<0.5	48	49	<0.5			<0.5		89.0	86.0	3.6	51.00	<0.05				<0.5	7.6	7.7	6.2	56.00	6	3.30	4	
NFRC SC-4	**7/8/2010**	63.00	<0.5	66	62	<0.5			<0.5		136.0	128.0	3.7	77.00	<0.05				<0.5	7.8	7.9	8.9	76.00	10	3.20	2	
NFRC SC-4	**8/3/2010**	94.00	<0.5	93	91	<0.5			<0.5		196.0	203.0	2.6	110.00	<0.05				<0.5	8.1	7.9	11.0	120.00	11	2.20	<1.0	
NFRC SC-4	**10/18/2010**	100.00	<0.5	104	111	<0.5			<0.5		220.0	195.0	2.0	120.00	0.03	<0.005	0.14	0.14	<0.5	8.1	7.6	16.0	120.00	0	1.40	<1.0	
NFRC SC-4 Average		100.00	0	109	108	0.25			0.25		219.0	195.9	3.2	121.22	0.02	0.00	0.14	0.14	0	7.9	7.6	15.2	134.00	4	3.31	2	
NFRC SC-4 Max		140.00	<0.5	162	154	<0.5			<0.5		316.0	271.0	11.9	170.00	<0.05	<0.005	0.14	0.14	<0.5	8.1	7.9	25.0	220.00	11	14.40	4	
NFRC SC-4 Min		42.00	<0.5	48	49	<0.5			<0.5		89.0	86.0	0.9	51.00	<0.01	<0.005	0.14	0.14	<0.5	7.6	7.0	<0.5	56.00	0	1.00	<1.0	
NFRC SC-4 N > DL		9	0	9	9	0	0	0	0	0	9	9	9	9	2	0	1	1	0	9	9	8	9	9	9	4	0
NFRC SC-4 Median		100.00	<0.5	104	111	<0.5			<0.5		220.0	203.0	2.0	120.00	0.02	<0.005	0.14	0.14	<0.5	7.9	7.6	16.0	120.00	1	1.90	<1.0	
NWID	**2/22/2010**	170.00	<0.5	213	208	<0.5			<0.5		399.0	340.0	2.0	200.00	<0.01				<0.5	8.1	8.0	48.0	290.00	0	1.00	<1.0	
NWID	**3/10/2010**	170.00	<0.5	213	215	<0.5			<0.5		405.0	362.0	2.4	200.00	<0.01				<0.5	8.1	7.9	51.0	250.00	1	2.40	<1.0	
NWID	**4/15/2010**	170.00	2	199	211	<0.5			2.00		411.0	420.0	2.2	200.00	<0.01				<0.5	8.3	7.7	46.0	200.00	4	1.70	<1.0	
NWID	**5/3/2010**	67.00	<0.5	80	74	<0.5			<0.5		155.0	137.0	8.9	82.00	0.02				<0.5	7.7	7.8	14.0	92.00	0	9.20	3	
NWID	**6/4/2010**	85.00	<0.5	109	110	<0.5			<0.5		202.0	208.0	4.9	100.00	0.06				<0.5	8.0	8.0	23.0	120.00	4	3.60	<1.0	
NWID	**7/10/2010**	120.00	<0.5	158	149	<0.5			<0.5		293.0	307.0	2.9	150.00	<0.05				<0.5	8.1	8.2	31.0	140.00	6	3.00	<1.0	
NWID	**8/3/2010**	140.00	<0.5	161	156	<0.5			<0.5		336.0	340.0	2.3	170.00	<0.05				<0.5	8.2	7.8	37.0	210.00	8	2.00	<1.0	
NWID Average		131.71	0	162	160	0.25			0.50		314.4	302.0	3.7	157.43	0.02				0	8.1	7.9	35.7	186.00	3	3.27	1	
NWID Max		170.00	2	213	215	<0.5			2.00		411.0	420.0	8.9	200.00	0.06				<0.5	8.3	8.2	51.0	290.00	8	9.20	3	
NWID Min		67.00	<0.5	80	74	<0.5			<0.5		155.0	137.0	2.0	82.00	<0.01				<0.5	7.7	7.7	14.0	92.00	0	1.00	<1.0	
NWID N > DL		7	1	7	7	0	0	0	1	0	7	7	7	7	2	0	0	0	0	7	7	7	7	7	7	1	0
NWID Median		140.00	<0.5	161	156	<0.5			<0.5		336.0	340.0	2.4	170.00	0.02				<0.5	8.1	7.9	37.0	200.00	4	2.40	<1.0	
R10	**1/11/2010**	130.00	<0.5	146	143	<0.5			<0.5		283.0	241.0	1.3	160.00	0.03				<0.5	7.7	7.1	20.0	180.00	0	1.50	<1.0	
R10	**2/23/2010**	140.00	<0.5	151	148	<0.5			<0.5		292.0	235.0	1.7	170.00	<0.01				<0.5	8.1	7.9	19.0	190.00	<0.0	1.90	<1.0	
R10	**3/10/2010**	140.00	<0.5	147	154	<0.5			<0.5		292.0	259.0	1.3	170.00	<0.01				<0.5	8.0	7.8	19.0	190.00	1	1.10	<1.0	
R10	**4/11/2010**	140.00	<0.5	130	151	<0.5			<0.5		298.0	240.0	1.8	170.00	<0.01				<0.5	7.9	7.4	19.0	170.00	1	2.40	<1.0	
R10	**5/3/2010**	51.00	<0.5	59	59	0.60			<0.5		111.0	95.0	14.7	63.00	0.01				<0.5	7.7	7.7	<0.5	80.00	2	14.50	3	
R10	**6/5/2010**	48.00	<0.5	52	53	<0.5			<0.5		98.0	103.0	3.3	58.00	<0.05				<0.5	7.7	7.9	6.2	68.00	4	3.10	2	
R10	**7/8/2010**	61.00	<0.5	62	60	<0.5			<0.5		132.0	125.0	3.4	75.00	<0.05				<0.5	7.8	7.9	8.4	76.00	12	3.30	3	
R10	**8/3/2010**	93.00	<0.5	90	85	<0.5			<0.5		190.0	188.0	2.2	110.00	<0.05				<0.5	8.1	7.5	9.1	100.00	12	2.30	<1.0	
R10	**9/1/2010**	87.00	<0.5	89	93	<0.5			<0.5		193.0	187.0	2.4	110.00	0.15	<0.005	0.04	0.04	<0.5	8.0	7.8	11.0	110.00	6	2.20	<1.0	0.60
R10	**10/19/2010**	96.00	<0.5	109	110	<0.5			<0.5		213.0	207.0	2.5	120.00	0.03	<0.005	0.13	0.13	<0.5	8.0	7.7	15.0	130.00	1	1.50	<1.0	1.10
R10	**11/10/2010**	110.00	<0.5	129	129	<0.5			<0.5		256.0	234.0	1.7	140.00	0.01	<0.005	0.19	0.19	<0.5	7.9	7.9	19.0	140.00	0	2.70	<1.0	1.00
R10	**12/1/2010**	120.00	<0.5	126	132	<0.5			<0.5		258.0	350.0	1.2	150.00	<0.05	<0.005	0.20	0.20	<0.5	8.0	7.6	19.0	140.00	0	1.10	<4.0	0.84
R10 Average		101.33	0	108	110	0.28			0.25		218.0	205.3	3.1	124.67	0.03	0.00	0.14	0.14	0	7.9	7.7	13.7	131.17	3	3.13	1	0.83
R10 Max		140.00	<0.5	151	154	0.60			<0.5		298.0	350.0	14.7	170.00	0.15	<0.005	0.20	0.20	<0.5	8.1	7.9	20.0	190.00	12	14.50	<4.0	1.10
R10 Min		48.00	<0.5	52	53	<0.5			<0.5		98.0	95.0	1.2	58.00	0.01	<0.005	0.04	0.04	<0.5	7.7	7.1	<0.5	68.00	<0.0	1.10	<1.0	0.60
R10 N > DL		12	0	12	12	1	0	0	0	0	12	12	12	12	5	0	4	4	0	12	12	11	12	11	12	3	4
R10 Median		103.00	<0.5	118	120	<0.5			<0.5		234.5	220.5	2.0	130.00	0.02	<0.005	0.16	0.16	<0.5	7.9	7.7	17.0	135.00	1	2.25	<1.0	0.92

Table C-1: Rose Creek Drainage Water Quality
2010 - Surface Water - General Parameters

Station	Date	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TDS mg/L	TEMP-F °C	TOC mg/L	TSS mg/L	TURB NTU
R7	**1/11/2010**	130.00	<0.5	131	127	<0.5			<0.5		254.0	235.0	0.7	160.00	0.02				<0.5	7.9	7.2	11.0	130.00	0	0.90	<1.0	
R7	**2/23/2010**	140.00	<0.5	138	138	<0.5			<0.5		266.0	260.0	0.8	170.00	<0.01				<0.5	8.0	8.0	9.7	160.00	1	0.90	<1.0	
R7	**3/10/2010**	130.00	<0.5	136	140	<0.5			<0.5		268.0	239.0	1.1	160.00	<0.01				<0.5	8.1	7.8	9.7	190.00	1	1.30	<1.0	
R7	**4/11/2010**	140.00	<0.5	139	137	<0.5			<0.5		275.0	240.0	0.9	170.00	<0.01				<0.5	8.1	7.8	9.9	150.00	0	0.90	<1.0	
R7	**5/3/2010**	53.00	<0.5	54	56	0.60			<0.5		106.0	91.0	16.0	65.00	0.01				<0.5	7.8	7.7	<0.5	68.00	2	13.40	4	
R7	**6/5/2010**	52.00	<0.5	54	55	<0.5			<0.5		101.0	97.0	3.3	63.00	<0.05				<0.5	7.7	7.9	4.5	62.00	5	2.90	4	
R7	**7/8/2010**	64.00	<0.5	58	59	<0.5			<0.5		128.0	122.0	3.5	78.00	<0.05				<0.5	7.9	8.0	6.4	76.00	11	4.00	2	
R7	**8/3/2010**	91.00	<0.5	86	85	<0.5			<0.5		180.0	183.0	2.4	110.00	<0.05				<0.5	8.1	7.4	6.3	100.00	10	2.20	<1.0	
R7	**9/1/2010**	85.00	<0.5	88	88	<0.5			<0.5		180.0	186.0	3.0	100.00	0.12	<0.005	<0.02	<0.02	<0.5	8.0	7.8	7.5	100.00	6	2.70	<1.0	0.90
R7	**10/19/2010**	96.00	<0.5	99	103	<0.5			<0.5		198.0	198.0	2.5	120.00	0.03	<0.005	0.07	0.07	<0.5	8.0	7.2	8.1	120.00	0	1.60	<1.0	1.00
R7	**11/10/2010**	110.00	<0.5	118	114	<0.5			<0.5		229.0	215.0	1.4	140.00	<0.005	<0.005	0.09	0.09	<0.5	8.0	7.9	10.0	120.00	0	1.50	<1.0	0.66
R7	**12/1/2010**	120.00	<0.5	122	123	<0.5			<0.5		239.0	100.0	0.9	140.00	<0.05	<0.005	0.09	0.09	<0.5	8.0	7.1	10.0	120.00	0	0.80	<4.0	1.00
R7 Average		100.92	0	102	102	0.28			0.25		202.0	180.5	3.0	123.00	0.02	0.00	0.07	0.07	0	8.0	7.6	7.8	116.33	3	2.76	1	0.83
R7 Max		140.00	<0.5	139	140	0.60			<0.5		275.0	260.0	16.0	170.00	0.12	<0.005	0.09	0.09	<0.5	8.1	8.0	11.0	190.00	11	13.40	<4.0	1.00
R7 Min		52.00	<0.5	54	55	<0.5			<0.5		101.0	91.0	0.7	63.00	<0.005	<0.005	<0.02	<0.02	<0.5	7.7	7.1	<0.5	62.00	0	0.80	<1.0	0.66
R7 N > DL		12	0	12	12	1	0	0	0	0	12	12	12	12	4	0	3	3	0	12	12	11	12	12	12	3	4
R7 Median		103.00	<0.5	108	109	<0.5			<0.5		213.5	192.0	1.9	130.00	0.02	<0.005	0.08	0.08	<0.5	8.0	7.8	8.9	120.00	1	1.55	<1.0	0.95
R8	**1/11/2010**	130.00	<0.5	128	130	<0.5			<0.5		256.0	221.0	1.6	160.00	0.02				<0.5	7.9	6.9	10.0	170.00	0	1.30	<1.0	
R8	**2/23/2010**	130.00	<0.5	141	139	<0.5			<0.5		252.0	220.0	1.0	160.00	<0.01				<0.5	8.2	7.9	9.6	160.00	1	1.20	<1.0	
R8	**3/10/2010**	140.00	<0.5	134	138	<0.5			<0.5		271.0	244.0	1.1	170.00	0.02				<0.5	8.1	7.8	11.0	140.00	1	1.20	<1.0	
R8	**4/11/2010**	140.00	<0.5	143	144	<0.5			<0.5		274.0	230.0	0.7	170.00	<0.01				<0.5	8.1	7.7	9.2	140.00	1	0.80	<1.0	
R8	**5/3/2010**	51.00	<0.5	53	54	0.60			<0.5		101.0	87.0	14.6	62.00	0.01				<0.5	7.7	7.5	<0.5	82.00	2	12.10	5	
R8	**6/5/2010**	44.00	<0.5	48	49	<0.5			<0.5		89.0	89.0	3.3	54.00	<0.05				<0.5	7.7	7.9	5.1	64.00	6	3.30	2	
R8	**7/8/2010**	63.00	<0.5	57	58	<0.5			<0.5		123.0	121.0	2.9	76.00	<0.05				<0.5	8.0	8.1	5.8	70.00	11	3.20	2	
R8	**8/3/2010**	88.00	<0.5	84	83	<0.5			<0.5		176.0	177.0	2.3	110.00	<0.05				<0.5	8.1	7.3	6.0	90.00	11	2.30	2	
R8	**9/1/2010**	83.00	<0.5	84	81	<0.5			<0.5		172.0	172.0	4.5	100.00	0.13	<0.005	<0.02	<0.02	<0.5	8.0	7.7	7.0	92.00	5	2.30	<1.0	0.70
R8	**10/19/2010**	92.00	<0.5	98	101	<0.5			<0.5		191.0	193.0	2.0	110.00	0.04	<0.005	0.06	0.06	<0.5	8.0	7.8	7.8	100.00	0	1.50	<1.0	1.10
R8	**11/10/2010**	110.00	<0.5	120	115	0.60			<0.5		229.0	195.0	1.6	140.00	<0.005	<0.005	0.09	0.09	<0.5	8.0	7.8	8.9	130.00	0	1.80	2	1.10
R8	**12/1/2010**	120.00	<0.5	116	117	<0.5			<0.5		233.0	100.0	<0.5	140.00	<0.05	<0.005	0.10	0.10	<0.5	8.1	7.3	9.8	120.00	0	<0.5	<4.0	0.86
R8 Average		99.25	0	100	101	0.31			0.25		197.3	170.8	3.0	121.00	0.03	0.00	0.07	0.07	0	8.0	7.6	7.5	113.17	3	2.60	2	0.96
R8 Max		140.00	<0.5	143	144	0.60			<0.5		274.0	244.0	14.6	170.00	0.13	<0.005	0.10	0.10	<0.5	8.2	8.1	11.0	170.00	11	12.10	5	1.10
R8 Min		44.00	<0.5	48	49	<0.5			<0.5		89.0	87.0	<0.5	54.00	<0.005	<0.005	<0.02	<0.02	<0.5	7.7	6.9	<0.5	64.00	0	<0.5	<1.0	0.70
R8 N > DL		12	0	12	12	2	0	0	0	0	12	12	11	12	5	0	3	3	0	12	12	11	12	12	11	5	4
R8 Median		101.00	<0.5	107	108	<0.5			<0.5		210.0	185.0	1.8	125.00	0.03	<0.005	0.08	0.08	<0.5	8.0	7.7	8.4	110.00	1	1.65	1	0.98
R9	**1/11/2010**	130.00	<0.5	147	143	<0.5			<0.5		279.0	272.0	1.2	150.00	0.02				<0.5	7.8	7.1	21.0	190.00	0	1.10	<1.0	
R9	**2/23/2010**	140.00	<0.5	150	146	<0.5			<0.5		289.0	250.0	1.3	170.00	<0.01				<0.5	8.1	7.7	18.0	160.00	0	1.50	<1.0	
R9	**3/10/2010**	140.00	<0.5	143	151	<0.5			<0.5		293.0	262.0	1.4	170.00	<0.01				<0.5	8.1	7.9	19.0	150.00	1	1.30	<1.0	
R9	**4/11/2010**	140.00	<0.5	155	150	<0.5			<0.5		292.0	230.0	1.0	170.00	<0.01				<0.5	8.1	7.8	17.0	160.00	1	1.10	<1.0	
R9	**5/3/2010**	54.00	<0.5	50	58	0.70			<0.5		108.0	95.0	14.3	65.00	0.10				<0.5	7.7	7.8	<0.5	94.00	1	10.80	3	
R9	**6/5/2010**	48.00	<0.5	53	54	<0.5			<0.5		97.0	101.0	3.0	59.00	<0.05				<0.5	7.7	8.1	6.0	58.00	5	3.20	2	
R9	**7/8/2010**	47.00	<0.5	64	58	<0.5			<0.5		<1.0	127.0	3.2	57.00	<0.05				<0.5	7.9	8.0	7.9	78.00	12	3.40	3	
R9	**8/3/2010**	91.00	<0.5	89	91	<0.5			<0.5		190.0	194.0	2.4	110.00	<0.05				<0.5	8.2	7.5	9.3	100.00	12	2.00	<1.0	
R9	**9/1/2010**	86.00	<0.5	91	92	<0.5			<0.5		197.0	187.0	1.9	100.00	0.13	<0.005	0.04	0.04	<0.5	7.9	7.8	11.0	110.00	6	1.70	<1.0	0.70
R9	**10/19/2010**	96.00	<0.5	108	113	<0.5			<0.5		213.0	211.0	1.7	120.00	0.02	<0.005	0.13	0.13	<0.5	8.0	7.6	14.0	110.00	1	1.40	<1.0	1.00
R9	**11/10/2010**	110.00	<0.5	131	125	0.60			<0.5		254.0	254.0	2.1	140.00	<0.005	<0.005	0.19	0.19	<0.5	8.0	7.9	18.0	130.00	0	2.80	<1.0	0.70
R9	**12/1/2010**	110.00	<0.5	129	130	<0.5			<0.5		260.0	120.0	<0.5	140.00	<0.05	<0.005	0.19	0.19	<0.5	7.9	7.5	19.0	140.00	0	<0.5	<4.0	1.00
R9 Average		99.33	0	109	109	0.32			0.25		206.0	191.9	2.8	120.92	0.03	0.00	0.14	0.14	0	7.9	7.7	13.4	123.33	3	2.55	1	0.81
R9 Max		140.00	<0.5	155	151	0.70			<0.5		293.0	272.0	14.3	170.00	0.13	<0.005	0.19	0.19	<0.5	8.2	8.1	21.0	190.00	12	10.80	<4.0	1.00
R9 Min		47.00	<0.5	50	54	<0.5			<0.5		<1.0	95.0	<0.5	57.00	<0.005	<0.005	0.04	0.04	<0.5	7.7	7.1	<0.5	58.00	0	<0.5	<1.0	0.70
R9 N > DL		12	0	12	12	2	0	0	0	0	11	12	11	12	4	0	4	4	0	12	12	11	12	12	11	3	4
R9 Median		103.00	<0.5	119	119	<0.5			<0.5		233.5	202.5	1.8	130.00	0.02	<0.005	0.16	0.16	<0.5	8.0	7.8	15.5	120.00	1	1.60	<1.0	0.85

Table C-1: Rose Creek Drainage Water Quality
2010 - Surface Water - General Parameters

Station	Date	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TDS mg/L	TEMP-F °C	TOC mg/L	TSS mg/L	TURB NTU
RCSG#4	**1/12/2010**	140.00	<0.5	159	155	<0.5			<0.5	10.00	313.0	310.0	1.5	160.00	0.03				<0.5	7.9	7.2	28.0	180.00	0	1.40	<1.0	1.80
RCSG#4	**3/10/2010**	140.00	<0.5	158	164	4.10			<0.5		320.0	285.0	1.9	170.00	0.02				<0.5	8.0	7.8	31.0	210.00	1	1.50	<1.0	
RCSG#4	**4/13/2010**	150.00	<0.5	149	151	<0.5			<0.5		331.0	300.0	0.9	180.00	0.05				<0.5	7.8	7.4	28.0	170.00	4	1.10	<1.0	
RCSG#4	**5/3/2010**	59.00	<0.5	65	69	<0.5			<0.5		130.0	115.0	10.6	72.00	<0.005				<0.5	7.8	7.6	7.9	88.00	1	12.30	7	
RCSG#4	**6/4/2010**	40.00	<0.5	49	50	<0.5			<0.5		92.0	92.0	2.5	49.00	<0.05				<0.5	7.6	7.8	8.2	66.00	6	2.60	4	
RCSG#4	**7/8/2010**	58.00	<0.5	63	61	<0.5			<0.5		126.0	126.0	2.9	71.00	<0.05				<0.5	7.8	7.9	11.0	74.00	13	3.80	2	
RCSG#4	**8/3/2010**	88.00	<0.5	98	94	<0.5			<0.5		200.0	207.0	2.4	110.00	<0.05				<0.5	8.0	7.5	17.0	120.00	13	1.80	<1.0	
RCSG#4 Average		96.43	0	106	106	0.80			0.25	10.00	216.0	205.0	3.2	116.00	0.03				0	7.8	7.6	18.7	129.71	6	3.50	2	1.80
RCSG#4 Max		150.00	<0.5	159	164	4.10			<0.5	10.00	331.0	310.0	10.6	180.00	<0.05				<0.5	8.0	7.9	31.0	210.00	13	12.30	7	1.80
RCSG#4 Min		40.00	<0.5	49	50	<0.5			<0.5	10.00	92.0	92.0	0.9	49.00	<0.005				<0.5	7.6	7.2	7.9	66.00	0	1.10	<1.0	1.80
RCSG#4 N > DL		7	0	7	7	1	0	0	0	1	7	7	7	7	3	0	0	0	0	7	7	7	7	7	7	3	1
RCSG#4 Median		88.00	<0.5	98	94	<0.5			<0.5	10.00	200.0	207.0	2.4	110.00	<0.05				<0.5	7.8	7.6	17.0	120.00	4	1.80	<1.0	1.80
W10	**5/3/2010**	38.00	<0.5	39	37	<0.5			<0.5		77.0	109.0	12.1	46.00	0.04				<0.5	7.7	7.7	<0.5	50.00	1	11.20	<1.0	
W10	**6/5/2010**	38.00	<0.5	36	34	<0.5			<0.5		75.0	68.0	5.2	46.00	<0.05				<0.5	7.6	7.8	1.9	60.00	2	5.00	<1.0	
W10	**7/10/2010**	52.00	<0.5	45	52	<0.5			<0.5		103.0	101.0	4.1	64.00	<0.05				<0.5	7.7	8.1	1.0	40.00	6	4.00	<1.0	
W10 Average		42.67	0	40	41	0.25			0.25		85.0	92.7	7.1	52.00	0.03				0	7.7	7.9	1.1	50.00	3	6.73	1	
W10 Max		52.00	<0.5	45	52	<0.5			<0.5		103.0	109.0	12.1	64.00	<0.05				<0.5	7.7	8.1	1.9	60.00	6	11.20	<1.0	
W10 Min		38.00	<0.5	36	34	<0.5			<0.5		75.0	68.0	4.1	46.00	0.04				<0.5	7.6	7.7	<0.5	40.00	1	4.00	<1.0	
W10 N > DL		3	0	3	3	0	0	0	0	0	3	3	3	3	1	0	0	0	0	3	3	2	3	3	3	0	0
W10 Median		38.00	<0.5	39	37	<0.5			<0.5		77.0	101.0	5.2	46.00	<0.05				<0.5	7.7	7.8	1.0	50.00	2	5.00	<1.0	
W8	**6/17/2010**	55.00	<0.5	54	52	<0.5			<0.5		116.0	106.0	3.0	67.00	<0.1				<0.5	7.8	7.7	8.6	68.00	2	3.40	4	
X10	**1/11/2010**	140.00	<0.5	165	166	<0.5			<0.5		326.0	286.0	1.0	170.00	<0.01				<0.5	8.0	7.1	26.0	220.00	1	0.80	<1.0	0.80
X10	**2/22/2010**	150.00	<0.5	167	165	<0.5			<0.5		329.0	280.0	1.3	180.00	<0.01				<0.5	8.0	7.5	30.0	220.00	0	1.30	<1.0	0.50
X10	**3/10/2010**	150.00	<0.5	163	161	<0.5			<0.5		334.0	292.0	1.4	180.00	<0.01				<0.5	8.1	7.5	26.0	210.00	1	1.60	<1.0	
X10	**4/13/2010**	150.00	<0.5	162	157	<0.5			<0.5		340.0	310.0	1.0	180.00	<0.01				<0.5	7.9	7.6	30.0	200.00	1		<1.0	
X10	**5/3/2010**	59.00	<0.5	66	68	<0.5			<0.5		129.0	112.0	11.7	72.00	<0.01				<0.5	7.8	7.8	9.4	74.00	1	11.20	5	
X10	**6/4/2010**	45.00	<0.5	54	54	<0.5			<0.5		99.0	111.0	2.8	55.00	<0.05				<0.5	7.8	8.1	9.0	62.00	7	2.50	3	
X10	**7/8/2010**	62.00	<0.5	69	60	<0.5			<0.5		134.0	128.0	3.0	75.00	<0.05				<0.5	8.0	8.1	12.0	82.00	14	2.90	2	
X10	**8/3/2010**	95.00	<0.5	95	97	<0.5			<0.5		205.0	205.0	2.4	120.00	<0.05				<0.5	8.2	8.0	17.0	120.00	14	2.30	<1.0	
X10	**9/2/2010**	88.00	<0.5	100	101	<0.5			<0.5		196.0	194.0	2.7	110.00	0.12	<0.005	<0.02	<0.02	<0.5	8.0	7.4	17.0	120.00	5	3.00	<1.0	0.70
X10	**10/21/2010**	110.00	<0.5	123	122	<0.5			<0.5		257.0	244.0	2.0	140.00	0.06	<0.005	0.09	0.09	<0.5	8.2	7.9	24.0	150.00	0	1.70	10	1.70
X10	**11/9/2010**	120.00	<0.5	135	134	<0.5			<0.5		274.0	268.0	1.7	140.00	0.04	<0.005	0.16	0.16	<0.5	8.2	7.5	25.0	170.00	0	2.40	<4.0	1.40
X10	**12/1/2010**	120.00	<0.5	137	138	<0.5			<0.5		275.0	240.0	2.0	150.00	<0.05	<0.005	0.17	0.17	<0.5	8.0	7.9	27.0	140.00	0	1.90	<4.0	1.05
X10 Average		107.42	0	120	119	0.25			0.25		241.5	222.5	2.8	131.00	0.03	0.00	0.11	0.11	0	8.0	7.7	21.0	147.33	4	2.87	2	1.02
X10 Max		150.00	<0.5	167	166	<0.5			<0.5		340.0	310.0	11.7	180.00	0.12	<0.005	0.17	0.17	<0.5	8.2	8.1	30.0	220.00	14	11.20	10	1.70
X10 Min		45.00	<0.5	54	54	<0.5			<0.5		99.0	111.0	1.0	55.00	<0.01	<0.005	<0.02	<0.02	<0.5	7.8	7.1	9.0	62.00	0	0.80	<1.0	0.50
X10 N > DL		12	0	12	12	0	0	0	0	0	12	12	12	12	3	0	3	3	0	12	12	12	12	12	11	4	6
X10 Median		115.00	<0.5	129	128	<0.5			<0.5		265.5	242.0	2.0	140.00	<0.01	<0.005	0.13	0.13	<0.5	8.0	7.7	24.5	145.00	1	2.30	1	0.93

Denison Environmental Services

Table C-1: Rose Creek Drainage Water Quality
2010 - Surface Water - General Parameters

Faro Mine Closure

Station	Date	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TDS mg/L	TEMP-F °C	TOC mg/L	TSS mg/L	TURB NTU
X14	1/11/2010	190.00	<0.5	378	379	0.60			<0.5		741.0	624.0	1.4	230.00	0.10				<0.5	8.0	6.8	200.0	540.00	<0.0	1.60	2	2.70
X14	2/22/2010	190.00	<0.5	425	420	0.80			<0.5		765.0	720.0	1.3	230.00	0.10				<0.5	8.0	6.9	220.0	580.00	1	1.50	<1.0	3.20
X14	3/10/2010	190.00	<0.5	458	445	0.90		<0.0005	<0.5	<5.0	837.0	757.0	1.3	230.00	0.10				<0.5	7.9	7.7	240.0	590.00	1	1.20	<1.0	4.30
X14	3/22/2010	200.00	<0.5	442	498	0.70		<0.0005	<0.5	<5.0	894.0	749.0	1.9	240.00	0.14				<0.5	8.2	7.5	260.0	660.00	1	1.50	<1.0	4.20
X14	3/30/2010	200.00	<0.5	588	591	<0.5	<0.0005	<0.0005	<0.5	20.00	1130.0	1030.0	2.2	250.00	0.28				<0.5	8.0	7.4	290.0	840.00	1	2.40	<1.0	3.80
X14	4/6/2010	210.00	<0.5	652	657	0.80			<0.5		1170.0	1100.0	1.3	260.00	0.29				<0.5	8.0	7.4	490.0	880.00	1	1.00	<1.0	
X14	4/13/2010	200.00	<0.5	588	575	0.60			<0.5	<5.0	1160.0	1027.0	1.2	240.00	0.27				<0.5	8.0	7.9	470.0	870.00	1	1.50	<1.0	2.50
X14	4/20/2010	140.00	<0.5	457	458	<0.5			<0.5	<5.0	873.0	1914.0	2.5	170.00	0.26				<0.5	8.0	7.4	360.0	620.00	3	3.10	20	10.00
X14	4/27/2010	86.00	<0.5	175	173	<0.5			<0.5	<5.0	362.0	357.0	5.4	110.00	0.13				<0.5	8.0	7.3	110.0	230.00	2	5.30	5	3.60
X14	5/4/2010	90.00	<0.5	296	265	0.60			<0.5	60.00	563.0	506.0	7.9	110.00	0.09				<0.5	8.0	7.5	230.0	410.00	1	8.90	2	2.50
X14	5/11/2010	91.00	<0.5	237	240	<0.5			<0.5	30.00	501.0	471.0	6.1	110.00	0.09				<0.5	8.0	7.7	180.0	360.00	0	5.30	4	2.50
X14	5/18/2010	73.00	<0.5	178	181	0.70			<0.5		382.0	360.0	7.4	89.00	0.07				<0.5	7.8	8.0	120.0	280.00	6	5.00	4	
X14	5/25/2010	51.00	<0.5	105	104	<0.5			<0.5	30.00	229.0	243.0	5.3	62.00	<0.005				<0.5	7.8	8.0	63.0	180.00	5	5.60	6	2.60
X14	6/1/2010	55.00	<0.5	141	132	<0.5			<0.5		309.0	345.0	2.4	67.00	<0.005				<0.5	7.3	8.1	99.0	230.00	9	2.70	2	
X14	6/8/2010	70.00	<0.5	177	177	<0.5			<0.5		376.0	380.0	3.1	86.00	0.02				<0.5	7.9	7.9	130.0	250.00	7	2.70	<1.0	
X14	6/15/2010	82.00	<0.5	209	211	<0.5			<0.5	15.00	446.0	420.0	3.1	100.00	0.06				<0.5	8.1	7.9	160.0	330.00	7	2.70	<1.0	0.70
X14	6/22/2010	81.00	<0.5	210	195	<0.5			<0.5	10.00	454.0	438.0	2.5	98.00	0.02				<0.5	8.1	7.8	150.0	310.00	10	2.30	<1.0	1.10
X14	6/29/2010	84.00	<0.5	248	258	<0.5			<0.5	<5.0	511.0	501.0	2.3	100.00	0.10				<0.5	8.0	7.4	180.0	370.00	9	1.50	<1.0	0.90
X14	6/29/2010	84.00	<0.5	255	256	<0.5			<0.5	10.00	510.0	501.0	2.5	100.00	0.14				<0.5	7.9	7.4	180.0	350.00	9	2.70	<1.0	0.90
X14	7/6/2010	67.00	<0.5	184	182	<0.5			<0.5		383.0	395.0	3.5	82.00	0.06				<0.5	7.8	8.0	130.0	250.00	10	3.70	<1.0	
X14	7/13/2010	80.00	<0.5	250	245	<0.5			<0.5		500.0	456.0	2.3	97.00	0.06				<0.5	7.8	8.2	170.0	340.00	9	2.40	<1.0	
X14	7/20/2010	96.00	<0.5	279	273	<0.5			<0.5		594.0	563.0	2.0	120.00	0.15				<0.5	8.0	7.8	180.0	410.00	16	2.70	<1.0	
X14	7/27/2010	97.00	<0.5	322	317	<0.5			<0.5	<5.0	637.0	606.0	3.0	120.00	0.16				<0.5	8.0	8.1	250.0	430.00	10	1.90	2	1.30
X14	8/3/2010	100.00	<0.5	152	145	<0.5			<0.5		311.0	338.0	1.8	130.00	<0.05				<0.5	8.1	8.0	56.0	210.00	14	4.30	2	0.80
X14	8/10/2010	100.00	<0.5	329	318	0.70			<0.5	10.00	638.0	658.0	2.2	120.00	0.19				<0.5	7.8	7.9	220.0	440.00	10	2.30	<4.0	1.40
X14	8/17/2010	110.00	<0.5	307	333	<0.5			<0.5		660.0	614.0	2.4	130.00	0.35				<0.5	8.1	7.9	270.0	460.00	12	2.00	<1.0	
X14	8/24/2010	94.00	<0.5	249	247	1.80			<0.5		496.0	423.0	2.5	110.00	0.07				<0.5	8.1	8.7	160.0	320.00	8	2.50	<1.0	
X14	8/31/2010	100.00	<0.5	296	314	<0.5			<0.5		610.0	650.0	3.7	120.00	0.11				<0.5	8.2	8.0	220.0	420.00	11	3.70	<1.0	
X14	9/7/2010	99.00	<0.5	226	229	0.70			<0.5		503.0	532.0	2.7	120.00	0.29	<0.005	0.06	0.06	<0.5	7.9	8.3	170.0	340.00	5	2.60	<1.0	
X14	10/21/2010	130.00	<0.5	228	222	<0.5			<0.5		471.0	426.0	2.3	160.00	0.11	<0.005	0.11	0.11	<0.5	8.1	7.8	110.0	290.00	1	1.70	<1.0	1.80
X14	11/9/2010	140.00	<0.5	232	234	<0.5			<0.5		491.0	500.0	1.1	170.00	0.08	<0.005	0.14	0.14	<0.5	8.2	7.9	120.0	330.00	0	1.90	<4.0	1.90
X14	11/18/2010	170.00	<0.5	598	641	0.80			<0.5		1080.0	1010.0	1.7	210.00	0.20	<0.005	0.15	0.15	<0.5	8.1	7.8	420.0	800.00	2	1.30	6	3.18
X14	11/25/2010	170.00	<0.5	494	546	0.70			<0.5		1020.0	1008.0	1.9	200.00	0.16	<0.005	0.15	0.15	<0.5	7.7	8.2	390.0	780.00	1	2.00	<4.0	2.50
X14	12/2/2010	170.00	<0.5	520	544	0.60			<0.5		984.0	1000.0	1.8	200.00	0.16	<0.005	0.16	0.16	<0.5	8.0	7.7	380.0	690.00	0	1.80	<1.0	2.21
X14 Average		120.29	0	320	324	0.47	0.00	0	0.25	13.50	635.0	635.9	2.8	146.21	0.13	0.00	0.13	0.13	0	8.0	7.8	217.0	452.65	5	2.80	2	2.59
X14 Max		210.00	<0.5	652	657	1.80	<0.0005	<0.0005	<0.5	60.00	1170.0	1914.0	7.9	260.00	0.35	<0.005	0.16	0.16	<0.5	8.2	8.7	490.0	880.00	16	8.90	20	10.00
X14 Min		51.00	<0.5	105	104	<0.5	<0.0005	<0.0005	<0.5	<5.0	229.0	243.0	1.1	62.00	<0.005	<0.005	0.06	0.06	<0.5	7.3	6.8	56.0	180.00	<0.0	1.00	<1.0	0.70
X14 N > DL		34	0	34	34	14	0	0	0	8	34	34	34	34	31	0	6	6	0	34	34	34	34	33	34	11	23
X14 Median		99.50	<0.5	267	262	<0.5	<0.0005	<0.0005	<0.5	10.00	537.0	519.0	2.4	120.00	0.14	<0.005	0.15	0.15	<0.5	8.0	7.8	180.0	390.00	5	2.40	<1.0	2.50
X2	1/11/2010	130.00	<0.5	156	158	<0.5			<0.5		305.0	266.0	1.5	160.00	<0.01				<0.5	7.5	6.9	29.0	190.00	<0.0	1.30	<1.0	
X2	2/22/2010	140.00	<0.5	170	164	<0.5			<0.5		322.0	288.0	0.9	170.00	<0.01				<0.5	7.8	7.3	28.0	240.00	1	1.40	<1.0	
X2	3/10/2010	140.00	<0.5	160	156	<0.5			<0.5		318.0	132.0	1.1	170.00	<0.01				<0.5	7.8	7.3	31.0	190.00	2	1.20	<1.0	
X2	4/14/2010	140.00	<0.5	154	159	<0.5			<0.5		352.0	290.0	2.1	170.00	<0.01				<0.5	8.2	7.0	28.0	150.00	3	1.60	<1.0	
X2	5/3/2010	52.00	<0.5	56	59	0.60			<0.5		113.0	188.0	14.5	63.00	0.02				<0.5	7.7	7.5	4.5	68.00	1	13.30	4	
X2	6/4/2010	38.00	<0.5	48	48	<0.5			<0.5		92.0	94.0	2.8	47.00	<0.05				<0.5	7.6	7.8	6.6	54.00	6	3.20	4	
X2	7/8/2010	65.00	<0.5	65	63	<0.5			<0.5		139.0	131.0	3.1	80.00	0.09				<0.5	7.9	7.8	15.0	80.00	11	3.40	2	
X2	8/3/2010	95.00	<0.5	97	92	<0.5			<0.5		201.0	197.0	2.7	120.00	<0.05				<0.5	8.2	7.7	15.0	110.00	12	3.00	<1.0	
X2	9/2/2010	88.00	<0.5	92	106	<0.5			<0.5		208.0	189.0	2.2	110.00	0.17	<0.005	0.04	0.04	<0.5	8.0	7.4	13.0	120.00	5	2.00	<1.0	0.80
X2	10/18/2010	99.00	<0.5	115	109	<0.5			<0.5		226.0	220.0	1.2	120.00	0.04	<0.005	0.15	0.15	<0.5	8.0	7.6	19.0	130.00	1	2.00	<1.0	1.10
X2	11/9/2010	110.00	<0.5	127	127	<0.5			<0.5		268.0	258.0	2.0	140.00	0.03	<0.005	0.19	0.19	<0.5	8.1	8.0	25.0	160.00	0	1.70	<4.0	1.20
X2	12/1/2010	120.00	<0.5	138	138	<0.5			<0.5		271.0	130.0	1.6	140.00	<0.05	<0.005	0.21	0.21	<0.5	7.9	7.2	29.0	140.00	0	2.20	<4.0	1.10
X2 Average		101.42	0	115	115	0.28			0.25		234.6	198.6	3.0	124.17	0.04	0.00	0.15	0.15	0	7.9	7.5	20.3	136.00	3	3.03	1	1.01
X2 Max		140.00	<0.5	170	164	0.60			<0.5		352.0	290.0	14.5	170.00	0.17	<0.005	0.21	0.21	<0.5	8.2	8.0	31.0	240.00	12	13.30	<4.0	1.20
X2 Min		38.00	<0.5	48	48	<0.5			<0.5		92.0	94.0	0.9	47.00	<0.01	<0.005	0.04	0.04	<0.5	7.5	6.9	4.5	54.00	<0.0	1.20	<1.0	0.80
X2 N > DL		12	0	12	12	1	0	0	0	0	12	12	12	12	5	0	4	4	0	12	12	12	12	11	12	3	4
X2 Median		104.50	<0.5	121	118	<0.5			<0.5		247.0	193.0	2.1	130.00	0.04	<0.005	0.17	0.17	<0.5	7.9	7.4	22.0	135.00	1	2.00	<1.0	1.10

Denison Environmental Services

Table C-1: Rose Creek Drainage Water Quality
2010 - Surface Water - General Parameters

Faro Mine Closure

Station	Date	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TDS mg/L	TEMP-F °C	TOC mg/L	TSS mg/L	TURB NTU
X22b	**1/11/2010**	91.00	<0.5	780	738	4.30			<0.5		1360.0	1146.0		110.00	0.86				<0.5	7.5	6.4	680.0	1200.00	<0.0		<1.0	
X22b	**2/22/2010**	88.00	<0.5	674	703	1.00			<0.5		1290.0	1210.0		110.00	0.82				<0.5	7.5	7.4	590.0	1100.00	1		<1.0	
X22b	**3/10/2010**	89.00	<0.5	644	667	1.10			<0.5		1270.0	1171.0		110.00	0.84				<0.5	7.6	7.0	630.0	1000.00	1		<1.0	
X22b	**4/13/2010**	110.00	<0.5	633	607	0.80			<0.5		1280.0	1230.0		130.00	1.10				<0.5	7.3	6.9	610.0	950.00	1	1.00	<1.0	
X22b	**5/3/2010**	20.00	<0.5	158	161	<0.5			<0.5		369.0	344.0		25.00	0.33				<0.5	7.4	7.2	150.0	230.00	1		<1.0	
X22b	**6/4/2010**	80.00	<0.5	699	688	0.90			<0.5		1200.0	1178.0		97.00	0.82				<0.5	7.5	7.1	580.0	1000.00	10		<1.0	
X22b	**7/10/2010**	77.00	<0.5	648	654	0.70			<0.5		1230.0	1163.0		94.00	0.78				<0.5	7.4	7.3	580.0	920.00	14		<1.0	
X22b	**8/3/2010**	73.00	<0.5	645	654	1.10			<0.5		1240.0	1215.0		89.00	0.86				<0.5	7.6	6.6	570.0	1000.00	15		<1.0	
X22b	**9/1/2010**	81.00	<0.5			1.00			<0.5		1270.0	1222.0		99.00	1.40	0.01	0.52	0.51	<0.5	7.6	7.3	690.0	1000.00	13		<1.0	
X22b	**10/20/2010**	79.00	<0.5	697	709	1.40			<0.5		1310.0	1328.0		97.00	1.20	0.01	0.52	0.51	<0.5	7.7	6.3	710.0	1000.00	3		<1.0	
X22b	**11/8/2010**	85.00	<0.5	687	677	3.50			<0.5		1340.0	1190.0		100.00	1.10	0.01	0.48	0.47	<0.5	7.7	7.5	710.0	1100.00	1		<4.0	
X22b	**12/1/2010**	86.00	<0.5	708		1.70			<0.5		1350.0	1340.0		110.00	1.20	0.01	0.48	0.47	<0.5	7.6	6.9	710.0	1000.00	0		<4.0	
X22b Average		79.92	0	634	626	1.48			0.25		1209.1	1144.8		97.58	0.94	0.01	0.50	0.49	0	7.5	7.0	600.8	958.33	5	1.00	1	
X22b Max		110.00	<0.5	780	738	4.30			<0.5		1360.0	1340.0		130.00	1.40	0.01	0.52	0.51	<0.5	7.7	7.5	710.0	1200.00	15	1.00	<4.0	
X22b Min		20.00	<0.5	158	161	<0.5			<0.5		369.0	344.0		25.00	0.33	0.01	0.48	0.47	<0.5	7.3	6.3	150.0	230.00	<0.0	1.00	<1.0	
X22b N > DL		12	0	11	10	11	0	0	0	0	12	12	0	12	12	4	4	4	0	12	12	12	12	11	1	0	0
X22b Median		83.00	<0.5	674	672	1.05			<0.5		1275.0	1200.0		99.50	0.86	0.01	0.50	0.49	<0.5	7.6	7.1	620.0	1000.00	1	1.00	<1.0	
X3	**1/11/2010**	130.00	<0.5	154	157	<0.5			<0.5		303.0	266.0	1.4	160.00	0.03				<0.5	7.6	6.9	28.0	190.00	<0.0	1.20	<1.0	
X3	**2/22/2010**	140.00	<0.5	164	163	1.70			<0.5		314.0	292.0	1.4	170.00	<0.01				<0.5	7.9	7.4	28.0	180.00	1	1.20	<1.0	
X3	**3/9/2010**	140.00	<0.5	162	161	<0.5			<0.5		316.0	260.0	1.3	170.00	<0.01				<0.5	7.9	7.4	30.0	200.00	1	0.90	<1.0	
X3	**4/14/2010**	150.00	<0.5	152	163	<0.5			<0.5		327.0	290.0	1.7	180.00	0.05				<0.5	8.2	7.0	30.0	170.00	1	1.80	<1.0	
X3	**5/3/2010**	52.00	<0.5	61	63	<0.5			<0.5		117.0	114.0	11.6	64.00	0.08				<0.5	7.4	7.7	5.4	72.00	1	11.90	8	
X3	**6/4/2010**	40.00	<0.5	45	45	<0.5			<0.5		84.0	86.0	2.3	48.00	0.77				<0.5	7.7	7.8	6.3	54.00	8	2.60	5	
X3	**7/8/2010**	54.00	<0.5	56	52	<0.5			<0.5		118.0	111.0	3.1	65.00	<0.05				<0.5	7.9	7.9	11.0	70.00	13	2.90	<1.0	
X3	**8/3/2010**	87.00	<0.5	111	85	<0.5			<0.5		189.0	183.0	2.0	110.00	<0.05				<0.5	8.2	7.9	14.0	120.00	14	2.50	<1.0	
X3	**9/2/2010**	83.00	<0.5	89	94	<0.5			<0.5		186.0	205.0	2.7	100.00	0.19	<0.005	0.03	0.03	<0.5	8.0	7.3	13.0	110.00	5	2.30	<1.0	0.70
X3	**10/21/2010**	98.00	<0.5	112	114	<0.5			<0.5		234.0	225.0	1.9	120.00	0.07	<0.005	0.08	0.08	<0.5	8.1	7.6	20.0	130.00	0	1.70	<1.0	0.80
X3	**11/9/2010**	110.00	<0.5	131	124	<0.5			<0.5		258.0	256.0	1.8	130.00	0.02	<0.005	0.16	0.16	<0.5	8.1	7.9	24.0	170.00	0	2.00	<4.0	1.00
X3	**12/1/2010**	110.00	<0.5	127	129	<0.5			<0.5		259.0	230.0	2.0	140.00	<0.05	<0.005	0.17	0.17	<0.5	8.0	7.6	27.0	130.00	1	2.00	<4.0	0.90
X3 Average		99.50	0	114	113	0.37			0.25		225.4	209.8	2.8	121.42	0.11	0.00	0.11	0.11	0	7.9	7.5	19.7	133.00	4	2.75	2	0.80
X3 Max		150.00	<0.5	164	163	1.70			<0.5		327.0	292.0	11.6	180.00	0.77	<0.005	0.17	0.17	<0.5	8.2	7.9	30.0	200.00	14	11.90	8	1.00
X3 Min		40.00	<0.5	45	45	<0.5			<0.5		84.0	86.0	1.3	48.00	<0.01	<0.005	0.03	0.03	<0.5	7.4	6.9	5.4	54.00	<0.0	0.90	<1.0	0.70
X3 N > DL		12	0	12	12	1	0	0	0	0	12	12	12	12	7	0	4	4	0	12	12	12	12	11	12	2	4
X3 Median		104.00	<0.5	120	119	<0.5			<0.5		246.0	227.5	2.0	125.00	<0.05	<0.005	0.12	0.12	<0.5	7.9	7.6	22.0	130.00	1	2.00	<1.0	0.85
X3A	**9/2/2010**	86.00	<0.5	93	95	<0.5			<0.5		206.0	192.0	2.7	110.00	0.17	<0.005	0.03	0.03	<0.5	8.0	7.5	14.0	110.00	5	2.50	<1.0	
X3A	**10/21/2010**	110.00	<0.5	117	119	<0.5			<0.5		244.0	268.0	1.9	130.00	0.08	<0.005	0.08	0.08	<0.5	8.1	7.8	20.0	140.00	0	1.90	<1.0	0.70
X3A	**11/9/2010**	110.00	<0.5	126	131	<0.5			<0.5		264.0	266.0	1.7	140.00	0.03	<0.005	0.15	0.15	<0.5	8.1	8.0	25.0	160.00	0	2.30	<4.0	3.30
X3A	**12/1/2010**	110.00	<0.5	133	130	<0.5			<0.5		263.0	240.0	2.0	140.00	<0.05	<0.005	0.17	0.17	<0.5	8.0	7.8	26.0	150.00	0	2.40	<4.0	0.94
X3A Average		104.00	0	117	119	0.25			0.25		244.3	241.5	2.1	130.00	0.08	0.00	0.11	0.11	0	8.1	7.8	21.3	140.00	1	2.28	1	1.57
X3A Max		110.00	<0.5	133	131	<0.5			<0.5		264.0	268.0	2.7	140.00	0.17	<0.005	0.17	0.17	<0.5	8.1	8.0	26.0	160.00	5	2.50	<4.0	3.30
X3A Min		86.00	<0.5	93	95	<0.5			<0.5		206.0	192.0	1.7	110.00	0.03	<0.005	0.03	0.03	<0.5	8.0	7.5	14.0	110.00	0	1.90	<1.0	0.70
X3A N > DL		4	0	4	4	0	0	0	0	0	4	4	4	4	3	0	4	4	0	4	4	4	4	4	4	0	3
X3A Median		110.00	<0.5	122	125	<0.5			<0.5		253.5	253.0	2.0	135.00	0.05	<0.005	0.12	0.12	<0.5	8.1	7.8	22.5	145.00	0	2.35	1	0.94

Denison Environmental Services

Table C-1: Rose Creek Drainage Water Quality
2010 - Surface Water - General Parameters

Faro Mine Closure

Station	Date	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TDS mg/L	TEMP-F °C	TOC mg/L	TSS mg/L	TURB NTU
X4	1/11/2010	<0.5	<0.5	1110	1090	1.50			<0.5		2210.0	1791.0		<0.5	0.21				<0.5	3.4	3.0	1200.0	2000.00	<0.0		3	
X4	2/22/2010	<0.5	<0.5	1020	884	2.30			<0.5		1970.0	1820.0		<0.5	0.36				<0.5	4.0	4.8	1200.0	1800.00	<0.0		13	
X4	3/9/2010	35.00	<0.5	626	661	0.80			<0.5		1390.0	1350.0		43.00	0.15				<0.5	6.5	6.4	730.0	1200.00	1		37	
X4	4/13/2010	32.00	<0.5	614	553	3.90			<0.5		1340.0	1350.0		38.00	0.20				<0.5	6.1	6.4	690.0	1000.00	1		17	
X4	5/3/2010	<0.5	<0.5	419	438	<0.5			<0.5		1010.0	877.0		<0.5	0.03				<0.5	4.7	4.5	550.0	790.00	3		4	
X4	6/4/2010	<0.5	<0.5	915	920	0.70			<0.5		1940.0	1868.0		<0.5	0.22				<0.5	3.2	3.1	1000.0	1800.00	12		4	
X4	7/10/2010	<0.5	<0.5	839	957	0.80			<0.5		1930.0	1871.0		<0.5	0.33				<0.5	3.3	3.1	1100.0	1700.00	17		14	
X4	8/3/2010	<0.5	<0.5	902	812	1.20			<0.5		1950.0	2020.0		<0.5	0.43				<0.5	3.4	4.6	1100.0	1700.00	19		3	
X4	9/2/2010	<0.5	<0.5			<0.5			<0.5		1880.0	1752.0		<0.5	0.59	<0.005	0.06	0.06	<0.5	3.5	4.7	1100.0	1800.00	9		3	
X4	10/20/2010	1.80	<0.5	695	773	1.40			<0.5		1590.0	1511.0		2.20	0.26	<0.005	0.04	0.04	<0.5	5.6	6.7	1000.0	1400.00	0		33	
X4	11/8/2010	<0.5	<0.5	860	867	2.20			<0.5		1860.0	1632.0		<0.5	0.24	<0.005	0.06	0.06	<0.5	3.7	4.5	1100.0	1600.00	0		5	
X4	12/1/2010	13.00	<0.5	641		<0.5			<0.5		1310.0	1429.0		16.00	0.29	0.01	0.08	0.07	<0.5	6.3	6.4	800.0	1100.00	0		19	
X4 Average		6.98	0	786	796	1.30			0.25		1698.3	1605.9		8.43	0.28	0.00	0.06	0.06	0	4.5	4.8	964.2	1490.83	5		13	
X4 Max		35.00	<0.5	1110	1090	3.90			<0.5		2210.0	2020.0		43.00	0.59	0.01	0.08	0.07	<0.5	6.5	6.7	1200.0	2000.00	19		37	
X4 Min		<0.5	<0.5	419	438	<0.5			<0.5		1010.0	877.0		<0.5	0.03	<0.005	0.04	0.04	<0.5	3.2	3.0	550.0	790.00	<0.0		3	
X4 N > DL		4	0	11	10	9	0	0	0	0	12	12	0	4	12	1	4	4	0	12	12	12	12	10	0	12	0
X4 Median		<0.5	<0.5	839	840	1.00			<0.5		1870.0	1692.0		<0.5	0.25	<0.005	0.06	0.06	<0.5	3.9	4.6	1050.0	1650.00	1		9	
X5	3/22/2010	240.00	<0.5	1160	1290	1.80		<0.0005	<0.5	<5.0	1810.0	1580.0		300.00	0.73				<0.5	8.1	7.1	850.0	1500.00	1		<1.0	2.80
X5	3/30/2010	230.00	<0.5	1030	1050	1.10	<0.0005	0.0023	<0.5	10.00	1800.0	1700.0		290.00	0.75				<0.5	7.9	7.0	900.0	1600.00	2		<1.0	2.30
X5	4/6/2010	240.00	<0.5	1120	1090	1.50		<0.0005	<0.5	<5.0	1880.0	1720.0		300.00	0.73				<0.5	7.8	7.0	870.0	1600.00	1		<1.0	1.20
X5	4/13/2010	200.00	<0.5	1020	1020	1.20		0.0024	<0.5	<5.0	1840.0	1561.0		240.00	0.74				<0.5	7.6	7.4	950.0	1600.00	2		2	2.80
X5	4/20/2010	160.00	<0.5	1030	1120	0.90		0.0055	<0.5	<5.0	1820.0	1947.0		200.00	0.47				<0.5	7.7	6.9	1000.0	1600.00	4		<1.0	1.70
X5	4/27/2010	120.00	<0.5	845	809	0.90		0.0133	<0.5	<5.0	1450.0	1399.0		150.00	0.59				<0.5	7.9	7.2	800.0	1200.00	3		3	2.00
X5	5/4/2010	130.00	<0.5	953	885	1.10		0.0243	<0.5	<5.0	1620.0	1433.0		160.00	0.46				<0.5	7.9	7.1	960.0	1400.00	4		<1.0	0.70
X5	5/11/2010	110.00	<0.5	906	878	1.10		0.0192	<0.5	<5.0	1490.0	1390.0		130.00	0.43				<0.5	7.9	7.5	830.0	1300.00	5		<1.0	0.50
X5	5/18/2010	89.00	<0.5	803	772	1.00		0.0262	<0.5	<5.0	1350.0	1310.0		110.00	0.77				<0.5	8.0	7.4	720.0	1100.00	8		<1.0	0.70
X5	5/25/2010	110.00	<0.5	860	812	<0.5		0.0202	<0.5	<5.0	1430.0	1441.0		130.00	0.56				<0.5	7.9	7.5	720.0	1300.00	9		<1.0	0.80
X5	6/1/2010	140.00	<0.5	1020	937	1.20		0.0247	<0.5	<5.0	1670.0	1740.0		170.00	0.59				<0.5	8.1	7.5	880.0	1500.00	13		<1.0	0.60
X5	6/8/2010	130.00	<0.5	1010	1080	1.20		0.0337	<0.5	<5.0	1740.0	1664.0		160.00	0.67				<0.5	7.9	7.5	880.0	1600.00	12		<1.0	0.90
X5	6/15/2010	140.00	<0.5	1110	1050	1.40		0.0292	<0.5	<5.0	1760.0	1670.0		170.00	0.82				<0.5	8.2	7.5	1000.0	1200.00	11		<1.0	1.30
X5	6/15/2010											1670.0									7.5			11			
X5	6/22/2010	120.00	<0.5	1120	933	1.10		0.0243	<0.5	<5.0	1710.0	1605.0		150.00	0.08				<0.5	8.2	7.6	950.0	1500.00	14		<1.0	1.10
X5	6/29/2010	120.00	<0.5	1010	1040	1.00		0.0479	<0.5	<5.0	1770.0	1725.0		140.00	0.72				<0.5	7.8	6.8	970.0	1600.00	15		<1.0	2.50
X5	7/6/2010	33.00	<0.5	1170	1130	<0.5		0.0227	<0.5	<5.0	2280.0	1705.0		40.00	0.81				<0.5	7.9	7.6	1300.0	1600.00	14		3	2.30
X5	7/13/2010	110.00	<0.5	1080	1160	1.30		0.0220	<0.5	<5.0	1810.0	1567.0		140.00	0.80				<0.5	8.0	7.9	1000.0	1600.00	15		<1.0	1.30
X5	7/20/2010	120.00	<0.5	1050	1020	1.70		0.0317	<0.5	<5.0	1830.0	1674.0		150.00	0.79				<0.5	7.9	7.7	980.0	1600.00	16		2	1.70
X5	7/27/2010	110.00	<0.5	1060	1030	1.10		0.0254	<0.5	<5.0	1780.0	1589.0		130.00	0.75				<0.5	7.9	7.8	960.0	1600.00	15		2	2.50
X5	8/10/2010	95.00	<0.5	1100	1050	2.40		0.0316	<0.5	<5.0	1780.0	1806.0		120.00	0.80				<0.5	7.8	8.0	990.0	1500.00	15		<4.0	3.20
X5	8/17/2010	83.00	<0.5	829	1010	1.40		0.0268	<0.5	<5.0	1750.0	1594.0		100.00	0.77				<0.5	8.0	7.7	970.0	1500.00	17		2	3.20
X5	8/24/2010	88.00	<0.5	1010	1150	2.20		0.0496	<0.5	<5.0	1740.0	1266.0		110.00	0.80				<0.5	8.0	8.0	1100.0	1500.00	12		<1.0	3.80
X5	8/31/2010	87.00	<0.5	1020	1020	1.30		0.0387	<0.5	<5.0	1770.0	1860.0		110.00	1.00				<0.5	7.8	7.6	1100.0	1500.00	13		2	4.80
X5	9/7/2010	100.00	<0.5			1.90		0.0814	<0.5	<5.0	1840.0	1708.0		120.00	0.94	0.01	0.30	0.29	<0.5	7.8	7.7	1100.0	1600.00	8		2	5.60
X5	9/7/2010											1703.0									7.5			11			
X5	11/18/2010	240.00	<0.5			2.10		0.0117	<0.5	<5.0	2360.0	2219.0		300.00	0.85	0.01	0.17	0.17	<0.5	7.9	7.3	1300.0	2100.00	2		<4.0	6.78
X5	11/25/2010	260.00	<0.5	1430	1610	2.80		0.0064	<0.5	<5.0	2500.0	2414.0		320.00	0.96	<0.005	0.14	0.14	<0.5	7.4	7.6	1400.0	2300.00	3		<4.0	4.80
X5	12/2/2010											2590.0									6.9			3			
X5	12/2/2010	270.00	<0.5	1560	1590	2.30		0.0050	<0.5	<5.0	2470.0	2590.0		330.00	0.97	<0.005	0.13	0.13	<0.5	7.7	6.9	1400.0	2300.00	3		2	5.00
X5 Average		143.52	0	1052	1061	1.39	0.00	0.0232	0.25	2.78	1816.7	1728.0		176.67	0.72	0.01	0.19	0.18	0	7.9	7.4	995.6	1566.67	9		1	2.67
X5 Max		270.00	<0.5	1560	1610	2.80	<0.0005	0.0814	<0.5	10.00	2500.0	2590.0		330.00	1.00	0.01	0.30	0.29	<0.5	8.2	8.0	1400.0	2300.00	17		<4.0	6.78
X5 Min		33.00	<0.5	803	772	<0.5	<0.0005	<0.0005	<0.5	<5.0	1350.0	1266.0		40.00	0.08	<0.005	0.13	0.13	<0.5	7.4	6.8	720.0	1100.00	1		<1.0	0.50
X5 N > DL		27	0	25	25	25	0	25	0	1	27	30	0	27	27	2	4	4	0	27	30	27	27	30	0	9	27
X5 Median		120.00	<0.5	1030	1040	1.20	<0.0005	0.0243	<0.5	<5.0	1780.0	1672.0		150.00	0.75	0.00	0.16	0.16	<0.5	7.9	7.5	970.0	1600.00	10		<1.0	2.30

Table C-1: Rose Creek Drainage Water Quality
2010 - Surface Water - General Parameters

Station	Date	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TDS mg/L	TEMP-F °C	TOC mg/L	TSS mg/L	TURB NTU
X5P	1/11/2010	180.00	<0.5	1190	1170	1.70			<0.5		1860.0	1559.0		220.00	0.80				<0.5	7.6	6.6	1000.0	1600.00	<0.0		<1.0	
X5P	2/22/2010	250.00	<0.5	1080	1140	3.10			<0.5		1740.0	1569.0		300.00	0.71				<0.5	7.7	7.2	810.0	1600.00	2		2	
X5P	3/2/2010	250.00	<0.5	1090	1100	1.70			<0.5		1750.0	1420.0		310.00	0.70				<0.5	7.7	7.0	820.0	1500.00	0		2	
X5P	4/13/2010	150.00	<0.5	1020	973	1.30			<0.5		1780.0	1488.0		180.00	0.69				<0.5	7.5	7.8	940.0	1500.00	1		2	
X5P	5/3/2010	53.00	<0.5	468	490	<0.5			<0.5		877.0	744.0		64.00	0.24				<0.5	7.8	7.8	420.0	650.00	1		3	
X5P	6/4/2010	150.00	<0.5	1190	1170	1.00			<0.5		1740.0	1682.0		180.00	0.58				<0.5	7.7	7.1	920.0	1600.00	12		<1.0	
X5P	7/10/2010	110.00	<0.5	1090	1010	1.10			<0.5		1780.0	1680.0		130.00	0.69				<0.5	7.8	7.6	990.0	1500.00	16		4	
X5P	8/3/2010	110.00	<0.5	1060	990	1.30			<0.5		1800.0	1665.0		130.00	0.86				<0.5	8.0	7.2	950.0	1600.00	19		2	
X5P	9/2/2010	93.00	<0.5			0.80			<0.5		1760.0	1687.0		110.00	0.92	0.01	0.31	0.31	<0.5	7.8	7.5	1000.0	1500.00	5		2	5.10
X5P	10/20/2010	190.00	<0.5	1130	1180	2.00			<0.5		2070.0	1955.0		240.00	0.80	<0.005	0.22	0.22	<0.5	8.1	7.4	1200.0	1900.00	1		2	
X5P	11/8/2010	210.00	<0.5	1360	1290	5.00			<0.5		2150.0	1918.0		250.00	0.77	<0.005	0.24	0.24	<0.5	7.9	7.8	1200.0	1900.00	0		<4.0	
X5P	12/1/2010	250.00	<0.5	1340		1.70			<0.5		2130.0	2204.0		300.00	0.90	0.01	0.21	0.21	<0.5	8.0	7.5	1200.0	1900.00	0		<4.0	
X5P Average		166.33	0	1093	1051	1.75			0.25		1786.4	1630.9		201.17	0.72	0.00	0.25	0.25	0	7.8	7.4	954.2	1562.50	5		2	5.10
X5P Max		250.00	<0.5	1360	1290	5.00			<0.5		2150.0	2204.0		310.00	0.92	0.01	0.31	0.31	<0.5	8.1	7.8	1200.0	1900.00	19		<4.0	5.10
X5P Min		53.00	<0.5	468	490	<0.5			<0.5		877.0	744.0		64.00	0.24	<0.005	0.21	0.21	<0.5	7.5	6.6	420.0	650.00	<0.0		<1.0	5.10
X5P N > DL		12	0	11	10	11	0	0	0	0	12	12	0	12	12	2	4	4	0	12	12	12	12	11	0	8	1
X5P Median		165.00	<0.5	1090	1120	1.50			<0.5		1780.0	1672.5		200.00	0.74	0.00	0.23	0.23	<0.5	7.8	7.4	970.0	1600.00	1		2	5.10
X7	6/1/2010	38.00	<0.5	4770	4570	12.00			<0.5		8550.0	>3999.0		46.00	1.20				<0.5	5.4	5.6	9000.0	13000.00	3		89	
X7	10/6/2010	7.40	<0.5	4680	4480	9.20			<0.5		8490.0	>3999.0		9.10	4.20	<0.005	<0.02	<0.02	<0.5	5.2	5.4	9300.0	11000.00	4		100	
X7 Average		22.70	0	4725	4525	10.60			0.25		8520.0	>3999.0		27.55	2.70	0.00	0.01	0.01	0	5.3	5.5	9150.0	12000.00	4		95	
X7 N > DL		2	0	2	2	2	0	0	0	0	2	0	0	2	2	0	0	0	0	2	2	2	2	2	0	2	0

Table C-2: Rose Creek Drainage Water Quality
2010 - Surface Water - Dissolved Metals

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
ETA Combined	**9/2/2010**	0.2530	240.00	12.40	15.000	<50.0	0.36	<0.005	478.00	67.50	1130.0000	<0.1	74.3000	577000.00		16.10	0.154	793.00	92200.000	0.61	71.30	1050.000	3.3600	0.22	2020	0.0500	12200.00	0.17	3690.00	9.60	1.71	4.5500	<0.2	467000.000	0.20
ETA Combined	**10/20/2010**	<0.5	910.00	21.00	15.000	<5000.0	<1.0	<0.5	429.00	34.60	1060.0000	<10.0	41.0000	1090000.00		14.00	0.138	745.00	89400.000	<5.0	66.00	966.000	4.2000	<2.0	2310	<4.0	15600.00	<1.0	3840.00	<50.0	0.30	5.1000	<20.0	477000.000	<10.0
ETA Combined	**11/8/2010**	<0.5	979.00	27.00	21.000	<5000.0	<1.0	<0.5	416.00	9.50	1020.0000	<10.0	7.0000	1230000.00		13.00	0.124	695.00	90900.000	<5.0	70.00	946.000	12.1000	<2.0	2490	<4.0	15800.00	<1.0	3710.00	<50.0	0.40	4.9000	<20.0	473000.000	<10.0
ETA Combined	**12/1/2010**	0.2000	817.00	22.90	13.300	<1000.0	0.80	<0.1	425.00	8.00	1010.0000	<2.0	2.0000	1190000.00		13.00	0.130	709.00	88700.000	<1.0	71.00	850.000	3.2000	<0.4	2430	<0.8	15700.00	<0.2	3770.00	<10.0	0.27	4.5300	<4.0	441000.000	<2.0
ETA Combined Average		0.2383	736.50	20.83	16.075	1381.25	0.54	0.14	437.00	29.90	1055.0000	2.76	31.0750	1021750.00		14.03	0.137	735.50	90300.000	1.53	69.58	953.000	5.7150	0.61	2313	1.1125	14825.00	0.32	3752.50	16.15	0.67	4.7700	5.53	464500.000	2.80
ETA Combined Max		<0.5	979.00	27.00	21.000	<5,000.0	<1.0	<0.5	478.00	67.50	1130.0000	<10.0	74.3000	1230000.00		16.10	0.154	793.00	92200.000	<5.0	71.30	1050.000	12.1000	<2.0	2490	<4.0	15800.00	<1.0	3840.00	<50.0	1.71	5.1000	<20.0	477000.000	<10.0
ETA Combined Min		0.2000	240.00	12.40	13.300	<50.0	0.36	<0.005	416.00	8.00	1010.0000	<0.1	2.0000	577000.00		13.00	0.124	695.00	88700.000	0.61	66.00	850.000	3.2000	0.22	2020	0.0500	12200.00	0.17	3690.00	9.60	0.27	4.5300	<0.2	441000.000	0.20
ETA Combined N > DL		2	4	4	4	0	2	0	4	4	4	0	4	4	0	4	4	4	4	1	4	4	4	1	4	1	4	1	4	1	4	4	0	4	1
ETA Combined Median		0.3133	863.50	21.95	15.000	1500.00	0.70	0.15	427.00	22.05	1040.0000	3.00	24.0000	1140000.00		13.50	0.134	727.00	90150.000	1.50	70.50	956.000	3.7800	0.60	2370	1.2000	15650.00	0.30	3740.00	15.00	0.35	4.7250	6.00	470000.000	3.00
FAROCR	**5/3/2010**	0.0070	125.00	0.60	25.800	<50.0	0.06	<0.005	7.27	0.10	0.2170	<0.1	6.0800	199.00		0.67	0.003	1.60	7.910	0.29	1.47	3.350	10.4000	0.14	<10.0	0.1200	4040.00	<0.01	37.30	1.20	0.01	0.5300	<0.2	25.400	0.30
FAROCR	**6/5/2010**	<0.005	84.00	0.24	14.600	<50.0	0.03	0.01	3.84	0.03	0.0420	0.20	1.6100	43.00		0.26	0.001	0.95	1.370	0.13	1.54	1.770	3.2700	0.05	<10.0	0.1000	6440.00	0.03	20.70	<0.5	0.01	0.2590	<0.2	9.400	0.20
FAROCR	**7/8/2010**	<0.005	35.50	0.31	21.400	<50.0	0.02	0.01	5.93	0.03	0.0290	<0.1	1.3200	28.00		0.28	0.003	1.28	0.990	0.24	1.68	0.750	3.3600	0.07	<10.0	0.1800	6890.00	<0.01	34.10	<0.5	0.01	0.2700	<0.2	8.300	<0.1
FAROCR	**8/3/2010**	<0.005	15.60	0.46	30.800	<50.0	<0.01	<0.005	9.32	0.03	0.0180	<0.1	1.1300	9.00		0.43	0.003	2.41	0.370	0.70	2.10	1.050	0.8310	0.11	<10.0	0.4300	5590.00	<0.01	51.40	<0.5	0.01	0.5100	<0.2	5.400	<0.1
FAROCR	**9/1/2010**	<0.005	11.10	0.41	26.400	<50.0	<0.01	<0.005	9.18	0.03	0.0250	<0.1	1.0900	8.00		0.54	0.003	2.32	1.590	0.67	2.21	0.880	0.8510	0.16	<10.0	0.3600	6200.00	<0.01	50.80	<0.5	0.01	0.5890	<0.2	8.000	<0.1
FAROCR	**10/19/2010**	0.0540	11.70	0.39	24.400	<50.0	<0.01	<0.005	9.76	0.05	0.0540	<0.1	1.2800	22.00		1.90	0.003	2.54	2.110	0.64	3.66	1.260	1.6600	0.07	<10.0	0.4300	7250.00	0.09	49.10	<0.5	0.01	0.5630	<0.2	23.700	<0.1
FAROCR Average		0.0118	47.15	0.40	23.900	25.00	0.02	0.00	7.55	0.05	0.0642	0.08	2.0850	51.50		0.68	0.003	1.85	2.390	0.45	2.11	1.510	3.3953	0.10	5	0.2700	6068.33	0.02	40.57	0.41	0.01	0.4535	0.10	13.367	0.12
FAROCR Max		0.0540	125.00	0.60	30.800	<50.0	0.06	0.01	9.76	0.10	0.2170	0.20	6.0800	199.00		1.90	0.003	2.54	7.910	0.70	3.66	3.350	10.4000	0.16	<10.0	0.4300	7250.00	0.09	51.40	1.20	0.01	0.5890	<0.2	25.400	0.30
FAROCR Min		<0.005	11.10	0.24	14.600	<50.0	<0.01	<0.005	3.84	0.03	0.0180	<0.1	1.0900	8.00		0.26	0.001	0.95	0.370	0.13	1.47	0.750	0.8310	0.05	<10.0	0.1000	4040.00	<0.01	20.70	<0.5	0.01	0.2590	<0.2	5.400	<0.1
FAROCR N > DL		2	6	6	6	0	3	2	6	6	6	1	6	6	0	6	6	6	6	6	6	6	6	6	0	6	6	2	6	1	6	6	0	6	2
FAROCR Median		0.0000	25.55	0.40	25.100	<50.0	0.02	0.00	8.23	0.03	0.0355	<0.1	1.3000	25.00		0.49	0.003	1.96	1.480	0.47	1.89	1.155	2.4650	0.09	<10.0	0.2700	6320.00	0.00	43.20	<0.5	0.01	0.5200	<0.2	8.850	0.00
FCO	**6/16/2010**	<0.005	58.90	0.13	36.700	<50.0	0.05	<0.005	11.90	1.73	2.0000	<0.1	25.2000	41.00		0.53	0.005	3.79	37.500	<0.05	2.51	6.450	0.9550	0.06	12	<0.04	6560.00	<0.01	63.10	<0.5	0.01	0.1170	<0.2	1080.000	<0.1
FCO	**10/7/2010**	<0.005	81.70	0.07	34.500	<50.0	0.05	<0.005	12.30	1.78	2.5700	<0.1	28.5000	30.00		0.45	0.005	3.98	43.200	0.10	2.95	7.210	0.1490	0.04	13	<0.04	7550.00	<0.01	64.50	<0.5	0.00	0.1350	<0.2	1290.000	<0.1
FCO Average		0.0025	70.30	0.10	35.600	25.00	0.05	0.00	12.10	1.76	2.2850	0.05	26.8500	35.50		0.49	0.005	3.89	40.350	0.06	2.73	6.830	0.5520	0.05	13	0.0200	7055.00	0.01	63.80	0.25	0.01	0.1260	0.10	1185.000	0.05
FCO N > DL		0	2	2	2	0	2	0	2	2	2	0	2	2	0	2	2	2	2	1	2	2	2	2	2	0	2	0	2	0	2	2	0	2	0
FCS-4	**9/2/2010**	0.0720	27.10	1.63	10.300	<50.0	0.04	<0.005	490.00	13.90	446.0000	<0.1	12.1000	266000.00		13.20	0.112	755.00	69000.000	<0.05	69.70	453.000	2.0900	0.22	1670	<0.04	9060.00	0.06	3550.00	10.90	0.80	6.2000	<0.2	152000.000	<0.1
FCS-4	**10/20/2010**	<0.5	32.00	6.00	14.000	<5000.0	<1.0	<0.5	437.00	22.40	903.0000	<10.0	10.0000	883000.00		13.00	0.127	760.00	86600.000	<5.0	65.00	810.000	0.9000	<2.0	1990	<4.0	12900.00	<1.0	3910.00	<50.0	0.40	6.1000	<20.0	399000.000	<10.0
FCS-4	**11/10/2010**	<0.5	<20.0	7.00	13.000	<5000.0	<1.0	<0.5	458.00	9.70	784.0000	<10.0	<5.0	956000.00		11.00	0.118	749.00	82800.000	12.00	72.00	761.000	<0.5	<2.0	2150	<4.0	14800.00	<1.0	3640.00	<50.0	0.30	7.1000	<20.0	363000.000	<10.0
FCS-4	**12/2/2010**	<0.1	10.00	6.40	11.500	<1000.0	<0.2	<0.1	455.00	9.10	821.0000	<2.0	3.0000	939000.00		13.00	0.121	729.00	84400.000	<1.0	71.00	737.000	<0.1	<0.4	2240	<0.8	13200.00	<0.2	3710.00	<10.0	0.27	6.2800	<4.0	359000.000	<2.0
FCS-4 Average		0.1555	19.78	5.26	12.200	1381.25	0.29	0.14	460.00	13.78	738.5000	2.76	6.9000	761000.00		12.55	0.120	748.25	80700.000	3.76	69.43	690.250	0.8225	0.61	2013	1.1050	12490.00	0.29	3702.50	16.48	0.44	6.4200	5.53	318250.000	2.76
FCS-4 Max		<0.5	32.00	7.00	14.000	<5,000.0	<1.0	<0.5	490.00	22.40	903.0000	<10.0	12.1000	956000.00		13.20	0.127	760.00	86600.000	12.00	72.00	810.000	2.0900	<2.0	2240	<4.0	14800.00	<1.0	3910.00	<50.0	0.80	7.1000	<20.0	399000.000	<10.0
FCS-4 Min		0.0720	10.00	1.63	10.300	<50.0	0.04	<0.005	437.00	9.10	446.0000	<0.1	3.0000	266000.00		11.00	0.112	729.00	69000.000	<0.05	65.00	453.000	<0.1	0.22	1670	<0.04	9060.00	0.06	3550.00	<10.0	0.27	6.1000	<0.2	152000.000	<0.1
FCS-4 N > DL		1	3	4	4	0	1	0	4	4	4	0	3	4	0	4	4	4	4	1	4	4	2	1	4	0	4	1	4	1	4	4	0	4	0
FCS-4 Median		1.5000	18.55	6.20	12.250	1500.00	0.30	0.15	456.50	11.80	802.5000	3.00	6.2500	911000.00		13.00	0.120	752.00	83600.000	1.50	70.35	749.000	0.0000	0.60	2070	1.2000	13050.00	0.30	3675.00	17.95	0.35	6.2400	6.00	361000.000	3.00
GDHSECK	**3/4/2010**	<0.005	1.80	0.23	47.800	<50.0	<0.01	<0.005	215.00	1.25	0.0800	<0.1	1.0300	8.00		4.77	0.009	48.80	35.300	0.25	9.16	3.800	2.2300	0.32	190	0.1300	5970.00	<0.01	822.00	<0.5	0.03	2.5000	<0.2	1300.000	<0.1
GDHSECK	**6/16/2010**	<0.005	2.50	0.18	33.600	<50.0	<0.01	0.01	176.00	1.80	0.0510	<0.1	1.4900	11.00		3.55	0.010	53.70	8.100	0.30	7.81	6.700	1.6100	0.55	181	0.1300	4520.00	<0.01	778.00	<0.5	0.05	1.6400	<0.2	2240.000	<0.1
GDHSECK	**10/6/2010**	<0.03	5.00	0.20	32.700	<300.0	<0.05	<0.03	168.00	1.22	0.0900	<0.5	1.1000	12.00		4.30	0.009	53.00	33.300	<0.3	8.10	5.200	0.6200	0.40	180	<0.2	5650.00	<0.05	659.00	<3.0	0.03	1.6100	<1.0	1950.000	<0.5
GDHSECK Average		0.0067	3.10	0.20	38.033	66.67	0.01	0.01	186.33	1.42	0.0737	0.12	1.2067	10.33		4.21	0.009	51.83	25.567	0.23	8.36	5.233	1.4867	0.42	184	0.1200	5380.00	0.01	753.00	0.67	0.04	1.9167	0.23	1830.000	0.12
GDHSECK Max		<0.03	5.00	0.23	47.800	<300.0	<0.05	<0.03	215.00	1.80	0.0900	<0.5	1.4900	12.00		4.77	0.010	53.70	35.300	<0.3	9.16	6.700	2.2300	0.55	190	<0.2	5970.00	<0.05	822.00	<3.0	0.05	2.5000	<1.0	2240.000	<0.5
GDHSECK Min		<0.005	1.80	0.18	32.700	<50.0	<0.01	<0.005	168.00	1.22	0.0510	<0.1	1.0300	8.00		3.55	0.009	48.80	8.100	0.25	7.81	3.800	0.6200	0.32	180	0.1300	4520.00	<0.01	659.00	<0.5	0.03	1.6100	<0.2	1300.000	<0.1
GDHSECK N > DL		0	3	3	3	0	0	1	3	3	3	0	3	3	0	3	3	3	3	2	3	3	3	3	3	2	3	0	3	0	3	3	0	3	0
GDHSECK Median		0.0067	2.50	0.20	33.600	<50.0	<0.01	0.01	176.00	1.25	0.0800	0.12	1.1000	11.00		4.30	0.009	53.00	33.300	<0.3	8.10	5.200	1.6100	0.40	181	0.1300	5650.00	0.01	778.00	0.67	0.03	1.6400	<0.2	1950.000	<0.1
NF1	**2/23/2010**	<0.005	2.70	0.34	72.700	<50.0	<0.01	<0.005	44.00	0.03	0.2250	0.20	0.5600	38.00		1.12	0.009	9.27	29.300	0.90	3.36	0.520	0.1440	0.06	7	0.4100	5530.00	<0.01	193.00	<0.5	<0.002	2.7400	<0.2	17.100	<0.1
NF1	**3/10/2010**	<0.005	2.10	0.38	71.600	<50.0	<0.01	<0.005	46.40	0.01	0.2690	<0.1	0.2400	40.00		1.11	0.009	9.58	33.700	0.99	3.48	0.490	0.0820	0.05	<10.0	0.4400	6320.00	<0.01	197.00	<0.5	<0.002	3.0600	<0.2	17.800	<0.1
NF1	**4/11/2010**	<0.005	1.50	0.38	81.500	<50.0	<0.01	<0.005	49.50	0.03	0.1160	1.60	0.4900	20.00		1.45	0.011	10.70	28.700	1.01	4.05	0.630	0.1440	0.08	<10.0	0.4800	7030.00	<0.01	215.00	<0.5	<0.002	3.2000	<0.2	23.700	<0.1
NF1	**5/3/2010**	0.0070	65.80	0.69	37.100	<50.0	0.03	<0.005	15.10	0.04	0.1680	<0.1	2.1700	252.00		1.24	0.003	3.11	31.200	0.35	1.27	1.320	2.4400	0.08	<10.0	0.1600	2970.00	0.11	71.20	0.60	0.00	0.6270	<0.2	14.200	0.20
NF1	**6/5/2010**	<0.005	34.70	0.47	30.700	<50.0	<0.01	0.02	14.80	0.05	0.1060	<0.1	1.0300	113.00		0.59	0.002	3.56	30.500	0.29	1.64	0.520	1.5000	0.08	<10.0	0.1400	4590.00	0.03	61.40	<0.5	0.00	0.5520	<0.2	6.000	<0.1
NF1	**7/8/2010**	<0.005	17.60	0.50	38.600	<50.0	<0.01	0.04	21.20	0.02	0.0570	<0.1	0.6900	106.00		0.45	0.003	3.84	17.900	0.35	1.57	0.410	1.6700	0.08	<10.0	0.2100	5210.00	<0.01	84.10	<0.5	<0.002	0.6620	<0.2	6.900	<0.1
NF1	**8/3/2010**	0.0100	7.80	0.92	97.900	<50.0	<0.01	<0.005	48.50	0.37	3.2800	<0.1	1.1800	2560.00		1.69	0.008	11.60	984.000	0.49	3.46	8.140	1.0800	0.09	25	0.1900	5310.00	0.02	215.00	<0.5	0.03	1.5500	<0.2	249.000	<0.1
NF1 Average		0.0042	18.89	0.53	61.443	25.00	0.01	0.01	34.21	0.08	0.6030	0.29	0.9086	447.00		1.09	0.006	7.38	165.043	0.63	2.69	1.719	1.0086	0.07	8	0.2900	5280.00	0.03	148.10	0.30	0.01	1.7701	0.10	47.814	0.07
NF1 Max		0.0100	65.80	0.92	97.900	<50.0	0.03	0.04	49.50	0.37	3.2800	1.60	2.1700	2560.00		1.69	0.011	11.60	984.000	1.01	4.05	8.140	2.4400	0.09	25	0.4800	7030.00	0.11	215.00	0.60	0.03	3.2000	<0.2	249.000	0.20
NF1 Min		<0.005	1.50	0.34	30.700	<50.0	<0.01	<0.005	14.80	0.01	0.0570	<0.1	0.2400	20.00		0.45	0.002	3.11	17.900	0.29	1.27	0.410	0.0820	0.05	7	0.1400	2970.00	<0.01	61.40	<0.5	<0.002	0.5520	<0.2	6.000	<0.1
NF1 N > DL		2	7	7	7	0	1	2	7	7	7	2	7	7	0	7	7	7	7	7	7	7	7	7	2	7	7	3	7	1	3	7	0	7	1
NF1 Median		<0.005	7.80	0.47	71.600	<50.0	<0.01	<0.005	44.00	0.03	0.1680	<0.1	0.6900	106.00		1.12	0.008	9.27	30.500	0.49	3.36	0.520	1.0800	0.08	<10.0	0.2100	5310.00	<0.01	193.00	<0.5	<0.002	1.5500	<0.2	17.100	<0.1
NF2	**1/12/2010**	<0.005	1.70	0.34	70.100	<50.0	<0.01	<0.005	43.60	0.01	0.0820	<0.1	0.2800	33.00		1.02	0.008	9.39	15.600	0.80	3.24	0.390	0.0860	0.07	8	0.4300	6410.00	<0.01	175.00	<0.5	<0.002	2.5600	<0.2	9.500	<0.1

NB: Metals reported in mg/L are shaded in gray.

Table C-2: Rose Creek Drainage Water Quality
2010 - Surface Water - Dissolved Metals

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
NF2	2/23/2010	<0.005	2.20	0.34	73.700	<50.0	<0.01	<0.005	46.10	0.01	0.0950	<0.1	0.2700	31.00		1.10	0.009	9.70	14.600	0.91	3.39	0.380	0.0620	0.06	8	0.4400	6010.00	<0.01	193.00	<0.5	<0.002	2.7900	<0.2	11.800	<0.1
NF2	3/10/2010	<0.005	2.00	0.34	71.000	<50.0	<0.01	<0.005	44.40	0.01	0.1130	<0.1	0.2500	27.00		1.08	0.009	9.23	16.700	0.94	3.36	0.420	0.0940	0.05	<10.0	0.4300	6200.00	<0.01	192.00	<0.5	<0.002	2.9900	<0.2	13.100	<0.1
NF2	4/14/2010	<0.005	1.80	0.34	73.900	<50.0	<0.01	<0.005	45.90	0.02	0.1590	<0.1	0.1700	26.00		1.10	0.009	9.34	20.200	0.94	3.53	0.520	0.0940	0.06	<10.0	0.4300	6180.00	0.02	197.00	<0.5	<0.002	3.0400	<0.2	17.200	<0.1
NF2	5/3/2010	0.0070	57.20	0.68	35.900	<50.0	0.03	<0.005	15.30	0.04	0.1110	<0.1	2.1300	246.00		1.21	0.003	3.15	14.800	0.35	1.28	1.110	1.2100	0.07	<10.0	0.1800	3060.00	<0.01	72.70	<0.5	0.00	0.6160	<0.2	13.600	0.20
NF2	6/4/2010	<0.005	45.90	0.46	28.200	<50.0	<0.01	0.01	13.80	0.05	0.0610	0.20	1.2300	98.00		0.55	0.002	3.27	8.950	0.27	1.56	0.680	5.3100	0.08	<10.0	0.1300	4460.00	0.02	55.40	0.60	0.00	0.4930	<0.2	15.200	<0.1
NF2	7/8/2010	<0.005	11.50	0.47	39.500	<50.0	<0.01	0.01	18.80	0.01	0.0280	<0.1	0.6000	72.00		0.47	0.003	4.15	10.200	0.37	1.63	0.350	0.3920	0.08	<10.0	0.1600	4490.00	<0.01	90.80	<0.5	<0.002	0.7720	<0.2	4.500	<0.1
NF2	8/3/2010	<0.005	6.20	0.60	52.000	<50.0	<0.01	<0.005	26.30	0.01	0.0590	<0.1	0.4900	141.00		0.64	0.004	5.59	26.400	0.59	2.03	0.410	0.6970	0.07	<10.0	0.2300	4780.00	<0.01	117.00	<0.5	0.00	1.0000	<0.2	7.000	<0.1
NF2	9/1/2010	<0.005	6.60	0.59	48.900	<50.0	<0.01	<0.005	28.40	0.01	0.0960	<0.1	0.7100	125.00		0.69	0.004	6.09	33.300	0.56	2.25	0.540	0.4790	0.06	<10.0	0.2200	4400.00	<0.01	120.00	<0.5	<0.002	1.2800	<0.2	9.200	<0.1
NF2	10/18/2010	<0.005	3.10	0.38	48.600	<50.0	<0.01	<0.005	31.60	0.01	0.0770	<0.1	0.3600	101.00		0.70	0.005	6.59	35.700	0.66	2.37	0.470	0.2600	0.06	<10.0	0.2900	5190.00	<0.01	131.00	<0.5	0.00	1.4300	<0.2	8.300	<0.1
NF2	11/9/2010	<0.005	3.00	0.32	60.800	<50.0	<0.01	<0.005	35.40	0.02	0.1770	<0.1	0.8100	72.00		1.19	0.006	7.85	63.700	0.65	2.81	0.780	0.6650	0.07	<10.0	0.3000	5540.00	0.02	154.00	<0.5	0.00	1.8500	<0.2	24.700	<0.1
NF2	12/1/2010	<0.005	3.10	0.31	64.400	<50.0	<0.01	0.01	38.50	0.02	0.1260	<0.1	0.5500	64.00		0.91	0.006	8.47	35.600	0.64	2.83	0.490	0.0820	0.06	<10.0	0.3300	5870.00	<0.01	163.00	<0.5	<0.002	2.0000	<0.2	15.900	<0.1
NF2 Average		0.0029	12.03	0.43	55.583	25.00	0.01	0.00	32.34	0.02	0.0987	0.06	0.6542	86.33		0.89	0.006	6.90	24.646	0.64	2.52	0.545	0.7859	0.07	6	0.2975	5215.83	0.01	138.41	0.28	0.00	1.7351	0.10	12.500	0.06
NF2 Max		0.0070	57.20	0.68	73.900	<50.0	0.03	0.01	46.10	0.05	0.1770	0.20	2.1300	246.00		1.21	0.009	9.70	63.700	0.94	3.53	1.110	5.3100	0.08	<10.0	0.4400	6410.00	0.02	197.00	0.60	0.00	3.0400	<0.2	24.700	0.20
NF2 Min		<0.005	1.70	0.31	28.200	<50.0	<0.01	<0.005	13.80	0.01	0.0280	<0.1	0.1700	26.00		0.47	0.002	3.15	8.950	0.27	1.28	0.350	0.0620	0.05	8	0.1300	3060.00	<0.01	55.40	<0.5	<0.002	0.4930	<0.2	4.500	<0.1
NF2 N > DL		1	12	12	12	0	1	3	12	12	12	1	12	12	0	12	12	12	12	12	12	12	12	12	2	12	12	3	12	1	5	12	0	12	1
NF2 Median		<0.005	3.10	0.36	56.400	<50.0	<0.01	<0.005	33.50	0.01	0.0955	<0.1	0.5200	72.00		0.97	0.005	7.22	18.450	0.65	2.59	0.480	0.3260	0.07	<10.0	0.2950	5365.00	<0.01	142.50	<0.5	<0.002	1.6400	<0.2	12.450	<0.1
NFRC SC-1	1/12/2010	<0.005	1.90	0.33	68.800	<50.0	<0.01	<0.005	43.10	0.01	0.0900	<0.1	0.3300	45.00		1.01	0.008	9.29	24.400	0.79	3.20	0.410	0.1050	0.07	8	0.4400	6330.00	<0.01	176.00	<0.5	<0.002	2.5300	<0.2	9.700	<0.1
NFRC SC-1	2/23/2010	<0.005	2.30	0.33	73.100	<50.0	<0.01	<0.005	45.20	0.01	0.1050	<0.1	0.2800	46.00		1.09	0.009	9.57	28.600	0.88	3.39	0.400	0.0640	0.06	8	0.4400	5820.00	<0.01	192.00	<0.5	<0.002	2.7900	<0.2	12.200	<0.1
NFRC SC-1	3/10/2010	<0.005	1.80	0.37	72.000	<50.0	<0.01	<0.005	45.30	0.01	0.1350	<0.1	0.2600	48.00		1.10	0.009	9.47	38.700	0.96	3.39	0.440	0.0580	0.06	<10.0	0.4200	6280.00	<0.01	196.00	<0.5	<0.002	3.0200	<0.2	13.300	<0.1
NFRC SC-1	4/14/2010	<0.005	2.10	0.37	73.600	<50.0	<0.01	<0.005	46.90	0.02	0.1680	<0.1	0.1900	60.00		1.15	0.009	9.69	43.800	0.94	3.60	0.530	0.1150	0.06	<10.0	0.4300	6000.00	<0.01	199.00	<0.5	0.00	3.0300	<0.2	18.100	<0.1
NFRC SC-1	5/3/2010	<0.005	59.90	0.69	37.400	<50.0	<0.01	<0.005	17.30	0.05	0.1200	<0.1	2.2300	235.00		1.35	0.003	3.32	21.000	0.34	1.43	1.770	1.4700	0.08	<10.0	0.1500	3100.00	<0.01	76.80	<0.5	0.01	0.6340	<0.2	18.400	0.20
NFRC SC-1	6/4/2010	<0.005	27.50	0.37	26.400	<50.0	0.02	<0.005	13.50	0.01	0.0320	<0.1	0.8200	74.00		0.51	0.002	3.25	6.310	0.28	1.53	0.400	0.4580	0.07	<10.0	0.1300	4470.00	<0.01	56.20	<0.5	<0.002	0.4990	<0.2	4.200	<0.1
NFRC SC-1	7/8/2010	<0.005	11.50	0.45	38.400	<50.0	<0.01	<0.005	18.00	0.01	0.0300	<0.1	0.6100	75.00		0.45	0.003	3.89	9.910	0.35	1.58	0.330	0.4730	0.08	<10.0	0.1700	4300.00	<0.01	86.40	<0.5	<0.002	0.6990	<0.2	4.000	<0.1
NFRC SC-1	8/3/2010	<0.005	7.60	0.63	52.300	<50.0	<0.01	<0.005	26.60	0.01	0.0700	<0.1	0.7900	128.00		0.73	0.005	6.27	30.200	0.59	2.29	0.600	0.9110	0.08	<10.0	0.2300	3850.00	<0.01	118.00	<0.5	0.00	1.2400	<0.2	8.100	<0.1
NFRC SC-1	10/18/2010	<0.005	3.60	0.43	51.700	<50.0	<0.01	<0.005	32.60	0.01	0.0970	<0.1	0.3500	101.00		0.70	0.005	6.49	35.700	0.59	2.33	0.430	0.2160	0.06	<10.0	0.2900	5370.00	<0.01	134.00	<0.5	0.00	1.5600	<0.2	8.500	<0.1
NFRC SC-1 Average		0.0025	13.13	0.44	54.856	25.00	0.01	0.00	32.06	0.02	0.0941	0.05	0.6511	90.22		0.90	0.006	6.80	26.513	0.64	2.53	0.590	0.4300	0.07	6	0.3000	5057.78	0.01	137.16	0.25	0.00	1.7780	0.10	10.722	0.07
NFRC SC-1 Max		<0.005	59.90	0.69	73.600	<50.0	0.02	<0.005	46.90	0.05	0.1680	<0.1	2.2300	235.00		1.35	0.009	9.69	43.800	0.96	3.60	1.770	1.4700	0.08	<10.0	0.4400	6330.00	<0.01	199.00	<0.5	0.01	3.0300	<0.2	18.400	0.20
NFRC SC-1 Min		<0.005	1.80	0.33	26.400	<50.0	<0.01	<0.005	13.50	0.01	0.0300	<0.1	0.1900	45.00		0.45	0.002	3.25	6.310	0.28	1.43	0.330	0.0580	0.06	8	0.1300	3100.00	<0.01	56.20	<0.5	<0.002	0.4990	<0.2	4.000	<0.1
NFRC SC-1 N > DL		0	9	9	9	0	1	0	9	9	9	0	9	9	0	9	9	9	9	9	9	9	9	9	2	9	9	0	9	0	4	9	0	9	1
NFRC SC-1 Median		<0.005	3.60	0.37	52.300	<50.0	<0.01	<0.005	32.60	0.01	0.0970	<0.1	0.3500	74.00		1.01	0.005	6.49	28.600	0.59	2.33	0.430	0.2160	0.07	<10.0	0.2900	5370.00	<0.01	134.00	<0.5	<0.002	1.5600	<0.2	9.700	<0.1
NFRC SC-2	1/12/2010	<0.005	1.80	0.30	69.000	<50.0	<0.01	<0.005	42.30	0.02	0.0970	<0.1	0.3400	65.00		0.98	0.008	9.21	29.400	0.80	3.15	0.440	0.0810	0.07	8	0.4300	6380.00	<0.01	177.00	<0.5	0.00	2.5200	<0.2	10.900	<0.1
NFRC SC-2	2/23/2010	<0.005	2.10	0.30	70.800	<50.0	<0.01	<0.005	44.80	0.01	0.1030	<0.1	0.2600	65.00		1.08	0.009	9.53	30.600	0.86	3.36	0.380	0.0470	0.05	7	0.4100	5710.00	<0.01	193.00	<0.5	<0.002	2.7300	<0.2	12.700	<0.1
NFRC SC-2	3/10/2010	<0.005	1.80	0.32	71.700	<50.0	<0.01	<0.005	45.00	0.01	0.1370	<0.1	0.2700	71.00		1.09	0.009	9.44	38.800	0.94	3.45	0.470	0.0540	0.05	<10.0	0.4400	6200.00	<0.01	196.00	<0.5	<0.002	3.0200	<0.2	13.400	<0.1
NFRC SC-2	4/14/2010	<0.005	2.00	0.29	73.000	<50.0	<0.01	<0.005	45.90	0.02	0.1630	<0.1	0.1600	71.00		1.12	0.009	9.50	45.300	0.96	3.53	0.550	0.1340	0.06	<10.0	0.4400	6100.00	<0.01	200.00	<0.5	<0.002	3.0000	<0.2	18.200	<0.1
NFRC SC-2	5/3/2010	<0.005	59.60	0.68	37.400	<50.0	<0.01	<0.005	17.90	0.03	0.1250	<0.1	2.2000	258.00		1.39	0.003	3.45	23.600	0.37	1.46	1.120	1.6300	0.09	<10.0	0.1600	3280.00	<0.01	78.10	0.60	0.01	0.6110	<0.2	13.900	0.20
NFRC SC-2	6/4/2010	<0.005	31.60	0.39	26.800	<50.0	<0.01	0.02	13.70	0.02	0.0400	<0.1	0.9400	81.00		0.52	0.002	3.29	6.720	0.26	1.53	0.680	1.5300	0.07	<10.0	0.1300	4410.00	0.02	56.70	<0.5	0.00	0.4920	<0.2	15.200	<0.1
NFRC SC-2	7/8/2010	<0.005	13.10	0.58	37.800	<50.0	<0.01	0.01	19.10	0.02	0.0370	<0.1	0.9500	86.00		0.45	0.003	3.92	8.380	0.35	1.58	0.580	1.8900	0.08	<10.0	0.1800	4670.00	<0.01	84.10	<0.5	0.00	0.6630	<0.2	9.300	<0.1
NFRC SC-2	8/3/2010	<0.005	9.40	0.65	54.500	<50.0	<0.01	<0.005	27.90	0.01	0.0650	<0.1	0.6700	143.00		0.71	0.005	6.17	25.300	0.57	2.26	0.560	1.2300	0.07	<10.0	0.2400	3910.00	<0.01	119.00	<0.5	0.00	1.2000	<0.2	9.800	<0.1
NFRC SC-2	10/18/2010	<0.005	3.60	0.46	52.300	<50.0	<0.01	<0.005	31.80	0.02	0.1010	<0.1	0.4600	123.00		0.74	0.005	6.82	38.300	0.62	2.44	0.520	0.3620	0.06	<10.0	0.2600	5210.00	<0.01	136.00	<0.5	<0.002	1.5900	<0.2	9.600	<0.1
NFRC SC-2 Average		0.0025	13.89	0.44	54.811	25.00	0.01	0.00	32.04	0.02	0.0964	0.05	0.6944	107.00		0.90	0.006	6.81	27.378	0.64	2.53	0.589	0.7731	0.07	6	0.2989	5096.67	0.01	137.77	0.29	0.00	1.7584	0.10	12.556	0.07
NFRC SC-2 Max		<0.005	59.60	0.68	73.000	<50.0	<0.01	0.02	45.90	0.03	0.1630	<0.1	2.2000	258.00		1.39	0.009	9.53	45.300	0.96	3.53	1.120	1.8900	0.09	<10.0	0.4400	6380.00	0.02	200.00	0.60	0.01	3.0200	<0.2	18.200	0.20
NFRC SC-2 Min		<0.005	1.80	0.29	26.800	<50.0	<0.01	<0.005	13.70	0.01	0.0370	<0.1	0.1600	65.00		0.45	0.002	3.29	6.720	0.26	1.46	0.380	0.0470	0.05	7	0.1300	3280.00	<0.01	56.70	<0.5	<0.002	0.4920	<0.2	9.300	<0.1
NFRC SC-2 N > DL		0	9	9	9	0	0	2	9	9	9	0	9	9	0	9	9	9	9	9	9	9	9	9	2	9	9	1	9	1	5	9	0	9	1
NFRC SC-2 Median		<0.005	3.60	0.39	54.500	<50.0	<0.01	<0.005	31.80	0.02	0.1010	<0.1	0.4600	81.00		0.98	0.005	6.82	29.400	0.62	2.44	0.550	0.3620	0.07	<10.0	0.2600	5210.00	<0.01	136.00	<0.5	0.00	1.5900	<0.2	12.700	<0.1
NFRC SC-3	1/12/2010	<0.005	1.90	0.31	67.800	<50.0	<0.01	<0.005	42.80	0.01	0.0960	<0.1	0.3100	56.00		1.00	0.008	9.13	29.300	0.77	3.18	0.440	0.0820	0.08	7	0.4300	6250.00	<0.01	174.00	<0.5	<0.002	2.5200	<0.2	11.000	<0.1
NFRC SC-3	2/23/2010	<0.005	5.70	0.27	70.900	<50.0	<0.01	<0.005	44.20	0.02	0.0950	0.20	0.6600	43.00		1.13	0.009	9.30	29.900	0.88	3.39	0.570	0.0700	0.06	7	0.3900	5330.00	<0.01	192.00	<0.5	<0.002	2.7200	<0.2	14.400	<0.1
NFRC SC-3	3/10/2010	<0.005	1.80	0.29	69.000	<50.0	<0.01	<0.005	44.40	0.02	0.1250	<0.1	0.2600	56.00		1.08	0.009	9.30	35.000	0.89	3.38	0.460	0.0910	0.05	<10.0	0.4600	6510.00	<0.01	190.00	<0.5	<0.002	2.8800	<0.2	13.500	<0.1
NFRC SC-3	4/14/2010	<0.005	1.90	0.24	72.400	<50.0	<0.01	<0.005	44.80	0.02	0.1510	<0.1	0.2800	48.00		1.10	0.009	9.26	42.800	0.94	3.44	0.570	0.2570	0.06	<10.0	0.4400	6220.00	<0.01	198.00	<0.5	<0.002	3.0100	<0.2	19.400	<0.1
NFRC SC-3	5/3/2010	<0.005	59.40	0.68	38.800	<50.0	0.02	<0.005	17.20	0.04	0.1170	<0.1	2.0800	230.00		1.33	0.003	3.35	23.700	0.35	1.41	1.270	1.3900	0.08	<10.0	0.1500	2880.00	<0.01	78.40	<0.5	0.01	0.6270	<0.2	13.200	0.20
NFRC SC-3	6/4/2010	<0.005	29.40	0.39	26.700	<50.0	<0.01	0.01	13.70	0.02	0.0300	<0.1	0.9100	77.00		0.52	0.002	3.28	5.400	0.26	1.53	0.560	0.6490	0.07	<10.0	0.1300	4500.00	<0.01	57.30	<0.5	<0.002	0.4840	<0.2	6.500	<0.1
NFRC SC-3	7/8/2010	<0.005	12.90	0.49	37.200	<50.0	<0.01	<0.005	19.90	0.01	0.0310	<0.1	0.6300	87.00		0.45	0.003	3.82	7.950	0.33	1.56	0.350	1.0500	0.07	<10.0	0.1800	4820.00	<0.01	83.00	<0.5	<0.002	0.6420	<0.2	5.100	<0.1
NFRC SC-3	8/3/2010	<0.005	6.60	0.64	52.400	<50.0	<0.01	<0.005	27.00	0.02	0.0540	<0.1	0.6500	128.00		0.73	0.004	5.92	20.500	0.59	2.18	0.470	0.6590	0.08	<10.0	0.2300	3940.00	<0.01	115.00	<0.5	0.00	1.2000	<0.2	8.500	<0.1
NFRC SC-3	10/18/2010	<0.005	7.10	0.44	51.500	<50.0	<0.01	<0.005	32.80	0.01	0.0870	<0.1	0.3600	121.00		0.68	0.005	6.34	36.600	0.60	2.29	0.450	0.3700	0.07	<10.0	0.3000	5200.00	<0.01	136.00	<0.5	<0.002	1.6000	<0.2	9.100	<0.1
NFRC SC-3 Average		0.0025	14.08	0.42	54.078	25.00	0.01	0.00	31.87	0.02	0.0873	0.07	0.6822	94.00		0.89	0.006	6.63	25.683	0.62	2.48	0.571	0.5131	0.07	5	0.3011	5072.22	0.01	135.97	0.25	0.00	1.7426	0.10	11.189	0.07
NFRC SC-3 Max		<0.005	59.40	0.68	72.400	<50.0	0.02	0.01	44.80	0.04	0.1510	0.20	2.0800	230.00		1.33	0.009	9.30	42.800	0.94	3.44	1.270	1.3900	0.08	<10.0	0.4600	6510.00	<0.01	198.00	<0.5	0.01	3.0100	<0.2	19.400	0.20
NFRC SC-3 Min		<0.005	1.80	0.24	26.700	<50.0	<0.01	<0.005	13.70	0.01	0.0300	<0.1	0.2600	43.00		0.45	0.002	3.28	5.400	0.26	1.41	0.350	0.0700	0.05	7	0.1300	2880.00	<0.01	57.30	<0.5	<0.002	0.4840	<0.2	5.100	<0.1
NFRC SC-3 N > DL		0	9	9	9	0	1	1	9	9	9	1	9	9	0	9	9	9	9	9	9	9	9	9	2	9	9	0	9	0	2	9	0	9	1
NFRC SC-3 Median		<0.005	6.60	0.39	52.400	<50.0	<0.01	<0.005	32.80	0.02	0.0950	<0.1	0.6300	77.00		1.00	0.005	6.34	29.300	0.60	2.29	0.470	0.3700	0.07	<10.0	0.3000	5200.00	<0.01	136.00	<0.5	<0.002	1.6000	<0.2	11.000	<0.1
NFRC SC-4	1/11/2010	0.0060	1.80	0.25	68.300	<50.0	<0.01	<0.005	43.60	0.02	0.1390	<0.1	0.3300	64.00		1.04	0.008	9.54	55.100	0.78	3.27	0.580	0.0910	0.07	9	0.4300	6300.00	<0.01	180.00	<0.5	0.00	2.5400	<0.2	22.700	<0.1
NFRC SC-4	2/23/2010	<0.005	2.00	0.27	71.800	<50.0	<0.01	<0.005	45.00	0.01	0.1510	<0.1	0.2800	61.00		1.09	0.009	9.72	52.600	0.86	3.36	0.600	0.0620	0.06	8	0.4200	5810.00	<0.01	196.00	<0.5	<0.002	2.7500	<0.2	22.100	<0.1

NB: Metals reported in mg/L are shaded in gray.

Table C-2: Rose Creek Drainage Water Quality
2010 - Surface Water - Dissolved Metals

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
NFRC SC-4	3/10/2010	<0.005	3.20	0.31	68.000	<50.0	<0.01	<0.005	43.80	0.02	0.1650	<0.1	0.2800	66.00		1.08	0.009	9.41	59.000	0.90	3.36	0.730	0.0830	0.05	<10.0	0.4800	6560.00	<0.01	189.00	<0.5	<0.002	2.8600	<0.2	24.500	<0.1
NFRC SC-4	4/14/2010	<0.005	3.20	0.28	72.600	<50.0	<0.01	<0.005	45.90	0.02	0.2140	<0.1	0.2000	66.00		1.12	0.009	9.51	65.500	0.94	3.51	0.720	0.3110	0.07	<10.0	0.4000	5940.00	0.02	200.00	<0.5	<0.002	3.0100	<0.2	28.100	<0.1
NFRC SC-4	5/3/2010	<0.005	59.20	0.71	37.800	<50.0	<0.01	<0.005	18.30	0.04	0.1370	<0.1	2.1800	266.00		1.42	0.003	3.57	29.000	0.36	1.49	1.490	1.4300	0.08	<10.0	0.1800	3360.00	<0.01	79.90	<0.5	0.01	0.6390	<0.2	17.500	0.20
NFRC SC-4	6/4/2010	<0.005	31.80	0.43	27.400	<50.0	<0.01	0.01	14.00	0.02	0.0460	<0.1	1.0200	80.00		0.55	0.002	3.35	8.110	0.28	1.57	0.740	1.2400	0.08	<10.0	0.1300	4500.00	0.02	56.30	0.60	0.00	0.4960	<0.2	10.000	<0.1
NFRC SC-4	7/8/2010	<0.005	13.40	0.45	38.200	<50.0	<0.01	0.02	18.40	0.01	0.0430	<0.1	0.6600	87.00		0.46	0.003	3.92	11.400	0.35	1.61	0.380	1.7400	0.08	<10.0	0.1800	4470.00	<0.01	85.80	<0.5	0.00	0.6790	<0.2	6.700	<0.1
NFRC SC-4	8/3/2010	<0.005	7.20	0.61	52.800	<50.0	<0.01	<0.005	26.40	0.01	0.0810	<0.1	0.5500	174.00		0.69	0.004	6.05	33.700	0.58	2.18	0.470	0.6480	0.08	<10.0	0.2400	3820.00	<0.01	118.00	<0.5	0.00	1.1700	<0.2	9.300	<0.1
NFRC SC-4	10/18/2010	<0.005	3.70	0.45	52.100	<50.0	<0.01	<0.005	32.60	0.02	0.1160	<0.1	0.4000	118.00		0.75	0.005	7.03	44.200	0.62	2.50	0.610	0.2470	0.06	<10.0	0.3100	5430.00	<0.01	138.00	<0.5	0.00	1.5700	<0.2	12.400	<0.1
NFRC SC-4 Average		0.0029	13.94	0.42	54.333	25.00	0.01	0.01	32.00	0.02	0.1213	0.05	0.6556	109.11		0.91	0.006	6.90	39.846	0.63	2.54	0.702	0.6502	0.07	6	0.3078	5132.22	0.01	138.11	0.29	0.00	1.7460	0.10	17.033	0.07
NFRC SC-4 Max		0.0060	59.20	0.71	72.600	<50.0	<0.01	0.02	45.90	0.04	0.2140	<0.1	2.1800	266.00		1.42	0.009	9.72	65.500	0.94	3.51	1.490	1.7400	0.08	<10.0	0.4800	6560.00	0.02	200.00	0.60	0.01	3.0100	<0.2	28.100	0.20
NFRC SC-4 Min		<0.005	1.80	0.25	27.400	<50.0	<0.01	<0.005	14.00	0.01	0.0430	<0.1	0.2000	61.00		0.46	0.002	3.35	8.110	0.28	1.49	0.380	0.0620	0.05	8	0.1300	3360.00	<0.01	56.30	<0.5	<0.002	0.4960	<0.2	6.700	<0.1
NFRC SC-4 N > DL		1	9	9	9	0	0	2	9	9	9	0	9	9	0	9	9	9	9	9	9	9	9	9	2	9	9	2	9	1	6	9	0	9	1
NFRC SC-4 Median		<0.005	3.70	0.43	52.800	<50.0	<0.01	<0.005	32.60	0.02	0.1370	<0.1	0.4000	80.00		1.04	0.005	7.03	44.200	0.62	2.50	0.610	0.3110	0.07	<10.0	0.3100	5430.00	<0.01	138.00	<0.5	0.00	1.5700	<0.2	17.500	<0.1
NWID	2/22/2010	<0.005	2.30	0.19	58.800	<50.0	<0.01	<0.005	69.10	0.06	0.0130	<0.1	0.6600	2.00		1.89	0.007	8.72	0.140	0.30	3.35	0.600	0.1040	0.05	17	0.3100	6340.00	<0.01	264.00	<0.5	0.00	1.5100	<0.2	16.100	<0.1
NWID	3/10/2010	<0.005	2.40	0.20	59.000	<50.0	<0.01	<0.005	71.20	0.05	0.0170	<0.1	0.6800	3.00		1.95	0.007	9.05	0.150	0.36	3.48	0.670	0.2570	0.05	18	0.3400	6590.00	<0.01	267.00	<0.5	0.00	1.6400	<0.2	19.000	<0.1
NWID	4/15/2010	<0.005	2.40	0.21	57.500	<50.0	<0.01	<0.005	70.10	0.07	0.0140	<0.1	0.6000	4.00		1.92	0.007	8.86	0.250	0.30	3.41	0.720	0.2540	0.05	16	0.3900	7000.00	<0.01	263.00	<0.5	0.00	1.5800	<0.2	21.100	<0.1
NWID	5/3/2010	<0.005	36.00	0.35	32.100	<50.0	<0.01	<0.005	23.80	0.05	0.0550	<0.1	2.5600	51.00		1.24	0.003	3.58	1.930	0.20	1.59	1.010	0.9980	0.07	<10.0	0.1400	4300.00	<0.01	97.00	<0.5	0.01	0.4130	<0.2	27.700	<0.1
NWID	6/4/2010	<0.005	14.80	0.23	35.800	<50.0	<0.01	<0.005	35.40	0.07	0.0450	<0.1	1.9400	14.00		1.27	0.004	5.15	2.050	0.29	2.58	0.750	1.3100	0.07	<10.0	0.1500	7420.00	<0.01	129.00	<0.5	0.00	0.5560	<0.2	23.700	<0.1
NWID	7/10/2010	<0.005	10.00	0.21	48.600	<50.0	<0.01	<0.005	48.80	0.07	0.0450	<0.1	1.3800	24.00		1.50	0.005	6.66	3.350	0.27	2.86	0.800	4.1400	0.06	13	0.2200	6720.00	<0.01	192.00	<0.5	0.01	0.9950	<0.2	31.300	<0.1
NWID	8/3/2010	<0.005	4.20	0.26	52.800	<50.0	<0.01	<0.005	50.70	0.07	0.0180	<0.1	0.9300	5.00		1.65	0.007	7.05	0.720	0.28	2.91	0.470	0.4640	0.05	13	0.2400	5780.00	<0.01	208.00	<0.5	0.00	1.0700	<0.2	13.900	<0.1
NWID Average		0.0025	10.30	0.24	49.229	25.00	0.01	0.00	52.73	0.06	0.0296	0.05	1.2500	14.71		1.63	0.006	7.01	1.227	0.29	2.88	0.717	1.0753	0.06	12	0.2557	6307.14	0.01	202.86	0.25	0.00	1.1091	0.10	21.829	0.05
NWID Max		<0.005	36.00	0.35	59.000	<50.0	<0.01	<0.005	71.20	0.07	0.0550	<0.1	2.5600	51.00		1.95	0.007	9.05	3.350	0.36	3.48	1.010	4.1400	0.07	18	0.3900	7420.00	<0.01	267.00	<0.5	0.01	1.6400	<0.2	31.300	<0.1
NWID Min		<0.005	2.30	0.19	32.100	<50.0	<0.01	<0.005	23.80	0.05	0.0130	<0.1	0.6000	2.00		1.24	0.003	3.58	0.140	0.20	1.59	0.470	0.1040	0.05	<10.0	0.1400	4300.00	<0.01	97.00	<0.5	0.00	0.4130	<0.2	13.900	<0.1
NWID N > DL		0	7	7	7	0	0	0	7	7	7	0	7	7	0	7	7	7	7	7	7	7	7	7	5	7	7	0	7	0	7	7	0	7	0
NWID Median		<0.005	4.20	0.21	52.800	<50.0	<0.01	<0.005	50.70	0.07	0.0180	<0.1	0.9300	5.00		1.65	0.007	7.05	0.720	0.29	2.91	0.720	0.4640	0.05	13	0.2400	6590.00	<0.01	208.00	<0.5	0.00	1.0700	<0.2	21.100	<0.1
R10	1/11/2010	<0.005	1.80	0.34	69.300	<50.0	<0.01	<0.005	42.40	0.01	0.0390	<0.1	0.2900	40.00		0.99	0.008	9.11	17.300	0.81	3.14	0.310	0.0550	0.07	7	0.4500	6800.00	<0.01	172.00	<0.5	<0.002	2.5400	<0.2	6.200	<0.1
R10	2/23/2010	<0.005	2.30	0.35	72.500	<50.0	<0.01	<0.005	44.20	<0.005	0.0360	<0.1	0.2500	30.00		1.05	0.009	9.23	13.200	0.92	3.26	0.240	0.0190	0.06	7	0.4300	5990.00	<0.01	189.00	<0.5	<0.002	2.7400	<0.2	6.900	<0.1
R10	3/10/2010	<0.005	2.30	0.39	69.600	<50.0	<0.01	<0.005	46.10	0.01	0.0450	<0.1	0.3000	33.00		1.10	0.009	9.40	13.600	0.97	3.47	0.360	0.2160	0.05	<10.0	0.4500	6430.00	0.02	191.00	<0.5	<0.002	2.9500	<0.2	12.600	<0.1
R10	4/11/2010	<0.005	4.40	0.35	74.300	<50.0	<0.01	<0.005	45.00	0.03	0.3690	0.20	0.3400	45.00		1.19	0.009	9.48	38.400	0.98	3.64	0.520	0.3910	0.06	<10.0	0.4400	6210.00	<0.01	194.00	<0.5	<0.002	2.9800	<0.2	21.800	<0.1
R10	5/3/2010	<0.005	63.90	0.69	39.300	<50.0	0.02	<0.005	18.20	0.04	0.1030	<0.1	2.0100	246.00		1.36	0.003	3.37	23.700	0.40	1.46	1.040	1.0400	0.08	<10.0	0.1700	3330.00	<0.01	78.70	0.70	0.00	0.6970	<0.2	10.100	0.20
R10	6/5/2010	<0.005	39.90	0.43	29.700	<50.0	<0.01	0.03	15.20	0.05	0.0440	<0.1	1.1300	90.00		0.54	0.002	3.65	7.350	0.30	1.65	0.680	2.9200	0.08	<10.0	0.1500	4820.00	0.04	61.50	0.60	<0.002	0.5830	<0.2	8.700	<0.1
R10	7/8/2010	<0.005	17.20	0.51	38.500	<50.0	<0.01	0.02	18.00	0.02	0.0360	<0.1	0.6500	85.00		0.45	0.003	3.71	9.270	0.35	1.53	0.380	3.1600	0.09	<10.0	0.1700	4480.00	<0.01	84.70	<0.5	0.00	0.6870	<0.2	9.500	<0.1
R10	8/3/2010	<0.005	6.20	0.60	48.500	<50.0	<0.01	<0.005	25.00	0.01	0.0330	<0.1	0.4100	101.00		0.59	0.004	5.54	10.400	0.57	1.94	0.280	0.3110	0.07	<10.0	0.2400	3760.00	<0.01	111.00	<0.5	<0.002	1.1500	<0.2	4.300	<0.1
R10	9/1/2010	<0.005	8.40	0.63	48.000	<50.0	<0.01	0.01	27.60	0.02	0.0540	<0.1	0.6800	124.00		0.76	0.004	5.87	16.500	0.54	2.26	0.390	0.9550	0.06	<10.0	0.2200	4500.00	<0.01	118.00	<0.5	0.00	1.2500	<0.2	17.300	<0.1
R10	10/19/2010	<0.005	5.50	0.52	52.700	<50.0	<0.01	<0.005	32.70	0.03	0.0450	<0.1	0.7000	112.00		0.92	0.005	6.95	18.300	0.62	2.56	0.360	1.5000	0.07	<10.0	0.2800	5550.00	0.02	135.00	<0.5	<0.002	1.6000	<0.2	8.600	<0.1
R10	11/10/2010	<0.005	5.30	0.38	63.500	<50.0	<0.01	<0.005	38.00	0.03	0.0550	<0.1	0.9200	58.00		0.87	0.006	8.33	18.300	0.73	2.91	0.520	0.6420	0.06	<10.0	0.3200	6120.00	<0.01	156.00	<0.5	<0.002	1.8600	<0.2	26.800	<0.1
R10	12/1/2010	<0.005	2.30	0.37	65.000	<50.0	<0.01	<0.005	39.00	0.02	0.0380	<0.1	0.4200	57.00		0.89	0.006	8.30	16.200	0.66	2.75	0.270	0.0570	0.05	<10.0	0.3300	6050.00	<0.01	163.00	<0.5	<0.002	1.9900	<0.2	5.100	<0.1
R10 Average		0.0025	13.29	0.46	55.908	25.00	0.01	0.01	32.62	0.02	0.0748	0.06	0.6750	85.08		0.89	0.006	6.91	16.877	0.65	2.55	0.446	0.9388	0.07	5	0.3042	5336.67	0.01	137.83	0.32	0.00	1.7523	0.10	11.492	0.06
R10 Max		<0.005	63.90	0.69	74.300	<50.0	0.02	0.03	46.10	0.05	0.3690	0.20	2.0100	246.00		1.36	0.009	9.48	38.400	0.98	3.64	1.040	3.1600	0.09	<10.0	0.4500	6800.00	0.04	194.00	0.70	0.00	2.9800	<0.2	26.800	0.20
R10 Min		<0.005	1.80	0.34	29.700	<50.0	<0.01	<0.005	15.20	<0.005	0.0330	<0.1	0.2500	30.00		0.45	0.002	3.37	7.350	0.30	1.46	0.240	0.0190	0.05	7	0.1500	3330.00	<0.01	61.50	<0.5	<0.002	0.5830	<0.2	4.300	<0.1
R10 N > DL		0	12	12	12	0	1	3	12	11	12	1	12	12	0	12	12	12	12	12	12	12	12	12	2	12	12	3	12	2	3	12	0	12	1
R10 Median		<0.005	5.40	0.41	58.100	<50.0	<0.01	<0.005	35.35	0.02	0.0445	<0.1	0.5350	71.50		0.91	0.005	7.63	16.350	0.64	2.66	0.370	0.5165	0.07	<10.0	0.3000	5770.00	<0.01	145.50	<0.5	<0.002	1.7300	<0.2	9.100	<0.1
R7	1/11/2010	<0.005	1.50	0.32	68.600	<50.0	<0.01	<0.005	38.30	<0.005	0.0150	<0.1	0.2300	39.00		0.89	0.007	7.54	13.500	0.82	2.94	0.160	0.0410	0.07	<3.0	0.4100	6530.00	<0.01	155.00	<0.5	<0.002	2.2800	<0.2	0.400	<0.1
R7	2/23/2010	<0.005	2.60	0.38	72.800	<50.0	<0.01	<0.005	41.90	<0.005	0.0170	0.20	0.2100	41.00		0.99	0.008	8.04	9.160	0.96	3.16	0.190	0.0080	0.06	4	0.3800	5840.00	<0.01	177.00	<0.5	<0.002	2.5000	<0.2	0.400	<0.1
R7	3/10/2010	<0.005	2.20	0.39	72.300	<50.0	<0.01	<0.005	42.80	<0.005	0.0170	<0.1	0.2000	32.00		1.00	0.009	8.07	8.540	0.98	3.25	0.190	0.0120	0.06	<10.0	0.4500	6550.00	<0.01	183.00	<0.5	<0.002	2.7800	<0.2	0.300	<0.1
R7	4/11/2010	<0.005	2.80	0.44	72.100	<50.0	<0.01	<0.005	41.50	0.01	0.0170	<0.1	0.1800	66.00		1.00	0.009	8.16	7.750	0.95	3.32	0.180	0.1530	0.05	<10.0	0.4200	6130.00	<0.01	180.00	<0.5	<0.002	2.7400	<0.2	1.100	<0.1
R7	5/3/2010	<0.005	60.90	0.73	41.600	<50.0	<0.01	<0.005	17.20	0.03	0.0640	<0.1	1.6600	271.00		1.36	0.003	3.24	26.700	0.43	1.43	1.330	0.6500	0.08	<10.0	0.1800	3290.00	<0.01	75.80	0.70	0.00	0.7340	<0.2	5.300	0.20
R7	6/5/2010	<0.005	30.20	0.51	32.400	<50.0	<0.01	0.01	16.30	0.02	0.0410	<0.1	1.0400	102.00		0.54	0.002	3.54	8.260	0.33	1.60	0.450	2.3100	0.08	<10.0	0.1500	4490.00	0.03	63.30	<0.5	<0.002	0.6200	<0.2	4.400	<0.1
R7	7/8/2010	<0.005	15.60	0.55	38.800	<50.0	<0.01	0.01	17.80	0.02	0.0320	<0.1	0.5900	92.00		0.41	0.002	3.57	11.700	0.35	1.52	0.340	1.8000	0.09	<10.0	0.1800	4220.00	<0.01	79.40	<0.5	0.00	0.6560	<0.2	5.200	<0.1
R7	8/3/2010	<0.005	8.80	0.66	51.500	<50.0	<0.01	<0.005	25.00	0.01	0.0230	<0.1	0.4400	117.00		0.55	0.004	5.55	10.700	0.56	2.01	0.290	0.3810	0.07	<10.0	0.2300	3770.00	<0.01	105.00	<0.5	<0.002	1.0900	<0.2	2.100	<0.1
R7	9/1/2010	<0.005	6.70	0.65	46.800	<50.0	<0.01	<0.005	26.20	0.02	0.0860	<0.1	0.8400	140.00		1.46	0.004	5.42	23.400	0.52	2.67	0.400	0.6650	0.06	<10.0	0.2200	4310.00	0.02	109.00	<0.5	0.00	1.1100	<0.2	19.700	<0.1
R7	10/19/2010	0.0070	4.60	0.57	51.900	<50.0	<0.01	<0.005	31.50	0.02	0.0460	<0.1	0.4200	118.00		1.09	0.005	5.99	15.600	0.61	2.75	0.300	0.3540	0.07	<10.0	0.2900	5460.00	<0.01	126.00	<0.5	<0.002	1.4800	<0.2	7.200	<0.1
R7	11/10/2010	<0.005	3.80	0.40	65.400	<50.0	<0.01	<0.005	34.10	0.01	0.0960	<0.1	0.3400	63.00		0.84	0.005	7.11	23.900	0.59	2.63	0.690	0.3560	0.06	<10.0	0.3000	6230.00	<0.01	145.00	<0.5	<0.002	1.6700	<0.2	21.300	<0.1
R7	12/1/2010	<0.005	2.50	0.38	65.500	<50.0	<0.01	<0.005	37.00	0.01	0.0240	<0.1	0.3700	48.00		0.84	0.006	7.36	15.200	0.64	2.75	0.220	0.0450	0.06	<10.0	0.3200	6160.00	<0.01	150.00	<0.5	<0.002	1.8100	<0.2	2.900	<0.1
R7 Average		0.0029	11.85	0.50	56.642	25.00	0.01	0.00	30.80	0.01	0.0398	0.06	0.5433	94.08		0.91	0.005	6.13	14.534	0.65	2.50	0.395	0.5646	0.07	5	0.2942	5248.33	0.01	129.04	0.29	0.00	1.6225	0.10	5.858	0.06
R7 Max		0.0070	60.90	0.73	72.800	<50.0	<0.01	0.01	42.80	0.03	0.0960	0.20	1.6600	271.00		1.46	0.009	8.16	26.700	0.98	3.32	1.330	2.3100	0.09	<10.0	0.4500	6550.00	0.03	183.00	0.70	0.00	2.7800	<0.2	21.300	0.20
R7 Min		<0.005	1.50	0.32	32.400	<50.0	<0.01	<0.005	16.30	<0.005	0.0150	<0.1	0.1800	32.00		0.41	0.002	3.24	7.750	0.33	1.43	0.160	0.0080	0.05	<3.0	0.1500	3290.00	<0.01	63.30	<0.5	<0.002	0.6200	<0.2	0.300	<0.1
R7 N > DL		1	12	12	12	0	0	2	12	9	12	1	12	12	0	12	12	12	12	12	12	12	12	12	1	12	12	2	12	1	3	12	0	12	1
R7 Median		<0.005	4.20	0.48	58.650	<50.0	<0.01	<0.005	32.80	0.01	0.0280	<0.1	0.3950	79.00		0.94	0.005	6.55	12.600	0.60	2.71	0.295	0.3550	0.07	<10.0	0.2950	5650.00	<0.01	135.50	<0.5	<0.002	1.5750	<0.2	3.650	<0.1
R8	1/11/2010	<0.005	1.60	0.38	67.800	<50.0	<0.01	<0.005	39.30	<0.005	0.0200	<0.1	0.2600	39.00		0.91	0.007	7.70	14.100	0.82	2.98	0.220	0.0600	0.07	4	0.4000	6370.00	<0.01	157.00	<0.5	<0.002	2.3000	<0.2	0.700	<0.1
R8	2/23/2010	<0.005	2.20	0.36	73.800	<50.0	<0.01	<0.005	42.40	<0.005	0.0160	<0.1	0.2000	31.00		1.00	0.008	8.14	9.170	0.97	3.22	0.160	0.0060	0.06	4	0.4200	6170.00	<0.01	178.00	<0.5	<0.002	2.5200	<0.2	0.300	<0.1
R8	3/10/2010	<0.005	1.90	0.42	70.500	<50.0	<0.01	<0.005	42.10	<0.005	0.0130	<0.1	0.1900	34.00		0.98	0.008	8.03	8.660	0.98	3.23	0.150	0.0220	0.05	<10.0	0.4600	6240.00	<0.01	180.00	<0.5	<0.002	2.7500	<0.2	0.400	<0.1

NB: Metals reported in mg/L are shaded in gray.

Table C-2: Rose Creek Drainage Water Quality
2010 - Surface Water - Dissolved Metals

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
R8	**4/11/2010**	<0.005	1.80	0.41	76.400	<50.0	<0.01	<0.005	43.70	<0.005	0.0120	<0.1	0.1600	26.00		1.06	0.009	8.59	7.690	1.03	3.52	0.190	0.0490	0.05	<10.0	0.4500	6370.00	<0.01	187.00	<0.5	<0.002	2.8700	<0.2	0.600	<0.1
R8	**5/3/2010**	<0.005	64.50	0.77	39.400	<50.0	0.02	<0.005	16.60	0.03	0.0880	<0.1	1.9300	264.00		1.32	0.003	3.12	24.700	0.39	1.43	1.200	1.4200	0.09	<10.0	0.1800	3330.00	<0.01	72.60	0.70	0.00	0.6830	<0.2	6.800	0.20
R8	**6/5/2010**	<0.005	44.70	0.46	30.300	<50.0	<0.01	0.03	14.30	0.01	0.0380	0.20	0.9500	91.00		0.49	0.002	3.17	6.750	0.31	1.61	0.560	1.5800	0.07	<10.0	0.1500	4760.00	0.03	56.60	<0.5	<0.002	0.5500	<0.2	4.100	<0.1
R8	**7/8/2010**	<0.005	24.50	0.55	39.300	<50.0	<0.01	<0.005	17.40	0.01	0.0300	<0.1	0.6600	100.00		0.41	0.002	3.47	8.940	0.35	1.53	0.330	1.1500	0.08	<10.0	0.1800	4640.00	<0.01	76.00	1.00	0.00	0.6280	<0.2	2.500	<0.1
R8	**8/3/2010**	<0.005	6.30	0.64	50.700	<50.0	<0.01	<0.005	24.30	<0.005	0.0250	<0.1	0.4900	112.00		0.55	0.004	5.27	11.700	0.58	1.97	0.330	0.3370	0.08	<10.0	0.2500	3880.00	<0.01	104.00	<0.5	<0.002	1.0500	<0.2	2.600	<0.1
R8	**9/1/2010**	<0.005	10.50	0.64	47.200	<50.0	<0.01	<0.005	24.10	0.02	0.0570	<0.1	1.4400	134.00		0.75	0.004	5.05	17.100	0.55	2.13	0.520	2.2200	0.07	<10.0	0.2000	3990.00	<0.01	110.00	<0.5	0.00	1.1600	<0.2	22.000	<0.1
R8	**10/19/2010**	0.0060	5.50	0.59	50.500	<50.0	<0.01	<0.005	30.20	0.02	0.0290	<0.1	0.5800	116.00		0.88	0.005	6.15	17.100	0.59	2.59	0.380	0.7970	0.07	<10.0	0.3100	5730.00	0.02	121.00	<0.5	<0.002	1.4000	<0.2	7.800	<0.1
R8	**11/10/2010**	<0.005	3.00	0.38	62.700	<50.0	<0.01	<0.005	34.40	0.01	0.0280	<0.1	0.2800	63.00		0.74	0.005	7.06	14.400	0.86	2.75	0.240	0.0640	0.06	<10.0	0.3000	6050.00	<0.01	141.00	<0.5	<0.002	1.6700	<0.2	1.700	<0.1
R8	**12/1/2010**	<0.005	2.40	0.38	63.500	<50.0	0.02	<0.005	35.30	0.01	0.0230	<0.1	0.2900	57.00		0.80	0.006	7.13	13.700	0.65	2.61	0.190	0.0850	0.06	<10.0	0.3100	5910.00	<0.01	148.00	<0.5	<0.002	1.7700	<0.2	3.300	<0.1
R8 Average		0.0028	14.08	0.50	56.008	25.00	0.01	0.00	30.34	0.01	0.0316	0.06	0.6192	88.92		0.82	0.005	6.07	12.834	0.67	2.46	0.373	0.6492	0.07	5	0.3008	5286.67	0.01	127.60	0.35	0.00	1.6126	0.10	4.400	0.06
R8 Max		0.0060	64.50	0.77	76.400	<50.0	0.02	0.03	43.70	0.03	0.0880	0.20	1.9300	264.00		1.32	0.009	8.59	24.700	1.03	3.52	1.200	2.2200	0.09	<10.0	0.4600	6370.00	0.03	187.00	1.00	0.00	2.8700	<0.2	22.000	0.20
R8 Min		<0.005	1.60	0.36	30.300	<50.0	<0.01	<0.005	14.30	<0.005	0.0120	<0.1	0.1600	26.00		0.41	0.002	3.12	6.750	0.31	1.43	0.150	0.0060	0.05	4	0.1500	3330.00	<0.01	56.60	<0.5	<0.002	0.5500	<0.2	0.300	<0.1
R8 N > DL		1	12	12	12	0	2	1	12	7	12	1	12	12	0	12	12	12	12	12	12	12	12	12	2	12	12	2	12	2	3	12	0	12	1
R8 Median		<0.005	4.25	0.44	56.700	<50.0	<0.01	<0.005	32.30	0.01	0.0265	<0.1	0.3900	77.00		0.84	0.005	6.61	12.700	0.62	2.60	0.285	0.2110	0.07	<10.0	0.3050	5820.00	<0.01	131.00	<0.5	<0.002	1.5350	<0.2	2.550	<0.1
R9	**1/11/2010**	<0.005	1.90	0.35	68.600	<50.0	<0.01	<0.005	42.50	<0.005	0.0250	<0.1	0.3400	33.00		0.99	0.007	9.06	14.900	0.84	3.11	0.240	0.1840	0.07	7	0.4200	6300.00	<0.01	170.00	<0.5	<0.002	2.5600	<0.2	1.600	<0.1
R9	**2/23/2010**	<0.005	2.20	0.38	71.500	<50.0	<0.01	<0.005	43.60	<0.005	0.0220	<0.1	0.2400	30.00		1.04	0.008	9.07	10.800	0.90	3.21	0.190	0.0150	0.05	7	0.4300	5840.00	<0.01	187.00	<0.5	<0.002	2.7100	<0.2	1.100	<0.1
R9	**3/10/2010**	<0.005	2.20	0.42	71.800	<50.0	<0.01	<0.005	45.30	<0.005	0.0220	<0.1	0.2800	34.00		1.08	0.009	9.19	10.600	0.98	3.38	0.250	0.1600	0.06	<10.0	0.4800	6850.00	<0.01	193.00	<0.5	<0.002	3.0200	<0.2	3.600	<0.1
R9	**4/11/2010**	<0.005	1.50	0.39	72.200	<50.0	<0.01	<0.005	44.50	0.01	0.0180	<0.1	0.1900	22.00		1.11	0.009	9.37	8.350	0.96	3.47	0.170	0.0230	0.05	<10.0	0.4500	6230.00	<0.01	188.00	<0.5	<0.002	2.9700	<0.2	0.700	<0.1
R9	**5/3/2010**	<0.005	58.20	0.68	39.000	<50.0	<0.01	<0.005	17.70	0.03	0.0800	<0.1	1.8900	244.00		1.34	0.003	3.32	22.600	0.39	1.43	0.970	0.8420	0.07	<10.0	0.1700	3350.00	<0.01	78.50	0.70	0.00	0.7110	<0.2	4.000	0.20
R9	**6/5/2010**	<0.005	36.00	0.45	30.000	<50.0	<0.01	0.01	15.50	0.02	0.0380	<0.1	0.9500	84.00		0.53	0.002	3.69	6.780	0.31	1.66	0.670	1.5700	0.07	<10.0	0.1500	4720.00	0.02	62.40	<0.5	<0.002	0.6100	<0.2	5.600	<0.1
R9	**7/8/2010**	<0.005	15.50	0.51	37.300	<50.0	<0.01	0.01	16.90	0.01	0.0250	<0.1	0.6000	79.00		0.44	0.003	3.79	7.860	0.35	1.54	0.290	1.1800	0.08	<10.0	0.1700	4170.00	<0.01	81.60	<0.5	<0.002	0.6690	<0.2	2.000	<0.1
R9	**8/3/2010**	<0.005	8.10	0.72	50.600	<50.0	<0.01	<0.005	26.40	0.01	0.0290	<0.1	0.5500	107.00		0.64	0.004	6.12	11.400	0.56	2.10	0.620	0.6090	0.07	<10.0	0.2400	3750.00	<0.01	116.00	<0.5	<0.002	1.1900	<0.2	3.500	<0.1
R9	**9/1/2010**	<0.005	8.10	0.60	47.300	<50.0	<0.01	0.01	27.40	0.02	0.0510	<0.1	0.5600	129.00		0.76	0.004	5.74	16.300	0.54	2.10	0.460	1.0800	0.06	<10.0	0.2100	4530.00	<0.01	116.00	<0.5	<0.002	1.2600	<0.2	10.800	<0.1
R9	**10/19/2010**	0.0060	5.40	0.56	52.300	<50.0	<0.01	<0.005	34.00	0.02	0.0310	<0.1	0.5300	109.00		0.85	0.005	6.84	17.100	0.61	2.50	0.380	0.7130	0.07	<10.0	0.3100	5700.00	0.02	135.00	<0.5	<0.002	1.6100	<0.2	4.400	<0.1
R9	**11/10/2010**	<0.005	3.30	0.35	61.900	<50.0	<0.01	<0.005	36.10	0.02	0.1900	<0.1	0.5100	116.00		1.55	0.006	8.36	39.800	0.75	3.29	0.470	0.2380	0.06	<10.0	0.3200	5730.00	0.02	153.00	<0.5	0.00	1.8100	<0.2	52.600	<0.1
R9	**12/1/2010**	<0.005	2.30	0.38	64.500	<50.0	<0.01	<0.005	38.70	0.01	0.0260	<0.1	0.5300	57.00		0.86	0.006	8.08	14.600	0.68	2.69	0.270	0.0520	0.06	<10.0	0.3400	5990.00	0.02	160.00	<0.5	<0.002	2.0000	<0.2	3.700	<0.1
R9 Average		0.0028	12.06	0.48	55.583	25.00	0.01	0.00	32.38	0.01	0.0464	0.05	0.5975	87.00		0.93	0.005	6.89	15.091	0.66	2.54	0.415	0.5555	0.06	5	0.3075	5263.33	0.01	136.71	0.29	0.00	1.7600	0.10	7.800	0.06
R9 Max		0.0060	58.20	0.72	72.200	<50.0	<0.01	0.01	45.30	0.03	0.1900	<0.1	1.8900	244.00		1.55	0.009	9.37	39.800	0.98	3.47	0.970	1.5700	0.08	<10.0	0.4800	6850.00	0.02	193.00	0.70	0.00	3.0200	<0.2	52.600	0.20
R9 Min		<0.005	1.50	0.35	30.000	<50.0	<0.01	<0.005	15.50	<0.005	0.0180	<0.1	0.1900	22.00		0.44	0.002	3.32	6.780	0.31	1.43	0.170	0.0150	0.05	7	0.1500	3350.00	<0.01	62.40	<0.5	<0.002	0.6100	<0.2	0.700	<0.1
R9 N > DL		1	12	12	12	0	0	3	12	9	12	0	12	12	0	12	12	12	12	12	12	12	12	12	2	12	12	4	12	1	2	12	0	12	1
R9 Median		<0.005	4.35	0.44	57.100	<50.0	<0.01	<0.005	35.05	0.01	0.0275	<0.1	0.5300	81.50		0.93	0.005	7.46	13.000	0.65	2.60	0.335	0.4235	0.07	<10.0	0.3150	5715.00	<0.01	144.00	<0.5	<0.002	1.7100	<0.2	3.650	<0.1
RCSG#4	**1/12/2010**	<0.005	1.90	0.21	68.800	<50.0	<0.01	<0.005	45.10	0.09	0.1120	<0.1	0.7400	218.00		1.18	0.007	10.20	63.200	0.68	3.07	0.710	0.4000	0.08	10	0.4000	5790.00	<0.01	188.00	<0.5	0.00	2.5400	<0.2	38.300	<0.1
RCSG#4	**3/10/2010**	<0.005	1.70	0.22	72.200	<50.0	<0.01	<0.005	48.20	0.01	0.1190	<0.1	0.2700	103.00		1.21	0.008	10.50	69.400	0.79	3.31	0.650	0.0510	0.05	11	0.3700	5170.00	<0.01	211.00	<0.5	<0.002	2.9700	<0.2	29.300	<0.1
RCSG#4	**4/13/2010**	<0.005	2.00	0.15	69.000	<50.0	<0.01	<0.005	44.00	0.02	0.1210	<0.1	0.2700	158.00		1.10	0.009	10.10	68.200	0.85	3.10	0.710	0.3210	0.06	<10.0	0.3700	4490.00	<0.01	205.00	<0.5	<0.002	3.0600	<0.2	36.800	<0.1
RCSG#4	**5/3/2010**	<0.005	38.70	0.58	38.200	<50.0	<0.01	<0.005	20.50	0.03	0.1330	<0.1	1.6700	359.00		1.32	0.002	4.19	54.000	0.34	1.46	1.160	0.7990	0.07	<10.0	0.1500	3330.00	<0.01	92.20	<0.5	0.00	0.8720	<0.2	23.100	<0.1
RCSG#4	**6/4/2010**	<0.005	27.70	0.32	28.800	<50.0	<0.01	0.01	14.20	0.02	0.0450	<0.1	0.8700	196.00		0.55	0.002	3.45	14.700	0.26	1.50	0.510	1.6000	0.08	<10.0	0.1000	4190.00	0.02	67.90	<0.5	<0.002	0.5820	<0.2	16.800	<0.1
RCSG#4	**7/8/2010**	<0.005	13.90	0.38	34.600	<50.0	<0.01	0.01	18.60	0.01	0.0470	<0.1	0.5800	352.00		0.48	0.002	3.55	20.900	0.28	1.51	0.320	0.8620	0.06	<10.0	0.1400	4440.00	<0.01	87.20	<0.5	0.00	0.6930	<0.2	26.500	<0.1
RCSG#4	**8/3/2010**	0.0180	17.50	0.51	48.900	<50.0	<0.01	0.01	27.30	0.04	0.1940	<0.1	1.3300	1520.00		1.00	0.004	6.33	78.900	0.46	2.40	2.030	2.6700	0.07	<10.0	0.2000	3560.00	0.03	127.00	<0.5	0.01	1.2100	<0.2	168.000	<0.1
RCSG#4 Average		0.0047	14.77	0.34	51.500	25.00	0.01	0.01	31.13	0.03	0.1101	0.05	0.8186	415.14		0.98	0.005	6.90	52.757	0.52	2.34	0.870	0.9576	0.07	7	0.2471	4424.29	0.01	139.76	0.25	0.00	1.7039	0.10	48.400	0.05
RCSG#4 Max		0.0180	38.70	0.58	72.200	<50.0	<0.01	0.01	48.20	0.09	0.1940	<0.1	1.6700	1520.00		1.32	0.009	10.50	78.900	0.85	3.31	2.030	2.6700	0.08	11	0.4000	5790.00	0.03	211.00	<0.5	0.01	3.0600	<0.2	168.000	<0.1
RCSG#4 Min		<0.005	1.70	0.15	28.800	<50.0	<0.01	<0.005	14.20	0.01	0.0450	<0.1	0.2700	103.00		0.48	0.002	3.45	14.700	0.26	1.46	0.320	0.0510	0.05	<10.0	0.1000	3330.00	<0.01	67.90	<0.5	<0.002	0.5820	<0.2	16.800	<0.1
RCSG#4 N > DL		1	7	7	7	0	0	3	7	7	7	0	7	7	0	7	7	7	7	7	7	7	7	7	2	7	7	2	7	0	4	7	0	7	0
RCSG#4 Median		<0.005	13.90	0.32	48.900	<50.0	<0.01	<0.005	27.30	0.02	0.1190	<0.1	0.7400	218.00		1.10	0.004	6.33	63.200	0.46	2.40	0.710	0.7990	0.07	<10.0	0.2000	4440.00	<0.01	127.00	<0.5	0.00	1.2100	<0.2	29.300	<0.1
W10	**5/3/2010**	0.0090	63.40	0.33	16.100	<50.0	0.02	<0.005	11.70	0.05	0.0560	<0.1	2.1500	69.00		0.92	0.001	1.76	1.860	0.14	1.13	0.670	0.8590	0.04	<10.0	0.0500	3870.00	<0.01	41.50	<0.5	0.00	0.1050	<0.2	11.800	0.20
W10	**6/5/2010**	<0.005	25.50	0.19	11.800	<50.0	0.02	0.01	11.20	0.03	0.0340	0.20	1.6300	23.00		0.42	0.001	1.57	2.380	0.18	1.52	0.680	1.8400	0.05	<10.0	0.0500	6090.00	0.05	41.40	<0.5	0.01	0.1260	<0.2	11.400	<0.1
W10	**7/10/2010**	<0.005	15.20	0.18	15.800	<50.0	<0.01	0.01	16.70	0.07	0.3050	<0.1	1.8800	53.00		0.62	0.001	2.56	23.600	0.14	2.00	1.010	3.1800	0.04	<10.0	0.0500	6900.00	0.02	59.60	<0.5	0.00	0.1180	0.30	146.000	<0.1
W10 Average		0.0047	34.70	0.23	14.567	25.00	0.02	0.01	13.20	0.05	0.1317	0.10	1.8867	48.33		0.65	0.001	1.96	9.280	0.15	1.55	0.787	1.9597	0.04	5	0.0500	5620.00	0.03	47.50	0.25	0.01	0.1163	0.17	56.400	0.10
W10 Max		0.0090	63.40	0.33	16.100	<50.0	0.02	0.01	16.70	0.07	0.3050	0.20	2.1500	69.00		0.92	0.001	2.56	23.600	0.18	2.00	1.010	3.1800	0.05	<10.0	0.0500	6900.00	0.05	59.60	<0.5	0.01	0.1260	0.30	146.000	0.20
W10 Min		<0.005	15.20	0.18	11.800	<50.0	<0.01	<0.005	11.20	0.03	0.0340	<0.1	1.6300	23.00		0.42	0.001	1.57	1.860	0.14	1.13	0.670	0.8590	0.04	<10.0	0.0500	3870.00	<0.01	41.40	<0.5	0.00	0.1050	<0.2	11.400	<0.1
W10 N > DL		1	3	3	3	0	2	2	3	3	3	1	3	3	0	3	3	3	3	3	3	3	3	3	0	3	3	2	3	0	3	3	1	3	1
W10 Median		<0.005	25.50	0.19	15.800	<50.0	0.02	0.01	11.70	0.05	0.0560	<0.1	1.8800	53.00		0.62	0.001	1.76	2.380	0.14	1.52	0.680	1.8400	0.04	<10.0	0.0500	6090.00	0.02	41.50	<0.5	0.00	0.1180	<0.2	11.800	<0.1
W8	**6/17/2010**	<0.005	7.90	0.17	41.800	<50.0	<0.01	<0.005	16.70	0.03	0.0310	<0.1	1.8100	38.00		0.69	0.002	2.62	11.200	0.38	1.68	0.330	0.8940	0.04	<10.0	0.0500	5650.00	<0.01	62.80	<0.5	0.01	0.1760	<0.2	13.100	<0.1
X10	**1/11/2010**	<0.005	1.70	0.14	69.800	<50.0	<0.01	<0.005	47.30	0.02	0.0540	<0.1	0.4100	34.00		1.14	0.007	11.50	25.500	0.67	3.06	0.790	0.2020	0.07	11	0.4200	6080.00	<0.01	192.00	<0.5	<0.002	2.5400	<0.2	43.600	<0.1
X10	**2/22/2010**	<0.005	1.20	0.14	71.800	<50.0	<0.01	<0.005	47.50	<0.005	0.0220	<0.1	0.3300	22.00		1.15	0.007	11.30	9.750	0.73	3.15	0.590	0.0260	0.07	10	0.4100	5500.00	<0.01	206.00	<0.5	<0.002	2.6900	<0.2	25.200	<0.1
X10	**3/10/2010**	<0.005	1.00	0.14	68.200	<50.0	<0.01	<0.005	46.40	0.01	0.0220	<0.1	0.2900	29.00		1.12	0.007	11.10	13.100	0.77	3.06	0.650	0.0340	0.07	<10.0	0.4300	5360.00	<0.01	198.00	<0.5	<0.002	2.8100	<0.2	29.400	<0.1
X10	**4/13/2010**	<0.005	2.10	0.12	69.600	<50.0	<0.01	<0.005	45.10	0.01	0.0350	<0.1	0.3500	35.00		1.10	0.008	10.70	14.900	0.80	3.15	0.760	0.4120	0.07	<10.0	0.4600	4940.00	0.02	208.00	<0.5	0.00	3.0100	<0.2	43.400	<0.1

NB: Metals reported in mg/L are shaded in gray.

Denison Environmental Services

Table C-2: Rose Creek Drainage Water Quality
2010 - Surface Water - Dissolved Metals

Faro Mine Closure

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
X10	5/3/2010	<0.005	36.70	0.56	37.900	<50.0	<0.01	0.01	19.90	0.03	0.1020	<0.1	1.7800	271.00		1.28	0.002	4.40	35.800	0.36	1.40	1.240	1.1600	0.08	<10.0	0.1600	3000.00	<0.01	90.20	0.60	0.01	0.8500	<0.2	18.400	<0.1
X10	6/4/2010	<0.005	26.60	0.30	27.900	<50.0	<0.01	0.01	15.40	0.02	0.0620	<0.1	0.9500	120.00		0.56	0.002	3.83	15.500	0.29	1.53	1.020	0.8980	0.06	<10.0	0.1200	3900.00	0.02	65.70	<0.5	0.00	0.5580	<0.2	17.300	<0.1
X10	7/8/2010	<0.005	18.80	0.36	35.800	<50.0	<0.01	0.01	17.70	0.02	0.0540	<0.1	0.6800	185.00		0.50	0.002	3.87	17.100	0.31	1.50	0.450	2.1700	0.07	<10.0	0.1400	3850.00	0.02	88.80	<0.5	0.00	0.6950	<0.2	14.300	<0.1
X10	8/3/2010	<0.005	9.40	0.48	48.000	<50.0	<0.01	<0.005	27.40	0.02	0.0710	<0.1	0.7800	261.00		0.80	0.003	6.89	26.400	0.50	2.19	0.580	1.8100	0.07	<10.0	0.2000	3650.00	<0.01	125.00	<0.5	0.00	1.2400	<0.2	24.100	<0.1
X10	9/2/2010	<0.005	4.70	0.40	47.700	<50.0	<0.01	<0.005	29.50	0.02	0.1310	<0.1	0.6600	267.00		0.90	0.003	6.56	29.100	0.47	2.21	0.690	0.9190	0.07	<10.0	0.2000	4260.00	<0.01	132.00	<0.5	0.00	1.3100	<0.2	34.200	<0.1
X10	10/21/2010	<0.005	2.60	0.32	53.200	<50.0	<0.01	<0.005	35.70	0.01	0.0840	<0.1	0.4200	194.00		0.80	0.004	8.06	36.900	0.57	2.28	0.530	0.3990	0.07	<10.0	0.3000	4900.00	<0.01	158.00	<0.5	<0.002	1.8100	<0.2	23.000	<0.1
X10	11/9/2010	<0.005	2.30	0.18	61.600	<50.0	<0.01	<0.005	39.30	0.02	0.0660	<0.1	0.4500	98.00		0.94	0.004	8.65	40.700	0.53	2.47	0.670	0.2490	0.06	<10.0	0.3000	5200.00	<0.01	173.00	<0.5	<0.002	1.9200	<0.2	37.000	<0.1
X10	12/1/2010	<0.005	1.50	0.13	61.300	<50.0	<0.01	<0.005	40.30	0.01	0.0890	<0.1	0.3300	70.00		1.03	0.005	9.08	42.200	0.47	2.68	0.670	0.1000	0.06	<10.0	0.2800	5470.00	<0.01	179.00	<0.5	<0.002	1.9500	<0.2	43.100	<0.1
X10 Average		0.0025	9.05	0.27	54.400	25.00	0.01	0.00	34.29	0.02	0.0660	0.05	0.6192	132.17		0.94	0.005	8.00	25.579	0.54	2.39	0.720	0.6983	0.07	6	0.2850	4675.83	0.01	151.31	0.28	0.00	1.7819	0.10	29.417	0.05
X10 Max		<0.005	36.70	0.56	71.800	<50.0	<0.01	0.01	47.50	0.03	0.1310	<0.1	1.7800	271.00		1.28	0.008	11.50	42.200	0.80	3.15	1.240	2.1700	0.08	11	0.4600	6080.00	0.02	208.00	0.60	0.01	3.0100	<0.2	43.600	<0.1
X10 Min		<0.005	1.00	0.12	27.900	<50.0	<0.01	<0.005	15.40	<0.005	0.0220	<0.1	0.2900	22.00		0.50	0.002	3.83	9.750	0.29	1.40	0.450	0.0260	0.06	10	0.1200	3000.00	<0.01	65.70	<0.5	<0.002	0.5580	<0.2	14.300	<0.1
X10 N > DL		0	12	12	12	0	0	3	12	11	12	0	12	12	0	12	12	12	12	12	12	12	12	12	2	12	12	3	12	1	6	12	0	12	0
X10 Median		<0.005	2.45	0.24	57.250	<50.0	<0.01	<0.005	37.50	0.02	0.0640	<0.1	0.4350	109.00		0.99	0.004	8.36	25.950	0.52	2.38	0.670	0.4055	0.07	<10.0	0.2900	4920.00	<0.01	165.50	<0.5	0.00	1.8650	<0.2	27.300	<0.1
X14	1/11/2010	<0.005	1.20	0.20	74.000	<50.0	<0.01	<0.005	111.00	0.06	1.7900	<0.1	0.4300	61.00		2.18	0.009	24.70	2620.000	0.92	8.97	4.910	0.0770	0.09	74	0.4400	6490.00	<0.01	348.00	<0.5	0.01	3.6400	<0.2	40.800	<0.1
X14	2/22/2010	<0.005	1.20	0.28	69.800	<50.0	<0.01	<0.005	124.00	0.06	2.5800	<0.1	0.2600	248.00		2.29	0.009	27.00	3450.000	0.81	9.76	5.870	0.0190	0.06	91	0.3500	5640.00	<0.01	386.00	<0.5	0.01	3.6400	<0.2	21.300	<0.1
X14	3/10/2010	<0.005	1.10	0.37	67.600	<50.0	<0.01	<0.005	132.00	0.06	2.9700	<0.1	0.2600	376.00		2.33	0.009	27.90	3830.000	0.87	10.20	6.490	0.0220	0.07	104	0.4000	5990.00	<0.01	394.00	<0.5	0.01	3.8500	<0.2	23.700	<0.1
X14	3/22/2010	<0.005	1.80	0.45	73.500	<50.0	<0.01	<0.005	149.00	0.07	3.7100	<0.1	0.2900	400.00	<0.01	2.67	0.011	30.80	4540.000	0.90	11.60	7.530	0.0520	0.07	123	0.4400	6570.00	<0.01	464.00	<0.5	0.01	4.0800	<0.2	34.500	<0.1
X14	3/30/2010	<0.005	1.60	0.33	60.300	<50.0	<0.01	<0.005	170.00	0.08	7.6500	<0.1	0.3100	301.00	<0.01	3.14	0.013	40.50	6040.000	0.89	14.90	13.800	0.1230	0.10	156	0.3300	6060.00	<0.01	524.00	<0.5	0.05	4.4800	<0.2	106.000	<0.1
X14	4/6/2010	<0.005	1.20	0.33	60.500	<50.0	<0.01	<0.005	196.00	0.10	8.9300	<0.1	0.3000	165.00	<0.01	3.59	0.013	40.60	7300.000	0.92	14.90	14.900	0.0750	0.09	173	0.3400	5800.00	<0.01	590.00	0.60	0.05	4.5700	<0.2	108.000	<0.1
X14	4/13/2010	<0.005	0.80	0.25	55.200	<50.0	<0.01	<0.005	174.00	0.09	6.1200	<0.1	0.2400	63.00	<0.01	2.97	0.013	33.90	5210.000	0.82	12.50	10.500	0.0540	0.07	147	0.3600	5890.00	<0.01	536.00	<0.5	0.05	4.2600	<0.2	82.100	<0.1
X14	4/20/2010	<0.005	9.20	0.29	48.100	<50.0	<0.01	<0.005	141.00	0.07	5.5700	<0.1	0.7500	102.00	<0.01	2.70	0.010	25.70	4250.000	0.72	9.84	9.640	0.3260	0.13	123	0.3000	4020.00	0.02	422.00	<0.5	0.04	2.8900	<0.2	62.000	<0.1
X14	4/27/2010	<0.005	16.80	0.58	40.100	<50.0	<0.01	0.01	52.60	0.05	0.8730	<0.1	1.3700	275.00	<0.01	1.81	0.005	10.10	887.000	0.49	3.84	2.280	0.7720	0.07	36	0.1900	3970.00	<0.01	176.00	<0.5	0.01	1.3800	<0.2	30.800	<0.1
X14	5/4/2010	<0.005	26.20	0.51	37.000	<50.0	<0.01	<0.005	81.70	0.05	3.4800	<0.1	1.5300	233.00	<0.01	2.03	0.007	14.90	2290.000	0.43	5.43	6.220	0.5350	0.08	70	0.1800	3000.00	<0.01	263.00	<0.5	0.07	1.4300	<0.2	57.500	<0.1
X14	5/11/2010	<0.005	15.20	0.51	38.000	<50.0	<0.01	0.01	71.90	0.04	2.4400	<0.1	1.1700	236.00	<0.01	1.71	0.007	14.60	1700.000	0.51	4.90	4.530	0.7980	0.09	61	0.2100	3650.00	<0.01	239.00	<0.5	0.07	1.4200	<0.2	42.300	<0.1
X14	5/18/2010	<0.005	24.60	0.41	32.900	<50.0	<0.01	<0.005	53.60	0.07	1.7900	<0.1	1.8000	187.00		1.54	0.005	11.40	1260.000	0.42	3.68	3.620	1.9000	0.08	44	0.1500	3840.00	0.02	178.00	<0.5	0.04	1.0300	<0.2	34.900	<0.1
X14	5/25/2010	<0.005	31.60	0.34	26.700	<50.0	<0.01	<0.005	30.30	0.02	0.7750	<0.1	1.5400	136.00		0.93	0.003	6.97	561.000	0.24	2.46	1.810	1.7300	0.07	21	0.1300	3400.00	<0.01	105.00	<0.5	0.02	0.5860	<0.2	21.600	<0.1
X14	6/1/2010	<0.005	18.40	0.32	28.500	<50.0	<0.01	0.01	38.70	0.03	1.4700	<0.1	0.7700	138.00		0.96	0.004	8.69	984.000	0.30	2.90	2.700	1.8200	0.07	30	0.1300	3460.00	<0.01	138.00	<0.5	0.03	0.7960	<0.2	30.800	<0.1
X14	6/8/2010	<0.005	10.30	0.33	32.200	<50.0	<0.01	<0.005	51.20	0.09	2.0700	<0.1	0.6400	135.00		1.16	0.005	11.90	1340.000	0.51	3.83	3.610	0.2480	0.08	41	0.1800	3360.00	<0.01	172.00	<0.5	0.05	1.0600	<0.2	35.900	<0.1
X14	6/15/2010	<0.005	8.40	0.34	33.500	<50.0	<0.01	<0.005	60.90	0.04	2.7000	<0.1	0.5700	173.00	<0.01	1.35	0.006	14.30	1710.000	0.35	4.62	4.480	0.4480	0.08	53	0.1800	4090.00	<0.01	199.00	<0.5	0.05	1.1500	<0.2	46.000	<0.1
X14	6/22/2010	<0.005	6.50	0.37	36.600	<50.0	<0.01	0.01	53.80	0.03	2.5800	<0.1	0.5700	148.00	<0.01	1.41	0.007	14.80	1630.000	0.39	4.66	4.140	0.1860	0.09	53	0.2000	2720.00	<0.01	212.00	<0.5	0.07	1.0500	<0.2	43.600	<0.1
X14	6/29/2010	<0.005	6.60	0.36	36.800	<50.0	<0.01	<0.005	75.00	0.03	3.2200	<0.1	0.6400	165.00	<0.01	1.50	0.006	17.10	1840.000	0.44	5.36	5.130	0.3620	0.10	61	0.1900	4490.00	<0.01	232.00	<0.5	0.08	1.0700	<0.2	45.900	<0.1
X14	6/29/2010	<0.005	6.20	0.34	36.500	<50.0	<0.01	<0.005	74.80	0.04	3.0800	<0.1	0.5700	160.00	<0.01	1.47	0.006	16.80	1820.000	0.46	5.23	4.810	0.2030	0.15	60	0.1700	4500.00	<0.01	233.00	<0.5	0.08	1.0900	<0.2	45.700	<0.1
X14	7/6/2010	<0.005	12.30	0.36	31.300	<50.0	<0.01	<0.005	52.70	0.03	2.0100	<0.1	0.6600	159.00		1.14	0.005	12.20	1270.000	0.35	4.07	3.280	0.7310	0.10	44	0.1400	4490.00	<0.01	173.00	<0.5	0.05	0.8420	<0.2	30.100	<0.1
X14	7/13/2010	<0.005	7.30	0.36	36.700	<50.0	<0.01	<0.005	69.80	0.04	2.8900	<0.1	0.6300	165.00		1.63	0.008	17.10	1750.000	0.57	5.55	4.580	0.9780	0.10	67	0.1600	4180.00	<0.01	246.00	0.60	0.08	1.1200	<0.2	42.200	<0.1
X14	7/20/2010	<0.005	4.50	0.39	38.300	<50.0	<0.01	<0.005	80.60	0.05	4.0300	<0.1	0.6400	192.00		1.75	0.010	17.30	2350.000	0.48	5.67	5.910	0.3090	0.11	71	0.2300	3930.00	<0.01	289.00	<0.5	0.10	1.4400	<0.2	56.500	<0.1
X14	7/27/2010	<0.005	6.70	0.37	42.100	<50.0	<0.01	<0.005	91.20	0.08	4.0100	<0.1	1.5200	196.00	<0.01	2.29	0.011	21.60	2330.000	0.51	6.91	6.150	3.2800	0.13	91	0.1800	4170.00	0.02	317.00	<0.5	0.13	1.3800	<0.2	72.100	<0.1
X14	8/3/2010	0.0360	8.90	0.45	49.600	<50.0	<0.01	<0.005	42.00	0.07	0.4490	<0.1	1.7100	275.00	<0.01	2.69	0.004	9.63	591.000	0.54	4.44	1.690	2.1400	0.09	23	0.2200	3790.00	0.06	165.00	<0.5	0.01	1.5100	<0.2	45.100	<0.1
X14	8/10/2010	<0.005	6.90	0.39	45.500	<50.0	<0.01	<0.005	91.90	0.05	3.4200	<0.1	0.5500	184.00	<0.01	2.11	0.011	21.40	2150.000	0.57	6.99	5.220	0.8440	0.13	86	0.1900	3940.00	<0.01	330.00	<0.5	0.12	1.4400	<0.2	57.600	<0.1
X14	8/17/2010	<0.005	4.20	0.40	47.700	<50.0	<0.01	<0.005	97.30	0.06	2.9000	<0.1	1.0100	206.00		2.36	0.012	22.00	1980.000	0.61	7.25	4.820	0.5800	0.13	94	0.1700	3850.00	<0.01	347.00	<0.5	0.13	1.5800	<0.2	51.700	<0.1
X14	8/24/2010	<0.005	3.60	0.38	42.100	<50.0	<0.01	<0.005	72.80	0.04	2.0400	<0.1	0.5000	258.00	<0.01	1.63	0.008	15.90	1340.000	0.49	5.25	3.520	0.2890	0.09	60	0.1800	3520.00	<0.01	249.00	<0.5	0.08	1.3800	<0.2	39.900	<0.1
X14	8/31/2010	<0.005	3.90	0.35	45.000	<50.0	<0.01	<0.005	93.70	0.03	2.7200	<0.1	0.3900	166.00		1.90	0.010	19.60	1790.000	0.51	6.33	4.080	0.4920	0.11	81	0.2200	4090.00	<0.01	309.00	<0.5	0.12	1.5700	<0.2	42.000	<0.1
X14	9/7/2010	<0.005	4.90	0.44	43.100	<50.0	<0.01	<0.005	67.00	0.04	2.0600	<0.1	0.6400	227.00		1.62	0.008	14.90	1420.000	0.52	5.13	3.550	0.5930	0.09	61	0.2000	3700.00	<0.01	242.00	<0.5	0.07	1.3800	<0.2	37.800	<0.1
X14	10/21/2010	<0.005	4.00	0.32	54.800	<50.0	<0.01	<0.005	64.90	0.05	0.9610	<0.1	0.5100	220.00		1.47	0.005	14.60	1360.000	0.61	4.72	2.520	0.4980	0.07	40	0.3100	4730.00	<0.01	237.00	<0.5	0.00	2.3000	<0.2	23.900	<0.1
X14	11/9/2010	<0.005	2.20	0.27	59.500	<50.0	<0.01	<0.005	69.00	0.04	1.0700	<0.1	0.7700	185.00		1.64	0.006	15.10	1530.000	0.63	4.94	3.000	0.2720	0.07	43	0.2800	5280.00	<0.01	243.00	<0.5	0.00	2.3900	<0.2	38.200	<0.1
X14	11/18/2010	<0.005	1.40	0.25	57.500	<50.0	<0.01	<0.005	194.00	0.09	13.0000	<0.1	0.3000	194.00		3.18	0.012	38.20	8710.000	0.56	12.10	18.100	0.0700	0.08	175	0.2100	6880.00	<0.01	539.00	<0.5	0.07	3.1300	<0.2	123.000	<0.1
X14	11/25/2010	<0.03	2.00	0.20	57.200	<300.0	<0.05	<0.03	161.00	0.07	13.8000	<0.5	<0.3	196.00		2.50	0.010	35.00	8360.000	0.40	11.00	19.400	0.0600	<0.1	140	<0.2	6010.00	<0.05	461.00	<3.0	0.05	2.8200	<1.0	119.000	<0.5
X14	12/2/2010	<0.03	3.00	<0.1	56.100	<300.0	<0.05	<0.03	160.00	0.05	14.0000	<0.5	0.4000	185.00		2.60	0.010	34.80	8640.000	0.50	11.00	20.000	0.1000	<0.1	142	<0.2	6370.00	<0.05	462.00	<3.0	0.05	2.9400	<1.0	114.000	<0.5
X14 Average		0.0042	7.79	0.35	46.891	32.35	0.01	0.00	95.57	0.05	3.9164	0.06	0.7174	197.35	0.01	2.01	0.008	20.65	2906.853	0.57	7.09	6.553	0.6172	0.09	81	0.2282	4584.41	0.01	306.47	0.34	0.05	2.0792	0.12	53.132	0.06
X14 Max		0.0360	31.60	0.58	74.000	<300.0	<0.05	<0.03	196.00	0.10	14.0000	<0.5	1.8000	400.00	<0.01	3.59	0.013	40.60	8710.000	0.92	14.90	20.000	3.2800	0.15	175	0.4400	6880.00	0.06	590.00	<3.0	0.13	4.5700	<1.0	123.000	<0.5
X14 Min		<0.005	0.80	<0.1	26.700	<50.0	<0.01	<0.005	30.30	0.02	0.4490	<0.1	0.2400	61.00	<0.01	0.93	0.003	6.97	561.000	0.24	2.46	1.690	0.0190	0.06	21	0.1300	2720.00	<0.01	105.00	<0.5	0.00	0.5860	<0.2	21.300	<0.1
X14 N > DL		1	34	33	34	0	0	4	34	34	34	0	33	34	0	34	34	34	34	34	34	34	34	32	34	32	34	4	34	2	34	34	0	34	0
X14 Median		<0.005	5.55	0.36	44.050	<50.0	<0.01	<0.005	77.80	0.05	2.8050	<0.1	0.6350	186.00	<0.01	1.86	0.008	17.10	1830.000	0.51	5.49	4.815	0.3440	0.09	69	0.1500	4130.00	<0.01	256.00	<0.5	0.05	1.4400	<0.2	42.950	<0.1
X2	1/11/2010	<0.005	1.70	0.26	68.600	<50.0	<0.01	<0.005	46.00	0.02	0.1740	<0.1	0.3000	57.00		1.07	0.008	10.50	73.500	0.77	3.43	0.740	0.1310	0.07	11	0.4100	6360.00	<0.01	181.00	<0.5	0.00	2.5700	<0.2	23.900	<0.1
X2	2/22/2010	<0.005	2.20	0.25	71.800	<50.0	<0.01	<0.005	48.20	0.02	0.1670	<0.1	0.2900	50.00		1.16	0.009	10.70	72.800	0.82	3.48	0.660	0.0430	0.06	11	0.4100	6390.00	<0.01	199.00	<0.5	<0.002	2.7800	<0.2	22.800	<0.1
X2	3/10/2010	<0.005	1.60	0.22	69.700	<50.0	<0.01	<0.005	45.50	0.02	0.1730	<0.1	0.2400	54.00		1.08	0.009	10.20	77.400	0.91	3.36	0.670	0.0430	0.06	<10.0	0.4400	5730.00	<0.01	193.00	<0.5	<0.002	2.9100	<0.2	25.000	<0.1
X2	4/14/2010	<0.005	2.80	0.23	77.200	<50.0	<0.01	<0.005	46.50	0.02	0.2360	<0.1	0.4700	48.00		1.14	0.010	10.40	85.200	1.03	3.60	1.160	0.4610	0.06	<10.0	0.4400	6100.00	<0.01	215.00	<0.5	0.00	3.1800	<0.2	31.000	<0.1
X2	5/3/2010	<0.005	59.20	0.62	38.000	<50.0	0.02	<0.005	17.80	0.05	0.1560	<0.1	2.1400	260.00		1.36	0.003	3.60	35.700	0.36	1.46	1.170	1.2700	0.09	<10.0	0.1700	3340.00	<0.01	78.40	0.60	0.01	0.6390	<0.2	15.800	0.20

NB: Metals reported in mg/L are shaded in gray.

Table C-2: Rose Creek Drainage Water Quality
2010 - Surface Water - Dissolved Metals

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
X2	**6/4/2010**	<0.005	29.80	0.40	26.200	<50.0	<0.01	<0.005	13.60	0.03	0.0640	<0.1	0.9500	81.00		0.53	0.002	3.40	12.400	0.26	1.56	0.530	1.4800	0.07	<10.0	0.1200	4530.00	<0.01	54.40	<0.5	0.00	0.4540	<0.2	11.700	<0.1
X2	**7/8/2010**	0.0060	18.80	0.49	38.800	<50.0	<0.01	0.01	18.90	0.04	0.0600	<0.1	1.3200	95.00		0.59	0.003	3.93	17.000	0.34	1.66	0.710	3.4000	0.10	<10.0	0.1600	4510.00	0.05	86.40	<0.5	0.01	0.6790	<0.2	23.100	<0.1
X2	**8/3/2010**	<0.005	12.10	0.60	54.400	<50.0	<0.01	<0.005	26.50	0.02	0.0960	<0.1	0.6400	147.00		0.67	0.005	6.22	35.300	0.56	2.16	0.510	2.3400	0.08	<10.0	0.2000	3840.00	<0.01	119.00	<0.5	0.00	1.1900	<0.2	11.700	<0.1
X2	**9/2/2010**	<0.005	6.10	0.50	46.300	<50.0	<0.01	<0.005	30.30	0.07	1.1400	<0.1	0.5600	285.00		1.06	0.004	7.25	124.000	0.52	2.59	1.800	1.4400	0.06	<10.0	0.2200	5320.00	<0.01	122.00	<0.5	0.01	1.1400	<0.2	392.000	<0.1
X2	**10/18/2010**	<0.005	4.50	0.42	51.600	<50.0	<0.01	<0.005	31.50	0.02	0.1420	<0.1	0.5000	116.00		0.75	0.005	7.36	68.600	0.62	2.46	0.550	0.8060	0.07	<10.0	0.3400	5360.00	0.07	135.00	<0.5	0.00	1.5100	<0.2	14.400	<0.1
X2	**11/9/2010**	<0.005	2.60	0.26	63.100	<50.0	<0.01	<0.005	37.60	0.01	0.1960	<0.1	0.3600	64.00		0.87	0.006	8.03	80.500	0.58	2.61	0.750	0.2680	0.07	<10.0	0.2900	5610.00	<0.01	155.00	<0.5	0.00	1.8600	<0.2	22.600	<0.1
X2	**12/1/2010**	<0.005	2.50	0.25	66.100	<50.0	<0.01	<0.005	40.10	0.08	0.1680	<0.1	0.4100	64.00		0.98	0.007	9.31	67.200	0.57	2.97	0.640	0.4070	0.05	<10.0	0.3300	6010.00	<0.01	169.00	<0.5	0.00	1.9700	<0.2	19.000	<0.1
X2 Average		0.0028	11.99	0.38	55.983	25.00	0.01	0.00	33.54	0.03	0.2310	0.05	0.6817	110.08		0.94	0.006	7.58	62.467	0.61	2.61	0.824	1.0074	0.07	6	0.2942	5258.33	0.01	142.27	0.28	0.00	1.7402	0.10	51.083	0.06
X2 Max		0.0060	59.20	0.62	77.200	<50.0	0.02	0.01	48.20	0.08	1.1400	<0.1	2.1400	285.00		1.36	0.010	10.70	124.000	1.03	3.60	1.800	3.4000	0.10	11	0.4400	6390.00	0.07	215.00	0.60	0.01	3.1800	<0.2	392.000	0.20
X2 Min		<0.005	1.60	0.22	26.200	<50.0	<0.01	<0.005	13.60	0.01	0.0600	<0.1	0.2400	48.00		0.53	0.002	3.40	12.400	0.26	1.46	0.510	0.0430	0.05	<10.0	0.1200	3340.00	<0.01	54.40	<0.5	<0.002	0.4540	<0.2	11.700	<0.1
X2 N > DL		1	12	12	12	0	1	1	12	12	12	0	12	12	0	12	12	12	12	12	12	12	12	12	2	12	12	2	12	1	10	12	0	12	1
X2 Median		<0.005	3.65	0.33	58.750	<50.0	<0.01	<0.005	34.55	0.02	0.1675	<0.1	0.4850	72.50		1.02	0.005	7.70	70.700	0.58	2.60	0.690	0.6335	0.07	<10.0	0.3100	5485.00	<0.01	145.00	<0.5	0.00	1.6850	<0.2	22.700	<0.1
X22b	**1/11/2010**	<0.03	7.00	0.20	17.400	<300.0	0.07	<0.03	160.00	17.80	56.2000	<0.5	7.9000	<5.0		8.73	0.065	82.40	3370.000	0.70	22.20	143.000	0.4300	0.40	238	<0.2	4070.00	<0.05	641.00	<3.0	0.49	1.2800	<1.0	23100.000	<0.5
X22b	**2/22/2010**	<0.03	11.00	0.20	22.200	<300.0	0.25	<0.03	150.00	29.10	47.9000	<0.5	9.1000	6.00		7.47	0.056	80.10	2730.000	0.60	17.20	138.000	1.3200	0.20	235	<0.2	7280.00	<0.05	571.00	<3.0	0.38	1.5000	<1.0	27600.000	<0.5
X22b	**3/10/2010**	<0.03	10.00	0.20	22.500	<300.0	0.22	<0.03	140.00	25.80	47.0000	<0.5	15.0000	6.00		7.40	0.058	77.00	2690.000	0.60	17.30	137.000	0.8200	0.20	199	0.3000	6190.00	0.07	557.00	<3.0	0.39	1.6300	<1.0	27300.000	<0.5
X22b	**4/13/2010**	0.0400	7.00	0.20	22.900	<300.0	0.11	<0.03	130.00	9.47	40.9000	<0.5	0.8000	<5.0		6.70	0.059	68.80	2320.000	0.70	15.80	110.000	0.4600	0.30	186	<0.2	5340.00	<0.05	574.00	<3.0	0.36	3.1600	<1.0	19000.000	<0.5
X22b	**5/3/2010**	<0.005	1.90	<0.02	13.000	<50.0	0.02	<0.005	39.10	4.51	8.9500	<0.1	3.5900	5.00		1.90	0.013	15.50	559.000	0.14	3.98	24.200	0.8210	0.07	57	0.0600	1250.00	<0.01	159.00	<0.5	0.10	0.2210	<0.2	3610.000	<0.1
X22b	**6/4/2010**	0.0700	33.00	0.20	16.800	<300.0	0.08	<0.03	145.00	17.50	50.7000	<0.5	12.0000	9.00		7.90	0.057	79.30	2920.000	0.50	19.70	125.000	0.1400	0.30	222	<0.2	4340.00	<0.05	590.00	<3.0	0.41	1.2100	<1.0	21200.000	<0.5
X22b	**7/10/2010**	<0.03	21.00	0.20	16.700	<300.0	<0.05	<0.03	139.00	16.80	51.9000	<0.5	7.5000	16.00		8.00	0.058	74.30	3030.000	0.40	18.50	130.000	2.1700	0.20	206	<0.2	3780.00	0.06	622.00	<3.0	0.48	1.2200	<1.0	21700.000	<0.5
X22b	**8/3/2010**	0.0140	1.90	0.13	16.200	<50.0	0.02	<0.005	138.00	15.60	51.0000	<0.1	5.8500	15.00		7.55	0.056	75.20	2750.000	0.55	18.50	125.000	0.6270	0.24	274	0.1500	3410.00	<0.01	608.00	<0.5	0.40	1.2200	<0.2	17900.000	<0.1
X22b	**9/1/2010**	0.0110	2.60	0.14	17.000	<50.0	0.05	<0.005	137.00	16.90	55.2000	<0.1	6.0300	8.00		8.44	0.059	77.70	3090.000	0.50	19.60	142.000	0.8740	0.20	229	0.0900	3330.00	0.04	623.00	<0.5	0.46	1.2100	<0.2	20700.000	<0.1
X22b	**10/20/2010**	0.0210	3.60	0.14	16.200	<50.0	0.05	<0.005	152.00	16.30	55.0000	<0.1	4.7700	13.00		9.62	0.062	80.20	3100.000	0.55	20.90	138.000	0.2650	0.27	265	0.1600	3650.00	0.02	658.00	<0.5	0.45	1.1600	<0.2	19100.000	<0.1
X22b	**11/8/2010**	<0.03	4.00	<0.1	15.700	<300.0	<0.05	<0.03	143.00	15.00	53.4000	<0.5	3.6000	9.00		8.60	0.062	77.50	3350.000	0.50	20.70	145.000	0.2400	0.20	249	<0.2	3750.00	<0.05	608.00	<3.0	0.42	1.1200	<1.0	21400.000	<0.5
X22b	**12/1/2010**	<0.03	6.00	<0.1	16.000	<300.0	<0.05	<0.03	153.00	16.60	53.4000	<0.5	5.3000	13.00		8.90	0.062	81.90	3420.000	0.60	20.70	141.000	0.0700	0.20	269	<0.2	4060.00	<0.05	649.00	<3.0	0.44	1.2100	<1.0	21700.000	<0.5
X22b Average		0.0207	9.08	0.14	17.717	108.33	0.08	0.01	135.51	16.78	47.6292	0.18	6.7867	8.75		7.60	0.056	72.49	2777.417	0.53	17.92	124.850	0.6864	0.23	219	0.1217	4204.17	0.03	571.67	1.08	0.40	1.3451	0.37	20359.167	0.18
X22b Max		0.0700	33.00	0.20	22.900	<300.0	0.25	<0.03	160.00	29.10	56.2000	<0.5	15.0000	16.00		9.62	0.065	82.40	3420.000	0.70	22.20	145.000	2.1700	0.40	274	0.3000	7280.00	0.07	658.00	<3.0	0.49	3.1600	<1.0	27600.000	<0.5
X22b Min		<0.005	1.90	<0.02	13.000	<50.0	0.02	<0.005	39.10	4.51	8.9500	<0.1	0.8000	<5.0		1.90	0.013	15.50	559.000	0.14	3.98	24.200	0.0700	0.07	57	0.0600	1250.00	<0.01	159.00	<0.5	0.10	0.2210	<0.2	3610.000	<0.1
X22b N > DL		5	12	9	12	0	9	0	12	12	12	0	12	10	0	12	12	12	12	12	12	12	12	12	12	5	12	4	12	0	12	12	0	12	0
X22b Median		<0.03	6.50	0.17	16.750	<300.0	0.10	<0.03	141.50	16.70	51.4500	<0.5	5.9400	8.50		7.95	0.059	77.60	2975.000	0.55	19.05	137.500	0.5435	0.20	232	<0.2	3920.00	<0.05	608.00	<3.0	0.42	1.2150	<1.0	21300.000	<0.5
X3	**1/11/2010**	<0.005	1.50	0.23	66.200	<50.0	<0.01	<0.005	45.80	0.01	0.1000	<0.1	0.3700	30.00		1.15	0.007	10.40	51.600	0.74	3.28	0.630	0.0970	0.07	11	0.4000	6180.00	<0.01	186.00	<0.5	<0.002	2.5600	<0.2	21.200	<0.1
X3	**2/22/2010**	<0.005	1.70	0.20	69.100	<50.0	<0.01	<0.005	47.80	0.01	0.1050	<0.1	0.2900	28.00		1.19	0.008	10.60	48.800	0.75	3.38	0.580	0.0410	0.05	11	0.3900	6170.00	<0.01	199.00	<0.5	<0.002	2.6800	<0.2	20.000	<0.1
X3	**3/9/2010**	<0.005	1.40	0.19	67.400	<50.0	<0.01	<0.005	46.00	0.05	0.2880	<0.1	0.4200	24.00		1.17	0.008	11.10	123.000	0.79	3.31	2.080	0.0810	0.06	13	0.4000	5390.00	<0.01	196.00	<0.5	<0.002	2.8800	<0.2	159.000	<0.1
X3	**4/14/2010**	<0.005	1.80	0.21	70.200	<50.0	<0.01	<0.005	47.80	0.02	0.1380	<0.1	0.2400	30.00		1.17	0.009	10.60	55.200	0.87	3.51	0.980	0.2310	0.06	<10.0	0.4600	6940.00	0.02	203.00	<0.5	0.00	3.0100	<0.2	25.500	<0.1
X3	**5/3/2010**	<0.005	42.40	0.60	37.100	<50.0	<0.01	0.01	18.90	0.04	0.1320	<0.1	1.7700	270.00		1.30	0.002	3.82	47.600	0.35	1.43	1.380	1.0100	0.07	<10.0	0.1600	3190.00	<0.01	87.60	0.60	0.01	0.8450	<0.2	14.200	<0.1
X3	**6/4/2010**	<0.005	23.80	0.32	23.800	<50.0	<0.01	<0.005	13.10	0.02	0.0370	<0.1	0.7400	77.00		0.54	0.001	2.93	8.850	0.20	1.48	0.440	0.9920	0.06	<10.0	0.0900	3940.00	0.02	58.00	<0.5	<0.002	0.5050	<0.2	4.500	<0.1
X3	**7/8/2010**	0.0060	19.50	0.39	33.400	<50.0	<0.01	0.02	15.90	0.02	0.0500	<0.1	0.8200	91.00		0.52	0.002	3.08	13.600	0.25	1.53	0.380	3.7200	0.08	<10.0	0.1100	3930.00	0.04	83.70	<0.5	0.01	0.6420	<0.2	12.500	<0.1
X3	**8/3/2010**	<0.005	11.20	0.51	45.800	<50.0	<0.01	<0.005	25.20	0.01	0.0550	<0.1	0.6800	139.00		0.69	0.003	5.34	26.200	0.46	2.04	0.460	1.9000	0.06	<10.0	0.1900	4030.00	<0.01	116.00	<0.5	0.00	1.1300	<0.2	6.800	<0.1
X3	**9/2/2010**	<0.005	6.20	0.47	44.500	<50.0	<0.01	<0.005	28.10	0.02	0.1990	<0.1	0.6000	137.00		0.90	0.003	5.88	34.300	0.46	2.36	0.670	0.6880	0.06	<10.0	0.1600	4940.00	<0.01	122.00	<0.5	0.00	1.1200	<0.2	42.800	<0.1
X3	**10/21/2010**	<0.005	3.40	0.36	50.300	<50.0	<0.01	<0.005	33.50	0.03	0.0840	<0.1	0.5000	127.00		0.86	0.004	7.38	50.500	0.45	2.51	0.490	0.3240	0.05	<10.0	0.2400	5150.00	<0.01	158.00	<0.5	<0.002	1.6700	<0.2	30.000	<0.1
X3	**11/9/2010**	<0.005	2.60	0.26	59.300	<50.0	<0.01	<0.005	36.80	0.02	0.0710	<0.1	0.4300	65.00		0.96	0.005	7.86	43.600	0.45	2.65	0.540	0.4340	0.06	<10.0	0.2600	5330.00	<0.01	169.00	<0.5	<0.002	1.8300	<0.2	14.000	<0.1
X3	**12/1/2010**	<0.005	1.90	0.22	61.000	<50.0	<0.01	<0.005	38.70	0.01	0.0810	<0.1	0.3200	66.00		0.99	0.005	7.86	45.300	0.48	2.66	0.480	0.1000	0.05	<10.0	0.2600	5630.00	<0.01	175.00	<0.5	<0.002	1.9000	<0.2	11.600	<0.1
X3 Average		0.0028	9.78	0.33	52.342	25.00	0.01	0.00	33.13	0.02	0.1117	0.05	0.5983	90.33		0.95	0.005	7.24	45.713	0.52	2.51	0.759	0.8015	0.06	7	0.2600	5068.33	0.01	146.11	0.28	0.00	1.7310	0.10	30.175	0.05
X3 Max		0.0060	42.40	0.60	70.200	<50.0	<0.01	0.02	47.80	0.05	0.2880	<0.1	1.7700	270.00		1.30	0.009	11.10	123.000	0.87	3.51	2.080	3.7200	0.08	13	0.4600	6940.00	0.04	203.00	0.60	0.01	3.0100	<0.2	159.000	<0.1
X3 Min		<0.005	1.40	0.19	23.800	<50.0	<0.01	<0.005	13.10	0.01	0.0370	<0.1	0.2400	24.00		0.52	0.001	2.93	8.850	0.20	1.43	0.380	0.0410	0.05	<10.0	0.0900	3190.00	<0.01	58.00	<0.5	<0.002	0.5050	<0.2	4.500	<0.1
X3 N > DL		1	12	12	12	0	0	2	12	12	12	0	12	12	0	12	12	12	12	12	12	12	12	12	3	12	12	3	12	1	5	12	0	12	0
X3 Median		<0.005	3.00	0.29	54.800	<50.0	<0.01	<0.005	35.15	0.02	0.0920	<0.1	0.4650	71.50		0.98	0.004	7.62	46.450	0.46	2.58	0.560	0.3790	0.06	<10.0	0.2500	5240.00	<0.01	163.50	<0.5	<0.002	1.7500	<0.2	17.100	<0.1
X3A	**9/2/2010**	<0.005	5.50	0.46	45.900	<50.0	<0.01	<0.005	27.80	0.02	0.1180	<0.1	0.5500	138.00		0.86	0.003	6.25	34.900	0.42	2.29	0.550	0.5540	0.06	<10.0	0.1700	4400.00	<0.01	128.00	<0.5	0.00	1.2200	<0.2	25.200	<0.1
X3A	**10/21/2010**	<0.005	2.80	0.35	55.400	<50.0	<0.01	<0.005	34.70	0.01	0.0840	<0.1	0.4300	106.00		0.84	0.004	7.86	49.000	0.50	2.34	0.450	0.2420	0.05	<10.0	0.2700	5040.00	<0.01	160.00	<0.5	<0.002	1.7600	<0.2	7.900	<0.1
X3A	**11/9/2010**	<0.005	2.20	0.25	59.300	<50.0	<0.01	<0.005	38.90	0.02	0.0990	<0.1	0.4000	189.00		1.09	0.004	8.20	67.300	0.48	2.62	0.620	0.2000	0.06	<10.0	0.2500	5490.00	<0.01	166.00	<0.5	0.00	1.8200	<0.2	26.100	<0.1
X3A	**12/1/2010**	<0.005	1.60	0.24	60.400	<50.0	<0.01	<0.005	39.00	0.01	0.0940	<0.1	0.3400	177.00		1.05	0.005	8.00	60.700	0.49	2.66	0.450	0.0500	0.05	<10.0	0.2500	5480.00	<0.01	173.00	<0.5	<0.002	1.9000	<0.2	21.100	<0.1
X3A Average		0.0025	3.03	0.33	55.250	25.00	0.01	0.00	35.10	0.02	0.0988	0.05	0.4300	152.50		0.96	0.004	7.58	52.975	0.47	2.48	0.518	0.2615	0.06	5	0.2350	5102.50	0.01	156.75	0.25	0.00	1.6750	0.10	20.075	0.05
X3A Max		<0.005	5.50	0.46	60.400	<50.0	<0.01	<0.005	39.00	0.02	0.1180	<0.1	0.5500	189.00		1.09	0.005	8.20	67.300	0.50	2.66	0.620	0.5540	0.06	<10.0	0.2700	5490.00	<0.01	173.00	<0.5	0.00	1.9000	<0.2	26.100	<0.1
X3A Min		<0.005	1.60	0.24	45.900	<50.0	<0.01	<0.005	27.80	0.01	0.0840	<0.1	0.3400	106.00		0.84	0.003	6.25	34.900	0.42	2.29	0.450	0.0500	0.05	<10.0	0.1700	4400.00	<0.01	128.00	<0.5	<0.002	1.2200	<0.2	7.900	<0.1
X3A N > DL		0	4	4	4	0	0	0	4	4	4	0	4	4	0	4	4	4	4	4	4	4	4	4	0	4	4	0	4	0	2	4	0	4	0
X3A Median		<0.005	2.50	0.30	57.350	<50.0	<0.01	<0.005	36.80	0.02	0.0965	<0.1	0.4150	157.50		0.96	0.004	7.93	54.850	0.49	2.48	0.500	0.2210	0.06	<10.0	0.2500	5260.00	<0.01	163.00	<0.5	0.00	1.7900	<0.2	23.150	<0.1
X4	**1/11/2010**	<0.1	739.00	0.80	11.500	<1000.0	<0.2	<0.1	260.00	20.30	163.0000	<2.0	126.0000	76200.00		4.60	0.028	107.00	25500.000	<1.0	16.60	153.000	808.0000	<0.4	446	<0.8	7040.00	<0.2	946.00	<10.0	1.43	2.1400	<4.0	60000.000	<2.0
X4	**2/22/2010**	<0.03	393.00	0.50	12.600	<300.0	0.13	<0.03	234.00	12.90	123.0000	<0.5	75.8000	86000.00		4.56	0.022	73.10	20400.000	<0.3	13.10	111.000	375.0000	<0.1	382	<0.2	6270.00	<0.05	807.00	5.00	0.92	1.7600	<1.0	36900.000	<0.5
X4	**3/9/2010**	<0.05	17.00	<0.2	21.400	<500.0	<0.1	<0.05	200.00	2.93	77.1000	<1.0	5.8000	121000.00		3.80	0.016	39.20	16100.000	<0.5	9.80	65.000	0.8400	<0.2	230	<0.4	5920.00	<0.1	609.00	<5.0	0.30	1.6200	<2.0	17400.000	<1.0
X4	**4/13/2010**	<0.03	<1.0	<0.1	18.900	<300.0	<0.05	<0.03	178.00	0.74	59.3000	<0.5	<0.3	95100.00		3.00	0.014	26.40	14600.000	<0.3	8.20	49.100	0.1700	<0.1	212	<0.2	5240.00	<0.05	551.00	<3.0	0.12	1.8100	<1.0	7630.000	<0.5
X4	**5/3/2010**	<0.03	354.00	0.30	17.500	<300.0	0.07	<0.03	113.00	12.30	68.6000	<0.5	68.2000	40700.00		1.80	0.011	37.90	9030.000	<0.3	5.40	60.900	306.0000	0.20	205	<0.2	2250.00	<0.05	411.00	<3.0	0.73	0.7100	<1.0	22600.000	<0.5
X4	**6/4/2010**	0.1000	876.00	1.70	11.600	<500.0	0.20	<0.05	215.00	18.50	135.0000	<1.0	127.0000	60100.00		3.90	0.025	92.80	19900.000	<0.5	13.30	120.000	954.0000	<0.2	395	<0.4	5910.00	<0.1	766.00	<5.0	1.47	2.0900	<2.0	46500.000	<1.0

NB: Metals reported in mg/L are shaded in gray.

Denison Environmental Services

Table C-2: Rose Creek Drainage Water Quality
2010 - Surface Water - Dissolved Metals

Faro Mine Closure

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
X4	7/10/2010	<0.05	816.00	6.60	10.100	<500.0	0.30	<0.05	231.00	21.30	156.0000	<1.0	195.0000	57400.00		4.70	0.022	92.00	25800.000	<0.5	13.80	137.000	2830.0000	1.00	348	<0.4	5590.00	2.00	935.00	<5.0	3.67	2.4900	<2.0	51000.000	<1.0
X4	8/3/2010	<0.05	773.00	2.30	8.000	<500.0	<0.1	<0.05	200.00	21.10	133.0000	2.00	177.0000	46500.00		3.90	0.022	76.00	21700.000	<0.5	11.70	122.000	2680.0000	0.50	408	<0.4	4810.00	<0.1	770.00	<5.0	2.95	2.4800	<2.0	42300.000	<1.0
X4	9/2/2010	0.0100	791.00	4.25	6.120	<50.0	0.25	<0.005	228.00	20.60	148.0000	1.00	187.0000	48000.00		4.14	0.023	79.60	24200.000	<0.05	12.80	132.000	2560.0000	0.66	381	<0.04	6020.00	0.06	816.00	2.80	3.63	2.9300	<0.2	42700.000	<0.1
X4	10/20/2010	<0.03	46.00	0.30	7.800	<300.0	<0.05	<0.03	212.00	5.81	93.1000	<0.5	13.4000	57400.00		4.20	0.019	59.10	18400.000	<0.3	11.80	80.400	43.3000	0.40	332	<0.2	5780.00	<0.05	744.00	<3.0	1.01	0.4200	<1.0	21000.000	<0.5
X4	11/8/2010	<0.03	652.00	3.60	5.100	<300.0	0.21	<0.03	227.00	16.90	138.0000	0.90	142.0000	50900.00		4.10	0.022	73.00	23800.000	<0.3	12.60	123.000	1560.0000	0.50	401	<0.2	6340.00	<0.05	799.00	<3.0	2.56	2.0500	<1.0	37700.000	<0.5
X4	12/1/2010	<0.03	3.00	0.30	6.400	<300.0	<0.05	<0.03	194.00	2.33	67.5000	<0.5	1.2000	84300.00		3.60	0.015	34.50	17300.000	<0.3	9.90	57.300	0.0600	0.50	263	<0.2	6390.00	<0.05	597.00	<3.0	0.43	0.8800	<1.0	10300.000	<0.5
X4 Average		0.0271	455.04	1.73	11.418	202.08	0.12	0.02	207.67	12.98	113.4667	0.64	93.2125	68633.33		3.86	0.020	65.88	19727.500	0.20	11.58	100.892	1009.7808	0.36	334	0.1517	5630.00	0.21	729.25	2.53	1.60	1.7817	0.76	33002.500	0.38
X4 Max		<0.1	876.00	6.60	21.400	<1,000.0	0.30	<0.1	260.00	21.30	163.0000	<2.0	195.0000	121000.00		4.70	0.028	107.00	25800.000	<1.0	16.60	153.000	2830.0000	1.00	446	<0.8	7040.00	2.00	946.00	<10.0	3.67	2.9300	<4.0	60000.000	<2.0
X4 Min		0.0100	<1.0	<0.1	5.100	<50.0	<0.05	<0.005	113.00	0.74	59.3000	<0.5	<0.3	40700.00		1.80	0.011	26.40	9030.000	<0.05	5.40	49.100	0.0600	<0.1	205	<0.04	2250.00	<0.05	411.00	2.80	0.12	0.4200	<0.2	7630.000	<0.1
X4 N > DL		2	11	10	12	0	6	0	12	12	12	3	11	12	0	12	12	12	12	0	12	12	12	7	12	0	12	2	12	2	12	12	0	12	0
X4 Median		<0.03	522.50	0.07	10.800	<300.0	0.09	<0.03	213.50	14.90	128.0000	0.70	100.9000	58750.00		4.00	0.022	73.05	20150.000	<0.3	12.20	115.500	591.5000	0.30	365	<0.2	5915.00	0.03	768.00	3.75	1.22	1.9300	<1.0	37300.000	<0.5
X5	3/22/2010	<0.005	1.10	0.18	47.800	<50.0	<0.01	<0.005	382.00	0.14	16.7000	<0.1	0.4000	117.00	<0.01	8.36	0.029	82.10	11400.000	1.32	29.80	24.600	0.1340	0.23	407	0.2100	6960.00	<0.01	1220.00	<0.5	0.26	7.3900	<0.2	410.000	<0.1
X5	3/30/2010	<0.03	3.00	0.20	38.800	<300.0	<0.05	<0.03	300.00	0.12	22.6000	<0.5	0.5000	55.00	<0.05	5.60	0.024	73.60	12500.000	1.00	26.80	34.500	0.2600	0.30	309	<0.2	6200.00	<0.05	888.00	<3.0	0.19	6.1500	<1.0	399.000	<0.5
X5	4/6/2010	<0.03	<1.0	0.20	38.700	<300.0	<0.05	<0.03	320.00	0.10	25.4000	<0.5	0.4000	24.00	<0.05	5.80	0.023	70.80	14900.000	0.90	25.00	39.400	0.0500	0.20	346	<0.2	6200.00	<0.05	924.00	<3.0	0.18	5.6200	<1.0	403.000	<0.5
X5	4/13/2010	0.0400	2.00	0.20	32.100	<300.0	<0.05	<0.03	319.00	0.14	17.0000	<0.5	0.5000	102.00	<0.05	5.20	0.021	55.20	9880.000	0.80	20.40	25.000	0.1700	0.20	289	<0.2	4500.00	<0.05	952.00	<3.0	0.18	5.1100	<1.0	278.000	<0.5
X5	4/20/2010	<0.03	3.00	<0.1	23.000	<300.0	<0.05	<0.03	355.00	0.11	24.1000	<0.5	<0.3	24.00	<0.05	5.50	0.021	55.90	13400.000	0.60	22.20	35.200	1.0000	<0.1	314	0.3000	4110.00	<0.05	996.00	<3.0	0.17	3.3900	<1.0	252.000	<0.5
X5	4/27/2010	<0.03	3.00	<0.1	25.300	<300.0	<0.05	<0.03	258.00	0.11	6.8900	<0.5	0.7000	24.00	<0.05	4.40	0.022	40.10	4420.000	0.70	16.20	11.000	0.2000	0.20	257	<0.2	3020.00	<0.05	730.00	<3.0	0.16	2.7900	<1.0	199.000	<0.5
X5	5/4/2010	0.0700	6.00	0.20	20.100	<300.0	<0.05	<0.03	276.00	0.16	17.7000	<0.5	0.8000	23.00	<0.05	4.80	0.026	47.70	9700.000	0.60	17.70	27.400	4.4600	0.20	293	<0.2	2860.00	<0.05	816.00	<3.0	0.35	2.2500	<1.0	318.000	<0.5
X5	5/11/2010	<0.005	4.30	0.12	18.100	<50.0	<0.01	0.01	266.00	0.09	12.4000	<0.1	0.5700	21.00	<0.01	5.03	0.026	51.80	7130.000	0.55	16.90	17.600	0.8020	0.14	326	0.1900	3040.00	<0.01	795.00	<0.5	0.39	2.0300	<0.2	178.000	<0.1
X5	5/18/2010	<0.03	10.00	0.20	17.100	<300.0	<0.05	<0.03	230.00	0.13	10.9000	<0.5	0.7000	39.00	<0.05	4.60	0.027	48.30	6150.000	0.60	14.70	16.100	0.6900	<0.1	245	<0.2	2530.00	0.08	702.00	<3.0	0.41	1.6500	<1.0	179.000	<0.5
X5	5/25/2010	<0.03	4.00	<0.1	18.300	<300.0	<0.05	<0.03	238.00	0.16	11.2000	<0.5	<0.3	27.00	<0.05	4.60	0.025	53.10	6270.000	0.40	16.60	17.000	0.6600	<0.1	273	<0.2	2740.00	<0.05	669.00	<3.0	0.33	1.8000	<1.0	216.000	<0.5
X5	6/1/2010	0.0500	6.00	0.20	20.000	<300.0	<0.05	<0.03	271.00	0.14	18.9000	<0.5	0.4000	30.00	<0.05	5.20	0.029	63.00	10500.000	0.60	18.20	28.300	0.6700	<0.1	281	<0.2	3380.00	<0.05	825.00	<3.0	0.38	2.4400	<1.0	303.000	<0.5
X5	6/8/2010	<0.03	3.00	0.20	20.200	<300.0	<0.05	<0.03	312.00	0.14	22.5000	<0.5	0.4000	13.00	<0.05	6.40	0.034	72.10	12300.000	0.70	21.90	32.700	0.2600	<0.1	290	<0.2	3290.00	<0.05	931.00	<3.0	0.47	2.4600	<1.0	316.000	<0.5
X5	6/15/2010	<0.03	8.00	0.20	18.500	<300.0	<0.05	<0.03	299.00	0.15	22.7000	<0.5	0.8000	90.00	<0.05	6.10	0.035	73.80	12300.000	0.50	22.00	34.000	1.0700	0.20	365	<0.2	3800.00	<0.05	900.00	<3.0	0.46	1.7200	<1.0	323.000	<0.5
X5	6/22/2010	<0.005	1.80	0.20	16.700	<50.0	<0.01	<0.005	263.00	0.15	18.3000	<0.1	0.4000	19.00	<0.01	6.33	0.036	67.20	9990.000	0.59	19.80	25.100	0.1750	0.18	349	0.1200	2470.00	<0.01	927.00	<0.5	0.47	1.9000	<0.2	221.000	<0.1
X5	6/29/2010	<0.005	1.60	0.21	17.000	<50.0	<0.01	<0.005	295.00	0.14	22.1000	<0.1	0.3400	32.00	<0.01	6.25	0.055	74.70	11200.000	0.55	21.80	29.400	0.0490	0.20	354	0.1200	3870.00	<0.01	928.00	<0.5	0.50	1.8700	<0.2	218.000	<0.1
X5	7/6/2010	<0.03	6.00	0.30	16.600	<300.0	<0.05	<0.03	317.00	0.13	20.9000	<0.5	0.4000	19.00	<0.05	6.90	0.038	82.50	11200.000	0.70	23.70	28.800	0.7600	0.30	353	0.3000	3290.00	0.06	948.00	<3.0	0.58	1.8400	<1.0	226.000	<0.5
X5	7/13/2010	<0.03	10.00	0.20	15.200	<300.0	<0.05	<0.03	334.00	0.13	19.6000	<0.5	1.0000	44.00	<0.05	7.00	0.040	79.60	10400.000	0.70	23.80	30.000	1.6500	0.20	402	<0.2	3560.00	<0.05	969.00	<3.0	0.51	1.6300	<1.0	218.000	<0.5
X5	7/20/2010	<0.03	5.00	0.70	15.100	<300.0	<0.05	<0.03	296.00	0.14	22.8000	<0.5	0.5000	26.00	<0.05	6.20	0.039	67.00	11500.000	0.60	20.50	33.000	1.4000	0.30	341	0.3000	3100.00	<0.05	959.00	<3.0	0.54	1.9600	<1.0	270.000	<0.5
X5	7/27/2010	<0.03	3.00	0.20	15.600	<300.0	<0.05	<0.03	295.00	0.23	18.7000	<0.5	1.2000	26.00	<0.05	6.90	0.040	71.70	9790.000	0.90	20.70	25.300	0.3800	0.30	379	<0.2	2920.00	<0.05	946.00	<3.0	0.61	1.5800	<1.0	283.000	<0.5
X5	8/10/2010	<0.005	4.10	0.25	16.100	<50.0	<0.01	<0.005	304.00	0.18	17.8000	<0.1	0.4800	29.00	<0.01	6.81	0.041	69.90	9170.000	0.64	21.90	22.700	0.9680	0.33	365	0.1600	2420.00	<0.01	1100.00	<0.5	0.67	1.4700	<0.2	226.000	<0.1
X5	8/17/2010	<0.03	4.00	<0.1	15.300	<300.0	<0.05	<0.03	296.00	0.19	13.6000	<0.5	0.8000	28.00	<0.05	7.20	0.045	66.70	7150.000	0.60	21.20	19.400	1.2000	0.40	369	<0.2	2460.00	<0.05	986.00	<3.0	0.71	1.1500	<1.0	201.000	<0.5
X5	8/24/2010	<0.005	2.90	0.17	14.800	<50.0	<0.01	0.02	340.00	0.15	16.0000	<0.1	0.4600	29.00	<0.01	7.78	0.042	73.60	8010.000	0.57	22.80	20.100	0.5820	0.30	429	0.1600	2570.00	<0.01	1050.00	<0.5	0.69	1.5300	<0.2	179.000	<0.1
X5	8/31/2010	<0.03	5.00	0.30	14.500	<300.0	<0.05	<0.03	295.00	0.15	14.4000	<0.5	1.2000	48.00	<0.05	6.50	0.039	67.70	7580.000	0.50	20.90	19.100	0.9040	0.30	347	<0.2	2400.00	<0.05	964.00	<3.0	0.72	1.5100	<1.0	194.000	<0.5
X5	9/7/2010	<0.005	4.30	0.27	14.800	<50.0	<0.01	<0.005	303.00	0.16	17.8000	0.20	0.4500	38.00	<0.01	7.06	0.039	70.30	9370.000	0.62	22.50	23.100	1.2700	0.27	413	0.1400	2300.00	<0.01	1000.00	<0.5	0.64	1.8200	<0.2	185.000	<0.1
X5	11/18/2010	<0.03	2.00	0.30	23.900	<300.0	<0.05	<0.03	445.00	0.23	51.7000	<0.5	<0.3	47.00	<0.05	7.10	0.029	96.50	29700.000	0.60	29.70	70.200	0.0600	0.20	515	<0.2	7140.00	<0.05	1240.00	<3.0	0.33	4.9700	<1.0	394.000	<0.5
X5	11/25/2010	<0.03	2.00	0.20	22.400	<300.0	<0.05	<0.03	474.00	0.18	64.9000	<0.5	<0.3	69.00	<0.05	6.70	0.025	103.00	34500.000	0.40	32.30	82.000	0.0500	<0.1	527	<0.2	7690.00	<0.05	1230.00	<3.0	0.23	4.5800	<1.0	393.000	<0.5
X5	12/2/2010	<0.03	3.00	<0.1	22.400	<300.0	<0.05	<0.03	470.00	0.15	66.2000	<0.5	1.0000	16.00	<0.05	6.60	0.025	101.00	35700.000	0.40	31.60	88.100	0.5300	<0.1	521	<0.2	7830.00	<0.05	1240.00	<3.0	0.21	4.8800	<1.0	408.000	<0.5
X5 Average		0.0160	4.02	0.20	21.422	117.59	0.02	0.01	316.78	0.15	22.7330	0.20	0.5556	39.22	0.02	6.18	0.032	69.59	12448.519	0.65	22.28	31.819	0.7557	0.20	358	0.1370	3950.00	0.02	956.85	1.18	0.42	2.8700	0.40	273.704	0.20
X5 Max		0.0700	10.00	0.70	47.800	<300.0	<0.05	<0.03	474.00	0.23	66.2000	<0.5	1.2000	117.00	<0.05	8.36	0.055	103.00	35700.000	1.32	32.30	88.100	4.4600	0.40	527	0.3000	7830.00	0.08	1240.00	<3.0	0.72	7.3900	<1.0	410.000	<0.5
X5 Min		<0.005	<1.0	<0.1	14.500	<50.0	<0.01	<0.005	230.00	0.09	6.8900	<0.1	<0.3	13.00	<0.01	4.40	0.021	40.10	4420.000	0.40	14.70	11.000	0.0490	<0.1	245	0.1200	2300.00	<0.01	669.00	<0.5	0.16	1.1500	<0.2	178.000	<0.1
X5 N > DL		3	26	22	27	0	0	2	27	27	27	1	23	27	0	27	27	27	27	27	27	27	27	20	27	10	27	2	27	0	27	27	0	27	0
X5 Median		<0.03	3.00	0.20	18.300	<300.0	<0.05	<0.03	300.00	0.14	18.7000	<0.5	0.4800	29.00	<0.05	6.33	0.029	70.30	10400.000	0.60	21.90	27.400	0.6600	0.20	349	<0.2	3290.00	<0.05	948.00	<3.0	0.41	1.9600	<1.0	252.000	<0.5
X5P	1/11/2010	<0.03	<1.0	0.30	33.900	<300.0	<0.05	<0.03	343.00	<0.03	14.8000	<0.5	<0.3	18.00		7.28	0.038	76.80	9030.000	1.10	26.20	23.300	0.1800	0.50	341	<0.2	4960.00	<0.05	1010.00	<3.0	0.41	3.8500	<1.0	442.000	<0.5
X5P	2/22/2010	<0.005	0.70	0.14	43.000	<50.0	<0.01	<0.005	333.00	0.17	14.1000	<0.1	0.7900	286.00		7.39	0.013	74.40	9870.000	1.15	26.90	22.000	0.1860	0.21	351	0.1600	7060.00	<0.01	986.00	<0.5	0.23	6.9600	<0.2	344.000	<0.1
X5P	3/2/2010	<0.03	<1.0	<0.1	43.500	<300.0	<0.05	<0.03	324.00	0.16	13.0000	<0.5	0.5000	423.00		6.93	0.021	70.10	9990.000	1.20	24.40	20.700	0.1500	0.20	309	<0.2	6620.00	<0.05	882.00	<3.0	0.19	7.2200	<1.0	392.000	<0.5
X5P	4/13/2010	<0.03	2.00	0.20	26.800	<300.0	<0.05	<0.03	310.00	0.08	7.6000	<0.5	0.9000	30.00		5.20	0.023	48.30	4950.000	0.80	18.00	12.400	1.1200	0.20	279	<0.2	3960.00	<0.05	924.00	<3.0	0.24	3.7900	<1.0	196.000	<0.5
X5P	5/3/2010	<0.005	2.00	0.09	20.100	<50.0	<0.01	0.02	169.00	0.06	1.7600	<0.1	0.2900	7.00		2.81	0.014	16.70	1100.000	0.49	7.75	3.180	0.1960	0.15	166	0.1500	1460.00	<0.01	484.00	<0.5	0.17	1.0600	<0.2	45.500	<0.1
X5P	6/4/2010	<0.03	4.00	0.20	20.100	<300.0	<0.05	<0.03	335.00	0.17	24.6000	<0.5	0.4000	22.00		6.50	0.032	81.00	14000.000	0.50	25.10	35.600	0.1400	<0.1	358	<0.2	4740.00	<0.05	889.00	<3.0	0.38	2.5100	<1.0	352.000	<0.5
X5P	7/10/2010	<0.005	4.40	0.26	14.900	<50.0	<0.01	0.02	287.00	0.09	17.3000	<0.1	0.3800	25.00		7.13	0.039	72.20	9320.000	0.63	21.90	23.000	0.9570	0.23	398	0.1200	2660.00	<0.01	1030.00	<0.5	0.58	1.5500	<0.2	151.000	<0.1
X5P	8/3/2010	<0.03	12.00	0.20	16.500	<300.0	<0.05	<0.03	287.00	0.23	17.9000	<0.5	1.3000	87.00		6.40	0.041	66.10	9470.000	0.70	19.90	29.000	2.7500	0.30	398	<0.2	2490.00	0.11	931.00	<3.0	0.57	1.6300	<1.0	280.000	<0.5
X5P	9/2/2010	0.0130	3.50	0.22	15.400	<50.0	0.02	<0.005	308.00	0.16	16.6000	<0.1	0.3800	40.00		6.81	0.040	69.70	8640.000	0.58	21.60	22.200	0.8030	0.24	355	0.0900	2540.00	0.05	994.00	2.60	0.71	1.7500	<0.2	199.000	<0.1
X5P	10/20/2010	<0.03	9.00	<0.1	20.100	<300.0	<0.05	<0.03	339.00	0.22	36.4000	<0.5	0.7000	400.00		6.20	0.030	80.10	19400.000	0.60	24.90	48.600	0.3500	0.20	427	<0.2	4630.00	<0.05	1070.00	<3.0	0.36	3.7500	<1.0	534.000	<0.5
X5P	11/8/2010	<0.03	2.00	0.30	23.200	<300.0	<0.05	<0.03	380.00	0.21	38.1000	<0.5	0.6000	88.00		6.70	0.030	82.20	21500.000	0.60	26.50	55.200	0.1900	0.20	434	<0.2	5730.00	<0.05	1080.00	<3.0	0.34	4.3300	<1.0	427.000	<0.5
X5P	12/1/2010	<0.03	2.00	0.20	31.600	<300.0	<0.05	<0.03	394.00	0.16	33.4000	<0.5	<0.3	124.00		7.10	0.027	87.80	20000.000	0.80	27.20	46.900	0.0500	0.20	429	<0.2	6700.00	<0.05	1090.00	<3.0	0.34	5.9100	<1.0	432.000	<0.5
X5P Average		0.0117	3.55	0.18	25.758	108.33	0.02	0.01	317.42	0.14	19.6300	0.18	0.5450	129.17		6.37	0.029	68.78	11439.167	0.76	22.53	28.507	0.5893	0.22	354	0.1100	4462.50	0.03	947.50	1.28	0.38	3.6925	0.37	316.208	0.18
X5P Max		<0.03	12.00	0.30	43.500	<300.0	<0.05	<0.03	394.00	0.23	38.1000	<0.5	1.3000	423.00		7.39	0.041	87.80	21500.000	1.20	27.20	55.200	2.7500	0.50	434	<0.2	7060.00	0.11	1090.00	<3.0	0.71	7.2200	<1.0	534.000	<0.5
X5P Min		<0.005	0.70	0.09	14.900	<50.0	<0.01	<0.005	169.00	<0.03	1.7600	<0.1	0.2900	7.00		2.81	0.013	16.70	1100.000	0.49	7.75	3.180	0.0500	<0.1	166	0.0900	1460.00	<0.01	484.00	<0.5	0.17	1.0600	<0.2	45.500	<0.1
X5P N > DL		1	10	10	12	0	1	2	12	11	12	0	10	12	0	12	12	12	12	12	12	12	12	11	12	4	12	2	12	1	12	12	0	12	0
X5P Median		<0.03	2.00	0.20	21.650	<300.0	<0.05	<0.03	328.50	0.16	16.9500	<0.5	0.4500	63.50		6.76	0.030	73.30	9670.000	0.67	24.65	23.150	0.1930	0.20	357	<0.2	4685.00	<0.05	990.00	<3.0	0.35	3.7700	<1.0	348.000	<0.5
X7	6/1/2010	<0.3	1580.00	23.00	12.000	<3000.0	1.60	<0.3	435.00	16.40	1180.0000	<5.0	<3.0	1460000.00		11.00	0.134	847.00	96300.000	<3.0	52.00	1090.000	22.5000	<1.0	2610	<2.0	15900.00	<0.5	4050.00	<30.0	0.30	4.5000	<10.0	510000.000	<5.0
X7	10/6/2010	<0.5	1890.00	26.00	14.000	<5000.0	<1.0	<0.5	405.00	20.10	1370.0000	<10.0	<5.0	1610000.00		12.00	0.148	842.00	103000.000	<5.0	55.00	1210.000	20.4000	<2.0	3040	<4.0	18200.00	<1.0	4040.00	59.00	0.30	8.7000	<20.0	574000.000	<10.0
X7 Average		0.2000	1735.00	24.50	13.000	2000.00	1.05	0.20	420.00	18.25	1275.0000	3.75	2.0000	1535000.00		11.50	0.141	844.50	99650.000	2.00	53.50	1150.000	21.4500	0.75	2825	1.5000	17050.00	0.38	4045.00	37.00	0.30	6.6000	7.50	542000.000	3.75
X7 N > DL		0	2	2	2	0	1	0	2	2	2	0	0	2	0	2	2	2	2	0	2	2	2	0	2	0	2	0	2	1	2	2	0	2	0

NB: Metals reported in mg/L are shaded in gray.

Denison Environmental Services

Table C-3: Rose Creek Drainage Water Quality
2010 - Surface Water - Total Metals

Faro Mine Closure

		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Station	**Date**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ETA Combined	**9/2/2010**	0.3000	2580.00	38.100	<1000.0	15.500	1.00	<0.1	472.00	71.10	1070.0000	<2.0	105.0000	588000.00		14.00	0.15	738.00	90100.000	<1.0	66.00	1000.000	188.0000	2040.00	0.50	<0.8	14100.00	<0.2	3670.00	20.00	1.51	5.7700	<4.0	445000.000	<2.0
ETA Combined	**10/20/2010**	<0.5	1400.00	26.000	<5000.0	16.000	<1.0	<0.5	386.00	33.90	978.0000	11.00	22.0000	1020000.00		12.00	0.14	641.00	90200.000	<5.0	55.00	884.000	52.6000	2340.00	<2.0	<4.0	15400.00	<1.0	3930.00	<50.0	0.40	4.8000	<20.0	462000.000	<10.0
ETA Combined	**11/8/2010**	<0.5	1060.00	27.000	<5000.0	13.000	<1.0	<0.5	435.00	8.10	995.0000	<10.0	<5.0	1270000.00		12.00	0.13	678.00	90000.000	<5.0	67.00	924.000	21.7000	2380.00	4.00	8.0000	16700.00	<1.0	3730.00	<50.0	0.50	5.0000	<20.0	460000.000	<10.0
ETA Combined	**12/1/2010**	0.2000	943.00	23.000	<1000.0	12.800	0.90	<0.1	419.00	7.70	930.0000	<2.0	2.0000	1180000.00		12.00	0.13	649.00	82200.000	<1.0	66.00	799.000	14.2000	2210.00	<0.4	<0.8	15300.00	<0.2	3670.00	<10.0	0.28	5.1300	<4.0	411000.000	<2.0
ETA Combined Average		0.2500	1495.75	28.525	1500.00	14.325	0.73	0.15	428.00	30.20	993.2500	4.50	32.8750	1014500.00		12.50	0.14	676.50	88125.000	1.50	63.50	901.750	69.1250	2242.50	1.43	2.7000	15375.00	0.30	3750.00	18.75	0.67	5.1750	6.00	444500.000	3.00
ETA Combined Max		<0.5	2580.00	38.100	<5,000.0	16.000	1.00	<0.5	472.00	71.10	1070.0000	11.00	105.0000	1270000.00		14.00	0.15	738.00	90200.000	<5.0	67.00	1000.000	188.0000	2380.00	4.00	8.0000	16700.00	<1.0	3930.00	<50.0	1.51	5.7700	<20.0	462000.000	<10.0
ETA Combined Min		0.2000	943.00	23.000	<1,000.0	12.800	0.90	<0.1	386.00	7.70	930.0000	<2.0	2.0000	588000.00		12.00	0.13	641.00	82200.000	<1.0	55.00	799.000	14.2000	2040.00	<0.4	<0.8	14100.00	<0.2	3670.00	<10.0	0.28	4.8000	<4.0	411000.000	<2.0
ETA Combined N > DL		2	4	4	0	4	2	0	4	4	4	1	3	4	0	4	4	4	4	0	4	4	4	4	2	1	4	0	4	1	4	4	0	4	0
ETA Combined Median		0.3250	1230.00	26.500	1500.00	14.250	0.75	0.15	427.00	21.00	986.5000	3.00	12.2500	1100000.00		12.00	0.13	663.50	90050.000	1.50	66.00	904.000	37.1500	2275.00	1.13	1.2000	15350.00	0.30	3700.00	22.50	0.45	5.0650	6.00	452500.000	3.00
FAROCR	**5/3/2010**	0.0100	332.00	0.740	<50.0	28.700	0.07	0.01	7.40	0.13	0.2890	0.50	6.5200	383.00		0.71	0.00	1.67	10.800	0.26	1.46	3.790	15.2000	<10.0	0.14	0.1200	4880.00	0.11	37.20	9.80	0.02	0.5670	0.60	30.100	0.30
FAROCR	**6/5/2010**	<0.005	113.00	0.240	<50.0	13.800	0.03	<0.005	3.86	0.03	0.0400	0.20	1.4600	58.00		0.25	0.00	0.95	1.180	0.14	1.53	0.790	2.9400	<10.0	0.05	0.0900	6370.00	<0.01	21.20	1.40	0.01	0.2630	<0.2	5.700	0.20
FAROCR	**7/8/2010**	<0.005	63.30	0.350	<50.0	22.000	0.03	0.03	6.45	0.03	0.0390	<0.1	1.4300	60.00		0.28	0.00	1.44	1.200	0.26	1.81	0.860	2.9500	<10.0	0.07	0.1900	7760.00	<0.01	34.70	1.90	0.01	0.2940	<0.2	7.200	<0.1
FAROCR	**8/3/2010**	<0.005	24.70	0.490	<50.0	32.000	<0.01	<0.005	9.76	0.04	0.0240	<0.1	1.2500	21.00		0.42	0.00	2.50	0.710	0.72	2.15	1.050	1.2300	<10.0	0.11	0.4300	6170.00	<0.01	52.70	<0.5	0.01	0.5400	<0.2	5.900	<0.1
FAROCR	**9/1/2010**	<0.005	19.70	0.450	<50.0	27.000	<0.01	<0.005	9.06	0.02	0.0340	<0.1	0.9500	17.00		0.37	0.00	2.47	0.320	0.65	2.20	0.970	0.7340	<10.0	0.13	0.3800	6160.00	<0.01	50.50	<0.5	0.01	0.5470	<0.2	4.100	<0.1
FAROCR	**10/19/2010**	<0.005	15.80	0.320	<50.0	24.400	<0.01	<0.005	9.30	0.03	0.0240	<0.1	0.7900	15.00		0.35	0.00	2.50	0.340	0.63	2.27	0.850	0.7770	<10.0	0.07	0.3800	6900.00	<0.01	47.80	<0.5	0.01	0.5460	<0.2	6.300	<0.1
FAROCR Average		0.0038	94.75	0.432	25.00	24.650	0.02	0.01	7.64	0.05	0.0750	0.15	2.0667	92.33		0.40	0.00	1.92	2.425	0.44	1.90	1.385	3.9718	5.00	0.10	0.2650	6373.33	0.02	40.68	2.31	0.01	0.4595	0.18	9.883	0.12
FAROCR Max		0.0100	332.00	0.740	<50.0	32.000	0.07	0.03	9.76	0.13	0.2890	0.50	6.5200	383.00		0.71	0.00	2.50	10.800	0.72	2.27	3.790	15.2000	<10.0	0.14	0.4300	7760.00	0.11	52.70	9.80	0.02	0.5670	0.60	30.100	0.30
FAROCR Min		<0.005	15.80	0.240	<50.0	13.800	<0.01	<0.005	3.86	0.02	0.0240	<0.1	0.7900	15.00		0.25	0.00	0.95	0.320	0.14	1.46	0.790	0.7340	<10.0	0.05	0.0900	4880.00	<0.01	21.20	<0.5	0.01	0.2630	<0.2	4.100	<0.1
FAROCR N > DL		1	6	6	0	6	3	2	6	6	6	2	6	6	0	6	6	6	6	6	6	6	6	0	6	6	6	1	6	3	6	6	1	6	2
FAROCR Median		<0.005	44.00	0.400	<50.0	25.700	0.02	0.00	8.23	0.03	0.0365	0.00	1.3400	39.50		0.36	0.00	2.07	0.945	0.45	1.98	0.915	2.0850	<10.0	0.09	0.2850	6270.00	<0.01	42.50	0.95	0.01	0.5430	<0.2	6.100	0.00
FCO	**6/16/2010**	<0.005	176.00	0.110	<50.0	35.200	0.11	0.01	12.10	1.87	1.9900	0.20	33.7000	115.00		0.51	0.01	3.96	34.400	<0.05	2.61	7.260	1.4500	14.00	0.06	<0.04	7810.00	<0.01	63.10	<0.5	0.01	0.1700	<0.2	1150.000	<0.1
FCO	**10/7/2010**	<0.005	635.00	0.080	<50.0	36.100	0.15	<0.005	12.40	1.79	2.4600	0.30	53.0000	254.00		0.46	0.00	3.91	41.500	0.21	2.98	7.120	0.4820	13.00	0.04	<0.04	7620.00	<0.01	64.80	<0.5	0.00	0.2830	<0.2	1210.000	<0.1
FCO Average		0.0025	405.50	0.095	25.00	35.650	0.13	0.01	12.25	1.83	2.2250	0.25	43.3500	184.50		0.49	0.00	3.94	37.950	0.12	2.80	7.190	0.9660	13.50	0.05	0.0200	7715.00	0.01	63.95	0.25	0.01	0.2265	0.10	1180.000	0.05
FCO N > DL		0	2	2	0	2	2	1	2	2	2	2	2	2	0	2	2	2	2	1	2	2	2	2	2	0	2	0	2	0	2	2	0	2	0
FCS-4	**9/2/2010**	<0.1	2120.00	16.400	<1000.0	13.900	0.30	<0.1	476.00	13.80	434.0000	<2.0	53.0000	283000.00		12.00	0.11	738.00	66800.000	<1.0	68.00	441.000	327.0000	1690.00	0.80	<0.8	10600.00	<0.2	3510.00	37.00	1.02	6.9400	<4.0	157000.000	<2.0
FCS-4	**10/20/2010**	<0.5	1420.00	21.000	<5000.0	16.000	<1.0	<0.5	458.00	26.70	963.0000	<10.0	28.0000	973000.00		14.00	0.15	800.00	95300.000	<5.0	70.00	874.000	83.7000	2480.00	<2.0	<4.0	14400.00	<1.0	4140.00	<50.0	0.50	7.2000	<20.0	435000.000	<10.0
FCS-4	**11/10/2010**	<0.5	1090.00	17.000	<5000.0	19.000	<1.0	<0.5	465.00	10.10	828.0000	<10.0	10.0000	999000.00		13.00	0.14	787.00	87000.000	10.00	75.00	780.000	72.3000	2390.00	<2.0	<4.0	15800.00	<1.0	3900.00	<50.0	0.40	8.0000	<20.0	388000.000	<10.0
FCS-4	**12/2/2010**	0.2000	749.00	15.600	<1000.0	12.000	0.60	0.20	438.00	9.20	798.0000	<2.0	7.0000	926000.00		12.00	0.12	702.00	80400.000	<1.0	69.00	731.000	39.5000	2190.00	<0.4	<0.8	13600.00	<0.2	3650.00	<10.0	0.32	7.4500	<4.0	350000.000	<2.0
FCS-4 Average		0.1875	1344.75	17.500	1500.00	15.225	0.48	0.19	459.25	14.95	755.7500	3.00	24.5000	795250.00		12.75	0.13	756.75	82375.000	3.38	70.50	706.500	130.6250	2187.50	0.75	1.2000	13600.00	0.30	3800.00	23.00	0.56	7.3975	6.00	332500.000	3.00
FCS-4 Max		<0.5	2120.00	21.000	<5,000.0	19.000	<1.0	<0.5	476.00	26.70	963.0000	<10.0	53.0000	999000.00		14.00	0.15	800.00	95300.000	10.00	75.00	874.000	327.0000	2480.00	<2.0	<4.0	15800.00	<1.0	4140.00	<50.0	1.02	8.0000	<20.0	435000.000	<10.0
FCS-4 Min		<0.1	749.00	15.600	<1,000.0	12.000	0.30	<0.1	438.00	9.20	434.0000	<2.0	7.0000	283000.00		12.00	0.11	702.00	66800.000	<1.0	68.00	441.000	39.5000	1690.00	<0.4	<0.8	10600.00	<0.2	3510.00	<10.0	0.32	6.9400	<4.0	157000.000	<2.0
FCS-4 N > DL		1	4	4	0	4	2	1	4	4	4	0	4	4	0	4	4	4	4	1	4	4	4	4	1	0	4	0	4	1	4	4	0	4	0
FCS-4 Median		1.5000	1255.00	16.700	1500.00	14.950	0.00	0.23	461.50	11.95	813.0000	3.00	19.0000	949500.00		12.50	0.13	762.50	83700.000	6.25	69.50	755.500	78.0000	2290.00	0.90	1.2000	14000.00	0.30	3775.00	31.00	0.45	7.3250	6.00	369000.000	3.00
GDHSECK	**3/4/2010**	<0.005	3.60	0.250	<50.0	46.000	<0.01	<0.005	213.00	1.24	0.1040	<0.1	1.2900	28.00		4.52	0.01	51.70	39.300	0.24	9.86	4.530	2.5100	203.00	0.30	0.1600	6190.00	<0.01	801.00	<0.5	0.03	2.4500	<0.2	1420.000	<0.1
GDHSECK	**6/16/2010**	<0.005	1.60	0.210	<50.0	33.000	<0.01	<0.005	196.00	1.99	0.0540	<0.1	1.6500	15.00		3.92	0.01	60.70	8.900	0.30	8.70	7.380	1.8500	205.00	0.59	0.1300	5830.00	<0.01	796.00	<0.5	0.05	1.7400	<0.2	2470.000	<0.1
GDHSECK	**10/6/2010**	<0.005	2.90	0.210	<50.0	32.400	<0.01	<0.005	182.00	1.27	0.0870	<0.1	1.0700	19.00		4.49	0.01	54.10	32.200	0.33	8.62	4.850	0.7840	189.00	0.37	0.1000	5980.00	<0.01	679.00	<0.5	0.02	1.6200	<0.2	1720.000	<0.1
GDHSECK Average		0.0025	2.70	0.223	25.00	37.133	0.01	0.00	197.00	1.50	0.0817	0.05	1.3367	20.67		4.31	0.01	55.50	26.800	0.29	9.06	5.587	1.7147	199.00	0.42	0.1300	6000.00	0.01	758.67	0.25	0.03	1.9367	0.10	1870.000	0.05
GDHSECK Max		<0.005	3.60	0.250	<50.0	46.000	<0.01	<0.005	213.00	1.99	0.1040	<0.1	1.6500	28.00		4.52	0.01	60.70	39.300	0.33	9.86	7.380	2.5100	205.00	0.59	0.1600	6190.00	<0.01	801.00	<0.5	0.05	2.4500	<0.2	2470.000	<0.1
GDHSECK Min		<0.005	1.60	0.210	<50.0	32.400	<0.01	<0.005	182.00	1.24	0.0540	<0.1	1.0700	15.00		3.92	0.01	51.70	8.900	0.24	8.62	4.530	0.7840	189.00	0.30	0.1000	5830.00	<0.01	679.00	<0.5	0.02	1.6200	<0.2	1420.000	<0.1
GDHSECK N > DL		0	3	3	0	3	0	0	3	3	3	0	3	3	0	3	3	3	3	3	3	3	3	3	3	3	3	0	3	0	3	3	0	3	0
GDHSECK Median		<0.005	2.90	0.210	<50.0	33.000	<0.01	<0.005	196.00	1.27	0.0870	<0.1	1.2900	19.00		4.49	0.01	54.10	32.200	0.30	8.70	4.850	1.8500	203.00	0.37	0.1300	5980.00	<0.01	796.00	<0.5	0.03	1.7400	<0.2	1720.000	<0.1
NF1	**2/23/2010**	<0.005	54.70	1.130	<50.0	81.600	<0.01	<0.005	47.40	0.04	0.3670	0.30	0.9000	440.00		1.21	0.01	10.10	76.900	0.85	3.63	0.750	1.4900	8.00	0.07	0.3800	5140.00	<0.01	197.00	2.10	0.00	2.9300	<0.2	21.200	<0.1
NF1	**3/10/2010**	<0.005	4.50	0.460	<50.0	71.900	<0.01	<0.005	46.30	0.02	0.2630	<0.1	0.3300	84.00		1.11	0.01	9.47	34.300	0.98	3.42	0.470	0.1280	<10.0	0.06	0.4700	6240.00	<0.01	194.00	<0.5	<0.002	2.9900	<0.2	17.200	<0.1
NF1	**4/11/2010**	<0.005	21.80	0.540	<50.0	75.800	<0.01	<0.005	42.90	0.07	0.5560	1.60	0.6900	161.00		1.24	0.01	8.76	111.000	1.02	3.34	0.690	1.7500	<10.0	0.09	0.4400	5870.00	<0.01	201.00	0.70	<0.002	3.0300	<0.2	28.200	<0.1
NF1	**5/3/2010**	<0.005	95.40	0.870	<50.0	37.900	0.02	<0.005	16.20	0.04	0.1710	<0.1	2.0000	348.00		1.31	0.00	3.10	38.100	0.37	1.27	0.980	1.7300	<10.0	0.07	0.1600	3720.00	<0.01	72.90	2.00	0.00	0.6410	<0.2	11.300	0.80
NF1	**6/5/2010**	<0.005	105.00	0.580	<50.0	31.300	<0.01	0.01	15.50	0.02	0.0930	0.20	0.9800	172.00		0.55	0.00	3.63	18.700	0.30	1.63	1.020	1.6400	<10.0	0.07	0.1400	4820.00	<0.01	60.50	3.60	0.00	0.5650	<0.2	6.000	<0.1
NF1	**7/8/2010**	<0.005	35.30	0.610	<50.0	37.700	<0.01	0.01	18.60	0.02	0.0800	<0.1	0.7900	151.00		0.48	0.00	4.34	24.000	0.38	1.69	0.480	0.8780	<10.0	0.08	0.1600	4690.00	<0.01	80.70	1.20	<0.002	0.6910	<0.2	6.800	<0.1
NF1	**8/3/2010**	<0.005	22.20	1.260	<50.0	104.000	<0.01	<0.005	50.50	0.20	3.1700	<0.1	0.9400	3290.00		1.34	0.01	12.20	1040.000	0.48	3.52	8.420	5.8700	23.00	0.09	0.2000	6120.00	<0.01	222.00	0.80	0.03	1.5900	<0.2	262.000	<0.1
NF1 Average		0.0025	48.41	0.779	25.00	62.886	0.01	0.00	33.91	0.06	0.6714	0.33	0.9471	663.71		1.03	0.01	7.37	191.857	0.63	2.64	1.830	1.9266	8.00	0.08	0.2786	5228.57	0.01	146.87	1.52	0.01	1.7767	0.10	50.386	0.16
NF1 Max		<0.005	105.00	1.260	<50.0	104.000	0.02	0.01	50.50	0.20	3.1700	1.60	2.0000	3290.00		1.34	0.01	12.20	1040.000	1.02	3.63	8.420	5.8700	23.00	0.09	0.4700	6240.00	<0.01	222.00	3.60	0.03	3.0300	<0.2	262.000	0.80
NF1 Min		<0.005	4.50	0.460	<50.0	31.300	<0.01	<0.005	15.50	0.02	0.0800	<0.1	0.3300	84.00		0.48	0.00	3.10	18.700	0.30	1.27	0.470	0.1280	8.00	0.06	0.1400	3720.00	<0.01	60.50	<0.5	<0.002	0.5650	<0.2	6.000	<0.1
NF1 N > DL		0	7	7	0	7	1	2	7	7	7	3	7	7	0	7	7	7	7	7	7	7	7	2	7	7	7	0	7	6	4	7	0	7	1
NF1 Median		<0.005	35.30	0.610	<50.0	71.900	<0.01	<0.005	42.90	0.04	0.2630	<0.1	0.9000	172.00		1.21	0.01	8.76	38.100	0.48	3.34	0.750	1.6400	<10.0	0.07	0.2000	5140.00	<0.01	194.00	1.20	0.00	1.5900	<0.2	17.200	<0.1
NF2	**1/12/2010**	<0.005	4.20	0.430	<50.0	70.000	<0.01	<0.005	43.10	0.01	0.0730	<0.1	0.3300	82.00		1.01	0.01	9.28	16.100	0.80	3.20	0.410	0.2660	8.00	0.06	0.4300	6290.00	<0.01	177.00	<0.5	<0.002	2.5200	<0.2	9.500	<0.1

NB: Metals reported in mg/L are shaded in grey.

Table C-3: Rose Creek Drainage Water Quality
2010 - Surface Water - Total Metals

Station	Date	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NF2	**2/23/2010**	<0.005	3.30	0.430	<50.0	77.400	<0.01	<0.005	46.90	0.02	0.0940	<0.1	0.4700	64.00		1.10	0.01	9.95	15.200	0.88	3.52	0.390	0.1470	7.00	0.07	0.4700	6180.00	<0.01	198.00	<0.5	<0.002	2.9000	<0.2	12.200	<0.1
NF2	**3/10/2010**	<0.005	3.40	0.440	<50.0	70.000	<0.01	<0.005	43.80	0.01	0.1180	<0.1	0.2600	80.00		1.05	0.01	9.08	16.900	0.95	3.27	0.380	0.1750	<10.0	0.06	0.5300	6740.00	<0.01	185.00	<0.5	<0.002	2.9300	<0.2	12.800	<0.1
NF2	**4/14/2010**	<0.005	5.00	0.390	<50.0	73.300	<0.01	<0.005	42.80	0.02	0.1420	<0.1	0.6700	69.00		1.04	0.01	8.43	19.400	0.94	3.12	0.500	0.3210	<10.0	0.07	0.4500	5860.00	<0.01	196.00	<0.5	<0.002	2.9900	<0.2	16.600	<0.1
NF2	**5/3/2010**	<0.005	117.00	0.830	<50.0	38.000	0.02	<0.005	17.30	0.09	0.1990	<0.1	4.3900	378.00		1.37	0.00	3.35	32.000	0.38	3.07	1.470	3.8000	<10.0	0.09	0.1700	3810.00	0.03	75.80	1.80	0.01	0.6250	<0.2	41.200	0.20
NF2	**6/4/2010**	<0.005	125.00	0.520	<50.0	28.800	<0.01	0.01	13.70	0.02	0.0880	0.30	1.1100	181.00		0.54	0.00	3.26	17.500	0.26	1.54	0.950	1.6900	<10.0	0.07	0.1300	4650.00	<0.01	55.80	2.20	0.00	0.4970	<0.2	6.500	<0.1
NF2	**7/8/2010**	<0.005	38.80	0.570	<50.0	40.400	<0.01	0.01	18.80	0.02	0.0730	<0.1	0.7900	152.00		0.48	0.00	4.40	17.600	0.37	1.71	0.460	1.2900	<10.0	0.09	0.1700	4720.00	<0.01	86.00	1.00	0.00	0.7290	<0.2	5.800	<0.1
NF2	**8/3/2010**	<0.005	36.10	0.790	<50.0	55.000	<0.01	<0.005	26.10	0.03	0.1580	<0.1	0.6800	275.00		0.65	0.00	5.80	43.700	0.57	2.10	0.570	4.7900	<10.0	0.07	0.2500	4180.00	<0.01	116.00	1.60	0.01	1.1900	<0.2	9.700	<0.1
NF2	**9/1/2010**	<0.005	10.40	0.660	<50.0	48.200	<0.01	<0.005	28.00	0.01	0.0760	<0.1	0.4600	181.00		0.62	0.00	5.86	26.000	0.53	2.15	0.400	0.2920	<10.0	0.06	0.2200	4580.00	<0.01	121.00	<0.5	<0.002	1.1900	<0.2	7.700	<0.1
NF2	**10/18/2010**	<0.005	12.50	0.550	<50.0	53.000	<0.01	<0.005	32.60	0.01	0.1160	<0.1	0.4100	209.00		0.75	0.00	7.10	43.400	0.53	2.50	0.440	0.7390	<10.0	0.06	0.3200	5660.00	0.03	135.00	<0.5	0.00	1.5200	<0.2	9.900	<0.1
NF2	**11/9/2010**	<0.005	12.40	0.400	<50.0	64.900	<0.01	<0.005	36.30	0.04	0.2520	<0.1	0.4100	228.00		0.82	0.01	7.64	76.200	0.62	2.57	0.900	1.1800	<10.0	0.14	0.4600	5570.00	0.02	157.00	<0.5	0.00	1.9400	<0.2	51.000	<0.1
NF2	**12/1/2010**	<0.005	7.90	0.390	<50.0	65.100	<0.01	<0.005	38.10	0.02	0.1390	<0.1	0.3700	143.00		0.91	0.01	8.31	37.400	0.59	2.83	0.470	0.3790	<10.0	0.06	0.3400	5780.00	<0.01	163.00	<0.5	<0.002	2.0100	<0.2	13.500	<0.1
NF2 Average		0.0025	31.33	0.533	25.00	57.008	0.01	0.00	32.29	0.02	0.1273	0.07	0.8625	170.17		0.86	0.01	6.87	30.117	0.62	2.63	0.612	1.2558	5.42	0.08	0.3283	5335.00	0.01	138.80	0.72	0.00	1.7534	0.10	16.367	0.06
NF2 Max		<0.005	125.00	0.830	<50.0	77.400	0.02	0.01	46.90	0.09	0.2520	0.30	4.3900	378.00		1.37	0.01	9.95	76.200	0.95	3.52	1.470	4.7900	<10.0	0.14	0.5300	6740.00	0.03	198.00	2.20	0.01	2.9900	<0.2	51.000	0.20
NF2 Min		<0.005	3.30	0.390	<50.0	28.800	<0.01	<0.005	13.70	0.01	0.0730	<0.1	0.2600	64.00		0.48	0.00	3.26	15.200	0.26	1.54	0.380	0.1470	7.00	0.06	0.1300	3810.00	<0.01	55.80	<0.5	<0.002	0.4970	<0.2	5.800	<0.1
NF2 N > DL		0	12	12	0	12	1	2	12	12	12	1	12	12	0	12	12	12	12	12	12	12	12	2	12	12	12	3	12	4	6	12	0	12	1
NF2 Median		<0.005	11.40	0.480	<50.0	59.950	<0.01	<0.005	34.45	0.02	0.1170	<0.1	0.4650	166.50		0.87	0.01	7.37	22.700	0.58	2.70	0.465	0.5590	<10.0	0.07	0.3300	5615.00	<0.01	146.00	<0.5	0.00	1.7300	<0.2	11.050	<0.1
NFRC SC-1	**1/12/2010**	<0.005	4.90	0.410	<50.0	69.400	<0.01	<0.005	43.70	0.01	0.0920	<0.1	0.3900	97.00		1.01	0.01	9.30	25.700	0.77	3.25	0.540	0.3080	7.00	0.07	0.4400	6320.00	<0.01	176.00	<0.5	<0.002	2.5000	<0.2	10.200	<0.1
NFRC SC-1	**2/23/2010**	<0.005	3.80	0.450	<50.0	77.200	<0.01	<0.005	46.20	0.02	0.1050	<0.1	0.3400	90.00		1.11	0.01	9.93	30.300	0.81	3.53	0.450	0.2050	8.00	0.06	0.4500	6220.00	<0.01	195.00	<0.5	<0.002	2.9200	<0.2	12.700	<0.1
NFRC SC-1	**3/10/2010**	<0.005	6.60	0.490	<50.0	71.600	<0.01	<0.005	45.80	0.01	0.1490	<0.1	0.3000	120.00		1.09	0.01	9.48	42.800	0.91	3.41	0.480	0.5090	<10.0	0.06	0.4500	5750.00	<0.01	194.00	<0.5	<0.002	3.0700	<0.2	14.000	<0.1
NFRC SC-1	**4/14/2010**	<0.005	2.80	0.420	<50.0	71.800	<0.01	<0.005	43.10	0.02	0.1610	<0.1	0.2300	108.00		1.04	0.01	8.64	40.800	0.91	3.12	0.520	0.1970	<10.0	0.05	0.4500	5800.00	<0.01	197.00	<0.5	<0.002	2.9800	<0.2	16.700	<0.1
NFRC SC-1	**5/3/2010**	<0.005	92.70	0.850	<50.0	36.100	0.02	0.01	16.50	0.05	0.1490	<0.1	2.2800	329.00		1.27	0.00	3.27	25.600	0.38	1.39	1.350	2.3300	<10.0	0.07	0.1700	3570.00	<0.01	74.00	1.20	0.01	0.6300	<0.2	14.700	0.20
NFRC SC-1	**6/4/2010**	<0.005	77.30	0.540	<50.0	28.500	0.02	<0.005	13.80	0.02	0.0890	0.20	0.9800	178.00		0.54	0.00	3.28	19.100	0.26	1.53	0.530	1.8800	<10.0	0.07	0.1200	4440.00	<0.01	58.20	1.50	0.00	0.5300	<0.2	6.400	<0.1
NFRC SC-1	**7/8/2010**	<0.005	33.20	0.580	<50.0	40.500	<0.01	0.01	18.80	0.02	0.0580	<0.1	0.8700	147.00		0.51	0.00	4.52	18.400	0.39	1.79	0.480	1.4100	<10.0	0.09	0.1600	4650.00	<0.01	87.00	1.30	0.00	0.7730	<0.2	7.800	<0.1
NFRC SC-1	**8/3/2010**	<0.005	13.80	0.720	<50.0	54.900	<0.01	<0.005	28.30	0.02	0.0950	<0.1	0.6900	196.00		0.70	0.00	6.34	34.300	0.59	2.32	0.520	1.0200	<10.0	0.08	0.2200	4280.00	<0.01	124.00	<0.5	0.00	1.2600	<0.2	8.300	<0.1
NFRC SC-1	**10/18/2010**	<0.005	12.40	0.610	<50.0	51.300	<0.01	<0.005	30.80	0.02	0.1070	<0.1	0.6500	199.00		0.74	0.00	6.82	39.200	0.60	2.44	0.520	0.9830	<10.0	0.06	0.3000	5340.00	0.02	133.00	<0.5	<0.002	1.5300	<0.2	9.800	<0.1
NFRC SC-1 Average		0.0025	27.50	0.563	25.00	55.700	0.01	0.00	31.89	0.02	0.1117	0.07	0.7478	162.67		0.89	0.01	6.84	30.689	0.62	2.53	0.599	0.9824	5.56	0.07	0.3067	5152.22	0.01	137.58	0.61	0.00	1.7992	0.10	11.178	0.07
NFRC SC-1 Max		<0.005	92.70	0.850	<50.0	77.200	0.02	0.01	46.20	0.05	0.1610	0.20	2.2800	329.00		1.27	0.01	9.93	42.800	0.91	3.53	1.350	2.3300	<10.0	0.09	0.4500	6320.00	0.02	197.00	1.50	0.01	3.0700	<0.2	16.700	0.20
NFRC SC-1 Min		<0.005	2.80	0.410	<50.0	28.500	<0.01	<0.005	13.80	0.01	0.0580	<0.1	0.2300	90.00		0.51	0.00	3.27	18.400	0.26	1.39	0.450	0.1970	7.00	0.05	0.1200	3570.00	<0.01	58.20	<0.5	<0.002	0.5300	<0.2	6.400	<0.1
NFRC SC-1 N > DL		0	9	9	0	9	2	2	9	9	9	1	9	9	0	9	9	9	9	9	9	9	9	2	9	9	9	1	9	3	4	9	0	9	1
NFRC SC-1 Median		<0.005	12.40	0.540	<50.0	54.900	<0.01	<0.005	30.80	0.02	0.1050	<0.1	0.6500	147.00		1.01	0.00	6.82	30.300	0.60	2.44	0.520	0.9830	<10.0	0.07	0.3000	5340.00	<0.01	133.00	<0.5	<0.002	1.5300	<0.2	10.200	<0.1
NFRC SC-2	**1/12/2010**	<0.005	4.10	0.380	<50.0	68.600	<0.01	<0.005	41.70	0.03	0.1080	<0.1	0.3400	139.00		0.99	0.01	8.88	30.700	0.78	3.12	0.490	0.3190	8.00	0.07	0.5000	6910.00	<0.01	171.00	<0.5	0.00	2.4900	<0.2	10.900	<0.1
NFRC SC-2	**2/23/2010**	<0.005	3.90	0.390	<50.0	75.800	<0.01	<0.005	45.60	0.02	0.1190	<0.1	0.3100	118.00		1.09	0.01	9.94	32.900	0.85	3.49	0.400	0.2030	8.00	0.06	0.4300	6070.00	<0.01	194.00	<0.5	<0.002	2.8500	<0.2	12.900	<0.1
NFRC SC-2	**3/10/2010**	<0.005	4.90	0.460	<50.0	70.900	<0.01	<0.005	44.00	0.01	0.1320	<0.1	0.2700	134.00		1.06	0.01	9.21	39.700	0.94	3.32	0.430	0.2710	<10.0	0.06	0.4300	5520.00	<0.01	189.00	<0.5	<0.002	2.9300	<0.2	13.700	<0.1
NFRC SC-2	**4/14/2010**	<0.005	3.20	0.420	<50.0	72.200	<0.01	<0.005	42.90	0.02	0.1740	<0.1	0.2300	142.00		1.05	0.01	8.63	43.900	0.95	3.20	0.580	0.2140	<10.0	0.06	0.4500	5730.00	<0.01	196.00	<0.5	<0.002	3.0100	<0.2	17.600	<0.1
NFRC SC-2	**5/3/2010**	<0.005	94.00	0.820	<50.0	36.500	0.03	<0.005	16.60	0.04	0.1620	<0.1	2.2400	373.00		1.29	0.00	3.36	30.800	0.37	1.40	1.420	2.3500	<10.0	0.08	0.1800	3750.00	<0.01	75.20	1.40	0.01	0.6480	0.30	14.100	0.20
NFRC SC-2	**6/4/2010**	<0.005	80.80	0.500	<50.0	28.500	0.02	<0.005	13.80	0.03	0.0850	0.20	0.9600	170.00		0.52	0.00	3.26	16.500	0.26	1.52	0.500	1.3200	<10.0	0.07	0.1300	4340.00	<0.01	57.10	1.70	<0.002	0.5150	<0.2	6.700	<0.1
NFRC SC-2	**7/8/2010**	<0.005	31.10	0.540	<50.0	37.700	<0.01	0.01	21.00	0.02	0.0630	<0.1	0.7600	158.00		0.47	0.00	4.29	14.900	0.38	1.71	0.450	0.7510	<10.0	0.08	0.1800	5230.00	<0.01	83.10	1.10	0.00	0.7090	<0.2	5.900	<0.1
NFRC SC-2	**8/3/2010**	<0.005	12.20	0.670	<50.0	52.400	<0.01	<0.005	26.80	0.01	0.0720	<0.1	0.5100	198.00		0.64	0.00	5.87	28.300	0.57	2.12	0.480	0.7750	<10.0	0.08	0.2300	4320.00	<0.01	116.00	<0.5	0.00	1.1700	<0.2	7.800	<0.1
NFRC SC-2	**10/18/2010**	<0.005	13.50	0.540	<50.0	51.300	<0.01	<0.005	30.70	0.02	0.1220	<0.1	0.6100	211.00		0.73	0.01	6.93	42.200	0.60	2.52	0.810	0.6580	<10.0	0.07	0.3100	5290.00	<0.01	135.00	<0.5	0.00	1.5700	<0.2	11.000	<0.1
NFRC SC-2 Average		0.0025	27.52	0.524	25.00	54.878	0.01	0.00	31.46	0.02	0.1152	0.07	0.6922	182.56		0.87	0.01	6.71	31.100	0.63	2.49	0.618	0.7623	5.67	0.07	0.3156	5240.00	0.01	135.16	0.63	0.00	1.7658	0.12	11.178	0.07
NFRC SC-2 Max		<0.005	94.00	0.820	<50.0	75.800	0.03	0.01	45.60	0.04	0.1740	0.20	2.2400	373.00		1.29	0.01	9.94	43.900	0.95	3.49	1.420	2.3500	<10.0	0.08	0.5000	6910.00	<0.01	196.00	1.70	0.01	3.0100	0.30	17.600	0.20
NFRC SC-2 Min		<0.005	3.20	0.380	<50.0	28.500	<0.01	<0.005	13.80	0.01	0.0630	<0.1	0.2300	118.00		0.47	0.00	3.26	14.900	0.26	1.40	0.400	0.2030	8.00	0.06	0.1300	3750.00	<0.01	57.10	<0.5	<0.002	0.5150	<0.2	5.900	<0.1
NFRC SC-2 N > DL		0	9	9	0	9	2	1	9	9	9	1	9	9	0	9	9	9	9	9	9	9	9	2	9	9	9	0	9	3	5	9	1	9	1
NFRC SC-2 Median		<0.005	12.20	0.500	<50.0	52.400	<0.01	<0.005	30.70	0.02	0.1190	<0.1	0.5100	158.00		0.99	0.01	6.93	30.800	0.60	2.52	0.490	0.6580	<10.0	0.07	0.3100	5290.00	<0.01	135.00	<0.5	0.00	1.5700	<0.2	11.000	<0.1
NFRC SC-3	**1/12/2010**	<0.005	4.10	0.400	<50.0	69.200	<0.01	<0.005	42.70	0.01	0.0960	<0.1	0.3300	116.00		1.00	0.01	9.16	30.600	0.79	3.19	0.450	0.2890	8.00	0.07	0.4200	5960.00	<0.01	175.00	<0.5	<0.002	2.5300	<0.2	11.000	<0.1
NFRC SC-3	**2/23/2010**	0.0060	6.50	0.470	<50.0	73.000	<0.01	<0.005	44.30	0.02	0.1240	0.20	1.0300	156.00		1.12	0.01	9.62	34.400	0.82	3.45	0.730	0.5860	8.00	0.06	0.4400	5940.00	<0.01	191.00	<0.5	<0.002	2.8200	<0.2	16.400	<0.1
NFRC SC-3	**3/10/2010**	<0.005	6.00	0.500	<50.0	69.900	<0.01	<0.005	42.90	0.01	0.1160	<0.1	0.2500	144.00		1.02	0.01	8.98	37.400	0.94	3.22	0.420	0.3210	<10.0	0.05	0.4400	5720.00	<0.01	190.00	<0.5	<0.002	2.9200	<0.2	13.100	<0.1
NFRC SC-3	**4/14/2010**	<0.005	4.80	0.380	<50.0	72.400	<0.01	<0.005	43.10	0.03	0.1760	<0.1	0.3500	132.00		1.07	0.01	8.67	42.900	0.90	3.18	0.640	0.7510	<10.0	0.06	0.4400	6050.00	<0.01	196.00	<0.5	<0.002	2.9500	<0.2	19.700	<0.1
NFRC SC-3	**5/3/2010**	<0.005	91.60	0.820	<50.0	36.400	0.02	<0.005	16.60	0.05	0.1610	<0.1	2.3400	364.00		1.27	0.00	3.33	33.000	0.36	1.38	1.300	2.5300	<10.0	0.08	0.1700	3590.00	<0.01	75.00	2.40	0.01	0.6450	0.30	15.600	0.20
NFRC SC-3	**6/4/2010**	<0.005	88.30	0.500	<50.0	28.300	0.02	0.01	13.70	0.02	0.0960	0.20	1.0600	184.00		0.53	0.00	3.25	19.700	0.28	1.52	0.710	1.7500	<10.0	0.08	0.1300	4440.00	<0.01	57.30	1.50	0.00	0.5120	<0.2	12.700	<0.1
NFRC SC-3	**7/8/2010**	<0.005	31.60	0.580	<50.0	38.700	<0.01	<0.005	17.90	0.01	0.0550	<0.1	0.7600	132.00		0.48	0.00	4.36	14.400	0.38	1.71	0.440	0.6420	<10.0	0.09	0.1600	4520.00	<0.01	84.70	1.50	0.00	0.7160	<0.2	5.400	<0.1
NFRC SC-3	**8/3/2010**	<0.005	10.40	0.730	<50.0	52.000	<0.01	0.01	26.40	0.01	0.0690	<0.1	0.5400	176.00		0.66	0.00	6.04	24.000	0.58	2.18	0.480	0.7290	<10.0	0.07	0.2300	4300.00	<0.01	114.00	<0.5	0.00	1.1700	<0.2	8.100	<0.1
NFRC SC-3	**10/18/2010**	<0.005	11.70	0.580	<50.0	51.800	<0.01	<0.005	30.30	0.02	0.1100	<0.1	0.4300	199.00		0.73	0.01	6.85	41.100	0.61	2.45	0.900	0.5530	<10.0	0.07	0.2900	5240.00	<0.01	134.00	<0.5	0.00	1.5300	<0.2	10.100	<0.1
NFRC SC-3 Average		0.0029	28.33	0.551	25.00	54.633	0.01	0.00	30.88	0.02	0.1114	0.08	0.7878	178.11		0.88	0.01	6.70	30.833	0.63	2.48	0.674	0.9057	5.67	0.07	0.3022	5084.44	0.01	135.22	0.77	0.00	1.7548	0.12	12.456	0.07
NFRC SC-3 Max		0.0060	91.60	0.820	<50.0	73.000	0.02	0.01	44.30	0.05	0.1760	0.20	2.3400	364.00		1.27	0.01	9.62	42.900	0.94	3.45	1.300	2.5300	<10.0	0.09	0.4400	6050.00	<0.01	196.00	2.40	0.01	2.9500	0.30	19.700	0.20
NFRC SC-3 Min		<0.005	4.10	0.380	<50.0	28.300	<0.01	<0.005	13.70	0.01	0.0550	<0.1	0.2500	116.00		0.48	0.00	3.25	14.400	0.28	1.38	0.420	0.2890	8.00	0.05	0.1300	3590.00	<0.01	57.30	<0.5	<0.002	0.5120	<0.2	5.400	<0.1
NFRC SC-3 N > DL		1	9	9	0	9	2	2	9	9	9	2	9	9	0	9	9	9	9	9	9	9	9	2	9	9	9	0	9	3	5	9	1	9	1
NFRC SC-3 Median		<0.005	10.40	0.500	<50.0	52.000	<0.01	<0.005	30.30	0.02	0.1100	<0.1	0.5400	156.00		1.00	0.01	6.85	33.000	0.61	2.45	0.640	0.6420	<10.0	0.07	0.2900	5240.00	<0.01	134.00	<0.5	0.00	1.5300	<0.2	12.700	<0.1
NFRC SC-4	**1/11/2010**	<0.005	5.50	0.370	<50.0	68.000	<0.01	<0.005	43.50	0.02	0.1550	<0.1	0.3200	156.00		1.03	0.01	9.42	56.300	0.81	3.17	0.660	0.3790	10.00	0.07	0.4700	7050.00	0.02	178.00	<0.5	<0.002	2.5000	<0.2	21.800	<0.1
NFRC SC-4	**2/23/2010**	<0.005	3.90	0.380	<50.0	77.500	<0.01	<0.005	47.70	0.02	0.1710	<0.1	0.4400	123.00		1.15	0.01	10.50	57.600	0.81	3.58	0.600	0.1700	8.00	0.06	0.4400	6140.00	<0.01	198.00	<0.5	<0.002	2.9000	<0.2	24.100	<0.1

NB: Metals reported in mg/L are shaded in grey.

Table C-3: Rose Creek Drainage Water Quality
2010 - Surface Water - Total Metals

Station	Date	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NFRC SC-4	**3/10/2010**	<0.005	6.80	0.510	<50.0	62.800	<0.01	<0.005	47.10	0.02	0.2250	0.20	0.3400	197.00		1.13	0.01	9.99	70.100	0.81	3.56	0.690	0.5840	<10.0	0.05	0.4500	5960.00	<0.01	175.00	<0.5	<0.002	2.6600	<0.2	26.400	<0.1
NFRC SC-4	**4/14/2010**	<0.005	3.20	0.380	<50.0	72.100	<0.01	<0.005	43.80	0.03	0.2130	<0.1	0.2400	135.00		1.08	0.01	8.81	64.100	0.92	3.17	0.620	0.2620	<10.0	0.06	0.4400	5770.00	<0.01	197.00	<0.5	<0.002	2.9900	<0.2	26.400	<0.1
NFRC SC-4	**5/3/2010**	<0.005	90.60	0.840	<50.0	36.600	0.03	<0.005	16.80	0.04	0.1740	<0.1	2.3000	359.00		1.30	0.00	3.40	36.000	0.37	1.40	1.610	2.2300	<10.0	0.07	0.1700	3560.00	<0.01	75.30	1.90	0.01	0.6570	<0.2	15.900	0.20
NFRC SC-4	**6/4/2010**	<0.005	72.30	0.510	<50.0	28.600	0.02	0.01	13.90	0.02	0.0880	0.20	0.9900	176.00		0.53	0.00	3.30	18.200	0.27	1.53	0.670	1.4900	<10.0	0.07	0.1300	4510.00	<0.01	57.60	1.70	0.00	0.5010	<0.2	10.600	<0.1
NFRC SC-4	**7/8/2010**	<0.005	34.30	0.570	<50.0	39.300	<0.01	<0.005	19.20	0.02	0.0770	<0.1	0.7800	160.00		0.49	0.00	4.41	20.800	0.36	1.72	0.530	1.2100	<10.0	0.08	0.1700	4770.00	<0.01	84.30	1.20	0.00	0.7150	<0.2	7.000	<0.1
NFRC SC-4	**8/3/2010**	<0.005	12.90	0.710	<50.0	53.100	<0.01	0.02	27.30	0.02	0.0980	<0.1	0.6400	194.00		0.67	0.00	6.02	31.800	0.56	2.26	0.630	1.0700	<10.0	0.08	0.2300	4460.00	<0.01	116.00	<0.5	0.00	1.1800	<0.2	11.800	<0.1
NFRC SC-4	**10/18/2010**	<0.005	11.60	0.520	<50.0	49.500	<0.01	<0.005	30.80	0.02	0.1150	<0.1	0.3900	216.00		0.69	0.00	6.55	43.900	0.59	2.31	0.650	0.7230	<10.0	0.06	0.2900	5390.00	<0.01	129.00	<0.5	0.00	1.5000	<0.2	11.600	<0.1
NFRC SC-4 Average		0.0025	26.79	0.532	25.00	54.167	0.01	0.01	32.23	0.02	0.1462	0.08	0.7156	190.67		0.90	0.01	6.93	44.311	0.61	2.52	0.740	0.9020	5.89	0.07	0.3100	5290.00	0.01	134.47	0.70	0.00	1.7337	0.10	17.289	0.07
NFRC SC-4 Max		<0.005	90.60	0.840	<50.0	77.500	0.03	0.02	47.70	0.04	0.2250	0.20	2.3000	359.00		1.30	0.01	10.50	70.100	0.92	3.58	1.610	2.2300	<10.0	0.08	0.4700	7050.00	0.02	198.00	1.90	0.01	2.9900	<0.2	26.400	0.20
NFRC SC-4 Min		<0.005	3.20	0.370	<50.0	28.600	<0.01	<0.005	13.90	0.02	0.0770	<0.1	0.2400	123.00		0.49	0.00	3.30	18.200	0.27	1.40	0.530	0.1700	8.00	0.05	0.1300	3560.00	<0.01	57.60	<0.5	<0.002	0.5010	<0.2	7.000	<0.1
NFRC SC-4 N > DL		0	9	9	0	9	2	2	9	9	9	2	9	9	0	9	9	9	9	9	9	9	9	2	9	9	9	1	9	3	5	9	0	9	1
NFRC SC-4 Median		<0.005	11.60	0.510	<50.0	53.100	<0.01	<0.005	30.80	0.02	0.1550	<0.1	0.4400	176.00		1.03	0.00	6.55	43.900	0.59	2.31	0.650	0.7230	<10.0	0.07	0.2900	5390.00	<0.01	129.00	<0.5	0.00	1.5000	<0.2	15.900	<0.1
NWID	**2/22/2010**	<0.005	2.50	0.190	<50.0	61.600	<0.01	<0.005	70.20	0.06	0.0110	<0.1	0.6900	3.00		1.90	0.01	9.12	0.460	0.25	3.43	0.640	0.1500	19.00	0.05	0.3400	6850.00	<0.01	258.00	<0.5	0.00	1.5700	<0.2	16.700	<0.1
NWID	**3/10/2010**	<0.005	3.80	0.200	<50.0	57.700	<0.01	<0.005	70.50	0.07	0.0100	<0.1	0.6900	6.00		1.91	0.01	8.91	0.270	0.33	3.42	0.720	0.7100	20.00	0.05	0.3900	7260.00	<0.01	262.00	<0.5	0.00	1.6200	<0.2	19.000	<0.1
NWID	**4/15/2010**	<0.005	3.20	0.200	<50.0	57.800	<0.01	<0.005	66.20	0.06	0.0150	<0.1	0.6500	4.00		1.84	0.01	8.15	0.270	0.30	3.16	0.710	0.3650	16.00	0.06	0.3600	6370.00	<0.01	261.00	<0.5	0.00	1.5700	<0.2	19.200	<0.1
NWID	**5/3/2010**	0.0080	58.60	0.320	<50.0	31.800	<0.01	<0.005	26.20	0.06	0.0700	<0.1	2.6500	68.00		1.34	0.00	3.59	6.190	0.21	1.64	1.250	1.3600	<10.0	0.07	0.1400	5020.00	<0.01	96.90	0.90	0.00	0.4030	<0.2	28.300	0.20
NWID	**6/4/2010**	<0.005	22.30	0.200	<50.0	36.100	<0.01	<0.005	35.30	0.06	0.0270	0.20	1.7000	15.00		1.24	0.00	5.17	0.530	0.30	2.59	0.890	0.3820	<10.0	0.06	0.1400	7570.00	<0.01	130.00	<0.5	0.00	0.5690	<0.2	17.000	<0.1
NWID	**7/10/2010**	<0.005	6.70	0.200	<50.0	47.100	<0.01	<0.005	52.80	0.06	0.0160	<0.1	1.0800	9.00		1.47	0.01	6.44	1.100	0.30	2.75	0.530	0.2380	12.00	0.06	0.2100	7530.00	<0.01	187.00	<0.5	0.00	0.9290	<0.2	16.000	<0.1
NWID	**8/3/2010**	<0.005	5.30	0.220	<50.0	53.300	<0.01	<0.005	52.70	0.06	0.0160	<0.1	0.8600	6.00		1.68	0.01	7.19	0.620	0.31	2.97	0.510	0.3000	14.00	0.05	0.2700	6280.00	<0.01	209.00	<0.5	0.00	1.1000	<0.2	13.200	<0.1
NWID Average		0.0033	14.63	0.219	25.00	49.343	0.01	0.00	53.41	0.06	0.0236	0.07	1.1886	15.86		1.63	0.01	6.94	1.349	0.29	2.85	0.750	0.5007	13.00	0.06	0.2643	6697.14	0.01	200.56	0.34	0.00	1.1087	0.10	18.486	0.07
NWID Max		0.0080	58.60	0.320	<50.0	61.600	<0.01	<0.005	70.50	0.07	0.0700	0.20	2.6500	68.00		1.91	0.01	9.12	6.190	0.33	3.43	1.250	1.3600	20.00	0.07	0.3900	7570.00	<0.01	262.00	0.90	0.00	1.6200	<0.2	28.300	0.20
NWID Min		<0.005	2.50	0.190	<50.0	31.800	<0.01	<0.005	26.20	0.06	0.0100	<0.1	0.6500	3.00		1.24	0.00	3.59	0.270	0.21	1.64	0.510	0.1500	<10.0	0.05	0.1400	5020.00	<0.01	96.90	<0.5	0.00	0.4030	<0.2	13.200	<0.1
NWID N > DL		1	7	7	0	7	0	0	7	7	7	1	7	7	0	7	7	7	7	7	7	7	7	5	7	7	7	0	7	1	7	7	0	7	1
NWID Median		<0.005	5.30	0.200	<50.0	53.300	<0.01	<0.005	52.80	0.06	0.0160	<0.1	0.8600	6.00		1.68	0.01	7.19	0.530	0.30	2.97	0.710	0.3650	14.00	0.06	0.2700	6850.00	<0.01	209.00	<0.5	0.00	1.1000	<0.2	17.000	<0.1
R10	**1/11/2010**	<0.005	5.10	0.410	<50.0	69.700	<0.01	<0.005	43.10	0.01	0.0440	<0.1	0.6400	100.00		1.00	0.01	9.24	19.500	0.82	3.15	0.330	0.2270	9.00	0.06	0.4500	6460.00	<0.01	174.00	<0.5	<0.002	2.5100	<0.2	6.900	<0.1
R10	**2/23/2010**	<0.005	3.60	0.470	<50.0	76.400	<0.01	<0.005	44.60	0.01	0.0420	<0.1	0.2400	78.00		1.05	0.01	9.55	14.700	0.87	3.39	0.270	0.0710	8.00	0.06	0.4600	6230.00	<0.01	187.00	<0.5	<0.002	2.8500	<0.2	7.400	<0.1
R10	**3/10/2010**	<0.005	5.20	0.480	<50.0	71.600	<0.01	<0.005	43.90	0.01	0.0390	<0.1	0.3200	75.00		1.05	0.01	8.96	13.200	0.97	3.30	0.300	0.8370	<10.0	0.06	0.4700	6140.00	<0.01	190.00	<0.5	<0.002	3.0200	<0.2	12.200	<0.1
R10	**4/11/2010**	<0.005	5.80	0.440	<50.0	68.700	<0.01	<0.005	39.30	0.03	0.3180	0.20	0.3900	99.00		1.00	0.01	7.85	36.900	0.94	2.99	0.530	0.4700	<10.0	0.06	0.4100	5430.00	0.02	187.00	<0.5	<0.002	2.9700	<0.2	19.800	<0.1
R10	**5/3/2010**	<0.005	95.10	0.900	<50.0	39.400	0.02	0.01	17.90	0.04	0.1420	<0.1	2.5000	359.00		1.36	0.00	3.35	32.400	0.40	1.43	1.490	1.4700	<10.0	0.08	0.1900	3910.00	<0.01	77.30	1.60	0.00	0.6990	<0.2	11.400	0.20
R10	**6/5/2010**	<0.005	57.10	0.490	<50.0	30.300	<0.01	0.01	15.00	0.02	0.0580	<0.1	1.0000	145.00		0.52	0.00	3.55	11.900	0.31	1.59	0.560	1.0100	<10.0	0.08	0.1400	4740.00	0.02	61.00	0.90	<0.002	0.5920	<0.2	6.600	<0.1
R10	**7/8/2010**	<0.005	36.10	0.600	<50.0	38.000	<0.01	0.10	18.10	0.01	0.0480	<0.1	0.7100	147.00		0.45	0.00	4.19	14.600	0.36	1.65	0.380	0.3020	<10.0	0.08	0.1800	4630.00	<0.01	80.60	1.50	<0.002	0.7260	<0.2	3.500	<0.1
R10	**8/3/2010**	<0.005	10.40	0.670	<50.0	51.600	<0.01	0.01	26.60	0.01	0.0420	<0.1	0.5500	152.00		0.61	0.00	5.83	13.900	0.55	2.09	0.980	0.3880	<10.0	0.07	0.2300	4240.00	<0.01	112.00	<0.5	<0.002	1.1500	<0.2	6.800	<0.1
R10	**9/1/2010**	<0.005	11.20	0.660	<50.0	47.500	<0.01	<0.005	26.30	0.01	0.0430	<0.1	0.4300	182.00		0.58	0.00	5.63	16.900	0.51	2.05	0.310	0.1160	<10.0	0.06	0.2200	4180.00	<0.01	118.00	<0.5	<0.002	1.1900	<0.2	3.400	<0.1
R10	**10/19/2010**	<0.005	9.90	0.580	<50.0	52.600	<0.01	<0.005	31.80	0.02	0.0330	<0.1	0.3900	176.00		0.75	0.01	7.11	21.300	0.59	2.48	0.380	0.3850	<10.0	0.07	0.3100	5560.00	<0.01	133.00	<0.5	<0.002	1.5500	<0.2	6.000	<0.1
R10	**11/10/2010**	<0.005	10.60	0.460	<50.0	66.700	<0.01	<0.005	38.00	0.02	0.0350	<0.1	0.3200	109.00		0.87	0.01	8.36	16.600	0.72	2.79	0.380	0.1870	<10.0	0.06	0.3200	6110.00	<0.01	160.00	<0.5	<0.002	1.9700	<0.2	16.100	<0.1
R10	**12/1/2010**	<0.005	8.00	0.510	<50.0	62.900	<0.01	<0.005	37.00	0.01	0.0390	<0.1	0.6300	136.00		0.88	0.01	8.22	20.800	0.58	2.76	0.250	0.1740	<10.0	0.05	0.3200	5600.00	<0.01	157.00	<0.5	<0.002	1.9100	<0.2	5.200	<0.1
R10 Average		0.0025	21.51	0.556	25.00	56.283	0.01	0.01	31.80	0.02	0.0736	0.06	0.6767	146.50		0.84	0.01	6.82	19.392	0.64	2.47	0.513	0.4698	5.58	0.07	0.3083	5269.17	0.01	136.41	0.52	0.00	1.7614	0.10	8.775	0.06
R10 Max		<0.005	95.10	0.900	<50.0	76.400	0.02	0.10	44.60	0.04	0.3180	0.20	2.5000	359.00		1.36	0.01	9.55	36.900	0.97	3.39	1.490	1.4700	<10.0	0.08	0.4700	6460.00	0.02	190.00	1.60	0.00	3.0200	<0.2	19.800	0.20
R10 Min		<0.005	3.60	0.410	<50.0	30.300	<0.01	<0.005	15.00	0.01	0.0330	<0.1	0.2400	75.00		0.45	0.00	3.35	11.900	0.31	1.43	0.250	0.0710	8.00	0.05	0.1400	3910.00	<0.01	61.00	<0.5	<0.002	0.5920	<0.2	3.400	<0.1
R10 N > DL		0	12	12	0	12	1	4	12	12	12	1	12	12	0	12	12	12	12	12	12	12	12	2	12	12	12	2	12	3	1	12	0	12	1
R10 Median		<0.005	10.15	0.500	<50.0	57.750	<0.01	<0.005	34.40	0.01	0.0425	<0.1	0.4900	140.50		0.88	0.01	7.48	16.750	0.59	2.62	0.380	0.3435	<10.0	0.06	0.3150	5495.00	<0.01	145.00	<0.5	<0.002	1.7300	<0.2	6.850	<0.1
R7	**1/11/2010**	<0.005	3.00	0.470	<50.0	68.600	<0.01	<0.005	39.60	0.01	0.0210	<0.1	0.2500	91.00		0.93	0.01	7.81	14.900	0.81	3.05	0.180	0.0580	<3.0	0.06	0.4100	6240.00	<0.01	161.00	<0.5	<0.002	2.2600	<0.2	0.600	<0.1
R7	**2/23/2010**	<0.005	2.90	0.470	<50.0	74.900	<0.01	<0.005	41.60	<0.005	0.0110	<0.1	0.2000	79.00		0.95	0.01	8.31	10.100	0.86	3.27	0.150	0.0100	4.00	0.06	0.4400	6160.00	<0.01	176.00	<0.5	<0.002	2.6200	<0.2	0.300	<0.1
R7	**3/10/2010**	<0.005	3.90	0.460	<50.0	72.200	<0.01	<0.005	41.20	<0.005	0.0160	<0.1	0.2000	82.00		0.96	0.01	8.09	9.870	0.99	3.23	0.170	0.0500	<10.0	0.05	0.4600	5650.00	<0.01	175.00	<0.5	<0.002	2.7900	<0.2	0.400	<0.1
R7	**4/11/2010**	<0.005	1.50	0.380	<50.0	72.800	<0.01	<0.005	42.40	<0.005	0.0140	<0.1	0.1900	28.00		1.04	0.01	8.06	7.490	1.01	3.30	0.180	0.0790	<10.0	0.06	0.4800	5980.00	0.02	177.00	<0.5	<0.002	2.8200	<0.2	0.800	<0.1
R7	**5/3/2010**	<0.005	81.60	0.990	<50.0	40.700	0.02	<0.005	16.50	0.03	0.0970	<0.1	1.7800	409.00		1.30	0.00	3.13	39.900	0.43	1.39	1.080	0.5170	<10.0	0.08	0.2000	3800.00	<0.01	72.40	1.50	0.00	0.7360	<0.2	4.000	0.20
R7	**6/5/2010**	<0.005	76.10	0.560	<50.0	32.500	<0.01	0.02	16.10	0.01	0.0500	0.20	0.8400	168.00		0.52	0.00	3.44	15.100	0.33	1.55	0.440	0.3300	<10.0	0.07	0.1500	4340.00	0.02	63.70	1.20	<0.002	0.6260	<0.2	2.900	<0.1
R7	**7/8/2010**	<0.005	31.10	0.660	<50.0	40.400	<0.01	0.01	16.80	0.01	0.0500	<0.1	0.9900	142.00		0.41	0.00	4.01	16.400	0.37	1.61	0.400	0.5920	<10.0	0.08	0.1600	4140.00	<0.01	79.10	0.70	<0.002	0.7140	<0.2	2.000	<0.1
R7	**8/3/2010**	<0.005	12.20	0.750	<50.0	52.100	<0.01	0.01	25.40	<0.005	0.0260	<0.1	0.4900	168.00		0.56	0.00	5.52	13.400	0.57	2.01	0.280	0.3910	<10.0	0.07	0.2000	4170.00	<0.01	107.00	<0.5	<0.002	1.1000	<0.2	1.900	<0.1
R7	**9/1/2010**	<0.005	13.90	0.720	<50.0	47.900	<0.01	<0.005	26.50	<0.005	0.0310	<0.1	0.4100	208.00		0.54	0.00	5.22	21.100	0.50	2.02	0.250	0.1050	<10.0	0.05	0.1900	4590.00	<0.01	109.00	<0.5	<0.002	1.0700	<0.2	0.600	<0.1
R7	**10/19/2010**	<0.005	7.70	0.650	<50.0	52.100	<0.01	<0.005	29.60	0.01	0.0340	<0.1	0.3100	181.00		0.64	0.00	6.04	19.600	0.55	2.30	0.280	0.2810	<10.0	0.06	0.3000	5390.00	<0.01	127.00	<0.5	<0.002	1.4000	<0.2	1.600	<0.1
R7	**11/10/2010**	<0.005	8.90	0.450	<50.0	66.800	<0.01	<0.005	35.40	0.01	0.0370	<0.1	0.3800	124.00		0.79	0.01	7.20	17.300	0.91	2.74	0.280	0.4540	<10.0	0.05	0.2900	6400.00	<0.01	146.00	<0.5	<0.002	1.7100	<0.2	6.000	<0.1
R7	**12/1/2010**	<0.005	6.40	0.530	<50.0	65.300	<0.01	<0.005	36.90	0.01	0.0240	<0.1	0.3300	145.00		0.82	0.01	7.20	18.100	0.62	2.73	0.190	0.0560	<10.0	0.05	0.3400	6100.00	<0.01	151.00	<0.5	<0.002	1.8300	<0.2	0.900	<0.1
R7 Average		0.0025	20.77	0.591	25.00	57.192	0.01	0.00	30.67	0.01	0.0343	0.06	0.5308	152.08		0.79	0.01	6.17	16.938	0.66	2.43	0.323	0.2436	4.63	0.06	0.3017	5246.67	0.01	128.68	0.47	0.00	1.6397	0.10	1.833	0.06
R7 Max		<0.005	81.60	0.990	<50.0	74.900	0.02	0.02	42.40	0.03	0.0970	0.20	1.7800	409.00		1.30	0.01	8.31	39.900	1.01	3.30	1.080	0.5920	<10.0	0.08	0.4800	6400.00	0.02	177.00	1.50	0.00	2.8200	<0.2	6.000	0.20
R7 Min		<0.005	1.50	0.380	<50.0	32.500	<0.01	<0.005	16.10	<0.005	0.0110	<0.1	0.1900	28.00		0.41	0.00	3.13	7.490	0.33	1.39	0.150	0.0100	<3.0	0.05	0.1500	3800.00	<0.01	63.70	<0.5	<0.002	0.6260	<0.2	0.300	<0.1
R7 N > DL		0	12	12	0	12	1	3	12	7	12	1	12	12	0	12	12	12	12	12	12	12	12	1	12	12	12	2	12	3	1	12	0	12	1
R7 Median		<0.005	8.30	0.545	<50.0	58.700	<0.01	<0.005	32.50	0.01	0.0285	<0.1	0.3550	143.50		0.81	0.01	6.62	15.750	0.60	2.52	0.265	0.1930	<10.0	0.06	0.2950	5520.00	<0.01	136.50	<0.5	<0.002	1.5550	<0.2	1.250	<0.1
R8	**1/11/2010**	<0.005	3.20	0.450	<50.0	69.500	<0.01	<0.005	38.60	<0.005	0.0190	<0.1	0.2700	90.00		0.89	0.01	7.60	14.800	0.79	2.95	0.190	0.0890	4.00	0.06	0.4000	6220.00	<0.01	157.00	<0.5	<0.002	2.2300	<0.2	0.700	<0.1
R8	**2/23/2010**	<0.005	2.70	0.490	<50.0	75.500	<0.01	<0.005	42.60	<0.005	0.0160	<0.1	0.2100	77.00		0.99	0.01	8.34	9.950	0.85	3.25	0.180	0.0230	4.00	0.06	0.4500	6150.00	<0.01	177.00	<0.5	<0.002	2.6500	<0.2	0.400	<0.1
R8	**3/10/2010**	<0.005	2.60	0.460	<50.0	69.800	<0.01	<0.005	40.60	<0.005	0.0130	<0.1	0.2000	74.00		0.94	0.01	7.97	9.160	0.98	3.18	0.180	0.0170	<10.0	0.05	0.4500	5750.00	<0.01	171.00	<0.5	<0.002	2.7000	<0.2	0.500	<0.1

NB: Metals reported in mg/L are shaded in grey.

Table C-3: Rose Creek Drainage Water Quality
2010 - Surface Water - Total Metals

Station	Date	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
R8	**4/11/2010**	<0.005	4.00	0.460	<50.0	73.500	<0.01	<0.005	43.50	<0.005	0.0210	<0.1	0.2000	66.00		1.05	0.01	8.25	8.300	1.03	3.36	0.260	0.0260	<10.0	0.06	0.4300	5590.00	0.03	182.00	<0.5	<0.002	2.8300	<0.2	0.400	<0.1
R8	**5/3/2010**	<0.005	105.00	0.970	<50.0	39.700	0.03	<0.005	16.10	0.04	0.1070	<0.1	2.1600	398.00		1.27	0.00	3.00	36.300	0.45	1.42	1.700	1.6800	<10.0	0.08	0.1800	3740.00	<0.01	69.40	1.90	0.00	0.7060	0.30	8.600	0.20
R8	**6/5/2010**	<0.005	75.70	0.540	<50.0	30.100	<0.01	0.01	14.20	0.02	0.0610	0.20	0.9000	167.00		0.48	0.00	3.11	13.700	0.31	1.58	0.430	0.8320	<10.0	0.08	0.1400	4810.00	<0.01	56.70	1.20	<0.002	0.5700	<0.2	2.600	<0.1
R8	**7/8/2010**	<0.005	33.30	0.610	<50.0	37.600	<0.01	<0.005	16.60	0.01	0.0400	<0.1	0.7100	137.00		0.40	0.00	3.72	15.300	0.37	1.60	0.370	0.4070	<10.0	0.08	0.1500	4600.00	<0.01	72.50	1.00	<0.002	0.6530	<0.2	1.500	<0.1
R8	**8/3/2010**	<0.005	11.90	0.780	<50.0	51.100	<0.01	<0.005	25.00	0.01	0.0350	<0.1	0.4900	168.00		0.54	0.00	5.29	15.600	0.56	2.00	0.340	0.2720	<10.0	0.07	0.2100	4360.00	<0.01	103.00	<0.5	<0.002	1.0300	<0.2	2.600	<0.1
R8	**9/1/2010**	<0.005	11.80	0.670	<50.0	47.400	<0.01	<0.005	25.30	0.01	0.0290	<0.1	0.4400	188.00		0.52	0.00	5.10	16.500	0.55	2.04	0.270	0.5250	<10.0	0.06	0.2200	4660.00	<0.01	106.00	<0.5	<0.002	1.0700	<0.2	2.900	<0.1
R8	**10/19/2010**	<0.005	8.10	0.610	<50.0	52.600	<0.01	<0.005	29.30	0.01	0.0290	<0.1	0.3800	176.00		0.66	0.00	6.06	19.500	0.57	2.40	0.250	0.2730	<10.0	0.06	0.2800	5360.00	<0.01	121.00	<0.5	<0.002	1.3900	<0.2	1.500	<0.1
R8	**11/10/2010**	<0.005	22.60	0.520	<50.0	67.300	<0.01	<0.005	36.10	0.01	0.0440	<0.1	0.5200	147.00		0.79	0.01	7.16	17.100	0.83	2.71	0.320	0.2510	<10.0	0.05	0.3000	6510.00	<0.01	145.00	0.80	<0.002	1.7500	<0.2	1.600	<0.1
R8	**12/1/2010**	<0.005	4.90	0.470	<50.0	63.300	<0.01	<0.005	35.10	0.01	0.0270	<0.1	0.3400	128.00		0.80	0.01	7.00	15.400	0.62	2.65	0.220	0.0660	<10.0	0.05	0.3300	5800.00	<0.01	146.00	<0.5	<0.002	1.7600	<0.2	3.500	<0.1
R8 Average		0.0025	23.82	0.586	25.00	56.450	0.01	0.00	30.25	0.01	0.0368	0.06	0.5683	151.33		0.78	0.01	6.05	15.968	0.66	2.43	0.393	0.3718	4.83	0.06	0.2950	5295.83	0.01	125.55	0.58	0.00	1.6116	0.12	2.233	0.06
R8 Max		<0.005	105.00	0.970	<50.0	75.500	0.03	0.01	43.50	0.04	0.1070	0.20	2.1600	398.00		1.27	0.01	8.34	36.300	1.03	3.36	1.700	1.6800	<10.0	0.08	0.4500	6510.00	0.03	182.00	1.90	0.00	2.8300	0.30	8.600	0.20
R8 Min		<0.005	2.60	0.450	<50.0	30.100	<0.01	<0.005	14.20	<0.005	0.0130	<0.1	0.2000	66.00		0.40	0.00	3.00	8.300	0.31	1.42	0.180	0.0170	4.00	0.05	0.1400	3740.00	<0.01	56.70	<0.5	<0.002	0.5700	<0.2	0.400	<0.1
R8 N > DL		0	12	12	0	12	1	1	12	8	12	1	12	12	0	12	12	12	12	12	12	12	12	2	12	12	12	1	12	4	1	12	1	12	1
R8 Median		<0.005	9.95	0.530	<50.0	57.950	<0.01	<0.005	32.20	0.01	0.0290	<0.1	0.4100	142.00		0.80	0.01	6.53	15.350	0.60	2.53	0.265	0.2615	<10.0	0.06	0.2900	5475.00	<0.01	133.00	<0.5	<0.002	1.5700	<0.2	1.550	<0.1
R9	**1/11/2010**	<0.005	3.80	0.430	<50.0	69.200	<0.01	<0.005	43.50	0.02	0.0260	<0.1	0.3200	88.00		1.01	0.01	9.25	17.000	0.81	3.12	0.220	0.2500	7.00	0.06	0.4200	6320.00	<0.01	172.00	<0.5	<0.002	2.4900	<0.2	1.300	<0.1
R9	**2/23/2010**	<0.005	3.80	0.480	<50.0	74.400	<0.01	<0.005	44.50	<0.005	0.0270	<0.1	0.2600	63.00		1.06	0.01	9.57	12.800	0.87	3.39	0.220	0.1190	8.00	0.06	0.3800	5030.00	<0.01	186.00	<0.5	<0.002	2.8200	<0.2	1.200	<0.1
R9	**3/10/2010**	<0.005	3.80	0.460	<50.0	70.200	<0.01	<0.005	42.70	<0.005	0.0270	<0.1	0.2500	71.00		1.02	0.01	8.88	10.700	0.99	3.19	0.230	0.1930	<10.0	0.06	0.5100	6210.00	<0.01	180.00	<0.5	<0.002	2.9000	<0.2	4.100	<0.1
R9	**4/11/2010**	<0.005	2.90	0.480	<50.0	70.500	<0.01	<0.005	46.80	0.01	0.0190	<0.1	0.2100	64.00		1.14	0.01	9.35	9.360	1.03	3.42	0.230	0.1300	<10.0	0.06	0.4600	6380.00	<0.01	193.00	<0.5	<0.002	3.0900	<0.2	1.100	<0.1
R9	**5/3/2010**	<0.005	80.50	0.840	<50.0	33.800	0.02	<0.005	15.20	0.03	0.0810	<0.1	1.7800	290.00		1.13	0.00	3.01	20.900	0.37	1.27	0.980	0.9120	<10.0	0.07	0.1900	3770.00	<0.01	67.30	1.10	0.00	0.6190	<0.2	4.000	0.20
R9	**6/5/2010**	<0.005	83.10	0.540	<50.0	30.900	0.03	0.01	15.10	0.02	0.0750	0.20	0.9000	183.00		0.52	0.00	3.60	16.700	0.31	1.60	0.500	1.0900	<10.0	0.08	0.1400	4770.00	<0.01	61.60	2.00	<0.002	0.6170	<0.2	3.200	<0.1
R9	**7/8/2010**	<0.005	32.70	0.580	<50.0	37.900	<0.01	0.01	19.00	0.01	0.0470	<0.1	0.7000	153.00		0.44	0.00	4.08	14.500	0.36	1.62	0.400	0.5050	<10.0	0.08	0.1700	4910.00	<0.01	81.20	0.90	<0.002	0.7150	<0.2	1.700	<0.1
R9	**8/3/2010**	<0.005	13.00	0.690	<50.0	52.000	<0.01	0.01	26.20	0.01	0.0410	<0.1	0.7000	152.00		0.63	0.00	5.81	13.800	0.58	2.11	0.450	1.6200	<10.0	0.08	0.2300	4120.00	<0.01	115.00	<0.5	<0.002	1.1700	<0.2	6.700	<0.1
R9	**9/1/2010**	<0.005	12.00	0.730	<50.0	48.500	<0.01	<0.005	26.50	0.01	0.0340	<0.1	0.4600	184.00		0.62	0.00	5.98	16.800	0.50	2.16	0.280	0.1310	<10.0	0.07	0.2200	4250.00	<0.01	118.00	<0.5	<0.002	1.1600	<0.2	0.800	<0.1
R9	**10/19/2010**	<0.005	8.50	0.580	<50.0	52.500	<0.01	<0.005	31.70	0.02	0.0310	<0.1	0.3900	172.00		0.73	0.00	7.00	19.600	0.60	2.42	0.300	0.1630	<10.0	0.06	0.3200	5620.00	<0.01	133.00	<0.5	<0.002	1.5600	<0.2	1.900	<0.1
R9	**11/10/2010**	<0.005	9.20	0.450	<50.0	66.800	<0.01	<0.005	38.70	0.02	0.0460	<0.1	0.4800	113.00		0.91	0.01	8.35	17.100	0.75	2.84	0.340	0.5520	<10.0	0.06	0.3300	6510.00	<0.01	161.00	<0.5	<0.002	1.9900	<0.2	5.800	<0.1
R9	**12/1/2010**	<0.005	10.60	0.490	<50.0	64.900	<0.01	<0.005	38.50	0.01	0.0430	<0.1	0.5100	156.00		0.87	0.01	8.07	22.700	0.63	2.75	0.260	0.1490	<10.0	0.06	0.3500	5900.00	<0.01	160.00	<0.5	<0.002	2.0400	<0.2	1.900	<0.1
R9 Average		0.0025	21.99	0.563	25.00	55.967	0.01	0.00	32.37	0.01	0.0414	0.06	0.5800	140.75		0.84	0.01	6.91	15.997	0.65	2.49	0.368	0.4845	5.42	0.07	0.3100	5315.83	0.01	135.68	0.52	0.00	1.7643	0.10	2.808	0.06
R9 Max		<0.005	83.10	0.840	<50.0	74.400	0.03	0.01	46.80	0.03	0.0810	0.20	1.7800	290.00		1.14	0.01	9.57	22.700	1.03	3.42	0.980	1.6200	<10.0	0.08	0.5100	6510.00	<0.01	193.00	2.00	0.00	3.0900	<0.2	6.700	0.20
R9 Min		<0.005	2.90	0.430	<50.0	30.900	<0.01	<0.005	15.10	<0.005	0.0190	<0.1	0.2100	63.00		0.44	0.00	3.01	9.360	0.31	1.27	0.220	0.1190	7.00	0.06	0.1400	3770.00	<0.01	61.60	<0.5	<0.002	0.6170	<0.2	0.800	<0.1
R9 N > DL		0	12	12	0	12	2	3	12	10	12	1	12	12	0	12	12	12	12	12	12	12	12	2	12	12	12	0	12	3	1	12	0	12	1
R9 Median		<0.005	9.90	0.515	<50.0	58.700	<0.01	<0.005	35.10	0.01	0.0375	<0.1	0.4700	152.50		0.89	0.01	7.54	16.750	0.62	2.59	0.290	0.2215	<10.0	0.06	0.3250	5325.00	<0.01	146.50	<0.5	<0.002	1.7750	<0.2	1.900	<0.1
RCSG#4	**1/12/2010**	<0.005	4.80	0.310	<50.0	66.800	<0.01	<0.005	46.60	0.12	0.1200	<0.1	0.8400	292.00		1.20	0.01	10.40	66.300	0.72	3.11	0.800	1.4200	12.00	0.07	0.4200	6150.00	0.03	183.00	<0.5	0.00	2.4700	<0.2	38.100	<0.1
RCSG#4	**3/10/2010**	<0.005	3.30	0.310	<50.0	70.000	<0.01	<0.005	46.30	0.02	0.1220	<0.1	0.2900	165.00		1.17	0.01	10.20	67.700	0.79	3.21	0.610	0.3500	11.00	0.05	0.3900	5330.00	<0.01	201.00	<0.5	<0.002	2.9400	<0.2	28.800	<0.1
RCSG#4	**4/13/2010**	<0.005	2.70	0.230	<50.0	70.700	<0.01	<0.005	44.00	0.02	0.1160	<0.1	0.2400	229.00		1.11	0.01	9.50	67.000	0.79	2.91	0.640	0.3350	<10.0	0.05	0.3900	5390.00	<0.01	201.00	<0.5	<0.002	2.9300	<0.2	33.200	<0.1
RCSG#4	**5/3/2010**	<0.005	85.90	0.810	<50.0	37.700	0.02	<0.005	19.20	0.03	0.1820	<0.1	1.8400	563.00		1.23	0.00	4.17	65.900	0.37	1.42	1.200	1.5000	<10.0	0.07	0.1500	3470.00	<0.01	87.70	1.80	0.01	0.8790	0.30	26.500	0.20
RCSG#4	**6/4/2010**	<0.005	65.30	0.410	<50.0	26.800	<0.01	0.01	13.90	0.02	0.0870	0.20	0.8500	287.00		0.55	0.00	3.38	24.500	0.24	1.47	0.500	1.0400	<10.0	0.06	0.1100	3960.00	<0.01	62.10	1.50	0.00	0.5660	<0.2	21.600	<0.1
RCSG#4	**7/8/2010**	<0.005	31.10	0.460	<50.0	35.700	<0.01	0.01	18.60	0.02	0.0640	<0.1	0.7400	316.00		0.52	0.00	4.09	24.700	0.29	1.68	0.450	1.1600	<10.0	0.07	0.1300	4530.00	<0.01	87.30	1.00	0.00	0.7310	<0.2	20.600	<0.1
RCSG#4	**8/3/2010**	<0.005	11.10	0.530	<50.0	50.100	<0.01	<0.005	28.80	0.01	0.1300	<0.1	0.5900	1090.00		0.74	0.00	6.27	59.200	0.44	2.21	0.560	0.7050	<10.0	0.06	0.1800	4120.00	<0.01	128.00	<0.5	0.00	1.2400	<0.2	93.500	<0.1
RCSG#4 Average		0.0025	29.17	0.437	25.00	51.114	0.01	0.00	31.06	0.03	0.1173	0.07	0.7700	420.29		0.93	0.00	6.86	53.614	0.52	2.29	0.680	0.9300	6.86	0.06	0.2529	4707.14	0.01	135.73	0.76	0.00	1.6794	0.13	37.471	0.07
RCSG#4 Max		<0.005	85.90	0.810	<50.0	70.700	0.02	0.01	46.60	0.12	0.1820	0.20	1.8400	1090.00		1.23	0.01	10.40	67.700	0.79	3.21	1.200	1.5000	12.00	0.07	0.4200	6150.00	0.03	201.00	1.80	0.01	2.9400	0.30	93.500	0.20
RCSG#4 Min		<0.005	2.70	0.230	<50.0	26.800	<0.01	<0.005	13.90	0.01	0.0640	<0.1	0.2400	165.00		0.52	0.00	3.38	24.500	0.24	1.42	0.450	0.3350	<10.0	0.05	0.1100	3470.00	<0.01	62.10	<0.5	<0.002	0.5660	<0.2	20.600	<0.1
RCSG#4 N > DL		0	7	7	0	7	1	2	7	7	7	1	7	7	0	7	7	7	7	7	7	7	7	2	7	7	7	1	7	3	5	7	1	7	1
RCSG#4 Median		<0.005	11.10	0.410	<50.0	50.100	<0.01	<0.005	28.80	0.02	0.1200	<0.1	0.7400	292.00		1.11	0.00	6.27	65.900	0.44	2.21	0.610	1.0400	<10.0	0.06	0.1800	4530.00	<0.01	128.00	<0.5	0.00	1.2400	<0.2	28.800	<0.1
W10	**5/3/2010**	0.0060	75.70	0.300	<50.0	16.400	0.02	<0.005	12.60	0.06	0.0660	<0.1	2.0800	79.00		1.00	0.00	1.83	3.170	0.14	1.18	0.650	0.7550	<10.0	0.04	0.0700	4580.00	<0.01	43.10	0.80	0.00	0.1060	<0.2	14.800	0.20
W10	**6/5/2010**	<0.005	28.00	0.160	<50.0	11.500	0.02	0.01	11.50	0.03	0.0330	<0.1	1.7200	24.00		0.40	0.00	1.72	0.810	0.18	1.62	0.610	0.7170	<10.0	0.05	0.0600	6650.00	0.03	40.60	<0.5	0.00	0.1330	<0.2	3.600	0.20
W10	**7/10/2010**	<0.005	18.00	0.160	<50.0	15.900	<0.01	0.01	14.40	0.02	0.0210	<0.1	1.1400	13.00		0.43	0.00	2.21	0.260	0.19	1.83	0.380	0.1960	<10.0	0.04	<0.04	6100.00	<0.01	57.50	<0.5	<0.002	0.1300	<0.2	1.700	<0.1
W10 Average		0.0037	40.57	0.207	25.00	14.600	0.02	0.01	12.83	0.04	0.0400	0.05	1.6467	38.67		0.61	0.00	1.92	1.413	0.17	1.54	0.547	0.5560	5.00	0.04	0.0500	5776.67	0.01	47.07	0.43	0.00	0.1230	0.10	6.700	0.15
W10 Max		0.0060	75.70	0.300	<50.0	16.400	0.02	0.01	14.40	0.06	0.0660	<0.1	2.0800	79.00		1.00	0.00	2.21	3.170	0.19	1.83	0.650	0.7550	<10.0	0.05	0.0700	6650.00	0.03	57.50	0.80	0.00	0.1330	<0.2	14.800	0.20
W10 Min		<0.005	18.00	0.160	<50.0	11.500	<0.01	<0.005	11.50	0.02	0.0210	<0.1	1.1400	13.00		0.40	0.00	1.72	0.260	0.14	1.18	0.380	0.1960	<10.0	0.04	<0.04	4580.00	<0.01	40.60	<0.5	<0.002	0.1060	<0.2	1.700	<0.1
W10 N > DL		1	3	3	0	3	2	2	3	3	3	0	3	3	0	3	3	3	3	3	3	3	3	0	3	2	3	1	3	1	2	3	0	3	2
W10 Median		<0.005	28.00	0.160	<50.0	15.900	0.02	0.01	12.60	0.03	0.0330	<0.1	1.7200	24.00		0.43	0.00	1.83	0.810	0.18	1.62	0.610	0.7170	<10.0	0.04	0.0600	6100.00	<0.01	43.10	<0.5	0.00	0.1300	<0.2	3.600	0.20
W8	**6/17/2010**	<0.005	15.80	0.180	<50.0	40.100	<0.01	0.01	16.90	0.04	0.0400	<0.1	1.8900	58.00		0.70	0.00	2.77	12.700	0.41	1.73	0.400	0.7890	<10.0	0.05	0.0500	6860.00	<0.01	64.30	<0.5	0.01	0.1930	<0.2	15.000	<0.1
X10	**1/11/2010**	<0.005	3.10	0.190	<50.0	70.600	<0.01	<0.005	47.10	0.02	0.0490	<0.1	0.3700	104.00		1.12	0.01	11.50	26.400	0.67	3.03	0.790	0.1450	11.00	0.07	0.4200	5850.00	<0.01	192.00	<0.5	<0.002	2.5300	<0.2	44.700	<0.1
X10	**2/22/2010**	<0.005	2.80	0.210	<50.0	72.200	<0.01	<0.005	48.30	<0.005	0.0240	<0.1	0.3400	67.00		1.19	0.01	11.30	11.600	0.76	3.06	0.680	0.1620	10.00	0.07	0.4200	5730.00	<0.01	202.00	<0.5	0.00	2.7100	<0.2	26.800	<0.1
X10	**3/10/2010**	<0.005	3.80	0.240	<50.0	71.300	<0.01	<0.005	47.00	0.01	0.0300	<0.1	0.3400	84.00		1.13	0.01	11.10	14.600	0.80	3.09	0.730	0.0760	12.00	0.06	0.4700	5610.00	<0.01	201.00	<0.5	<0.002	2.8700	<0.2	29.300	<0.1
X10	**4/13/2010**	<0.005	3.80	0.180	<50.0	71.300	<0.01	<0.005	47.60	0.02	0.0410	<0.1	0.3200	91.00		1.16	0.01	10.50	16.000	0.79	2.99	0.660	0.5720	11.00	0.07	0.4000	5480.00	<0.01	204.00	<0.5	<0.002	2.9200	<0.2	45.700	<0.1

NB: Metals reported in mg/L are shaded in grey.

Table C-3: Rose Creek Drainage Water Quality
2010 - Surface Water - Total Metals

Station	Date	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X10	**5/3/2010**	<0.005	73.30	0.760	<50.0	37.500	0.02	0.01	19.30	0.04	0.1870	<0.1	2.0400	489.00		1.22	0.00	4.43	51.800	0.34	1.39	1.750	1.7600	<10.0	0.07	0.1700	3350.00	<0.01	86.00	1.40	0.01	0.8510	<0.2	22.900	0.20
X10	**6/4/2010**	<0.005	56.20	0.390	<50.0	28.300	<0.01	0.01	15.30	0.01	0.0750	<0.1	0.8200	206.00		0.56	0.00	3.79	20.500	0.28	1.47	0.500	0.7610	<10.0	0.07	0.1200	3830.00	<0.01	65.90	1.00	0.00	0.5780	<0.2	11.700	<0.1
X10	**7/8/2010**	<0.005	24.60	0.440	<50.0	35.500	<0.01	0.01	20.40	0.01	0.0680	<0.1	0.7400	264.00		0.51	0.00	4.31	22.800	0.33	1.63	0.440	0.7210	<10.0	0.07	0.1500	4640.00	<0.01	89.80	0.70	<0.002	0.7430	<0.2	13.500	<0.1
X10	**8/3/2010**	<0.005	6.60	0.490	<50.0	48.200	<0.01	<0.005	27.90	0.01	0.0550	<0.1	0.5700	319.00		0.71	0.00	6.24	26.700	0.49	1.98	0.490	0.5860	<10.0	0.07	0.2100	4150.00	<0.01	126.00	<0.5	0.00	1.2500	<0.2	19.800	<0.1
X10	**9/2/2010**	<0.005	5.80	0.430	<50.0	47.300	<0.01	<0.005	29.00	0.01	0.0730	<0.1	0.4300	335.00		0.71	0.00	6.64	27.100	0.51	2.17	0.510	0.1690	<10.0	0.06	0.2000	4260.00	<0.01	130.00	<0.5	<0.002	1.2300	<0.2	21.600	<0.1
X10	**10/21/2010**	<0.005	26.70	0.470	<50.0	56.600	<0.01	<0.005	35.30	0.03	0.1410	<0.1	7.2300	395.00		0.87	0.00	8.37	48.100	0.57	2.32	0.610	0.8010	<10.0	0.07	0.3300	4930.00	<0.01	166.00	1.00	<0.002	1.8400	<0.2	27.100	<0.1
X10	**11/9/2010**	<0.005	5.60	0.230	<50.0	61.800	<0.01	<0.005	40.00	0.02	0.0930	<0.1	0.5100	203.00		0.98	0.00	8.66	45.100	0.53	2.45	0.750	0.7720	<10.0	0.20	0.6100	5280.00	<0.01	179.00	<0.5	0.00	1.9300	<0.2	41.400	<0.1
X10	**12/1/2010**	<0.005	3.00	0.170	<50.0	60.400	<0.01	<0.005	40.70	0.01	0.0920	<0.1	0.3300	178.00		1.00	0.00	8.57	42.600	0.45	2.62	0.650	0.1390	<10.0	0.05	0.2900	5450.00	<0.01	176.00	<0.5	0.00	1.8500	<0.2	42.100	<0.1
X10 Average		0.0025	17.94	0.350	25.00	55.083	0.01	0.00	34.83	0.02	0.0773	0.05	1.1700	227.92		0.93	0.00	7.95	29.442	0.54	2.35	0.713	0.5553	7.00	0.08	0.3158	4880.00	0.01	151.48	0.51	0.00	1.7752	0.10	28.883	0.06
X10 Max		<0.005	73.30	0.760	<50.0	72.200	0.02	0.01	48.30	0.04	0.1870	<0.1	7.2300	489.00		1.22	0.01	11.50	51.800	0.80	3.09	1.750	1.7600	12.00	0.20	0.6100	5850.00	<0.01	204.00	1.40	0.01	2.9200	<0.2	45.700	0.20
X10 Min		<0.005	2.80	0.170	<50.0	28.300	<0.01	<0.005	15.30	<0.005	0.0240	<0.1	0.3200	67.00		0.51	0.00	3.79	11.600	0.28	1.39	0.440	0.0760	10.00	0.05	0.1200	3350.00	<0.01	65.90	<0.5	<0.002	0.5780	<0.2	11.700	<0.1
X10 N > DL		0	12	12	0	12	1	3	12	11	12	0	12	12	0	12	12	12	12	12	12	12	12	4	12	12	12	0	12	4	6	12	0	12	1
X10 Median		<0.005	5.70	0.315	<50.0	58.500	<0.01	<0.005	37.65	0.01	0.0705	<0.1	0.4700	204.50		0.99	0.00	8.47	26.550	0.52	2.39	0.655	0.5790	<10.0	0.07	0.3100	5105.00	<0.01	171.00	<0.5	0.00	1.8450	<0.2	26.950	<0.1
X14	**1/11/2010**	<0.005	4.60	0.330	<50.0	73.300	<0.01	<0.005	111.00	0.05	1.8100	<0.1	0.4800	357.00		2.16	0.01	24.60	2660.000	0.89	8.96	4.850	0.7100	78.00	0.08	0.4800	6820.00	<0.01	342.00	<0.5	0.01	3.5300	<0.2	43.100	<0.1
X14	**2/22/2010**	<0.005	2.30	0.440	<50.0	71.300	<0.01	<0.005	124.00	0.06	2.6800	<0.1	0.3500	404.00		2.24	0.01	27.80	3520.000	0.74	9.99	6.170	0.1290	99.00	0.07	0.4000	6220.00	<0.01	386.00	<0.5	0.01	3.7700	<0.2	22.000	<0.1
X14	**3/10/2010**	<0.005	2.60	0.460	<50.0	67.700	<0.01	<0.005	136.00	0.07	3.0400	<0.1	0.2800	466.00		2.40	0.01	28.60	3980.000	0.89	10.50	6.610	0.0940	121.00	0.06	0.4300	6150.00	<0.01	400.00	<0.5	0.01	3.9500	<0.2	24.100	<0.1
X14	**3/22/2010**	<0.005	3.00	0.490	<50.0	65.300	<0.01	<0.005	131.00	0.08	3.3700	<0.1	0.3200	601.00	<0.01	2.31	0.01	28.10	4150.000	0.83	10.60	6.990	0.1180	109.00	0.06	0.4800	5470.00	<0.01	390.00	<0.5	0.01	3.7400	<0.2	32.100	<0.1
X14	**3/30/2010**	<0.005	2.80	0.410	<50.0	58.300	<0.01	<0.005	171.00	0.10	7.1600	<0.1	0.2800	441.00	<0.01	3.14	0.01	38.80	5920.000	0.89	14.20	12.400	0.1190	168.00	0.09	0.3200	6380.00	<0.01	509.00	<0.5	0.05	4.5100	<0.2	101.000	<0.1
X14	**4/6/2010**	<0.005	2.60	0.420	<50.0	58.800	<0.01	<0.005	193.00	0.10	8.9600	0.20	0.3200	442.00		3.49	0.01	41.20	7240.000	0.95	15.10	15.200	0.1290	184.00	0.09	0.3600	6070.00	<0.01	585.00	<0.5	0.05	4.4600	<0.2	110.000	<0.1
X14	**4/13/2010**	0.0600	4.00	0.400	<300.0	63.000	<0.05	<0.03	180.00	0.10	6.3400	<0.5	<0.3	432.00	<0.05	3.10	0.01	33.80	5350.000	0.80	12.40	10.400	0.1600	1740.00	<0.1	0.3000	5510.00	<0.05	542.00	<3.0	0.05	4.2000	<1.0	92.500	<0.5
X14	**4/20/2010**	<0.005	138.00	0.860	<50.0	51.000	<0.01	<0.005	140.00	0.09	5.8200	0.20	1.2300	731.00	<0.01	2.71	0.01	26.20	4200.000	0.69	9.96	10.100	4.1000	124.00	0.12	0.2600	3650.00	<0.01	430.00	3.60	0.04	2.9600	0.30	73.800	<0.1
X14	**4/27/2010**	<0.005	61.10	0.860	<50.0	43.100	<0.01	<0.005	52.90	0.06	0.9390	<0.1	1.5400	567.00	<0.01	1.82	0.01	10.40	880.000	0.52	4.02	2.390	1.5800	35.00	0.07	0.1800	3880.00	<0.01	185.00	1.20	0.02	1.4000	<0.2	42.700	<0.1
X14	**5/4/2010**	<0.005	58.00	0.640	<50.0	37.300	<0.01	0.01	91.90	0.06	3.5400	<0.1	1.5500	388.00	<0.01	2.25	0.01	16.10	2440.000	0.49	5.93	6.660	1.1400	81.00	0.09	0.1800	3470.00	0.02	274.00	1.60	0.07	1.4600	<0.2	63.000	<0.1
X14	**5/11/2010**	<0.005	38.00	0.670	<50.0	39.100	0.02	<0.005	70.80	0.05	2.4400	<0.1	1.5300	469.00	<0.01	1.70	0.01	14.50	1710.000	0.52	4.79	4.640	1.3300	62.00	0.08	0.1900	3770.00	<0.01	241.00	0.60	0.07	1.4200	<0.2	45.400	<0.1
X14	**5/18/2010**	<0.005	76.30	0.640	<50.0	37.000	0.02	<0.005	52.50	0.05	2.0500	<0.1	1.6300	406.00		1.34	0.01	11.50	1320.000	0.41	3.73	4.160	1.9100	39.00	0.09	0.1700	3050.00	<0.01	188.00	2.10	0.05	1.0900	<0.2	38.500	<0.1
X14	**5/25/2010**	<0.005	105.00	0.560	<50.0	28.700	0.02	<0.005	30.70	0.03	0.9000	0.20	1.3100	375.00		0.96	0.00	6.97	583.000	0.30	2.44	2.430	2.0000	22.00	0.06	0.1300	3240.00	<0.01	107.00	3.10	0.02	0.7220	<0.2	22.600	<0.1
X14	**6/1/2010**	<0.005	34.30	0.380	<50.0	27.300	<0.01	0.01	41.10	0.04	1.5700	<0.1	1.1400	233.00		1.03	0.00	9.29	1030.000	0.30	3.81	3.050	1.0600	34.00	0.07	0.1300	3720.00	<0.01	133.00	<0.5	0.03	0.7650	<0.2	42.600	<0.1
X14	**6/8/2010**	<0.005	20.70	0.380	<50.0	31.800	<0.01	<0.005	50.70	0.05	2.1500	<0.1	0.7400	215.00		1.12	0.00	12.30	1390.000	0.39	4.00	3.720	0.5120	44.00	0.08	0.1900	3940.00	<0.01	166.00	<0.5	0.04	0.9960	<0.2	39.900	<0.1
X14	**6/15/2010**	<0.005	16.20	0.400	<50.0	33.600	<0.01	<0.005	59.70	0.04	2.7600	<0.1	0.7100	245.00	<0.01	1.39	0.01	14.60	1740.000	0.40	4.56	4.410	0.5320	55.00	0.08	0.1800	4000.00	<0.01	207.00	<0.5	0.05	1.1200	<0.2	48.400	<0.1
X14	**6/22/2010**	<0.005	20.30	0.460	<50.0	35.400	<0.01	0.01	59.30	0.05	2.6100	<0.1	1.0700	290.00	<0.01	1.41	0.01	15.10	1590.000	0.42	4.83	4.480	0.4690	55.00	0.09	0.2200	3460.00	<0.01	204.00	<0.5	0.06	1.0400	<0.2	45.500	<0.1
X14	**6/29/2010**	<0.005	17.40	0.410	<50.0	38.800	<0.01	0.01	71.20	0.04	3.2200	0.30	0.6500	274.00	<0.01	1.46	0.01	17.10	1860.000	0.49	5.10	5.060	0.3690	67.00	0.10	0.2000	4330.00	<0.01	236.00	<0.5	0.08	1.2400	<0.2	49.300	<0.1
X14	**6/29/2010**	<0.005	12.70	0.430	<50.0	38.100	<0.01	<0.005	73.10	0.05	3.2700	<0.1	0.6300	276.00	<0.01	1.53	0.01	17.50	1890.000	0.41	5.26	5.110	0.3620	69.00	0.10	0.2000	4470.00	<0.01	242.00	<0.5	0.08	1.2300	<0.2	50.400	<0.1
X14	**7/6/2010**	<0.005	27.40	0.430	<50.0	32.200	<0.01	<0.005	53.80	0.03	2.0600	<0.1	0.7500	277.00		1.13	0.01	12.10	1290.000	0.39	4.00	3.230	0.5440	46.00	0.08	0.1400	4700.00	<0.01	171.00	0.70	0.05	0.8210	<0.2	33.400	<0.1
X14	**7/13/2010**	<0.005	15.80	0.400	<50.0	37.400	<0.01	<0.005	72.00	0.03	2.9200	<0.1	0.6700	308.00		1.59	0.01	16.90	1760.000	0.43	5.54	4.470	0.6440	65.00	0.10	0.1600	4330.00	<0.01	248.00	0.60	0.08	1.1200	<0.2	42.900	<0.1
X14	**7/20/2010**	<0.005	9.50	0.440	<50.0	38.300	<0.01	<0.005	79.90	0.04	3.9900	<0.1	0.5100	327.00		1.85	0.01	19.20	2350.000	0.48	6.29	5.830	0.4990	82.00	0.10	0.1500	4150.00	<0.01	273.00	<0.5	0.09	1.2500	<0.2	58.300	<0.1
X14	**7/27/2010**	<0.005	11.10	0.450	<50.0	43.300	<0.01	<0.005	94.10	0.05	4.0700	<0.1	0.5800	382.00	<0.01	2.04	0.01	21.00	2330.000	0.53	6.59	6.290	0.8890	89.00	0.12	0.1900	4430.00	<0.01	316.00	<0.5	0.12	1.3500	<0.2	72.600	<0.1
X14	**8/3/2010**	<0.005	7.60	0.500	<50.0	52.000	<0.01	<0.005	44.70	0.02	0.3940	<0.1	0.5700	364.00	<0.01	1.02	0.00	9.88	624.000	0.55	3.37	1.370	0.5830	23.00	0.07	0.2100	4340.00	<0.01	170.00	<0.5	0.01	1.5500	<0.2	19.000	<0.1
X14	**8/10/2010**	<0.005	9.40	0.470	<50.0	43.400	<0.01	<0.005	96.70	0.06	3.4500	<0.1	0.6300	428.00	<0.01	2.15	0.01	21.30	2120.000	0.54	6.97	5.520	1.2300	91.00	0.11	0.2000	4050.00	<0.01	329.00	<0.5	0.13	1.5200	<0.2	61.400	<0.1
X14	**8/17/2010**	<0.005	5.60	0.460	<50.0	44.200	<0.01	<0.005	89.70	0.05	2.6900	<0.1	0.5000	392.00		2.06	0.01	20.20	1800.000	0.58	6.55	4.440	0.6380	86.00	0.11	0.1900	3580.00	<0.01	315.00	<0.5	0.12	1.3800	<0.2	52.000	<0.1
X14	**8/24/2010**	<0.005	21.10	0.520	<50.0	43.200	<0.01	<0.005	73.10	0.04	2.1100	<0.1	0.5800	400.00		1.63	0.01	16.20	1380.000	0.48	5.53	3.440	0.5400	61.00	0.09	0.1800	4180.00	<0.01	253.00	<0.5	0.08	1.2500	<0.2	42.400	<0.1
X14	**8/31/2010**	<0.005	6.90	0.480	<50.0	44.000	<0.01	<0.005	86.00	0.06	2.7600	<0.1	0.4600	441.00		2.06	0.01	19.70	1840.000	0.53	6.08	4.230	0.5730	87.00	0.11	0.2000	3870.00	<0.01	314.00	<0.5	0.12	1.1900	<0.2	49.600	<0.1
X14	**9/7/2010**	<0.005	7.60	0.460	<50.0	46.600	<0.01	<0.005	65.20	0.03	2.1800	0.20	0.4600	369.00		1.52	0.01	15.40	1470.000	0.52	5.10	3.580	0.3760	57.00	0.79	0.2000	3430.00	<0.01	259.00	<0.5	0.08	1.4600	<0.2	41.100	<0.1
X14	**10/21/2010**	<0.005	4.80	0.440	<50.0	56.100	<0.01	<0.005	67.30	0.04	0.9100	<0.1	0.3900	418.00		1.30	0.01	14.50	1390.000	0.64	4.67	2.450	0.2820	41.00	0.06	0.3200	5130.00	<0.01	240.00	<0.5	0.00	2.3900	<0.2	23.900	<0.1
X14	**11/9/2010**	<0.005	6.50	0.270	<50.0	62.900	<0.01	<0.005	68.80	0.04	1.0500	<0.1	0.4200	305.00		1.35	0.01	14.60	1490.000	0.59	4.69	2.780	0.3010	42.00	0.17	0.5300	5330.00	<0.01	254.00	<0.5	0.01	2.4200	<0.2	36.000	<0.1
X14	**11/18/2010**	<0.005	49.40	0.640	<50.0	57.300	<0.01	<0.005	174.00	0.12	13.4000	<0.1	0.6900	1020.00		3.18	0.01	39.80	8780.000	0.60	12.70	19.500	0.9780	173.00	0.09	0.2300	6210.00	<0.01	516.00	1.60	0.07	3.1500	<0.2	135.000	<0.1
X14	**11/25/2010**	<0.03	6.00	0.200	<300.0	57.700	<0.05	<0.03	143.00	0.07	13.6000	<0.5	0.4000	373.00		2.60	0.01	33.10	8450.000	0.50	10.30	18.800	0.2600	146.00	<0.1	0.4000	5520.00	<0.05	464.00	<3.0	0.04	2.7900	<1.0	130.000	<0.5
X14	**12/2/2010**	<0.03	5.00	0.200	<300.0	57.100	<0.05	<0.03	154.00	0.07	13.8000	<0.5	<0.3	384.00		2.50	0.01	33.00	8290.000	0.50	10.40	18.100	0.2400	135.00	<0.1	0.3000	6170.00	0.06	468.00	<3.0	0.04	2.8500	<1.0	108.000	<0.5
X14 Average		0.0049	23.93	0.471	36.03	47.488	0.01	0.00	94.18	0.06	3.9416	0.09	0.6962	405.88	0.01	1.93	0.01	20.63	2906.382	0.56	7.03	6.555	0.7471	129.71	0.11	0.2529	4618.24	0.01	304.62	0.74	0.05	2.0616	0.14	55.662	0.07
X14 Max		0.0600	138.00	0.860	<300.0	73.300	<0.05	<0.03	193.00	0.12	13.8000	<0.5	1.6300	1020.00	<0.05	3.49	0.01	41.20	8780.000	0.95	15.10	19.500	4.1000	1740.00	0.79	0.5300	6820.00	0.06	585.00	3.60	0.13	4.5100	<1.0	135.000	<0.5
X14 Min		<0.005	2.30	0.200	<50.0	27.300	<0.01	<0.005	30.70	0.02	0.3940	<0.1	0.2800	215.00	<0.01	0.96	0.00	6.97	583.000	0.30	2.44	1.370	0.0940	22.00	0.06	0.1300	3050.00	<0.01	107.00	<0.5	0.00	0.7220	<0.2	19.000	<0.1
X14 N > DL		1	34	34	0	34	3	4	34	34	34	5	32	34	0	34	34	34	34	34	34	34	34	34	31	34	34	2	34	9	34	34	1	34	0
X14 Median		<0.005	10.30	0.445	<50.0	43.700	<0.01	<0.005	76.50	0.05	2.7600	<0.1	0.5800	386.00	<0.01	1.84	0.01	17.30	1850.000	0.52	5.74	4.745	0.5360	73.50	0.09	0.2000	4330.00	<0.01	266.00	<0.5	0.05	1.4400	<0.2	45.450	<0.1
X2	**1/11/2010**	<0.005	4.40	0.350	<50.0	68.400	<0.01	<0.005	45.30	0.02	0.1670	<0.1	0.3700	124.00		1.05	0.01	10.30	72.100	0.77	3.35	0.690	0.3180	11.00	0.07	0.4100	6270.00	<0.01	182.00	<0.5	<0.002	2.5500	<0.2	23.700	<0.1
X2	**2/22/2010**	<0.005	3.50	0.360	<50.0	74.500	<0.01	<0.005	49.30	0.02	0.1900	<0.1	0.3000	110.00		1.17	0.01	11.40	76.900	0.83	3.67	0.680	0.1450	11.00	0.07	0.4400	6570.00	<0.01	202.00	<0.5	<0.002	2.9000	<0.2	24.700	<0.1
X2	**3/10/2010**	<0.005	5.10	0.430	<50.0	70.500	<0.01	<0.005	46.70	0.02	0.2060	<0.1	0.2600	138.00		1.10	0.01	10.50	82.700	0.89	3.48	0.740	0.2210	12.00	0.06	0.4500	6250.00	<0.01	193.00	<0.5	<0.002	2.9200	<0.2	25.500	<0.1
X2	**4/14/2010**	<0.005	14.00	0.420	<50.0	73.300	<0.01	<0.005	45.40	0.03	0.2560	<0.1	0.4500	156.00		1.14	0.01	9.87	85.000	0.90	3.37	1.330	1.6900	<10.0	0.07	0.3900	5330.00	<0.01	202.00	<0.5	<0.002	2.9600	<0.2	31.100	<0.1
X2	**5/3/2010**	<0.005	98.90	0.820	<50.0	36.400	0.03	0.01	16.60	0.05	0.2000	<0.1	2.2600	393.00		1.26	0.00	3.54	45.900	0.36	1.41	1.350	2.4500	<10.0	0.10	0.1900	3390.00	<0.01	75.30	1.70	0.01	0.6530	<0.2	16.200	0.20

NB: Metals reported in mg/L are shaded in grey.

Table C-3: Rose Creek Drainage Water Quality
2010 - Surface Water - Total Metals

		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Station	**Date**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X2	**6/4/2010**	<0.005	103.00	0.600	<50.0	28.800	0.02	0.01	13.70	0.02	0.1610	0.20	0.9500	253.00		0.53	0.00	3.30	32.400	0.26	1.49	0.610	2.6300	<10.0	0.08	0.1300	4370.00	<0.01	56.70	2.30	0.00	0.4980	<0.2	8.200	<0.1
X2	**7/8/2010**	<0.005	42.50	0.570	<50.0	38.500	<0.01	0.02	18.80	0.02	0.0970	<0.1	0.8500	175.00		0.50	0.00	4.47	25.300	0.36	1.72	0.550	1.3100	<10.0	0.09	0.1700	4720.00	<0.01	84.10	1.80	0.01	0.7120	<0.2	7.800	<0.1
X2	**8/3/2010**	<0.005	13.50	0.680	<50.0	53.600	<0.01	0.01	28.10	0.02	0.0920	<0.1	0.5500	192.00		0.71	0.00	6.47	39.100	0.60	2.23	0.780	0.8560	<10.0	0.07	0.2500	4530.00	<0.01	121.00	0.60	0.00	1.1900	<0.2	9.700	<0.1
X2	**9/2/2010**	<0.005	13.40	0.590	<50.0	48.800	<0.01	<0.005	27.00	0.01	0.1180	<0.1	0.4700	194.00		0.65	0.00	6.03	40.100	0.49	2.15	0.480	0.3880	<10.0	0.06	0.2100	4510.00	<0.01	120.00	<0.5	<0.002	1.1200	<0.2	14.400	<0.1
X2	**10/18/2010**	<0.005	8.80	0.550	<50.0	53.100	<0.01	<0.005	33.20	0.02	0.1810	<0.1	0.4200	215.00		0.80	0.01	7.69	74.600	0.53	2.59	0.640	0.5240	<10.0	0.06	0.3900	5630.00	<0.01	141.00	<0.5	0.00	1.4600	<0.2	14.200	<0.1
X2	**11/9/2010**	<0.005	8.50	0.360	<50.0	64.100	<0.01	<0.005	36.80	0.02	0.2190	<0.1	0.4500	149.00		0.87	0.01	8.38	86.400	1.03	2.72	0.800	0.8330	<10.0	1.56	2.6500	5520.00	<0.01	161.00	<0.5	0.00	1.9100	<0.2	21.800	<0.1
X2	**12/1/2010**	<0.005	13.30	0.420	<50.0	65.000	<0.01	<0.005	40.50	0.04	0.1970	<0.1	0.4400	212.00		0.94	0.01	9.05	74.400	0.59	2.91	0.790	0.6050	<10.0	0.06	0.3500	5970.00	<0.01	169.00	<0.5	0.01	1.9200	<0.2	19.400	<0.1
X2 Average		0.0025	27.41	0.513	25.00	56.250	0.01	0.01	33.45	0.02	0.1737	0.06	0.6475	192.58		0.89	0.01	7.58	61.242	0.63	2.59	0.787	0.9975	6.58	0.20	0.5025	5255.00	0.01	142.26	0.70	0.00	1.7328	0.10	18.058	0.06
X2 Max		<0.005	103.00	0.820	<50.0	74.500	0.03	0.02	49.30	0.05	0.2560	0.20	2.2600	393.00		1.26	0.01	11.40	86.400	1.03	3.67	1.350	2.6300	12.00	1.56	2.6500	6570.00	<0.01	202.00	2.30	0.01	2.9600	<0.2	31.100	0.20
X2 Min		<0.005	3.50	0.350	<50.0	28.800	<0.01	<0.005	13.70	0.01	0.0920	<0.1	0.2600	110.00		0.50	0.00	3.30	25.300	0.26	1.41	0.480	0.1450	<10.0	0.06	0.1300	3390.00	<0.01	56.70	<0.5	<0.002	0.4980	<0.2	7.800	<0.1
X2 N > DL		0	12	12	0	12	2	4	12	12	12	1	12	12	0	12	12	12	12	12	12	12	12	3	12	12	12	0	12	4	7	12	0	12	1
X2 Median		<0.005	13.35	0.490	<50.0	58.850	<0.01	<0.005	35.00	0.02	0.1855	<0.1	0.4500	183.50		0.91	0.01	8.04	73.250	0.60	2.66	0.715	0.7190	<10.0	0.07	0.3700	5425.00	<0.01	151.00	<0.5	0.00	1.6850	<0.2	17.800	<0.1
X22b	**1/11/2010**	<0.03	13.00	0.200	<300.0	18.500	0.07	<0.03	169.00	18.30	59.6000	<0.5	8.5000	38.00		9.37	0.07	86.80	3570.000	0.70	23.10	152.000	1.0500	229.00	0.40	<0.2	4100.00	<0.05	681.00	<3.0	0.56	1.3700	<1.0	24400.000	<0.5
X22b	**2/22/2010**	<0.03	13.00	0.200	<300.0	22.000	0.24	<0.03	143.00	28.20	47.1000	<0.5	20.7000	18.00		7.05	0.06	76.90	2700.000	0.60	16.40	138.000	2.1200	248.00	0.20	<0.2	7560.00	<0.05	557.00	<3.0	0.37	1.4900	<1.0	26900.000	<0.5
X22b	**3/10/2010**	<0.03	12.00	0.200	<300.0	21.000	0.21	<0.03	138.00	25.50	44.6000	<0.5	21.9000	12.00		7.00	0.06	73.00	2640.000	0.60	16.30	130.000	0.9200	237.00	0.20	<0.2	6510.00	<0.05	528.00	<3.0	0.35	1.6500	<1.0	26300.000	<0.5
X22b	**4/13/2010**	0.0500	10.00	0.200	<300.0	24.500	0.11	<0.03	139.00	12.30	41.2000	<0.5	5.6000	7.00		7.20	0.06	69.50	2390.000	0.70	15.90	111.000	1.0500	206.00	0.30	0.3000	6020.00	<0.05	583.00	<3.0	0.37	3.1700	<1.0	18900.000	<0.5
X22b	**5/3/2010**	<0.005	7.20	0.050	<50.0	12.500	0.03	<0.005	37.40	4.27	8.9100	<0.1	4.3000	40.00		1.79	0.01	15.70	542.000	0.13	3.86	24.300	3.4800	57.00	0.06	0.0700	1410.00	<0.01	155.00	<0.5	0.10	0.2230	<0.2	3630.000	<0.1
X22b	**6/4/2010**	0.0800	37.00	0.200	<300.0	17.800	0.12	<0.03	147.00	17.70	51.3000	<0.5	15.4000	176.00		8.10	0.06	80.90	2960.000	0.50	19.70	126.000	1.3400	227.00	0.30	<0.2	4320.00	<0.05	615.00	<3.0	0.43	1.2500	<1.0	21400.000	<0.5
X22b	**7/10/2010**	0.0700	8.00	0.200	<300.0	15.700	0.09	<0.03	139.00	17.00	48.6000	<0.5	9.4000	135.00		7.40	0.06	73.00	2830.000	1.10	17.90	124.000	1.2400	227.00	0.30	<0.2	4230.00	<0.05	569.00	<3.0	0.42	1.1800	<1.0	20500.000	<0.5
X22b	**8/3/2010**	0.0140	3.90	0.140	<50.0	16.300	0.03	<0.005	133.00	15.80	51.3000	<0.1	6.4700	30.00		7.65	0.06	76.10	2800.000	0.53	18.80	127.000	0.5360	271.00	0.25	0.1600	3620.00	<0.01	610.00	<0.5	0.41	1.2200	<0.2	18200.000	<0.1
X22b	**9/1/2010**	<0.03	8.00	0.200	<300.0	16.100	0.06	<0.03	144.00	17.00	49.5000	<0.5	6.9000	74.00		7.40	0.06	73.00	2920.000	0.50	17.80	128.000	1.7600	213.00	0.30	<0.2	4060.00	0.07	609.00	<3.0	0.47	1.1900	<1.0	20700.000	<0.5
X22b	**10/20/2010**	0.0180	11.70	0.150	<50.0	16.500	0.06	<0.005	149.00	16.90	53.7000	<0.1	5.7700	153.00		8.54	0.06	78.90	3120.000	0.52	19.80	136.000	0.8270	274.00	0.27	0.1500	3630.00	<0.01	669.00	<0.5	0.45	1.1900	<0.2	19100.000	<0.1
X22b	**11/8/2010**	<0.03	10.00	<0.1	<300.0	15.600	<0.05	<0.03	156.00	15.30	50.5000	<0.5	4.8000	300.00		7.90	0.06	72.50	3220.000	0.60	18.50	134.000	0.7900	243.00	0.60	0.8000	4190.00	<0.05	612.00	<3.0	0.44	1.1300	<1.0	20700.000	<0.5
X22b	**12/1/2010**	<0.03	14.00	<0.1	<300.0	15.300	0.06	<0.03	156.00	16.30	52.8000	<0.5	5.6000	108.00		8.30	0.06	77.70	3280.000	0.50	19.90	136.000	0.2900	247.00	0.20	<0.2	4100.00	<0.05	624.00	<3.0	0.45	1.1700	<1.0	20600.000	<0.5
X22b Average		0.0270	12.32	0.153	118.75	17.650	0.09	0.01	137.53	17.05	46.5925	0.20	9.6117	90.92		7.31	0.06	71.17	2747.667	0.58	17.33	122.192	1.2836	223.25	0.28	0.1817	4479.17	0.02	567.67	1.19	0.40	1.3528	0.40	20110.833	0.20
X22b Max		0.0800	37.00	0.200	<300.0	24.500	0.24	<0.03	169.00	28.20	59.6000	<0.5	21.9000	300.00		9.37	0.07	86.80	3570.000	1.10	23.10	152.000	3.4800	274.00	0.60	0.8000	7560.00	0.07	681.00	<3.0	0.56	3.1700	<1.0	26900.000	<0.5
X22b Min		<0.005	3.90	0.050	<50.0	12.500	0.03	<0.005	37.40	4.27	8.9100	<0.1	4.3000	7.00		1.79	0.01	15.70	542.000	0.13	3.86	24.300	0.2900	57.00	0.06	0.0700	1410.00	<0.01	155.00	<0.5	0.10	0.2230	<0.2	3630.000	<0.1
X22b N > DL		5	12	10	0	12	11	0	12	12	12	0	12	12	0	12	12	12	12	12	12	12	12	12	12	5	12	1	12	0	12	12	0	12	0
X22b Median		<0.03	10.85	0.200	<300.0	16.400	0.07	<0.03	143.50	16.95	50.0000	<0.5	6.6850	57.00		7.53	0.06	74.55	2875.000	0.57	18.20	129.000	1.0500	233.00	0.29	<0.2	4145.00	<0.05	609.50	<3.0	0.43	1.2050	<1.0	20650.000	<0.5
X3	**1/11/2010**	<0.005	3.70	0.300	<50.0	67.600	<0.01	<0.005	45.00	0.02	0.1150	<0.1	0.3800	90.00		1.13	0.01	10.20	51.000	0.69	3.22	0.650	0.2640	10.00	0.06	0.4200	6110.00	<0.01	185.00	<0.5	<0.002	2.5400	<0.2	21.900	<0.1
X3	**2/22/2010**	<0.005	2.80	0.290	<50.0	69.600	<0.01	<0.005	47.60	0.01	0.1180	<0.1	0.4000	72.00		1.19	0.01	10.90	50.400	0.73	3.47	0.620	0.1100	12.00	0.06	0.4100	6350.00	<0.01	199.00	<0.5	<0.002	2.7800	<0.2	20.000	<0.1
X3	**3/9/2010**	<0.005	3.20	0.310	<50.0	69.800	<0.01	<0.005	47.50	0.01	0.1140	<0.1	0.2700	75.00		1.19	0.01	10.70	53.500	0.85	3.44	0.670	0.1210	12.00	0.05	0.3700	5470.00	<0.01	204.00	<0.5	<0.002	2.9900	<0.2	21.000	<0.1
X3	**4/14/2010**	<0.005	3.80	0.280	<50.0	69.900	<0.01	<0.005	45.00	0.02	0.1440	<0.1	0.8900	76.00		1.12	0.01	9.73	53.000	0.82	3.18	2.020	0.4540	<10.0	0.06	0.4200	5730.00	<0.01	203.00	<0.5	<0.002	2.9800	<0.2	24.900	<0.1
X3	**5/3/2010**	<0.005	78.10	0.790	<50.0	36.100	0.03	<0.005	18.40	0.03	0.1360	<0.1	1.8900	427.00		1.24	0.00	3.76	56.000	0.47	1.39	1.460	1.3700	<10.0	0.06	0.1400	3670.00	<0.01	84.80	1.90	0.00	0.8280	<0.2	11.100	0.20
X3	**6/4/2010**	<0.005	62.90	0.380	<50.0	25.100	0.02	0.01	13.00	0.02	0.0890	<0.1	0.7600	183.00		0.55	0.00	2.95	20.000	0.20	1.47	0.480	0.7470	<10.0	0.05	0.0800	3900.00	<0.01	60.70	1.50	0.00	0.5340	<0.2	11.200	<0.1
X3	**7/8/2010**	<0.005	30.30	0.470	<50.0	32.900	<0.01	0.01	16.40	0.01	0.0530	<0.1	0.7200	133.00		0.50	0.00	3.60	16.400	0.27	1.64	0.410	0.6940	<10.0	0.07	0.1200	4210.00	<0.01	82.00	0.80	0.00	0.6830	<0.2	4.200	<0.1
X3	**8/3/2010**	<0.005	9.30	0.510	<50.0	48.300	<0.01	<0.005	35.30	0.01	0.0470	<0.1	0.5300	227.00		0.70	0.00	5.56	28.000	0.46	2.09	0.450	0.6740	<10.0	0.06	0.2500	5690.00	<0.01	122.00	<0.5	0.00	1.1900	<0.2	5.600	<0.1
X3	**9/2/2010**	<0.005	8.50	0.500	<50.0	44.600	<0.01	<0.005	26.70	0.01	0.0550	<0.1	0.4600	171.00		0.68	0.00	5.52	24.000	0.57	2.11	0.450	0.4100	<10.0	0.04	0.1600	4410.00	<0.01	124.00	<0.5	<0.002	1.1100	<0.2	8.700	<0.1
X3	**10/21/2010**	<0.005	6.50	0.440	<50.0	52.400	<0.01	<0.005	33.50	0.02	0.0930	<0.1	0.5200	223.00		0.85	0.00	6.81	53.300	0.43	2.34	0.540	0.8620	<10.0	0.06	0.2300	4910.00	<0.01	158.00	<0.5	<0.002	1.7200	<0.2	9.500	<0.1
X3	**11/9/2010**	<0.005	5.00	0.290	<50.0	60.200	<0.01	<0.005	40.20	0.02	0.0660	<0.1	0.4300	127.00		0.93	0.00	7.58	43.600	0.58	2.52	0.560	0.7060	<10.0	0.53	1.4900	5860.00	<0.01	166.00	<0.5	0.00	1.8600	<0.2	14.000	<0.1
X3	**12/1/2010**	<0.005	4.70	0.300	<50.0	60.200	<0.01	<0.005	37.90	0.01	0.0990	<0.1	0.3300	138.00		0.97	0.00	7.84	46.200	0.43	2.69	0.470	0.2680	<10.0	0.05	0.2600	5450.00	<0.01	175.00	<0.5	0.00	1.9300	<0.2	15.400	<0.1
X3 Average		0.0025	18.23	0.405	25.00	53.058	0.01	0.00	33.88	0.02	0.0941	0.05	0.6317	161.83		0.92	0.00	7.10	41.283	0.54	2.46	0.732	0.5567	6.58	0.10	0.3625	5146.67	0.01	146.96	0.54	0.00	1.7621	0.10	13.958	0.06
X3 Max		<0.005	78.10	0.790	<50.0	69.900	0.03	0.01	47.60	0.03	0.1440	<0.1	1.8900	427.00		1.24	0.01	10.90	56.000	0.85	3.47	2.020	1.3700	12.00	0.53	1.4900	6350.00	<0.01	204.00	1.90	0.00	2.9900	<0.2	24.900	0.20
X3 Min		<0.005	2.80	0.280	<50.0	25.100	<0.01	<0.005	13.00	0.01	0.0470	<0.1	0.2700	72.00		0.50	0.00	2.95	16.400	0.20	1.39	0.410	0.1100	<10.0	0.04	0.0800	3670.00	<0.01	60.70	<0.5	<0.002	0.5340	<0.2	4.200	<0.1
X3 N > DL		0	12	12	0	12	2	2	12	12	12	0	12	12	0	12	12	12	12	12	12	12	12	3	12	12	12	0	12	3	6	12	0	12	1
X3 Median		<0.005	5.75	0.345	<50.0	56.300	<0.01	<0.005	36.60	0.01	0.0960	<0.1	0.4900	135.50		0.95	0.00	7.20	48.300	0.52	2.43	0.550	0.5640	<10.0	0.06	0.2550	5460.00	<0.01	162.00	<0.5	0.00	1.7900	<0.2	12.600	<0.1
X3A	**9/2/2010**	<0.005	6.70	0.440	<50.0	46.300	<0.01	<0.005	27.70	0.01	0.0500	<0.1	0.4200	171.00		0.66	0.00	5.83	28.000	0.43	2.06	0.400	0.1780	<10.0	0.05	0.1700	4330.00	<0.01	128.00	<0.5	<0.002	1.1900	<0.2	7.000	<0.1
X3A	**10/21/2010**	<0.005	5.80	0.420	<50.0	55.100	<0.01	<0.005	34.30	0.03	0.0820	<0.1	0.4000	168.00		0.86	0.00	7.63	50.300	0.50	2.29	0.460	0.3260	<10.0	0.05	0.2800	4600.00	<0.01	163.00	<0.5	<0.002	1.7800	<0.2	8.000	<0.1
X3A	**11/9/2010**	<0.005	15.60	0.440	<50.0	64.200	<0.01	<0.005	38.10	0.03	0.1430	<0.1	0.5400	910.00		0.94	0.00	7.55	80.500	0.52	2.44	0.670	0.8930	<10.0	0.30	0.8500	5280.00	<0.01	172.00	<0.5	<0.002	1.8900	<0.2	44.100	<0.1
X3A	**12/1/2010**	<0.005	6.30	0.320	<50.0	61.100	<0.01	<0.005	40.10	0.02	0.1140	<0.1	0.4600	288.00		1.03	0.00	7.97	63.900	0.45	2.68	0.510	0.7880	<10.0	0.05	0.2900	5620.00	<0.01	173.00	<0.5	0.00	1.9100	<0.2	22.500	<0.1
X3A Average		0.0025	8.60	0.405	25.00	56.675	0.01	0.00	35.05	0.02	0.0973	0.05	0.4550	384.25		0.87	0.00	7.25	55.675	0.48	2.37	0.510	0.5463	5.00	0.11	0.3975	4957.50	0.01	159.00	0.25	0.00	1.6925	0.10	20.400	0.05
X3A Max		<0.005	15.60	0.440	<50.0	64.200	<0.01	<0.005	40.10	0.03	0.1430	<0.1	0.5400	910.00		1.03	0.00	7.97	80.500	0.52	2.68	0.670	0.8930	<10.0	0.30	0.8500	5620.00	<0.01	173.00	<0.5	0.00	1.9100	<0.2	44.100	<0.1
X3A Min		<0.005	5.80	0.320	<50.0	46.300	<0.01	<0.005	27.70	0.01	0.0500	<0.1	0.4000	168.00		0.66	0.00	5.83	28.000	0.43	2.06	0.400	0.1780	<10.0	0.05	0.1700	4330.00	<0.01	128.00	<0.5	<0.002	1.1900	<0.2	7.000	<0.1
X3A N > DL		0	4	4	0	4	0	0	4	4	4	0	4	4	0	4	4	4	4	4	4	4	4	0	4	4	4	0	4	0	1	4	0	4	0
X3A Median		<0.005	6.50	0.430	<50.0	58.100	<0.01	<0.005	36.20	0.02	0.0980	<0.1	0.4400	229.50		0.90	0.00	7.59	57.100	0.48	2.37	0.485	0.5570	<10.0	0.05	0.2850	4940.00	<0.01	167.50	<0.5	<0.002	1.8350	<0.2	15.250	<0.1

X4	**1/11/2010**	<0.1	768.00	0.900	<1000.0	12.200	<0.2	<0.1	264.00	20.30	167.0000	<2.0	130.0000	79800.00		4.80	0.03	108.00	25500.000	<1.0	16.80	157.000	841.0000	403.00	<0.4	<0.8	6930.00	<0.2	996.00	<10.0	1.39	2.3100	<4.0	60900.000	<2.0
X4	**2/22/2010**	<0.03	479.00	0.600	<300.0	15.400	0.12	<0.03	266.00	13.60	150.0000	<0.5	91.7000	94100.00		5.12	0.03	85.20	23500.000	<0.3	15.40	133.000	447.0000	414.00	<0.1	<0.2	6420.00	<0.05	930.00	<3.0	1.09	2.1300	<1.0	42700.000	<0.5
X4	**3/9/2010**	<0.03	29.00	0.300	<300.0	19.800	<0.05	<0.03	192.00	3.00	70.8000	<0.5	5.9000	107000.00		3.60	0.02	35.40	15300.000	<0.3	9.10	59.900	25.4000	303.00	<0.1	<0.2	5540.00	<0.05	583.00	<3.0	0.27	1.6000	<1.0	15300.000	<0.5
X4	**4/13/2010**	<0.03	6.00	0.200	<300.0	20.500	<0.05	<0.03	199.00	0.86	61.9000	<0.5	0.5000	94800.00		3.40	0.01	28.30	15600.000	<0.3	8.60	50.200	1.8800	235.00	<0.1	<0.2	5500.00	0.10	557.00	<3.0	0.11	1.8400	<1.0	7770.000	<0.5
X4	**5/3/2010**	0.1500	347.00	1.000	<300.0	18.000	0.09	0.04	106.00	12.00	68.6000	<0.5	69.6000	40500.00		1.60	0.01	37.20	8750.000	<0.3	5.20	59.900	297.0000	200.00	0.30	0.3000	2270.00	<0.05	394.00	<3.0	0.76	0.7600	<1.0	22600.000	<0.5
X4	**6/4/2010**	0.1600	847.00	2.400	<500.0	16.300	<0.1	<0.05	215.00	18.40	135.0000	<1.0	125.0000	61800.00		3.90	0.02	91.60	19900.000	<0.5	13.10	119.000	954.0000	388.00	<0.2	<0.4	5750.00	<0.1	761.00	6.00	1.44	1.9600	<2.0	46300.000	<1.0

NB: Metals reported in mg/L are shaded in grey.

Table C-3: Rose Creek Drainage Water Quality
2010 - Surface Water - Total Metals

Station	Date	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X4	7/10/2010	0.1000	722.00	8.500	<500.0	13.900	0.30	<0.05	204.00	19.60	130.0000	<1.0	165.0000	50800.00		3.80	0.03	80.20	21400.000	0.80	12.00	114.000	2400.0000	381.00	1.30	<0.4	5550.00	<0.1	785.00	<5.0	3.26	2.2500	<2.0	43500.000	<1.0
X4	8/3/2010	<0.05	790.00	4.000	<500.0	17.600	<0.1	<0.05	226.00	21.00	142.0000	2.00	191.0000	50700.00		4.00	0.02	82.10	22900.000	<0.5	12.40	128.000	2740.0000	392.00	0.60	<0.4	5390.00	<0.1	797.00	<5.0	3.02	2.5300	<2.0	44400.000	<1.0
X4	9/2/2010	<0.05	806.00	4.900	<500.0	11.600	0.20	<0.05	220.00	20.50	139.0000	<1.0	178.0000	46800.00		3.90	0.02	77.50	23400.000	<0.5	12.10	125.000	2570.0000	378.00	0.80	<0.4	5720.00	<0.1	815.00	11.00	3.69	2.6800	<2.0	41700.000	<1.0
X4	10/20/2010	<0.03	73.00	0.800	<300.0	8.200	<0.05	<0.03	191.00	6.73	88.9000	<0.5	18.2000	56300.00		4.10	0.02	52.80	18400.000	<0.3	10.40	79.200	114.0000	313.00	0.60	<0.2	5550.00	<0.05	765.00	<3.0	1.04	0.5900	<1.0	20500.000	<0.5
X4	11/8/2010	<0.03	629.00	4.100	<300.0	6.700	0.20	<0.03	229.00	16.70	134.0000	0.90	140.0000	52000.00		4.10	0.02	69.80	23300.000	<0.3	12.30	121.000	1580.0000	379.00	0.90	0.6000	6460.00	<0.05	783.00	<3.0	2.59	2.1400	<1.0	37200.000	<0.5
X4	12/1/2010	<0.03	13.00	0.400	<300.0	6.800	<0.05	<0.03	199.00	2.41	69.3000	<0.5	3.3000	89900.00		3.60	0.01	35.00	17800.000	<0.3	10.20	58.300	24.0000	264.00	0.50	<0.2	6510.00	<0.05	600.00	<3.0	0.45	1.0500	<1.0	10500.000	<0.5
X4 Average		0.0500	459.08	2.342	212.50	13.917	0.10	0.02	209.25	12.93	113.0417	0.58	93.1833	68708.33		3.83	0.02	65.26	19645.833	0.26	11.47	100.375	999.5233	337.50	0.45	0.2167	5632.50	0.05	730.50	3.13	1.59	1.8200	0.79	32780.833	0.40
X4 Max		0.1600	847.00	8.500	<1,000.0	20.500	0.30	<0.1	266.00	21.00	167.0000	<2.0	191.0000	107000.00		5.12	0.03	108.00	25500.000	<1.0	16.80	157.000	2740.0000	414.00	1.30	<0.8	6930.00	<0.2	996.00	11.00	3.69	2.6800	<4.0	60900.000	<2.0
X4 Min		<0.03	6.00	0.200	<300.0	6.700	<0.05	<0.03	106.00	0.86	61.9000	<0.5	0.5000	40500.00		1.60	0.01	28.30	8750.000	<0.3	5.20	50.200	1.8800	200.00	<0.1	<0.2	2270.00	<0.05	394.00	<3.0	0.11	0.5900	<1.0	7770.000	<0.5
X4 N > DL		3	12	12	0	12	5	1	12	12	12	2	12	12	0	12	12	12	12	1	12	12	12	12	7	2	12	1	12	2	12	12	0	12	0
X4 Median		0.0100	554.00	0.950	<300.0	14.650	0.07	0.03	209.50	15.15	132.0000	0.58	108.3500	59050.00		3.90	0.02	73.65	20650.000	<0.3	12.05	116.500	644.0000	378.50	0.35	0.2500	5635.00	0.06	774.00	<3.0	1.24	2.0450	<1.0	39450.000	<0.5
X5	3/22/2010	<0.005	1.50	0.200	<50.0	41.800	<0.01	<0.005	339.00	0.15	14.9000	<0.1	0.4300	341.00	<0.01	7.66	0.03	75.30	10500.000	1.25	27.10	21.800	0.4580	389.00	0.21	0.2300	6360.00	<0.01	1030.00	<0.5	0.24	7.2000	<0.2	373.000	<0.1
X5	3/30/2010	<0.03	2.00	0.200	<300.0	38.300	<0.05	<0.03	297.00	0.13	21.1000	<0.5	0.5000	206.00	<0.05	5.60	0.02	70.00	12100.000	1.00	25.50	32.900	0.1800	326.00	0.20	<0.2	6490.00	<0.05	864.00	<3.0	0.19	6.1200	<1.0	372.000	<0.5
X5	4/6/2010	<0.03	3.00	0.300	<300.0	37.900	<0.05	<0.03	327.00	0.10	26.0000	<0.5	0.5000	147.00	<0.05	5.80	0.02	73.40	15400.000	1.00	25.90	39.300	0.1400	351.00	0.20	<0.2	5950.00	<0.05	921.00	<3.0	0.19	5.4300	<1.0	411.000	<0.5
X5	4/13/2010	0.0600	2.00	0.200	<300.0	31.100	<0.05	<0.03	322.00	0.16	15.8000	<0.5	0.4000	392.00	<0.05	5.20	0.02	53.20	9590.000	0.80	19.40	23.200	0.2900	295.00	0.20	<0.2	4930.00	<0.05	904.00	<3.0	0.18	4.7900	<1.0	266.000	<0.5
X5	4/20/2010	<0.005	6.50	0.160	<50.0	21.900	<0.01	<0.005	325.00	0.11	23.0000	<0.1	0.3100	184.00	<0.01	5.26	0.02	53.50	12500.000	0.62	21.60	33.600	0.9640	364.00	<0.1	0.1800	3970.00	<0.01	973.00	<0.5	0.17	3.6000	<0.2	252.000	<0.1
X5	4/27/2010	<0.03	18.00	0.200	<300.0	26.800	<0.05	<0.03	269.00	0.18	7.3200	<0.5	0.8000	173.00	<0.05	4.70	0.02	41.80	4500.000	0.70	16.70	11.900	1.1600	271.00	0.20	<0.2	3410.00	<0.05	786.00	<3.0	0.22	2.8800	<1.0	218.000	<0.5
X5	5/4/2010	0.0500	8.00	<0.1	<300.0	19.900	<0.05	<0.03	300.00	0.16	17.5000	<0.5	0.5000	82.00	<0.05	5.10	0.03	49.70	10000.000	0.50	18.70	26.900	0.8200	329.00	0.20	<0.2	3320.00	<0.05	843.00	<3.0	0.35	2.2600	<1.0	328.000	<0.5
X5	5/11/2010	<0.005	5.70	0.160	<50.0	19.100	<0.01	<0.005	277.00	0.11	12.1000	<0.1	0.6300	126.00	<0.01	5.21	0.03	52.20	7070.000	0.56	17.00	17.600	0.5200	312.00	0.13	0.1600	2840.00	<0.01	843.00	<0.5	0.41	2.0200	<0.2	192.000	<0.1
X5	5/18/2010	<0.005	3.60	0.160	<50.0	17.400	<0.01	<0.005	242.00	0.12	10.9000	<0.1	0.5800	129.00	<0.01	4.68	0.02	48.40	6270.000	0.47	15.40	15.600	0.6020	271.00	0.13	0.1400	2140.00	0.02	750.00	<0.5	0.41	1.7800	<0.2	170.000	<0.1
X5	5/25/2010	<0.005	5.20	0.210	<50.0	18.700	<0.01	<0.005	251.00	0.12	11.5000	<0.1	0.5300	151.00	<0.01	5.14	0.03	56.60	6410.000	0.51	17.90	16.600	1.1200	299.00	0.12	0.1400	2640.00	<0.01	763.00	<0.5	0.38	2.0400	<0.2	191.000	<0.1
X5	6/1/2010	0.0600	4.00	0.200	<300.0	19.800	<0.05	<0.03	298.00	0.18	19.9000	<0.5	0.5000	180.00	<0.05	5.60	0.03	67.10	11300.000	0.50	19.60	29.700	0.8000	318.00	<0.1	<0.2	3740.00	<0.05	813.00	<3.0	0.37	2.3300	<1.0	327.000	<0.5
X5	6/8/2010	0.0600	4.00	0.200	<300.0	18.200	<0.05	<0.03	288.00	0.19	21.4000	<0.5	0.5000	210.00	<0.05	5.60	0.03	69.70	11800.000	0.50	21.00	30.800	0.9200	321.00	0.20	<0.2	3610.00	<0.05	866.00	<3.0	0.40	2.3300	<1.0	326.000	<0.5
X5	6/15/2010	<0.03	9.00	0.300	<300.0	20.000	<0.05	<0.03	310.00	0.22	24.4000	<0.5	1.2000	313.00	<0.05	7.10	0.03	81.00	13300.000	0.60	23.80	34.600	13.1000	315.00	0.20	<0.2	3460.00	0.06	943.00	<3.0	0.47	2.1900	<1.0	362.000	<0.5
X5	6/22/2010	<0.005	3.60	0.270	<50.0	19.000	<0.01	0.01	322.00	0.17	19.7000	<0.1	0.5400	299.00	<0.01	7.06	0.04	76.50	10500.000	0.61	22.90	26.600	0.9480	403.00	0.18	0.1300	3510.00	<0.01	981.00	<0.5	0.48	1.9500	<0.2	228.000	<0.1
X5	6/29/2010	<0.03	3.00	0.300	<300.0	17.100	<0.05	<0.03	287.00	0.18	21.3000	<0.5	0.4000	371.00	<0.05	5.70	0.04	71.60	10700.000	<0.3	19.50	28.700	1.6400	371.00	0.20	<0.2	3430.00	0.06	844.00	<3.0	0.50	1.9900	<1.0	263.000	<0.5
X5	7/6/2010	<0.03	28.00	0.300	<300.0	18.500	<0.05	<0.03	332.00	0.16	21.4000	<0.5	1.2000	423.00	<0.05	6.70	0.04	82.10	11300.000	0.40	23.50	29.100	2.3700	396.00	0.20	<0.2	3660.00	<0.05	950.00	<3.0	0.55	1.8000	<1.0	278.000	<0.5
X5	7/13/2010	<0.03	10.00	0.300	<300.0	15.200	<0.05	<0.03	310.00	0.13	19.1000	<0.5	0.8000	285.00	<0.05	6.40	0.04	75.30	9790.000	0.60	22.30	27.500	1.5500	378.00	0.20	<0.2	3260.00	<0.05	955.00	<3.0	0.55	1.6300	<1.0	221.000	<0.5
X5	7/20/2010	<0.03	5.00	0.500	<300.0	15.200	<0.05	<0.03	303.00	0.16	21.9000	<0.5	0.4000	379.00	<0.05	6.20	0.04	71.50	11300.000	0.60	21.80	29.200	1.8900	383.00	0.30	<0.2	3490.00	<0.05	905.00	<3.0	0.53	1.8300	<1.0	267.000	<0.5
X5	7/27/2010	<0.03	10.00	0.900	<300.0	15.800	<0.05	<0.03	307.00	0.15	20.1000	<0.5	0.9000	412.00	<0.05	6.50	0.04	71.40	9930.000	13.30	20.70	26.600	3.4600	378.00	0.40	0.3000	3090.00	<0.05	950.00	5.00	0.64	1.5100	3.00	299.000	<0.5
X5	8/10/2010	<0.005	6.60	0.380	<50.0	15.500	<0.01	<0.005	324.00	0.17	17.9000	<0.1	0.8300	456.00	<0.01	7.19	0.04	69.70	9190.000	0.64	22.20	22.900	3.1000	404.00	0.30	0.1500	2670.00	<0.01	1100.00	<0.5	0.64	1.5600	0.40	236.000	<0.1
X5	8/17/2010	<0.03	5.00	0.200	<300.0	12.800	<0.05	<0.03	241.00	0.14	11.4000	<0.5	0.6000	309.00	<0.05	5.60	0.04	55.30	5840.000	0.40	17.20	16.900	2.4000	308.00	0.30	<0.2	2050.00	<0.05	803.00	<3.0	0.58	0.9800	<1.0	186.000	<0.5
X5	8/24/2010	<0.03	7.00	0.400	<300.0	14.700	<0.05	<0.03	295.00	0.19	14.7000	<0.5	0.9000	513.00	<0.05	6.50	0.04	66.60	7650.000	0.70	20.20	19.400	2.7200	361.00	0.30	<0.2	2380.00	<0.05	942.00	<3.0	0.69	1.3200	<1.0	212.000	<0.5
X5	8/31/2010	<0.03	6.00	0.300	<300.0	14.800	<0.05	<0.03	298.00	0.17	14.3000	<0.5	0.5000	516.00	<0.05	7.00	0.04	67.90	7780.000	0.50	20.00	18.200	1.9900	376.00	0.30	<0.2	2500.00	<0.05	933.00	<3.0	0.69	1.1300	<1.0	206.000	<0.5
X5	9/7/2010	<0.005	4.80	0.400	<50.0	14.800	<0.01	<0.005	306.00	0.16	17.1000	0.20	0.6500	626.00	<0.01	6.86	0.04	68.70	9070.000	0.57	21.90	22.300	1.7800	393.00	0.85	0.1600	2420.00	<0.01	1050.00	<0.5	0.63	1.8300	0.30	197.000	<0.1
X5	11/18/2010	<0.03	5.00	0.400	<300.0	23.500	<0.05	<0.03	474.00	0.21	51.3000	<0.5	0.6000	669.00	<0.05	6.90	0.03	95.80	29100.000	0.50	30.30	72.000	0.9500	482.00	0.20	<0.2	7580.00	<0.05	1180.00	<3.0	0.29	4.6800	<1.0	401.000	<0.5
X5	11/25/2010	<0.03	4.00	0.200	<300.0	22.400	<0.05	<0.03	418.00	0.18	60.3000	<0.5	1.0000	497.00	<0.05	6.50	0.03	93.70	33400.000	0.40	28.90	83.900	0.9000	503.00	<0.1	<0.2	7080.00	<0.05	1220.00	<3.0	0.22	4.6200	<1.0	390.000	<0.5
X5	12/2/2010	<0.03	4.00	0.300	<300.0	23.800	<0.05	<0.03	458.00	0.15	65.8000	<0.5	0.6000	547.00	<0.05	6.90	0.02	101.00	35800.000	0.50	30.80	83.500	0.5600	511.00	<0.1	<0.2	7770.00	<0.05	1260.00	<3.0	0.21	4.7400	<1.0	395.000	<0.5
X5 Average		0.0176	6.46	0.285	112.96	21.259	0.02	0.01	315.56	0.16	22.3007	0.20	0.6407	330.96	0.02	6.10	0.03	68.85	12299.630	1.07	21.92	31.159	1.7530	363.26	0.22	0.1256	3990.74	0.02	939.70	1.26	0.41	2.8348	0.49	280.259	0.19
X5 Max		0.0600	28.00	0.900	<300.0	41.800	<0.05	<0.03	474.00	0.22	65.8000	<0.5	1.2000	669.00	<0.05	7.66	0.04	101.00	35800.000	13.30	30.80	83.900	13.1000	511.00	0.85	0.3000	7770.00	0.06	1260.00	5.00	0.69	7.2000	3.00	411.000	<0.5
X5 Min		<0.005	1.50	<0.1	<50.0	12.800	<0.01	<0.005	241.00	0.10	7.3200	<0.1	0.3100	82.00	<0.01	4.68	0.02	41.80	4500.000	<0.3	15.40	11.900	0.1400	271.00	<0.1	0.1300	2050.00	<0.01	750.00	<0.5	0.17	0.9800	<0.2	170.000	<0.1
X5 N > DL		4	27	26	0	27	0	1	27	27	27	1	27	27	0	27	27	27	27	26	27	27	27	27	23	9	27	3	27	1	27	27	3	27	0
X5 Median		<0.03	5.00	0.270	<300.0	19.000	<0.05	<0.03	306.00	0.16	19.7000	<0.5	0.5800	313.00	<0.05	6.20	0.03	69.70	10500.000	0.57	21.60	26.900	0.9640	364.00	0.20	<0.2	3460.00	<0.05	933.00	<3.0	0.41	2.0400	<1.0	266.000	<0.5
X5P	1/11/2010	<0.03	<1.0	0.400	<300.0	34.700	<0.05	<0.03	349.00	0.15	14.9000	<0.5	0.4000	107.00		7.38	0.04	76.80	9010.000	1.10	25.90	23.900	0.6200	340.00	0.40	<0.2	4870.00	<0.05	1000.00	<3.0	0.39	3.7700	<1.0	453.000	<0.5
X5P	2/22/2010	<0.005	1.20	0.360	<50.0	43.600	<0.01	<0.005	312.00	0.16	14.2000	<0.1	0.9000	590.00		6.82	0.01	72.80	9690.000	1.14	26.20	21.600	0.4070	343.00	0.22	0.1800	6800.00	0.02	965.00	<0.5	0.23	7.0900	<0.2	340.000	<0.1
X5P	3/2/2010	<0.005	2.10	0.410	<50.0	40.700	<0.01	<0.005	320.00	0.17	13.9000	0.50	0.5700	787.00		6.75	0.02	69.70	9930.000	1.15	25.80	20.900	0.6090	358.00	0.17	0.1400	7910.00	0.02	945.00	<0.5	0.17	7.6300	<0.2	326.000	<0.1
X5P	4/13/2010	<0.03	11.00	0.200	<300.0	29.000	<0.05	<0.03	330.00	0.13	8.0900	<0.5	1.0000	221.00		5.60	0.02	49.00	5180.000	0.80	18.20	12.500	2.8400	309.00	0.20	<0.2	3840.00	<0.05	943.00	<3.0	0.26	3.8200	<1.0	203.000	<0.5
X5P	5/3/2010	<0.005	16.70	0.180	<50.0	19.200	<0.01	<0.005	161.00	0.06	1.8000	<0.1	0.5700	234.00		2.61	0.01	16.40	1100.000	0.47	7.44	3.240	2.9600	165.00	0.14	0.1400	1600.00	<0.01	464.00	<0.5	0.17	1.0600	<0.2	62.800	<0.1
X5P	6/4/2010	<0.03	8.00	0.200	<300.0	21.000	<0.05	<0.03	342.00	0.19	25.2000	<0.5	0.5000	225.00		6.60	0.03	81.50	14200.000	0.50	25.20	36.400	1.0100	344.00	0.20	<0.2	4570.00	<0.05	936.00	<3.0	0.39	2.5600	<1.0	365.000	<0.5
X5P	7/10/2010	<0.005	31.80	0.380	<50.0	17.200	<0.01	0.09	318.00	0.13	16.9000	<0.1	1.0100	272.00		6.84	0.04	72.70	8980.000	0.63	22.10	22.700	3.1000	387.00	0.28	0.1200	2930.00	<0.01	1020.00	1.30	0.57	1.5600	0.30	173.000	<0.1
X5P	8/3/2010	<0.03	9.00	0.400	<300.0	16.400	<0.05	<0.03	308.00	0.16	19.4000	<0.5	1.0000	493.00		6.50	0.04	70.90	10000.000	0.80	21.20	28.300	4.5900	399.00	0.30	<0.2	2850.00	<0.05	951.00	<3.0	0.58	1.6600	<1.0	299.000	<0.5
X5P	9/2/2010	<0.03	15.00	0.400	<300.0	17.100	<0.05	<0.03	332.00	0.17	16.7000	<0.5	1.1000	632.00		7.00	0.04	73.40	8740.000	0.60	23.20	21.800	3.5900	374.00	0.30	<0.2	3100.00	0.07	981.00	<3.0	0.73	1.6300	<1.0	229.000	<0.5
X5P	10/20/2010	<0.03	9.00	0.500	<300.0	20.500	<0.05	<0.03	327.00	0.27	36.2000	<0.5	0.9000	781.00		6.30	0.03	75.70	19800.000	0.60	23.40	51.000	2.1000	447.00	0.20	<0.2	5140.00	<0.05	1100.00	<3.0	0.34	3.9600	<1.0	402.000	<0.5
X5P	11/8/2010	<0.03	7.00	0.400	<300.0	24.500	<0.05	<0.03	409.00	0.21	38.4000	<0.5	1.0000	691.00		6.60	0.03	81.60	21700.000	0.70	25.80	52.900	1.7000	394.00	0.50	0.7000	5950.00	0.08	1120.00	<3.0	0.39	4.4100	<1.0	360.000	<0.5
X5P	12/1/2010	<0.03	5.00	0.300	<300.0	31.500	<0.05	<0.03	394.00	0.29	33.0000	<0.5	0.7000	470.00		6.90	0.03	86.80	19700.000	0.80	27.00	46.400	1.2000	415.00	0.20	<0.2	6680.00	<0.05	1100.00	<3.0	0.33	6.0000	<1.0	433.000	<0.5
X5P Average		0.0108	9.69	0.344	108.33	26.283	0.02	0.02	325.17	0.17	19.8908	0.22	0.8042	458.58		6.33	0.03	68.94	11502.500	0.77	22.62	28.470	2.0605	356.25	0.26	0.1650	4686.67	0.03	960.42	1.17	0.38	3.7625	0.38	303.817	0.18
X5P Max		<0.03	31.80	0.500	<300.0	43.600	<0.05	0.09	409.00	0.29	38.4000	<0.5	1.1000	787.00		7.38	0.04	86.80	21700.000	1.15	27.00	52.900	4.5900	447.00	0.50	0.7000	7910.00	0.08	1120.00	<3.0	0.73	7.6300	<1.0	453.000	<0.5
X5P Min		<0.005	<1.0	0.180	<50.0	16.400	<0.01	<0.005	161.00	0.06	1.8000	<0.1	0.4000	107.00		2.61	0.01	16.40	1100.000	0.47	7.44	3.240	0.4070	165.00	0.14	0.1200	1600.00	<0.01	464.00	<0.5	0.17	1.0600	<0.2	62.800	<0.1
X5P N > DL		0	11	12	0	12	0	1	12	12	12	1	12	12	0	12	12	12	12	12	12	12	12	12	12	5	12	4	12	1	12	12	1	12	0
X5P Median		<0.03	8.50	0.390	<300.0	22.750	<0.05	<0.03	328.50	0.16	16.8000	<0.5	0.9000	481.50		6.68	0.03	73.10	9810.000	0.75	24.30	23.300	1.9000	366.00	0.21	<0.2	4720.00	<0.05	973.00	<3.0	0.37	3.7950	<1.0	333.000	<0.5

X7	6/1/2010	0.4000	1530.00	24.000	<3000.0	12.000	1.30	<0.3	460.00	16.80	1220.0000	<5.0	<3.0	1550000.00		11.00	0.13	881.00	101000.000	<3.0	54.00	1110.000	22.9000	2870.00	<1.0	<2.0	17300.00	<0.5	4140.00	<30.0	0.30	4.6000	<10.0	531000.000	<5.0
X7	10/6/2010	<0.5	2050.00	27.000	<5000.0	13.000	<1.0	<0.5	445.00	20.10	1340.0000	<10.0	<5.0	1700000.00		13.00	0.14	867.00	101000.000	<5.0	57.00	1210.000	24.8000	2930.00	<2.0	<4.0	19800.00	<1.0	4020.00	<50.0	0.30	5.0000	<20.0	541000.000	<10.0
X7 Average		0.3250	1790.00	25.500	2000.00	12.500	0.90	0.20	452.50	18.45	1280.0000	3.75	2.0000	1625000.00		12.00	0.14	874.00	101000.000	2.00	55.50	1160.000	23.8500	2900.00	0.75	1.5000	18550.00	0.38	4080.00	20.00	0.30	4.8000	7.50	536000.000	3.75
X7 Max		<0.5	2050.00	27.000	<5,000.0	13.000	1.30	<0.5	460.00	20.10	1340.0000	<10.0	<5.0	1700000.00		13.00	0.14	881.00	101000.000	<5.0	57.00	1210.000	24.8000	2930.00	<2.0	<4.0	19800.00	<1.0	4140.00	<50.0	0.30	5.0000	<20.0	541000.000	<10.0
X7 Min		0.4000	1530.00	24.000	<3,000.0	12.000	<1.0	<0.3	445.00	16.80	1220.0000	<5.0	<3.0	1550000.00		11.00	0.13	867.00	101000.000	<3.0	54.00	1110.000	22.9000	2870.00	<1.0	<2.0	17300.00	<0.5	4020.00	<30.0	0.30	4.6000	<10.0	531000.000	<5.0
X7 N > DL		1	2	2	0	2	1	0	2	2	2	0	0	2	0	2	2	2	2	0	2	2	2	2	0	0	2	0	2	0	2	2	0	2	0
X7 Median		0.3500	1790.00	25.500	2000.00	12.500	0.90	0.20	452.50	18.45	1280.0000	3.75	2.0000	1625000.00		12.00	0.14	874.00	101000.000	2.00	55.50	1160.000	23.8500	2900.00	0.75	1.5000	18550.00	0.38	4080.00	20.00	0.30	4.8000	10.00	536000.000	3.75

NB: Metals reported in mg/L are shaded in grey.

Denison Environmental Services

Table C-4: Rose Creek Drainage Water Quality
2010 - Seepage Water - General Parameters

Faro Mine Closure

Station	Date	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3-d mg/L	Chloride mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	ORP mV	pH	pHF	SO4-d mg/L	TEMP-F °C	TSS mg/L	TURB NTU
A25	5/31/2010	<0.5	2	180.00	<0.5	232	<0.5		<0.5		359.0	428.0	220.00					<0.5	133	8.1	7.9	21.0	8	15	
A30	2/4/2010	<0.5	15	21.00	<0.5	103	<0.5		<0.5		275.0	250.0	26.00					<0.5	198	6.9	6.2	110.0	1	2	
A30	2/24/2010	<0.5	11	23.00	<0.5	86	<0.5		<0.5		224.0	188.0	28.00					<0.5	178	7.0	6.6	72.0	2	11	
A30	3/2/2010	<0.5	4	24.00	<0.5	87	<0.5		<0.5		213.0	209.0	30.00					<0.5	179	7.1	6.8	62.0	2	<1.0	
A30	3/28/2010	<0.5	6	28.00	<0.5	77	<0.5		<0.5		201.0	160.0	34.00					<0.5	48	7.3	6.9	56.0	3	<1.0	
A30	4/10/2010	<0.5	14	30.00	<0.5	82	<0.5		<0.5		202.0	160.0	37.00					<0.5	71	7.3	6.8	64.0	3	10	
A30	4/19/2010	<0.5	12	30.00	<0.5	79	<0.5		<0.5		187.0	150.0	37.00					<0.5		7.3	7.0	65.0	4	43	
A30	5/1/2010	36	268	<0.5	<0.5	690	<0.5		<0.5		1670.0	1610.0	<0.5					<0.5		3.6	3.8	920.0	5	91	
A30	5/18/2010	<0.5	86	<0.5	<0.5	325	<0.5		<0.5		752.0	132.0	0.60					<0.5	346	4.9	5.2	380.0	3	9	
A30	6/2/2010	<0.5	55	<0.5	<0.5	196	<0.5		<0.5		484.0	549.0	<0.5					<0.5		5.0	5.7	200.0	7	6	
A30	6/15/2010	<0.5	28	6.20	<0.5	122	<0.5		<0.5		320.0	296.0	7.50					<0.5	195	6.7	6.2	140.0	4	2	
A30	7/7/2010	<0.5	60	3.60	<0.5	328	<0.5		<0.5		753.0	810.0	4.40					<0.5	139	5.8	6.1	380.0	8	9	
A30	7/22/2010	<0.5	25	8.40	<0.5	160	<0.5		<0.5		410.0	371.0	10.00					<0.5	201	6.5	7.0	170.0	5	3	
A30	8/5/2010	<0.5	21	13.00	<0.5	116	<0.5		<0.5		312.0	339.0	15.00					<0.5	219	6.8	6.9	130.0	6	<1.0	
A30	8/18/2010	<0.5	11	15.00	<0.5	94	<0.5		<0.5		238.0	260.0	18.00					<0.5	143	6.8	7.7	90.0	7	2	
A30	9/1/2010	<0.5	20	21.00	<0.5	87	<0.5		<0.5		224.0	227.0	26.00					<0.5	200	7.0	6.7	85.0	6	4	
A30	10/20/2010	<0.5	8	27.00	<0.5	86	<0.5		<0.5		223.0	208.0	33.00					<0.5	105	7.4	6.6	81.0	2	4	
A30	11/4/2010	<0.5	16	30.00	<0.5	93	<0.5		<0.5		221.0	223.0	37.00					<0.5	85	7.4	7.3	75.0	2	<1.0	
A30	12/1/2010	<0.5	5	29.00	<0.5	79	1.40		<0.5		197.0	80.0	35.00					<0.5	225	7.2	6.9	73.0	1	380	69.50
A30 Average		2	37	17.22	0	161	0.31		0.25		394.8	345.7	21.06					0	169	6.6	6.4	175.2	4	32	69.50
A30 Max		36	268	30.00	<0.5	690	1.40		<0.5		1670.0	1610.0	37.00					<0.5	346	7.4	7.7	920.0	8	380	69.50
A30 Min		<0.5	4	<0.5	<0.5	77	<0.5		<0.5		187.0	80.0	<0.5					<0.5	48	3.6	3.8	56.0	1	<1.0	69.50
A30 N > DL		1	18	15	0	18	1	0	0	0	18	18	16	0	0	0	0	0	15	18	18	18	18	14	1
A30 Median		<0.5	15	21.00	<0.5	94	<0.5		<0.5		231.0	225.0	26.00					<0.5	179	6.9	6.7	87.5	3	4	69.50
NE1	6/1/2010	<0.5	2	110.00	<0.5	233	<0.5		<0.5		480.0	627.0	130.00					<0.5	110	7.8	7.5	150.0	13	2	
SP5-6	6/1/2010	<0.5	7	170.00	<0.5	665	0.80		<0.5		1050.0	1172.0	210.00					<0.5	123	8.0	7.5	390.0	7	2	
SP5-6	7/10/2010	<0.5	18	170.00	<0.5	582	1.30		<0.5		1080.0	1049.0	200.00					<0.5	176	7.7	7.5	420.0	6	<1.0	
SP5-6	8/5/2010	<0.5	11	190.00	<0.5	787	1.10		<0.5		1280.0	1216.0	240.00					<0.5	144	7.9	7.5	510.0	7	2	
SP5-6	9/1/2010	<0.5	22	210.00	<0.5	868	1.20		<0.5		1450.0	1439.0	250.00					<0.5		7.9	7.6	660.0	5	2	
SP5-6	10/6/2010	<0.5	16	200.00	<0.5	1010	1.40		<0.5		1590.0	1786.0	250.00					<0.5	156	8.0	6.8	790.0	3	<1.0	
SP5-6 Average		0	15	188.00	0	782	1.16		0.25		1290.0	1332.4	230.00					0	150	7.9	7.4	554.0	6	1	
SP5-6 Max		<0.5	22	210.00	<0.5	1010	1.40		<0.5		1590.0	1786.0	250.00					<0.5	176	8.0	7.6	790.0	7	2	
SP5-6 Min		<0.5	7	170.00	<0.5	582	0.80		<0.5		1050.0	1049.0	200.00					<0.5	123	7.7	6.8	390.0	3	<1.0	
SP5-6 N > DL		0	5	5	0	5	5	0	0	0	5	5	5	0	0	0	0	0	4	5	5	5	5	3	0
SP5-6 Median		<0.5	16	190.00	<0.5	787	1.20		<0.5		1280.0	1216.0	240.00					<0.5	150	7.9	7.5	510.0	6	2	
W5	6/1/2010	<0.5	9	210.00	<0.5	938	1.30		<0.5		752.0	1680.0	260.00					<0.5	48	8.1	7.6	670.0	5	<1.0	
Weir 3	3/4/2010	<0.5	32	320.00	<0.5	1100	1.60		<0.5		1780.0	1730.0	380.00					<0.5	84	7.8	7.0	870.0	3	5	
Weir 3	8/5/2010	<0.5	29	320.00	<0.5	1080	2.00		<0.5		1840.0	1870.0	390.00					<0.5	73	7.6	7.0	890.0	10	2	
Weir 3	11/4/2010											1964.0		0.78	<0.005	<0.02	<0.02		1		7.3		5		
Weir 3 Average		0	30	320.00	0	1090	1.80		0.25		1810.0	1854.7	385.00	0.78	0.00	0.01	0.01	0	53	7.7	7.1	880.0	4	4	
Weir 3 Max		<0.5	32	320.00	<0.5	1100	2.00		<0.5		1840.0	1964.0	390.00	0.78	<0.005	<0.02	<0.02	<0.5	84	7.8	7.7	890.0	10	5	
Weir 3 Min		<0.5	29	320.00	<0.5	1080	1.60		<0.5		1780.0	1730.0	380.00	0.78	<0.005	<0.02	<0.02	<0.5	1	7.6	6.7	870.0	1	2	
Weir 3 N > DL		0	2	2	0	2	2	0	0	0	2	3	2	1	0	0	0	0	3	2	3	2	3	2	0
Weir 3 Median		<0.5	30	320.00	<0.5	1090	1.80		<0.5		1810.0	1870.0	385.00	0.78	<0.005	<0.02	<0.02	<0.5	73	7.7	7.1	880.0	3	4	
X11	3/4/2010	<0.5	37	330.00	<0.5	1720	2.60		<0.5		2650.0	2460.0	400.00					<0.5	79	7.6	7.1	1500.0	3	12	
X11	8/5/2010	<0.5	34	300.00	<0.5	1640	2.50		<0.5		2540.0	2289.0	370.00					<0.5	96	7.4	6.9	1400.0	9	8	
X11	11/4/2010											2582.0		0.78	<0.005	<0.02	<0.02		4		7.0		4		
X11 Average		0	36	315.00	0	1680	2.55		0.25		2595.0	2443.7	385.00	0.78	0.00	0.01	0.01	0	60	7.5	7.0	1450.0	4	10	
X11 Max		<0.5	37	330.00	<0.5	1720	2.60		<0.5		2650.0	2582.0	400.00	0.78	<0.005	<0.02	<0.02	<0.5	96	7.6	7.4	1500.0	9	12	
X11 Min		<0.5	34	300.00	<0.5	1640	2.50		<0.5		2540.0	2289.0	370.00	0.78	<0.005	<0.02	<0.02	<0.5	4	7.4	6.8	1400.0	1	8	
X11 N > DL		0	2	2	0	2	2	0	0	0	2	3	2	1	0	0	0	0	3	2	3	2	3	2	0
X11 Median		<0.5	36	315.00	<0.5	1680	2.55		<0.5		2595.0	2460.0	385.00	0.78	<0.005	<0.02	<0.02	<0.5	79	7.5	7.0	1450.0	3	10	

Denison Environmental Services

Table C-4: Rose Creek Drainage Water Quality
2010 - Seepage Water - General Parameters

Faro Mine Closure

Station	Date	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3-d mg/L	Chloride mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDF µmho/cm	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	ORP mV	pH	pHF	SO4-d mg/L	TEMP-F °C	TSS mg/L	TURB NTU
X12	**3/4/2010**	<0.5	22	260.00	<0.5	884	1.60		<0.5		1560.0	1460.0	310.00					<0.5	71	7.8	7.3	700.0	2	<1.0	
X12	**8/5/2010**	<0.5	17	260.00	<0.5	844	1.50		<0.5		1490.0	1243.0	310.00					<0.5	93	7.7	7.3	640.0	11	<1.0	
X12	**11/4/2010**											1333.0		<0.005	<0.005	0.35	0.35		5		7.1			5	
X12 Average		0	20	260.00	0	864	1.55		0.25		1525.0	1345.3	310.00	0.00	0.00	0.35	0.35	0	56	7.7	7.3	670.0	3	1	
X12 Max		<0.5	22	260.00	<0.5	884	1.60		<0.5		1560.0	1460.0	310.00	<0.005	<0.005	0.35	0.35	<0.5	93	7.8	7.6	700.0	11	<1.0	
X12 Min		<0.5	17	260.00	<0.5	844	1.50		<0.5		1490.0	1243.0	310.00	<0.005	<0.005	0.35	0.35	<0.5	5	7.7	6.6	640.0	<0.0	<1.0	
X12 N > DL		0	2	2	0	2	2	0	0	0	2	3	2	0	0	1	1	0	3	2	3	2	3	0	0
X12 Median		<0.5	20	260.00	<0.5	864	1.55		<0.5		1525.0	1333.0	310.00	<0.005	<0.005	0.35	0.35	<0.5	71	7.7	7.3	670.0	2	<1.0	
X13	**1/11/2010**	<0.5	23	300.00	<0.5	980	1.20	<0.0005	<0.5	10.00	1700.0	1430.0	370.00	0.55				<0.5	18	7.9	6.1	750.0	2	4	18.40
X13	**2/17/2010**	<0.5	22	330.00	<0.5	1330	2.20	<0.0005	<0.5	10.00	2220.0	2240.0	410.00	0.74				<0.5	58	7.8	7.2	1100.0	3	10	39.40
X13	**3/2/2010**	<0.5	17	330.00	<0.5	1400	2.40	<0.0005	<0.5	<5.0	2220.0	1780.0	400.00	0.71				<0.5	73	7.7	7.0	1100.0	3	11	44.70
X13	**4/15/2010**	<0.5	25	300.00	<0.5	1260	1.70	<0.0005	<0.5	15.00	2100.0	2220.0	370.00	0.62				<0.5		7.8	7.0	1100.0	4	7	30.80
X13	**5/6/2010**	<0.5	17	300.00	<0.5	1350	1.60	<0.0005	<0.5	<5.0	2240.0	2229.0	360.00	0.43				<0.5	112	7.6	7.1	1200.0	4	8	19.60
X13	**6/10/2010**	<0.5	27	260.00	<0.5	1440	2.30	0	<0.5	10.00	2030.0	1859.0	320.00	0.56				<0.5	103	8.0	7.0	1100.0	6	7	14.20
X13	**7/11/2010**	<0.5	26	300.00	<0.5	1330	1.50	<0.0005	<0.5	10.00	2160.0	1999.0	370.00	0.70				<0.5	94	7.5	7.4	1100.0	9	6	25.90
X13	**8/5/2010**	<0.5	33	320.00	<0.5	1270	1.50	<0.0005	<0.5	10.00	2110.0	1798.0	390.00	0.85				<0.5	54	7.5	7.1	1000.0	8	9	30.40
X13	**9/2/2010**	<0.5	44	340.00	<0.5	1420	1.40	<0.0005	<0.5	<5.0	2050.0	2164.0	410.00	2.10				<0.5	79	7.6	7.2	1000.0	5	9	34.20
X13	**10/7/2010**	<0.5	35	330.00	<0.5	1390	1.70	<0.0005	<0.5	30.00	2170.0	1270.0	410.00	1.20				<0.5	46	7.6	6.2	1100.0	5	10	41.40
X13	**11/4/2010**	<0.5	24	340.00	<0.5	1490	1.30	0	<0.5	20.00	2200.0	2165.0	410.00	0.89	<0.005	<0.02	<0.02	<0.5	2	7.8	7.2	1200.0	4	10	41.10
X13	**12/2/2010**	<0.5	27	330.00	<0.5	1430	2.40	<0.0005	<0.5	30.00	2310.0	2400.0	410.00	0.99				<0.5		7.6	7.1	1200.0	1	6	46.50
X13 Average		0	27	315.00	0	1341	1.77	0	0.25	12.71	2125.8	2005.8	385.83	0.86	0.00	0.01	0.01	0	63	7.7	7.1	1079.2	4	8	28.46
X13 Max		<0.5	44	340.00	<0.5	1490	2.40	0	<0.5	30.00	2310.0	2400.0	410.00	2.10	<0.005	<0.02	<0.02	<0.5	112	8.0	8.5	1200.0	9	11	46.50
X13 Min		<0.5	17	260.00	<0.5	980	1.20	<0.0005	<0.5	<5.0	1700.0	1270.0	320.00	0.43	<0.005	<0.02	<0.02	<0.5	2	7.5	6.1	750.0	1	4	14.20
X13 N > DL		0	12	12	0	12	12	2	0	9	12	12	12	12	0	0	0	0	11	12	12	12	12	12	12
X13 Median		<0.5	25	325.00	<0.5	1370	1.65	<0.0005	<0.5	10.00	2165.0	2145.5	395.00	0.73	<0.005	<0.02	<0.02	<0.5	58	7.7	7.1	1100.0	4	9	32.50
X23	**1/12/2010**	<0.5	1950	24.00	<0.5	5870	13.00		<0.5		8450.0	7990.0	29.00					<0.5	12	6.1	6.2	7600.0	0	130	
X23	**4/27/2010**	597	2420	<0.5	<0.5	3470	5.40		<0.5		7030.0	>3999.0	<0.5					<0.5	478	2.9	3.0	6700.0	3	240	
X23	**5/6/2010**	<0.5	1000	75.00	<0.5	5280	13.00		<0.5		7450.0	>3999.0	92.00					<0.5	66	6.3	6.6	7400.0	0	180	
X23	**6/10/2010**	<0.5	1170	13.00	<0.5	5870	16.00		<0.5		7920.0	>3999.0	16.00					<0.5	59	5.9	7.0	7900.0	14	200	
X23	**7/10/2010**	<0.5	1230	32.00	<0.5	5520	14.00		<0.5		8090.0	3999.0	39.00					<0.5	29	5.9	6.2	8000.0	15	190	
X23	**8/5/2010**	<0.5	1130	56.00	<0.5	5610	15.00		<0.5		7900.0	7450.0	68.00					<0.5	69	6.3	7.1	7300.0	13	180	
X23	**9/2/2010**	<0.5	1070	59.00	<0.5	5670	14.00		<0.5		7900.0	>3999.0	72.00					<0.5	66	6.3	6.2	7400.0	4	190	
X23	**10/7/2010**	<0.5	1030	36.00	<0.5	5630	15.00		<0.5		7610.0	4300.0	44.00					<0.5	36	6.1	6.2	7400.0	2	210	
X23	**11/4/2010**	<0.5	1030	90.00	<0.5	5770	14.00		<0.5		7740.0	>3999.0	110.00					<0.5	24	6.8	6.6	7600.0	3	170	
X23 Average		67	1337	42.81	0	5410	13.27		0.25		7787.8	4859.3	52.25					0	93	5.8	6.4	7477.8	7	188	
X23 Max		597	2420	90.00	<0.5	5870	16.00		<0.5		8450.0	7990.0	110.00					<0.5	478	6.8	7.3	8000.0	19	240	
X23 Min		<0.5	1000	<0.5	<0.5	3470	5.40		<0.5		7030.0	>3999.0	<0.5					<0.5	12	2.9	3.0	6700.0	0	130	
X23 N > DL		1	9	8	0	9	9	0	0	0	9	4	8	0	0	0	0	0	9	9	9	9	9	9	0
X23 Median		<0.5	1130	36.00	<0.5	5630	14.00		<0.5		7900.0	>3999.0	44.00					<0.5	59	6.1	6.5	7400.0	5	190	

Denison Environmental Services

Table C-5: Rose Creek Drainage Water Quality
2010 - Seepage Water - Dissolved Metals

Faro Mine Closure

Station	Date	Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	Hg-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	S-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
A25	5/31/2010	<0.02	10.00	<0.1	77.000	<50.0	<0.1	<1.0	66.60	0.03	<0.5	<1.0	0.6000	24.00	<0.02	2.19	0.010	16.00	5.000	<1.0	3.34	<1.0	1.7000	<0.5	9	0.2000	2730.00	<5.0	554.00	<5.0	<0.05	1.6000	<5.0	21.000	<0.5
A30	2/4/2010	0.0340	141.00	0.04	18.700	<50.0	0.26	<0.005	20.20	8.37	5.4700	0.30	52.0000	<1.0		0.77	0.012	12.70	229.000	0.30	2.31	24.100	9.0700	<0.02	37	0.2700	6510.00	<0.01	89.40	<0.5	0.02	0.7140	<0.2	6840.000	<0.1
A30	2/24/2010	0.0240	74.40	0.05	20.200	<50.0	0.12	<0.005	18.40	4.48	1.8200	0.30	25.3000	<1.0		0.71	0.009	9.85	88.500	0.33	2.34	14.400	4.9500	<0.02	25	0.2900	5300.00	<0.01	77.70	<0.5	0.02	0.6270	<0.2	4240.000	<0.1
A30	3/2/2010	0.0200	63.70	0.04	20.800	<50.0	0.11	<0.005	18.80	4.22	1.3400	0.30	21.2000	9.00		0.79	0.009	9.66	70.400	0.35	2.44	12.800	11.4000	0.03	27	0.3000	5880.00	0.05	78.50	<0.5	0.02	0.5780	<0.2	3950.000	<0.1
A30	3/28/2010	<0.02	28.00	<0.1	21.000	<50.0	<0.1	<1.0	17.60	2.69	0.6000	<1.0	11.8000	<5.0	<0.02	0.67	0.008	8.10	29.000	<1.0	2.20	10.000	2.7000	<0.5	20	0.3000	6120.00	<5.0	79.00	<5.0	<0.05	0.5000	<5.0	2960.000	<0.5
A30	4/10/2010	<0.02	26.00	0.20	24.000	<50.0	<0.1	<1.0	18.40	2.81	0.8000	<1.0	10.1000	8.00	<0.02	0.72	0.008	8.80	35.000	<1.0	2.27	10.000	2.8000	<0.5	20	0.3000	5450.00	<5.0	83.00	<5.0	<0.05	0.4000	<5.0	3250.000	<0.5
A30	4/19/2010	<0.02	39.00	<0.1	24.000	<50.0	<0.1	<1.0	18.20	2.62	1.6000	<1.0	11.5000	15.00	<0.02	0.75	0.008	8.12	56.000	<1.0	2.11	9.000	4.1000	<0.5	22	0.3000	5730.00	<5.0	75.00	<5.0	<0.05	0.4000	<5.0	2770.000	<0.5
A30	5/1/2010	0.5200	13500.00	1.60	30.000	<200.0	5.90	<4.0	79.50	158.00	301.0000	7.00	1430.0000	6320.00	<0.08	1.90	0.051	119.00	8030.000	<4.0	3.80	303.000	417.0000	<2.0	350	0.6000	12100.00	<20.0	352.00	<20.0	0.60	12.9000	<20.0	109000.000	<2.0
A30	5/18/2010	0.0600	6140.00	0.50	23.000	<50.0	3.40	<1.0	46.20	61.00	92.0000	<1.0	675.0000	51.00	<0.02	1.57	0.029	50.90	2640.000	<1.0	3.34	121.000	114.0000	<0.5	141	0.3000	10800.00	<5.0	202.00	<5.0	0.06	6.5000	<5.0	40800.000	<0.5
A30	6/2/2010	0.0900	2580.00	0.20	19.000	<50.0	1.80	<1.0	28.80	31.50	31.9000	<1.0	340.0000	28.00	<0.02	1.14	0.022	30.10	1060.000	2.00	2.88	64.000	79.5000	<0.5	79	0.2000	9710.00	<5.0	128.00	<5.0	<0.05	3.2000	<5.0	22000.000	<0.5
A30	6/15/2010	0.0700	599.00	<0.1	20.000	<50.0	0.60	<1.0	20.30	14.00	9.1000	<1.0	120.0000	8.00		0.91	0.016	17.30	366.000	<1.0	2.55	32.000	29.9000	<0.5	48	0.2000	7310.00	<5.0	99.00	<5.0	<0.05	1.2000	<5.0	9350.000	<0.5
A30	7/7/2010	0.1200	1130.00	0.40	24.000	<50.0	0.90	<1.0	51.70	44.50	61.1000	2.00	277.0000	28.00		1.41	0.022	48.20	1790.000	2.00	3.59	107.000	54.6000	<0.5	128	0.4000	12000.00	<5.0	247.00	<5.0	0.11	2.1000	<5.0	35000.000	<0.5
A30	7/22/2010	0.0800	476.00	<0.1	15.000	<50.0	0.50	<1.0	27.80	18.90	12.2000	<1.0	121.0000	10.00		1.10	0.017	22.10	481.000	<1.0	2.73	45.000	23.5000	<0.5	64	0.2000	8560.00	<5.0	120.00	<5.0	<0.05	0.9000	<5.0	13500.000	<0.5
A30	8/5/2010	0.0500	226.00	<0.1	16.000	<50.0	0.20	<1.0	20.70	11.90	4.7000	<1.0	68.8000	<5.0		0.86	0.012	15.70	201.000	<1.0	2.23	31.000	13.1000	<0.5	44	<0.1	7050.00	<5.0	86.00	<5.0	<0.05	0.6000	<5.0	9930.000	<0.5
A30	8/18/2010	0.0300	105.00	<0.1	21.000	<50.0	0.20	<1.0	18.10	6.80	1.8000	<1.0	37.9000	<5.0		0.84	0.011	11.90	71.000	<1.0	2.56	20.000	7.9000	<0.5	35	0.2000	6360.00	<5.0	79.00	<5.0	<0.05	0.4000	<5.0	5880.000	<0.5
A30	9/1/2010	0.0300	61.00	<0.1	21.000	<50.0	<0.1	<1.0	16.40	4.73	0.9000	<1.0	23.3000	9.00		0.76	0.010	11.10	30.000	<1.0	2.45	16.000	5.2000	<0.5	30	0.2000	6340.00	<5.0	75.00	<5.0	<0.05	0.3000	<5.0	4950.000	<0.5
A30	10/20/2010	0.0120	22.20	<0.02	18.700	<50.0	0.05	<0.005	17.50	3.09	0.2930	0.40	10.0000	3.00		0.63	0.009	10.20	4.820	0.20	2.14	13.200	2.8400	<0.02	26	0.2000	4930.00	0.02	78.60	<0.5	0.01	0.2730	<0.2	3930.000	<0.1
A30	11/4/2010	<0.02	19.00	<0.1	19.000	<50.0	<0.1	<1.0	18.80	2.66	<0.5	<1.0	8.0000	<5.0	0.04	0.71	0.010	11.20	5.000	<1.0	2.53	13.000	1.9000	<0.5	27	0.2000	5880.00	<5.0	81.00	<5.0	<0.05	0.2000	<5.0	4140.000	<0.5
A30	12/1/2010	<0.02	6.00	<0.1	22.000	<50.0	<0.1	<1.0	17.00	2.17	<0.5	<1.0	5.3000	<5.0		0.68	0.008	8.93	3.000	<1.0	2.09	11.000	0.9000	<0.5	21	0.2000	5370.00	<5.0	76.00	<5.0	<0.05	0.2000	<5.0	3280.000	<0.5
A30 Average		0.0661	1402.02	0.19	20.967	29.17	0.80	0.47	26.36	21.36	29.2846	0.91	180.4556	361.25	0.02	0.94	0.015	22.99	843.873	0.70	2.59	47.583	43.6311	0.24	64	0.2617	7300.00	2.37	117.01	2.42	0.06	1.7773	2.38	15876.111	0.25
A30 Max		0.5200	13500.00	1.60	30.000	<200.0	5.90	<4.0	79.50	158.00	301.0000	7.00	1430.0000	6320.00	<0.08	1.90	0.051	119.00	8030.000	<4.0	3.80	303.000	417.0000	<2.0	350	0.6000	12100.00	<20.0	352.00	<20.0	0.60	12.9000	<20.0	109000.000	<2.0
A30 Min		0.0120	6.00	<0.02	15.000	<50.0	0.05	<0.005	16.40	2.17	0.2930	0.30	5.3000	<1.0	<0.02	0.63	0.008	8.10	3.000	0.20	2.09	9.000	0.9000	<0.02	20	<0.1	4930.00	<0.01	75.00	<0.5	0.01	0.2000	<0.2	2770.000	<0.1
A30 N > DL		13	18	8	18	0	12	0	18	18	16	6	18	11	1	18	18	18	18	6	18	18	18	1	18	17	18	2	18	0	7	18	0	18	0
A30 Median		0.0300	89.70	<0.1	20.900	<50.0	0.16	<1.0	18.80	5.77	1.8100	<1.0	31.6000	8.00	<0.02	0.78	0.011	11.55	79.750	<1.0	2.45	18.000	8.4850	<0.5	33	0.2350	6350.00	<5.0	82.00	<5.0	<0.05	0.5890	<5.0	5415.000	<0.5
NE1	6/1/2010	<0.005	12.70	0.26	22.400	<50.0	<0.01	0.01	62.50	0.33	1.2500	<0.1	1.6000	310.00		2.48	0.011	18.60	205.000	5.06	3.38	2.830	1.0300	0.07	47	0.3300	4230.00	<0.01	273.00	<0.5	0.01	0.8430	<0.2	549.000	<0.1
SP5-6	6/1/2010	<0.02	75.00	0.30	22.000	<50.0	<0.1	<1.0	117.00	3.55	5.3000	<1.0	7.0000	56.00	<0.02	4.14	0.032	90.60	240.000	<1.0	6.61	31.000	1.4000	<0.5	168	0.8000	6780.00	<5.0	446.00	<5.0	0.06	3.6000	<5.0	2950.000	<0.5
SP5-6	7/10/2010	<0.005	144.00	0.27	20.400	<50.0	0.06	<0.005	101.00	3.47	9.8700	<0.1	7.3100	54.00		3.52	0.025	80.00	382.000	0.22	5.78	33.800	1.5400	0.05	157	0.3900	5800.00	0.04	410.00	<0.5	0.06	3.8600	<0.2	2860.000	<0.1
SP5-6	8/5/2010	<0.02	144.00	0.20	22.000	<50.0	<0.1	<1.0	143.00	3.82	13.6000	<1.0	7.0000	63.00		4.16	0.030	104.00	477.000	<1.0	7.27	38.000	1.6000	<0.5	215	0.4000	7740.00	<5.0	489.00	<5.0	0.06	5.8000	<5.0	3220.000	<0.5
SP5-6	9/1/2010	<0.02	139.00	0.20	25.000	<50.0	<0.1	<1.0	141.00	4.32	20.5000	<1.0	8.6000	68.00		4.60	0.035	125.00	800.000	<1.0	8.46	44.000	1.2000	<0.5	261	0.4000	7080.00	<5.0	573.00	<5.0	0.07	6.1000	<5.0	4010.000	<0.5
SP5-6	10/6/2010	<0.02	90.00	0.20	23.000	<50.0	<0.1	<1.0	166.00	4.13	26.5000	<1.0	7.0000	34.00		4.87	0.035	144.00	1070.000	<1.0	9.66	46.000	0.3000	<0.5	306	0.4000	5800.00	<5.0	672.00	<5.0	0.06	9.3000	<5.0	3730.000	<0.5
SP5-6 Average		0.0085	118.40	0.23	22.480	25.00	0.05	0.40	133.60	3.86	15.1540	0.41	7.3820	55.00	0.01	4.26	0.031	108.72	593.800	0.44	7.56	38.560	1.2080	0.21	221	0.4780	6640.00	2.01	518.00	2.05	0.06	5.7320	2.02	3354.000	0.21
SP5-6 Max		<0.02	144.00	0.30	25.000	<50.0	<0.1	<1.0	166.00	4.32	26.5000	<1.0	8.6000	68.00	<0.02	4.87	0.035	144.00	1070.000	<1.0	9.66	46.000	1.6000	<0.5	306	0.8000	7740.00	<5.0	672.00	<5.0	0.07	9.3000	<5.0	4010.000	<0.5
SP5-6 Min		<0.005	75.00	0.20	20.400	<50.0	0.06	<0.005	101.00	3.47	5.3000	<0.1	7.0000	34.00	<0.02	3.52	0.025	80.00	240.000	0.22	5.78	31.000	0.3000	0.05	157	0.3900	5800.00	0.04	410.00	<0.5	0.06	3.6000	<0.2	2860.000	<0.1
SP5-6 N > DL		0	5	5	5	0	1	0	5	5	5	0	5	5	0	5	5	5	5	1	5	5	5	1	5	5	5	1	5	0	5	5	0	5	0
SP5-6 Median		<0.02	139.00	0.20	22.000	<50.0	<0.1	<1.0	141.00	3.82	13.6000	<1.0	7.0000	56.00	<0.02	4.16	0.032	104.00	477.000	<1.0	7.27	38.000	1.4000	<0.5	215	0.4000	6780.00	<5.0	489.00	<5.0	0.06	5.8000	<5.0	3220.000	<0.5
W5	6/1/2010	<0.005	8.50	0.19	29.600	<50.0	<0.01	<0.005	156.00	3.31	0.2030	<0.1	1.6300	24.00		3.94	0.030	133.00	9.020	0.24	7.30	47.800	0.4270	0.13	247	3.1600	5390.00	<0.01	635.00	<0.5	0.13	16.0000	<0.2	3510.000	<0.1
Weir 3	3/4/2010	<0.03	2.00	0.80	63.000	<300.0	<0.05	<0.03	335.00	0.11	6.3200	<0.5	0.5000	1970.00		5.70	0.012	64.50	14400.000	0.90	31.20	23.400	0.8500	<0.1	280	<0.2	6300.00	<0.05	857.00	<3.0	0.02	9.6900	<1.0	39.700	<0.5
Weir 3	8/5/2010	<0.02	<3.0	0.50	54.000	<50.0	<0.1	<1.0	322.00	0.18	6.8000	<1.0	0.6000	1290.00		5.21	0.011	67.40	16200.000	2.00	32.80	25.000	0.4000	<0.5	316	<0.1	8810.00	<5.0	765.00	<5.0	<0.05	10.7000	<5.0	11.000	<0.5
Weir 3 Average		0.0125	1.75	0.65	58.500	87.50	0.04	0.26	328.50	0.15	6.5600	0.38	0.5500	1630.00		5.46	0.012	65.95	15300.000	1.45	32.00	24.200	0.6250	0.15	298	0.0750	7555.00	1.26	811.00	2.00	0.02	10.1950	1.50	25.350	0.25
Weir 3 N > DL		0	1	2	2	0	0	0	2	2	2	0	2	2	0	2	2	2	2	2	2	2	2	0	2	0	2	0	2	0	1	2	0	2	0
X11	3/4/2010	<0.03	4.00	3.30	51.400	<300.0	<0.05	<0.03	519.00	0.11	33.4000	<0.5	<0.3	5800.00		7.90	0.022	104.00	28200.000	0.50	36.80	38.500	2.6500	<0.1	526	<0.2	7840.00	<0.05	1380.00	<3.0	0.05	5.8800	<1.0	13.500	<0.5
X11	8/5/2010	<0.03	3.00	1.60	34.300	<300.0	<0.05	<0.03	491.00	0.12	24.0000	<0.5	<0.3	3530.00	<0.05	7.10	0.022	99.40	23700.000	0.40	34.60	32.000	0.3500	<0.1	505	<0.2	8960.00	<0.05	1170.00	<3.0	0.04	4.9900	<1.0	11.100	<0.5
X11 Average		0.0150	3.50	2.45	42.850	150.00	0.03	0.02	505.00	0.12	28.7000	0.25	0.1500	4665.00	0.03	7.50	0.022	101.70	25950.000	0.45	35.70	35.250	1.5000	0.05	516	0.1000	8400.00	0.03	1275.00	1.50	0.05	5.4350	0.50	12.300	0.25
X11 N > DL		0	2	2	2	0	0	0	2	2	2	0	0	2	0	2	2	2	2	2	2	2	2	0	2	0	2	0	2	0	2	2	0	2	0
X12	3/4/2010	<0.03	2.00	0.20	39.600	<300.0	<0.05	<0.03	260.00	<0.03	0.0900	<0.5	0.5000	23.00		6.90	0.008	56.80	100.000	<0.3	24.70	0.900	2.1600	<0.1	232	<0.2	4880.00	<0.05	770.00	<3.0	<0.01	13.7000	<1.0	13.800	<0.5
X12	8/5/2010	<0.03	9.00	0.40	37.700	<300.0	<0.05	<0.03	246.00	<0.03	0.1000	<0.5	0.6000	9.00	<0.05	7.40	0.011	55.60	39.400	<0.3	24.40	5.800	0.7600	<0.1	230	<0.2	6620.00	<0.05	697.00	<3.0	<0.01	15.5000	<1.0	8.400	<0.5
X12 Average		0.0150	5.50	0.30	38.650	150.00	0.03	0.02	253.00	0.02	0.0950	0.25	0.5500	16.00	0.03	7.15	0.010	56.20	69.700	0.15	24.55	3.350	1.4600	0.05	231	0.1000	5750.00	0.03	733.50	1.50	0.01	14.6000	0.50	11.100	0.25
X12 N > DL		0	2	2	2	0	0	0	2	0	2	0	2	2	0	2	2	2	2	0	2	2	2	0	2	0	2	0	2	0	0	2	0	2	0
X13	1/11/2010	<0.03	<1.0	0.80	71.900	<300.0	<0.05	<0.03	294.00	0.16	4.9000	<0.5	<0.3	1510.00	<0.05	4.82	0.011	59.90	12200.000	1.80	29.40	19.900	0.2400	<0.1	256	<0.2	7560.00	<0.05	700.00	5.00	0.02	8.1300	<1.0	6.800	<0.5
X13	2/17/2010	<0.03	2.00	1.80	61.700	<300.0	<0.05	<0.03	397.00	0.22	15.8000	<0.5	<0.3	3620.00	<0.05	5.81	0.017	83.00	20300.000	1.00	35.10	29.800	0.0700	<0.1	423	<0.2	7520.00	<0.05	990.00	<3.0	0.02	7.9100	<1.0	11.700	<0.5
X13	3/2/2010	<0.03	2.00	1.80	60.600	<300.0	<0.05	<0.03	422.00	0.21	16.8000	<0.5	<0.3	3910.00	<0.05	6.40	0.016	85.20	20800.000	0.90	35.10	28.400	<0.03	<0.1	427	<0.2	7610.00	<0.05	1030.00	<3.0	0.03	7.1300	<1.0	11.300	<0.5
X13	4/15/2010	<0.03	2.00	1.70	55.700	<300.0	<0.05	<0.03	376.00	0.17	15.8000	<0.5	<0.3	2610.00	<0.05	5.60	0.015	76.80	18600.000	1.10	31.10	27.600	0.1600	<0.1	367	<0.2	7530.00	<0.05	931.00	<3.0	0.02	6.9100	<1.0	11.100	<0.5
X13	5/6/2010	<0.03	3.00	2.00	51.600	<300.0	<0.05	<0.03	401.00	0.14	17.7000	<0.5	<0.3	2730.00	<0.05	6.20	0.014	83.80	18800.000	0.70	32.70	28.800	1.0200	<0.1	412	<0.2	7500.00	<0.05	938.00	<3.0	0.03	6.2200	<1.0	33.200	<0.5
X13	6/10/2010	<0.03	4.00	1.80	37.500	<300.0	<0.05	<0.03	433.00	0.13	20.0000	<0.5	<0.3	3420.00	<0.05	7.00	0.018	87.50	20600.000	0.50	33.80	23.600	0.4100	<0.1	384	<0.2	8080.00	<0.05	1030.00	<3.0	0.04	3.9600	<1.0	14.800	<0.5
X13	7/11/2010	<0.03	5.00	1.40	51.800	<300.0	<0.05	<0.03	395.00	0.21	14.3000	<0.5	0.4000	2990.00		6.80	0.018	84.20	20000.000	0.80	35.10	25.100	2.3800	<0.1	365	<0.2	7720.00	0.24	1030.00	<3.0	0.03	6.5600	<1.0	57.300	<0.5
X13	8/5/2010	<0.03	3.00	1.80	58.200	<300.0	<0.05	<0.03	382.00	0.25	11.2000	<0.5	<0.3	3870.00		5.70	0.015	77.80	18900.000	1.00	32.30	27.200	0.2200	<0.1	370	<0.2	8180.00	<0.05	941.00	<3.0	0.02	8.1400	<1.0	11.200	<0.5
X13	9/2/2010	<0.005	8.20	1.66	51.400	<50.0	<0.01	0.01	425.00	0.18	17.0000	<0.1	0.5000	3480.00	<0.01	6.51	0.019	86.40	20800.000	0.96	33.00	28.500	2.4900	<0.02	411	<0.04	8090.00	0.05	1020.00	5.90	0.03	8.0600	<0.2	138.000	<0.1
X13	10/7/2010	<0.03	4.00	2.00	58.300	<300.0	<0.05	<0.03	410.00	0.28	14.6000	<0.5	<0.3	4540.00	<0.05	6.30	0.015	89.00	22000.000	0.90	34.20	30.200	0.0400	<0.1	445	<0.2	8400.00	<0.05	1010.00	<3.0	0.03	8.1700	<1.0	13.100	<0.5
X13	11/4/2010	<0.03	6.00	2.00	55.100	<300.0	<0.05	<0.03	438.00	0.20	18.0000	<0.5	<0.3	4470.00	<0.05	6.90	0.017	95.40	23900.000	0.80	36.70	32.300	0.3400	<0.1	446	<0.2	8370.00	<0.05	1090.00	<3.0	0.03	7.9300	<1.0	42.900	<0.5
X13	12/2/2010	<0.03	3.00	1.70	55.100	<300.0	<0.05	<0.03	431.00	0.21	13.8000	<0.5	<0.3	5050.00	<0.05	6.00	0.014	85.30	22000.000	0.70	33.30	29.300	0.1700	<0.1	416	<0.2	8920.00	<0.05	1010.00	<3.0	0.02	7.9500	<1.0	11.600	<0.5
X13 Average		0.0140	3.56	1.71	55.742	139.58	0.02	0.01	400.33	0.20	14.9917	0.23	0.2000	3516.67	0.02	6.17	0.016	82.86	19908.333	0.93	33.48	27.558	0.6296	0.05	394	0.0933	7956.67	0.05	976.67	2.16	0.03	7.2558	0.47	30.250	0.23
X13 Max		<0.03	8.20	2.00	71.900	<300.0	<0.05	<0.03	438.00	0.28	20.0000	<0.5	0.5000	5050.00	<0.05	7.00	0.019	95.40	23900.000	1.80	36.70	32.300	2.4900	<0.1	446	<0.2	8920.00	0.24	1090.00	5.90	0.04	8.1700	<1.0	138.000	<0.5
X13 Min		<0.005	<1.0	0.80	37.500	<50.0	<0.01	0.01	294.00	0.13	4.9000	<0.1	<0.3	1510.00	<0.01	4.82	0.011	59.90	12200.000	0.50	29.40	19.900	<0.03	<0.02	256	<0.04	7500.00	<0.05	700.00	<3.0	0.02	3.9600	<0.2	6.800	<0.1
X13 N > DL		0	11	12	12	0	0	1	12	12	12	0	2	12	0	12	12	12	12	12	12	12	11	0	12	0	12	2	12	2	12	12	0	12	0
X13 Median		<0.03	3.00	1.80	55.400	<300.0	<0.05	<0.03	405.50	0.21	15.8000	<0.5	<0.3	3550.00	<0.05	6.25	0.016	84.70	20450.000	0.90	33.55	28.450	0.2300	<0.1	412	<0.2	7900.00	<0.05	1010.00	<3.0	0.03	7.9200	<1.0	12.400	<0.5
X23	1/12/2010	0.6600	<6.0	0.50	15.000	<100.0	<0.2	<2.0	507.00	164.00	1610.0000	<2.0	15.5000	245000.00	<0.04	17.30	0.221	1120.00	120000.000	<2.0	66.00	1710.000	<0.4	<1.0	2640	0.3000	7180.00	<10.0	4060.00	<10.0	1.80	8.4000	<10.0	839000.000	<1.0
X23	4/27/2010	0.7700	34500.00	70.50	11.000	<50.0	12.70	<1.0	385.00	685.00	1310.0000	48.00	4860.0000	346000.00	0.09	9.04	0.181	609.00	78300.000	<1.0	32.00	1500.000	890.0000	0.70	1970	0.8000	12300.00	<5.0	2420.00	<5.0	2.56	46.6000	<5.0	850000.000	2.20

NB: Metals reported in mg/L are shaded in gray.

Table C-5: Rose Creek Drainage Water Quality
2010 - Seepage Water - Dissolved Metals

		Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	Hg-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	S-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
Station	**Date**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X23	**5/6/2010**	0.2800	16.00	<0.4	17.000	<200.0	<0.4	<4.0	525.00	99.10	1280.0000	<4.0	1.8000	211000.00		17.80	0.202	964.00	96700.000	<4.0	63.50	1350.000	<0.8	<2.0	2350	<0.4	8200.00	<20.0	4090.00	<20.0	1.40	15.2000	<20.0	625000.000	<2.0
X23	**6/10/2010**	0.4000	<30.0	<1.0	18.000	<500.0	<1.0	<10.0	493.00	105.00	1370.0000	<10.0	5.0000	187000.00	<0.2	18.50	0.201	1130.00	106000.000	<10.0	69.10	1450.000	<2.0	<5.0	2600	<1.0	8350.00	<50.0	4450.00	<50.0	1.80	11.0000	<50.0	642000.000	<5.0
X23	**7/10/2010**	0.6100	<10.0	<0.4	16.000	<200.0	<0.4	<4.0	494.00	100.00	1410.0000	<4.0	5.2000	180000.00		19.50	0.206	1040.00	113000.000	<4.0	67.90	1490.000	0.9000	<2.0	2690	<0.4	8260.00	<20.0	4310.00	<20.0	1.90	9.0000	<20.0	645000.000	<2.0
X23	**8/5/2010**	0.6000	<30.0	<1.0	16.000	<500.0	<1.0	<10.0	487.00	92.60	1350.0000	<10.0	5.0000	170000.00		18.00	0.195	1070.00	109000.000	<10.0	64.40	1480.000	<2.0	<5.0	2630	<1.0	7770.00	<50.0	3950.00	<50.0	1.60	12.0000	<50.0	693000.000	<5.0
X23	**9/2/2010**	0.4000	33.00	<1.0	18.000	<500.0	<1.0	<10.0	433.00	89.40	1410.0000	<10.0	9.0000	163000.00		19.20	0.215	1110.00	114000.000	<10.0	71.00	1530.000	6.0000	<5.0	2630	<1.0	7510.00	<50.0	4190.00	<50.0	1.80	12.0000	<50.0	711000.000	<5.0
X23	**10/7/2010**	0.4500	<6.0	0.30	15.000	<100.0	<0.2	<2.0	484.00	79.10	1500.0000	<2.0	3.5000	166000.00		18.10	0.201	1070.00	111000.000	3.00	66.00	1550.000	<0.4	<1.0	2360	<0.2	7190.00	<10.0	4320.00	<10.0	1.70	11.2000	<10.0	655000.000	<1.0
X23	**11/4/2010**	0.5000	<60.0	<2.0	<20.0	<1000.0	<2.0	<20.0	500.00	75.70	1310.0000	<20.0	6.0000	177000.00	<0.4	18.00	0.223	1100.00	105000.000	<20.0	71.00	1410.000	<4.0	<10.0	2470	<2.0	8340.00	<100.0	4140.00	<100.0	2.00	13.0000	<100.0	665000.000	<10.0
X23 Average		0.5189	3846.67	8.24	15.111	175.00	1.76	3.50	478.67	165.54	1394.4444	8.78	545.6667	205000.00	0.10	17.27	0.205	1023.67	105888.889	3.72	63.43	1496.667	100.1889	1.80	2482	0.4556	8344.44	17.50	3992.22	17.50	1.84	15.3778	17.50	702777.778	1.97
X23 Max		0.7700	34500.00	70.50	<20.0	<1,000.0	12.70	<20.0	525.00	685.00	1610.0000	48.00	4860.0000	346000.00	<0.4	19.50	0.223	1130.00	120000.000	<20.0	71.00	1710.000	890.0000	<10.0	2690	<2.0	12300.00	<100.0	4450.00	<100.0	2.56	46.6000	<100.0	850000.000	<10.0
X23 Min		0.2800	<6.0	0.30	11.000	<50.0	<0.2	<1.0	385.00	75.70	1280.0000	<2.0	1.8000	163000.00	<0.04	9.04	0.181	609.00	78300.000	<1.0	32.00	1350.000	<0.4	0.70	1970	<0.2	7180.00	<5.0	2420.00	<5.0	1.40	8.4000	<5.0	625000.000	<1.0
X23 N > DL		9	3	3	8	0	1	0	9	9	9	1	9	9	1	9	9	9	9	1	9	9	3	1	9	2	9	0	9	0	9	9	0	9	1
X23 Median		0.5000	<30.0	<1.0	16.000	<200.0	<1.0	<4.0	493.00	99.10	1370.0000	<10.0	5.2000	180000.00	0.10	18.00	0.202	1070.00	109000.000	<4.0	66.00	1490.000	<2.0	<2.0	2600	0.8000	8200.00	<20.0	4140.00	<20.0	1.80	12.0000	<20.0	665000.000	2.20

NB: Metals reported in mg/L are shaded in gray.

Table C-6: Rose Creek Drainage Water Quality
2010 - Groundwater - General Parameters

Station	Date	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3-d mg/L	Chloride mg/L	CO3 mg/L	COND µmho/cm	CONDF µmho/cm	FLOW L/s	HCO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TEMP-F °C	TSS mg/L
BH10A	**9/16/2010**	<0.5	170	230.00	<0.5	346	2.30	<0.5	795.0	826.3		280.00	<0.5	6.4	5.7	160.0	5	8
BH10B	**9/16/2010**	<0.5	289	380.00	<0.5	539	1.40	<0.5	1070.0	1010.0		460.00	<0.5	6.3	5.5	190.0	4	21
BH13B	**9/21/2010**			82.00	<0.5	745		<0.5	1290.0	984.0		100.00	<0.5	7.5	8.3	560.0	9	
BH14A	**6/11/2010**	<0.5	75	440.00	<0.5	2970	12.00	<0.5	4000.0	3413.0		530.00	<0.5	7.8	6.8	2600.0	8	130
BH14A	**9/21/2010**	<0.5	75	430.00	<0.5	2760	11.00	<0.5	3880.0	2594.0		520.00	<0.5	7.6	7.0	2200.0	5	160
BH14A Average		0	75	435.00	0	2865	11.50	0.25	3940.0	3003.5		525.00	0	7.7	6.9	2400.0	7	145
BH14A N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
BH14B	**6/11/2010**	<0.5	59	420.00	<0.5	3010	12.00	<0.5	4010.0	3508.0		510.00	<0.5	7.6	6.8	2600.0	5	1300
BH14B	**9/21/2010**	<0.5	62	450.00	<0.5	2960	11.00	<0.5	4020.0	2702.0		550.00	<0.5	7.6	7.3	2400.0	5	150
BH14B Average		0	60	435.00	0	2985	11.50	0.25	4015.0	3105.0		530.00	0	7.6	7.0	2500.0	5	725
BH14B N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
BH5	**9/16/2010**	<0.5	243	230.00	<0.5	297	1.40	<0.5	667.0	710.2		280.00	<0.5	6.2	5.6	130.0	6	1800
BH6	**9/16/2010**	<0.5	31	110.00	<0.5	181	<0.5	<0.5	413.0	450.8		140.00	<0.5	7.2	6.1	95.0	4	290
BH8	**9/18/2010**	<0.5	1320	<0.5	<0.5	1560	<0.5	<0.5	3830.0	3828.0		<0.5	<0.5	4.1	4.4	3100.0	7	170
P01-01A	**6/6/2010**	<0.5	26	280.00	<0.5	1120	1.30	<0.5	1700.0	1019.0		340.00	<0.5	8.0	6.4	770.0	3	<1.0
P01-01A	**9/8/2010**	<0.5	26	290.00	<0.5	1100	1.50	<0.5	1960.0	1660.0		360.00	<0.5	7.5	8.2	880.0	8	2
P01-01A Average		0	26	285.00	0	1110	1.40	0.25	1830.0	1339.5		350.00	0	7.8	7.3	825.0	5	1
P01-01A N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	1
P01-01B	**6/6/2010**	<0.5	15	240.00	<0.5	782	1.20	<0.5	1230.0	920.0		300.00	<0.5	8.1	6.4	480.0	5	10
P01-01B	**9/8/2010**	<0.5	15	260.00	<0.5	766	1.10	<0.5	1340.0	1131.0		310.00	<0.5	7.6	7.3	490.0	8	2
P01-01B Average		0	15	250.00	0	774	1.15	0.25	1285.0	1025.5		305.00	0	7.8	6.8	485.0	6	6
P01-01B N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P01-02A	**6/6/2010**	<0.5	8	220.00	<0.5	432	<0.5	<0.5	697.0	817.0		270.00	<0.5	8.0	7.4	170.0	6	3
P01-02A	**9/8/2010**	<0.5	3	260.00	<0.5	423	<0.5	<0.5	794.0	830.0		310.00	<0.5	8.0	7.4	180.0	6	24
P01-02A Average		0	6	240.00	0	428	0.25	0.25	745.5	823.5		290.00	0	8.0	7.4	175.0	6	14
P01-02A N > DL		0	2	2	0	2	0	0	2	2	0	2	0	2	2	2	2	2
P01-02B	**6/6/2010**	<0.5	5	200.00	<0.5	312	<0.5	<0.5	512.0	530.0		240.00	<0.5	8.2	7.5	100.0	5	33
P01-02B	**9/8/2010**	<0.5	6	220.00	<0.5	285	<0.5	<0.5	562.0	610.0		270.00	<0.5	7.9	7.5	83.0	6	33
P01-02B Average		0	5	210.00	0	299	0.25	0.25	537.0	570.0		255.00	0	8.1	7.5	91.5	6	33
P01-02B N > DL		0	2	2	0	2	0	0	2	2	0	2	0	2	2	2	2	2
P01-03	**6/7/2010**	<0.5	86	370.00	<0.5	2490	3.20	<0.5	3620.0	3450.0		450.00	<0.5	7.4	6.4	2600.0	6	9
P01-03	**9/9/2010**	<0.5	90	370.00	<0.5	2380	3.30	<0.5	3680.0	3890.0		450.00	<0.5	6.7	6.2	1900.0	5	920
P01-03 Average		0	88	370.00	0	2435	3.25	0.25	3650.0	3670.0		450.00	0	7.1	6.3	2250.0	5	465
P01-03 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P01-04A	**6/7/2010**	<0.5	37	580.00	<0.5	495	6.30	<0.5	1050.0	1010.0		700.00	<0.5	7.8	6.8	40.0	7	2
P01-04A	**9/9/2010**	<0.5	40	590.00	<0.5	454	6.20	<0.5	1140.0	1230.0		720.00	<0.5	7.3	7.0	44.0	6	2
P01-04A Average		0	39	585.00	0	475	6.25	0.25	1095.0	1120.0		710.00	0	7.5	6.9	42.0	7	2
P01-04A N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P01-04B	**9/9/2010**	<0.5	26	340.00	<0.5	1160	1.00	<0.5	2060.0	2200.0		420.00	<0.5	7.3	6.9	930.0	5	19
P01-11	**6/6/2010**	<0.5	54	330.00	<0.5	1910	2.60	<0.5	2760.0	3020.0		410.00	<0.5	7.6	6.9	1400.0	6	68
P01-11	**9/8/2010**	<0.5	53	350.00	<0.5	1750	2.70	<0.5	2880.0	3280.0		430.00	<0.5	7.2	6.7	1500.0	8	190
P01-11 Average		0	53	340.00	0	1830	2.65	0.25	2820.0	3150.0		420.00	0	7.4	6.8	1450.0	7	129
P01-11 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P03-01-2	**9/21/2010**	<0.5	2	210.00	3	214	<0.5	4.10	409.0	441.4		240.00	<0.5	8.4	7.3	22.0	5	2
P03-01-4	**9/21/2010**	<0.5	29	34.00	<0.5	55	<0.5	<0.5	167.0	175.7		41.00	<0.5	6.9	6.9	43.0	5	6
P03-01-6	**9/21/2010**	<0.5	370	4.80	<0.5	215	0.90	<0.5	1110.0	1157.0		5.80	<0.5	5.8	6.6	620.0	7	430
P03-01-8	**9/21/2010**	145	21700	<0.5	<0.5	3390	<5.0	<0.5	22100.0	15510.0		<0.5	<0.5	3.5	6.1	29000.0	6	480
P03-03-2	**9/21/2010**	6	1390	<0.5	<0.5	434	0.80	<0.5	2750.0	2595.0		<0.5	<0.5	4.2	5.4	1900.0	6	11
P03-03-4	**9/21/2010**	<0.5	431	23.00	<0.5	613	0.80	<0.5	1650.0	1664.0		28.00	<0.5	6.2	6.1	930.0	5	19

Table C-6: Rose Creek Drainage Water Quality
2010 - Groundwater - General Parameters

Station	Date	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3-d mg/L	Chloride mg/L	CO3 mg/L	COND µmho/cm	CONDF µmho/cm	FLOW L/s	HCO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TEMP-F °C	TSS mg/L
P03-03-6	**9/21/2010**	<0.5	3650	<0.5	<0.5	1500	<0.5	<0.5	6410.0	28.7		<0.5	<0.5	4.8	6.4	6500.0	6	160
P03-04-2	**9/20/2010**	<0.5	38	130.00	<0.5	821	1.30	<0.5	1510.0	1294.0		160.00	<0.5	7.2	6.8	750.0	6	83
P03-04-4	**9/20/2010**	<0.5	36	210.00	<0.5	544	1.20	<0.5	1300.0	1249.0		260.00	<0.5	7.4	7.4	480.0	6	210
P03-04-6	**9/20/2010**	<0.5	2900	<0.5	<0.5	1760	0.60	<0.5	5440.0	5926.0		<0.5	<0.5	6.2	7.0	5200.0	6	130
P03-04-8	**9/20/2010**	16	5660	<0.5	<0.5	1400	<0.5	<0.5	8100.0	8162.0		<0.5	<0.5	3.9	6.3	9000.0	5	2400
P03-05-2	**9/22/2010**	<0.5	91	90.00	<0.5	758	3.50	<0.5	1480.0	1563.0		110.00	<0.5	6.9	6.8	860.0	4	11
P03-05-4	**9/22/2010**	<0.5	52	120.00	<0.5	658	<0.5	<0.5	1250.0	1258.0		150.00	<0.5	7.3	7.0	620.0	4	7
P03-05-6	**9/22/2010**	<0.5	839	<0.5	<0.5	2140	1.60	<0.5	4790.0	4428.0		<0.5	<0.5	4.6	6.7	3500.0	4	74
P03-06-1	**6/14/2010**	<0.5	214	56.00	<0.5	2370	2.00	<0.5	3850.0	3875.0		69.00	<0.5	6.2	5.4	3100.0	10	320
P03-06-1	**9/22/2010**	<0.5	532	82.00	<0.5	2450	5.10	<0.5	3900.0	3352.0		100.00	<0.5	6.1	6.2	2900.0	4	69
P03-06-1 Average		0	373	69.00	0	2410	3.55	0.25	3875.0	3613.5		84.50	0	6.1	5.8	3000.0	7	195
P03-06-1 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P03-06-2	**6/14/2010**	71	700	<0.5	<0.5	1980	2.90	<0.5	4000.0	4105.0		<0.5	<0.5	4.2	5.3	3200.0	7	910
P03-06-2	**9/22/2010**	<0.5	835	46.00	<0.5	2280	1.80	<0.5	3910.0	3365.0		56.00	<0.5	5.8	6.1	3000.0	4	280
P03-06-2 Average		36	768	23.13	0	2130	2.35	0.25	3955.0	3858.3		28.13	0	5.0	5.6	3100.0	6	595
P03-06-2 N > DL		1	2	1	0	2	2	0	2	3	0	1	0	2	3	2	3	2
P03-06-3	**6/14/2010**	7	1600	<0.5	<0.5	1690	4.40	<0.5	4530.0	4611.0		<0.5	<0.5	4.3	5.4	4200.0	6	2400
P03-06-3	**9/22/2010**	<0.5	2050	31.00	<0.5	1740	4.20	<0.5	4640.0	3824.0		38.00	<0.5	5.5	6.2	4100.0	4	140
P03-06-3 Average		3	1825	15.63	0	1715	4.30	0.25	4585.0	4217.5		19.13	0	4.9	5.8	4150.0	5	1270
P03-06-3 N > DL		1	2	1	0	2	2	0	2	2	0	1	0	2	2	2	2	2
P03-06-4	**6/14/2010**	<0.5	269	23.00	<0.5	1160	3.50	<0.5	2210.0	2515.0		28.00	<0.5	5.6	6.2	1400.0	10	980
P03-06-4	**9/22/2010**	<0.5	642	91.00	<0.5	1300	3.60	<0.5	2600.0	2516.0		110.00	<0.5	6.2	6.7	1700.0	4	300
P03-06-4 Average		0	456	57.00	0	1230	3.55	0.25	2405.0	2515.5		69.00	0	5.9	6.4	1550.0	7	640
P03-06-4 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P03-06-5	**6/14/2010**	<0.5	313	2.60	<0.5	494	2.80	<0.5	1370.0	1761.0		3.10	<0.5	5.2	6.4	840.0	10	910
P03-06-5	**9/22/2010**	<0.5	827	43.00	<0.5	2700	5.60	<0.5	3570.0	2933.0		53.00	<0.5	6.0	6.9	2800.0	3	900
P03-06-5 Average		0	570	22.80	0	1597	4.20	0.25	2470.0	2347.0		28.05	0	5.6	6.7	1820.0	7	905
P03-06-5 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P03-08-2	**9/20/2010**	<0.5	23	250.00	<0.5	347	<0.5	<0.5	678.0	732.0		300.00	<0.5	7.7	8.2	110.0	5	8
P03-08-4	**9/20/2010**	<0.5	43	310.00	<0.5	633	1.10	<0.5	1260.0	1327.0		380.00	<0.5	7.4	7.1	390.0	7	1900
P03-08-6	**9/20/2010**	<0.5	3	25.00	<0.5	198	5.30	<0.5	948.0	924.0		30.00	<0.5	7.2	7.5	390.0	6	270
P03-08-7	**9/20/2010**	<0.5	2	77.00	<0.5	52	6.90	<0.5	612.0	569.0		94.00	<0.5	7.9	7.9	180.0	6	42
P03-09-2	**9/13/2010**	<0.5	26	320.00	<0.5	691	2.60	<0.5	1300.0	1430.0		390.00	<0.5	7.9	7.0	410.0	6	10
P03-09-4	**9/13/2010**	<0.5	21	280.00	<0.5	858	0.90	<0.5	1550.0	1670.0		340.00	<0.5	7.8	7.0	610.0	5	5
P03-09-6	**9/13/2010**	<0.5	23	290.00	<0.5	948	1.20	<0.5	1670.0	1822.0		350.00	<0.5	7.8	6.9	690.0	6	10
P03-09-8	**9/13/2010**	<0.5	23	290.00	<0.5	956	1.30	<0.5	1700.0	1748.0		350.00	<0.5	7.8	7.0	720.0	6	9
P03-09-9	**9/13/2010**	<0.5	22	280.00	<0.5	944	1.30	<0.5	1670.0	1811.0		350.00	<0.5	7.8	6.9	680.0	5	200
P05-01-1	**9/9/2010**	<0.5	52	370.00	<0.5	1720	2.30	<0.5	2790.0	2990.0		450.00	<0.5	7.0	6.6	1500.0	5	23
P05-01-2	**9/9/2010**	<0.5	56	350.00	<0.5	1780	2.20	<0.5	2820.0	3103.0		430.00	<0.5	7.0	6.7	1500.0	3	36
P05-01-3	**9/9/2010**	<0.5	57	360.00	<0.5	1770	2.10	<0.5	2790.0	3063.0		440.00	<0.5	7.0	6.6	1500.0	5	49
P05-01-4	**9/9/2010**	<0.5	43	340.00	<0.5	1690	2.00	<0.5	2770.0	2972.0		420.00	<0.5	7.0	6.6	1500.0	6	930
P05-01-5	**9/9/2010**	<0.5	34	290.00	<0.5	1410	1.60	<0.5	2400.0	2586.0		350.00	<0.5	7.1	6.7	1300.0	5	20
P05-01-6	**9/9/2010**	<0.5	38	300.00	<0.5	1550	1.70	<0.5	2510.0	2655.0		370.00	<0.5	7.1	6.6	1300.0	7	280
P05-02	**6/6/2010**	<0.5	53	370.00	<0.5	1780	2.30	<0.5	2720.0	2552.0		450.00	<0.5	7.5	6.5	1400.0	4	110
P05-02	**9/8/2010**	<0.5	36	360.00	<0.5	1550	1.90	<0.5	2630.0	2910.0		440.00	<0.5	7.1	6.6	1400.0	10	370
P05-02 Average		0	44	365.00	0	1665	2.10	0.25	2675.0	2731.0		445.00	0	7.3	6.5	1400.0	7	240
P05-02 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P05-03	**6/8/2010**	<0.5	30	300.00	<0.5	982	1.60	<0.5	1610.0	1598.0		360.00	<0.5	8.1	6.9	730.0	6	20
P05-03	**9/8/2010**	<0.5	18	290.00	<0.5	799	1.10	<0.5	1520.0	1640.0		350.00	<0.5	7.4	7.0	610.0	7	96

Table C-6: Rose Creek Drainage Water Quality
2010 - Groundwater - General Parameters

Station	Date	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3-d mg/L	Chloride mg/L	CO3 mg/L	COND µmho/cm	CONDF µmho/cm	FLOW L/s	HCO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TEMP-F °C	TSS mg/L
P05-03 Average		0	24	295.00	0	891	1.35	0.25	1565.0	1619.0		355.00	0	7.8	7.0	670.0	7	58
P05-03 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P05-04	**9/16/2010**	<0.5	32	140.00	<0.5	185	0.90	<0.5	383.0	366.9		170.00	<0.5	7.4	6.1	58.0	4	110
P09-C1	**6/7/2010**	<0.5	45	410.00	<0.5	1590	2.80	<0.5	2510.0	2609.0		500.00	<0.5	7.6	6.6	1200.0	6	64
P09-C1	**9/15/2010**	<0.5	38	410.00	<0.5	1350	2.80	<0.5	2630.0	2560.0		510.00	<0.5	7.8	6.6	1200.0	8	54
P09-C1 Average		0	42	410.00	0	1470	2.80	0.25	2570.0	2584.5		505.00	0	7.7	6.6	1200.0	7	59
P09-C1 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P09-C2	**6/8/2010**	<0.5	156	1700.00	<0.5	1040	25.00	<0.5	2670.0	2620.0		2100.00	<0.5	7.0	6.3	0.7	11	15
P09-C2	**9/15/2010**	<0.5	198	1700.00	<0.5	965	23.00	<0.5	2770.0	2726.0		2000.00	<0.5	7.1	6.1	13.0	6	29
P09-C2 Average		0	177	1700.00	0	1003	24.00	0.25	2720.0	2673.0		2050.00	0	7.1	6.2	6.9	8	22
P09-C2 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P09-C3	**6/8/2010**	<0.5	42	540.00	<0.5	498	5.40	<0.5	1070.0	1087.0		650.00	<0.5	7.8	6.5	94.0	6	5
P09-C3	**9/15/2010**	<0.5	42	520.00	<0.5	524	4.50	<0.5	1070.0	1070.0		630.00	<0.5	7.8	6.5	89.0	5	120
P09-C3 Average		0	42	530.00	0	511	4.95	0.25	1070.0	1078.5		640.00	0	7.8	6.5	91.5	6	63
P09-C3 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P09-ETA1	**9/16/2010**	<0.5	6	190.00	<0.5	188	0.50	<0.5	421.0	440.2		230.00	<0.5	7.9	7.6	31.0	4	250
P09-ETA2	**9/15/2010**	<0.5	333	140.00	<0.5	3710	15.00	<0.5	5190.0	5390.0		170.00	<0.5	6.7	6.3	4500.0	11	120
P09-SIS1	**7/25/2010**	<0.5	1090	170.00	<0.5	8020	5.70	<0.5	9670.0	9050.0		210.00	<0.5	6.7	6.2	11000.0	7	1500
P09-SIS1	**11/2/2010**	<0.5	462	300.00	<0.5	7950	5.30	<0.5	8110.0	>3999.0		360.00	<0.5	7.2	6.3	7800.0	4	3900
P09-SIS1 Average		0	776	235.00	0	7985	5.50	0.25	8890.0	6524.5		285.00	0	7.0	6.2	9400.0	6	2700
P09-SIS1 N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P09-SIS2	**6/9/2010**	<0.5	992	160.00	<0.5	9130	6.10	<0.5	9950.0	>3999.0		200.00	<0.5	6.9	5.8	11000.0	7	120
P09-SIS2	**7/24/2010**	<0.5	1070	180.00	<0.5	6990	<50.0	<0.5	8730.0	9180.0		220.00	<0.5	6.6	6.2	8400.0	7	3300
P09-SIS2	**9/13/2010**	<0.5	830	200.00	<0.5	7800	5.90	<0.5	9190.0	9480.0		240.00	<0.5	7.0	5.8	9700.0	10	1500
P09-SIS2	**11/2/2010**	<0.5	917	190.00	<0.5	7270	6.40	<0.5	9340.0	>3999.0		230.00	<0.5	6.9	6.1	8800.0	6	1500
P09-SIS2 Average		0	952	182.50	0	7798	10.85	0.25	9302.5	6664.5		222.50	0	6.9	6.0	9475.0	8	1605
P09-SIS2 Max		<0.5	1070	200.00	<0.5	9130	<50.0	<0.5	9950.0	9480.0		240.00	<0.5	7.0	6.2	11000.0	10	3300
P09-SIS2 Min		<0.5	830	160.00	<0.5	6990	5.90	<0.5	8730.0	3999.0		200.00	<0.5	6.6	5.8	8400.0	6	120
P09-SIS2 N > DL		0	4	4	0	4	3	0	4	4	0	4	0	4	4	4	4	4
P09-SIS2 Median		<0.5	955	185.00	<0.5	7535	6.25	<0.5	9265.0	6589.5		225.00	<0.5	6.9	6.0	9250.0	7	1500
P09-SIS3	**6/9/2010**	<0.5	1160	180.00	<0.5	8010	6.30	<0.5	10000.0	>3999.0		220.00	<0.5	6.9	6.0	11000.0	8	480
P09-SIS3	**7/24/2010**	<0.5	860	170.00	<0.5	5820	4.90	<0.5	7720.0	4160.0		210.00	<0.5	6.7	8.3	7200.0	5	1600
P09-SIS3	**9/14/2010**	<0.5	913	190.00	<0.5	7850	6.20	<0.5	9500.0	9580.0		230.00	<0.5	7.0	6.1	9500.0	8	1300
P09-SIS3	**11/2/2010**	<0.5	908	180.00	<0.5	7140	6.60	<0.5	9020.0	>3999.0		220.00	<0.5	7.0	6.2	9300.0	4	2600
P09-SIS3 Average		0	960	180.00	0	7205	6.00	0.25	9060.0	5434.5		220.00	0	6.9	6.7	9250.0	6	1495
P09-SIS3 Max		<0.5	1160	190.00	<0.5	8010	6.60	<0.5	10000.0	9580.0		230.00	<0.5	7.0	8.3	11000.0	8	2600
P09-SIS3 Min		<0.5	860	170.00	<0.5	5820	4.90	<0.5	7720.0	3999.0		210.00	<0.5	6.7	6.0	7200.0	4	480
P09-SIS3 N > DL		0	4	4	0	4	4	0	4	4	0	4	0	4	4	4	4	4
P09-SIS3 Median		<0.5	911	180.00	<0.5	7495	6.25	<0.5	9260.0	4079.5		220.00	<0.5	7.0	6.1	9400.0	7	1450
P96-6	**6/15/2010**	<0.5	44	320.00	<0.5	724	0.70	<0.5	1170.0	1140.0		390.00	<0.5	7.6	6.4	350.0	3	300
P96-6	**9/21/2010**	<0.5	55	290.00	<0.5	837	<0.5	<0.5	1350.0	1010.0		350.00	<0.5	7.3	7.1	480.0	8	180
P96-6 Average		0	49	305.00	0	781	0.48	0.25	1260.0	1096.7		370.00	0	7.4	6.6	415.0	5	240
P96-6 N > DL		0	2	2	0	2	1	0	2	3	0	2	0	2	3	2	3	2
P96-7	**6/11/2010**	<0.5	26	230.00	<0.5	2290	0.70	<0.5	3090.0	2644.0		280.00	<0.5	7.9	7.5	1900.0	16	1600
P96-7	**9/14/2010**	<0.5	24	210.00	<0.5	2480	<0.5	<0.5	3310.0	3570.0		250.00	<0.5	7.8	7.2	2400.0	5	420
P96-7 Average		0	25	220.00	0	2385	0.48	0.25	3200.0	3107.0		265.00	0	7.9	7.4	2150.0	11	1010
P96-7 N > DL		0	2	2	0	2	1	0	2	2	0	2	0	2	2	2	2	2

Denison Environmental Services

Table C-6: Rose Creek Drainage Water Quality
2010 - Groundwater - General Parameters

Faro Mine Closure

Station	Date	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3-d mg/L	Chloride mg/L	CO3 mg/L	COND µmho/cm	CONDF µmho/cm	FLOW L/s	HCO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TEMP-F °C	TSS mg/L
P96-8A	**6/9/2010**	<0.5	922	48.00	<0.5	6210	13.00	<0.5	7780.0	>3999.0		59.00	<0.5	5.9	5.1	7300.0	8	31
P96-8A	**9/14/2010**	<0.5	802	110.00	<0.5	6040	10.00	<0.5	7780.0	>3999.0		140.00	<0.5	6.3	5.1	6800.0	10	11
P96-8A Average		0	862	79.00	0	6125	11.50	0.25	7780.0	3999.0		99.50	0	6.1	5.1	7050.0	9	21
P96-8A N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
P96-8B	**6/9/2010**	<0.5	1060	<0.5	<0.5	5490	13.00	<0.5	7380.0	>3999.0		<0.5	<0.5	4.8	4.3	6800.0	8	4
P96-8B	**9/15/2010**	<0.5	912	<0.5	<0.5	5420	13.00	<0.5	7540.0	7630.0		<0.5	<0.5	4.7	4.6	7300.0	11	20
P96-8B Average		0	986	0.25	0	5455	13.00	0.25	7460.0	5814.5		0.25	0	4.8	4.4	7050.0	10	12
P96-8B N > DL		0	2	0	0	2	2	0	2	2	0	0	0	2	2	2	2	2
S1A	**6/9/2010**	<0.5	21	62.00	<0.5	323	0.60	<0.5	656.0	561.0		75.00	<0.5	6.9	6.5	250.0	5	2
S1A	**9/14/2010**	<0.5	18	69.00	<0.5	138	<0.5	<0.5	332.0	302.0		84.00	<0.5	7.1	7.3	100.0	6	520
S1A Average		0	19	65.50	0	231	0.43	0.25	494.0	431.5		79.50	0	7.0	6.9	175.0	5	261
S1A N > DL		0	2	2	0	2	1	0	2	2	0	2	0	2	2	2	2	2
S2A	**6/9/2010**	<0.5	120	410.00	<0.5	854	1.70	<0.5	1470.0	1238.0		510.00	<0.5	7.0	5.8	520.0	4	1200
S2A	**9/14/2010**	<0.5	166	380.00	<0.5	793	1.90	<0.5	1370.0	1226.0		470.00	<0.5	6.7	6.1	380.0	6	320
S2A Average		0	143	395.00	0	824	1.80	0.25	1420.0	1232.0		490.00	0	6.9	5.9	450.0	5	760
S2A N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
S2B	**9/14/2010**	<0.5	606	170.00	<0.5	6630	5.30	<0.5	8000.0	>3999.0		210.00	<0.5	6.9	6.1	7700.0	7	560
SRK04-3A	**9/22/2010**			54.00	<0.5	5140		<0.5	8130.0	8172.0		65.00	<0.5	5.7	5.2	8800.0	8	
SRK05-ETA-BR1	**9/22/2010**			78.00	<0.5	4120		<0.5	7370.0	7350.0		95.00	<0.5	5.8	5.2	7300.0	5	
SRK05-ETA-BR2	**9/22/2010**			100.00	<0.5	1590		<0.5	2660.0	2845.0		120.00	<0.5	6.8	6.5	1600.0	5	
SRK05-SP1A	**9/14/2010**			240.00	<0.5	903		<0.5	1700.0	1790.0		290.00	<0.5	6.3	5.5	770.0	5	
SRK05-SP1B	**9/14/2010**			340.00	<0.5	540		<0.5	996.0	1050.0		410.00	<0.5	7.4	6.3	170.0	7	
SRK05-SP2	**9/14/2010**			150.00	<0.5	185		<0.5	379.0	370.0		190.00	<0.5	7.2	6.4	42.0	4	
SRK05-SP3A	**9/14/2010**			290.00	<0.5	779		<0.5	1410.0	1430.0		360.00	<0.5	6.6	5.7	490.0	3	
SRK05-SP3B	**9/14/2010**			290.00	<0.5	616		<0.5	1190.0	1330.0		360.00	<0.5	6.5	6.0	320.0	3	
SRK05-SP4A	**6/9/2010**	<0.5	129	300.00	<0.5	527	1.70	<0.5	1040.0	872.0		370.00	<0.5	6.7	5.7	270.0	11	12
SRK05-SP4A	**9/13/2010**	<0.5	159	320.00	<0.5	544	2.70	<0.5	1080.0	119.0		390.00	<0.5	6.7	5.9	240.0	6	4
SRK05-SP4A Average		0	144	310.00	0	536	2.20	0.25	1060.0	495.5		380.00	0	6.7	5.8	255.0	9	8
SRK05-SP4A N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
SRK05-SP5	**9/14/2010**	<0.5	542	260.00	<0.5	4470	4.10	<0.5	6260.0	6060.0		320.00	<0.5	6.8	5.9	5300.0	6	120
SRK08-P10A	**6/9/2010**	<0.5	84	530.00	<0.5	2250	130.00	<0.5	3630.0	3012.0		650.00	<0.5	7.4	6.3	1700.0	5	1300
SRK08-P11A	**6/9/2010**	<0.5	12	170.00	<0.5	427	<0.5	<0.5	764.0	623.0		210.00	<0.5	7.9	7.1	260.0	5	4
SRK08-P11A	**9/15/2010**	<0.5	7	170.00	<0.5	431	<0.5	<0.5	770.0	860.0		210.00	<0.5	7.9	6.8	240.0	4	110
SRK08-P11A Average		0	10	170.00	0	429	0.25	0.25	767.0	741.5		210.00	0	7.9	7.0	250.0	5	57
SRK08-P11A N > DL		0	2	2	0	2	0	0	2	2	0	2	0	2	2	2	2	2
SRK08-P11B	**6/9/2010**	<0.5	15	150.00	<0.5	523	<0.5	<0.5	928.0	767.0		180.00	<0.5	8.1	6.9	370.0	4	6
SRK08-P11B	**9/15/2010**	<0.5	14	170.00	<0.5	664	<0.5	<0.5	1180.0	1370.0		200.00	<0.5	7.8	6.5	480.0	6	30
SRK08-P11B Average		0	14	160.00	0	594	0.25	0.25	1054.0	1068.5		190.00	0	8.0	6.7	425.0	5	18
SRK08-P11B N > DL		0	2	2	0	2	0	0	2	2	0	2	0	2	2	2	2	2
SRK08-P12A	**9/16/2010**	<0.5	311	560.00	<0.5	635	0.90	<0.5	1240.0	1135.0		680.00	<0.5	6.5	5.7	130.0	4	41
SRK08-P12B	**9/16/2010**	<0.5	214	400.00	<0.5	466	<0.5	<0.5	889.0	965.7		480.00	<0.5	6.4	5.7	89.0	3	140
SRK08-SBR2	**9/14/2010**	<0.5	173	390.00	<0.5	840	1.60	<0.5	1440.0	1510.0		470.00	<0.5	6.8	5.9	440.0	4	1100
SRK08-SBR3	**9/14/2010**	<0.5	57	670.00	<0.5	1920	0.90	<0.5	2940.0	2407.0		820.00	<0.5	7.6	7.0	1200.0	8	160
SRK08-SBR4	**9/14/2010**	<0.5	87	170.00	<0.5	1700	1.40	<0.5	2440.0	2288.0		210.00	<0.5	7.2	6.4	1300.0	3	850

Denison Environmental Services

Table C-6: Rose Creek Drainage Water Quality
2010 - Groundwater - General Parameters

Faro Mine Closure

Station	Date	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3-d mg/L	Chloride mg/L	CO3 mg/L	COND µmho/cm	CONDF µmho/cm	FLOW L/s	HCO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TEMP-F °C	TSS mg/L
SRK08-SP7A	6/9/2010	<0.5	145	100.00	<0.5	1740	2.50	<0.5	2720.0	2755.0		130.00	<0.5	6.5	5.9	1800.0	4	16
SRK08-SP7A	7/25/2010	<0.5	148	120.00	<0.5	1490	4.80	<0.5	2390.0	2290.0		150.00	<0.5	6.5	6.5	1600.0	5	15
SRK08-SP7A	9/13/2010	<0.5	121	120.00	<0.5	1330	3.60	<0.5	2170.0	2380.0		150.00	<0.5	6.8	6.1	1200.0	6	9
SRK08-SP7A	11/2/2010	<0.5	99	110.00	<0.5	1320	0.80	<0.5	1900.0	1614.0		130.00	<0.5	6.9	6.4	1000.0	3	55
SRK08-SP7A Average		0	128	112.50	0	1470	2.93	0.25	2295.0	2259.8		140.00	0	6.7	6.2	1400.0	5	24
SRK08-SP7A Max		<0.5	148	120.00	<0.5	1740	4.80	<0.5	2720.0	2755.0		150.00	<0.5	6.9	6.5	1800.0	6	55
SRK08-SP7A Min		<0.5	99	100.00	<0.5	1320	0.80	<0.5	1900.0	1614.0		130.00	<0.5	6.5	5.9	1000.0	3	9
SRK08-SP7A N > DL		0	4	4	0	4	4	0	4	4	0	4	0	4	4	4	4	4
SRK08-SP7A Median		<0.5	133	115.00	<0.5	1410	3.05	<0.5	2280.0	2335.0		140.00	<0.5	6.7	6.3	1400.0	5	16
SRK08-SP7B	6/9/2010	<0.5	23	66.00	<0.5	162	<0.5	<0.5	367.0	356.0		80.00	<0.5	7.3	7.0	120.0	2	19
SRK08-SP7B	7/25/2010	<0.5	20	55.00	<0.5	78	<0.5	<0.5	196.0	170.0		67.00	<0.5	6.9	7.4	41.0	170	4
SRK08-SP7B	9/13/2010	<0.5	18	57.00	<0.5	107	<0.5	<0.5	211.0	250.0		70.00	<0.5	7.2	6.8	42.0	7	4
SRK08-SP7B	11/2/2010	<0.5	23	66.00	<0.5	128	<0.5	<0.5	249.0	246.0		80.00	<0.5	7.3	6.8	56.0	4	64
SRK08-SP7B Average		0	21	61.00	0	119	0.25	0.25	255.8	255.5		74.25	0	7.2	7.0	64.8	38	23
SRK08-SP7B Max		<0.5	23	66.00	<0.5	162	<0.5	<0.5	367.0	356.0		80.00	<0.5	7.3	7.4	120.0	170	64
SRK08-SP7B Min		<0.5	18	55.00	<0.5	78	<0.5	<0.5	196.0	170.0		67.00	<0.5	6.9	6.8	41.0	2	4
SRK08-SP7B N > DL		0	4	4	0	4	0	0	4	4	0	4	0	4	4	4	5	4
SRK08-SP7B Median		<0.5	21	61.50	<0.5	118	<0.5	<0.5	230.0	248.0		75.00	<0.5	7.2	6.9	49.0	6	12
SRK08-SP8A	9/13/2010	<0.5	114	320.00	<0.5	1180	3.30	<0.5	1950.0	2250.0		390.00	<0.5	7.0	6.2	860.0	6	21
SRK08-SP8B	9/13/2010	<0.5	96	270.00	<0.5	880	2.70	<0.5	1560.0	1770.0		330.00	<0.5	6.9	6.3	640.0	3	34
SRK08-SPW1	1/6/2010	<0.5	170	350.00	<0.5	704	2.20	<0.5	1240.0	1115.0		420.00	<0.5	6.6	5.8	360.0	2	5
SRK08-SPW1	2/17/2010	<0.5	101	330.00	<0.5	557	2.10	<0.5	1150.0	1070.0		400.00	<0.5	7.1	6.2	250.0	3	9
SRK08-SPW1	3/9/2010	<0.5	170	300.00	<0.5	651	1.80	<0.5	1050.0	1090.0		360.00	<0.5	7.3	6.0	230.0	3	9
SRK08-SPW1	4/13/2010	<0.5	167	310.00	<0.5	517	2.10	<0.5	1080.0	1040.0	0.89	370.00	<0.5	6.8	6.1	280.0	4	37
SRK08-SPW1	5/3/2010	<0.5	51	300.00	<0.5	566	1.40	<0.5	1040.0	945.0	0.51	370.00	<0.5	7.1	6.0	340.0	2	12
SRK08-SPW1	6/13/2010	<0.5	108	270.00	<0.5	577	2.90	<0.5	1070.0	1125.0	0.52	330.00	<0.5	6.5	7.6	280.0	3	17
SRK08-SPW1	7/10/2010	<0.5	148	300.00	<0.5	591	2.20	<0.5	1100.0	1220.0	1.13	370.00	<0.5	6.4	6.0	280.0	4	19
SRK08-SPW1	8/3/2010			310.00	<0.5	579	1.20	<0.5	1080.0	1150.0		380.00	<0.5	6.4	6.4	300.0	3	12
SRK08-SPW1	9/1/2010	<0.5	154	300.00	<0.5	571	1.10	<0.5	1090.0	1360.0	1.12	370.00	<0.5	7.0	6.7	300.0	5	24
SRK08-SPW1	10/7/2010	<0.5	134	290.00	<0.5	589	2.20	<0.5	1060.0	760.0	1.13	360.00	<0.5	6.7	6.5	290.0	3	27
SRK08-SPW1	11/8/2010	<0.5	132	290.00	<0.5	576	1.80	<0.5	1050.0	986.0	1.13	350.00	<0.5	6.8	6.0	280.0	2	20
SRK08-SPW1 Average		0	134	304.55	0	589	1.91	0.25	1091.8	1078.3	0.92	370.91	0	6.8	6.3	290.0	3	17
SRK08-SPW1 Max		<0.5	170	350.00	<0.5	704	2.90	<0.5	1240.0	1360.0	1.13	420.00	<0.5	7.3	7.6	360.0	5	37
SRK08-SPW1 Min		<0.5	51	270.00	<0.5	517	1.10	<0.5	1040.0	760.0	0.51	330.00	<0.5	6.4	5.8	230.0	2	5
SRK08-SPW1 N > DL		0	10	11	0	11	11	0	11	11	7	11	0	11	11	11	11	11
SRK08-SPW1 Median		<0.5	141	300.00	<0.5	577	2.10	<0.5	1080.0	1090.0	1.12	370.00	<0.5	6.8	6.1	280.0	3	17
SRK08-SPW2	1/6/2010	<0.5	334	230.00	<0.5	3910	3.80	<0.5	5140.0	>3999.0		280.00	<0.5	6.7	5.8	4200.0	3	<1.0
SRK08-SPW2	2/17/2010	<0.5	287	220.00	<0.5	3430	6.70	<0.5	4840.0	4310.0		270.00	<0.5	7.2	6.0	3800.0	3	<1.0
SRK08-SPW2	3/9/2010	<0.5	384	220.00	<0.5	3410	3.20	<0.5	4370.0	3970.0		270.00	<0.5	7.3	6.1	3000.0	3	3
SRK08-SPW2	4/13/2010	<0.5	372	230.00	<0.5	2660	3.00	<0.5	4150.0	3960.0	1.28	280.00	<0.5	6.8	6.1	3700.0	4	4
SRK08-SPW2	5/3/2010	<0.5	230	230.00	<0.5	3060	2.90	<0.5	4340.0	3676.0	1.34	290.00	<0.5	7.0	6.3	3400.0	2	3
SRK08-SPW2	6/13/2010	<0.5	281	190.00	<0.5	2820	3.00	<0.5	3900.0	3794.0	1.44	230.00	<0.5	6.7	8.0	2800.0	3	<4.0
SRK08-SPW2	7/10/2010	<0.5	272	220.00	<0.5	2700	2.30	<0.5	3840.0	3587.0	1.42	270.00	<0.5	6.7	6.1	2800.0	3	4
SRK08-SPW2	8/3/2010			220.00	<0.5	2550	2.40	<0.5	3910.0	4390.0		260.00	<0.5	7.0	6.3	2800.0	4	6
SRK08-SPW2	9/1/2010	<0.5	279	210.00	<0.5	2530	2.20	<0.5	3890.0	4160.0	1.41	260.00	<0.5	7.2	6.3	2700.0	3	4
SRK08-SPW2	10/7/2010	<0.5	260	200.00	<0.5	2730	2.50	<0.5	3830.0	2250.0	1.36	240.00	<0.5	6.9	6.3	2700.0	4	6
SRK08-SPW2	11/8/2010	<0.5	266	200.00	<0.5	2460	2.80	<0.5	4000.0	3304.0	1.36	250.00	<0.5	6.9	6.2	2800.0	3	7
SRK08-SPW2	12/1/2010	<0.5	279	210.00	<0.5	2760	3.00	<0.5	4130.0	>3999.0	1.36	250.00	<0.5	6.9	6.4	3000.0	2	2

Table C-6: Rose Creek Drainage Water Quality
2010 - Groundwater - General Parameters

Station	Date	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3-d mg/L	Chloride mg/L	CO3 mg/L	COND µmho/cm	CONDF µmho/cm	FLOW L/s	HCO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TEMP-F °C	TSS mg/L
SRK08-SPW2 Average		0	295	215.00	0	2918	3.15	0.25	4195.0	3783.3	1.37	262.50	0	6.9	6.3	3141.7	3	4
SRK08-SPW2 Max		<0.5	384	230.00	<0.5	3910	6.70	<0.5	5140.0	4390.0	1.44	290.00	<0.5	7.3	8.0	4200.0	4	7
SRK08-SPW2 Min		<0.5	230	190.00	<0.5	2460	2.20	<0.5	3830.0	2250.0	1.28	230.00	<0.5	6.7	5.8	2700.0	2	<1.0
SRK08-SPW2 N > DL		0	11	12	0	12	12	0	12	12	8	12	0	12	12	12	12	9
SRK08-SPW2 Median		<0.5	279	220.00	<0.5	2745	2.95	<0.5	4065.0	3965.0	1.36	265.00	<0.5	6.9	6.2	2900.0	3	3
SRK08-SPW3	1/6/2010	<0.5	489	250.00	<0.5	3970	4.40	<0.5	5390.0	>3999.0		300.00	<0.5	6.7	5.7	4300.0	3	12
SRK08-SPW3	2/17/2010	<0.5	619	210.00	<0.5	4860	5.10	<0.5	6620.0	5800.0		260.00	<0.5	7.2	5.9	5800.0	4	21
SRK08-SPW3	3/9/2010	<0.5	663	230.00	<0.5	4350	3.90	<0.5	5690.0	4820.0		280.00	<0.5	6.9	6.1	4400.0	4	9
SRK08-SPW3	4/13/2010	<0.5	759	210.00	<0.5	4240	4.30	<0.5	6210.0	5860.0	2.69	260.00	<0.5	6.9	6.2	6300.0	8	9
SRK08-SPW3	5/3/2010	<0.5	694	140.00	<0.5	5720	5.10	<0.5	3360.0	>3999.0	5.11	180.00	<0.5	7.3	6.2	7300.0	3	13
SRK08-SPW3	6/13/2010	<0.5	503	170.00	<0.5	4140	4.00	<0.5	5440.0	>3999.0	2.75	210.00	<0.5	6.8	7.8	5100.0	4	11
SRK08-SPW3	7/10/2010	<0.5	377	240.00	<0.5	3050	3.00	<0.5	4160.0	3890.0	2.70	290.00	<0.5	6.5	5.9	3000.0	5	17
SRK08-SPW3	8/3/2010			200.00	<0.5	3770	3.50	<0.5	5510.0	5830.0		240.00	<0.5	6.8	6.1	4700.0	6	14
SRK08-SPW3	9/1/2010	<0.5	403	230.00	<0.5	2840	2.50	<0.5	4220.0	4450.0	2.69	280.00	<0.5	7.0	6.2	3200.0	4	13
SRK08-SPW3	10/7/2010	<0.5	534	200.00	<0.5	4090	3.70	<0.5	5540.0	3360.0	2.55	240.00	<0.5	7.0	6.2	4600.0	5	30
SRK08-SPW3	11/8/2010	<0.5	489	210.00	<0.5	3390	4.00	<0.5	5520.0	>3999.0	2.49	250.00	<0.5	6.8	5.7	4600.0	4	13
SRK08-SPW3	12/1/2010	<0.5	560	200.00	<0.5	4480	4.30	<0.5	5440.0	>3999.0	2.65	250.00	<0.5	6.6	6.1	5100.0	4	8
SRK08-SPW3 Average		0	554	207.50	0	4075	3.98	0.25	5258.3	4500.4	2.95	253.33	0	6.9	6.2	4866.7	4	14
SRK08-SPW3 Max		<0.5	759	250.00	<0.5	5720	5.10	<0.5	6620.0	5860.0	5.11	300.00	<0.5	7.3	7.8	7300.0	8	30
SRK08-SPW3 Min		<0.5	377	140.00	<0.5	2840	2.50	<0.5	3360.0	3360.0	2.49	180.00	<0.5	6.5	5.7	3000.0	3	8
SRK08-SPW3 N > DL		0	11	12	0	12	12	0	12	12	8	12	0	12	12	12	12	12
SRK08-SPW3 Median		<0.5	534	210.00	<0.5	4115	4.00	<0.5	5475.0	>3999.0	2.69	255.00	<0.5	6.9	6.1	4650.0	4	13
TH86-17	9/9/2010			82.00	<0.5	89		<0.5	181.0	190.0		100.00	<0.5	7.6	7.1	14.0	11	
TH86-2	9/13/2010			120.00	<0.5	140		<0.5	289.0	187.0		150.00	<0.5	7.9	8.4	30.0	4	
TH86-5	9/9/2010			430.00	<0.5	416		<0.5	795.0	836.0		530.00	<0.5	7.3	6.9	27.0	7	
X16A	6/7/2010	<0.5	<0.5	170.00	2	202	<0.5	2.30	356.0	340.0		200.00	<0.5	8.3	7.6	32.0	6	<1.0
X16A	9/8/2010	<0.5	4	190.00	<0.5	180	<0.5	<0.5	365.0	337.0		230.00	<0.5	7.8	7.4	23.0	7	<1.0
X16A Average		0	2	180.00	1	191	0.25	1.28	360.5	339.0		215.00	0	8.0	7.5	27.5	6	1
X16A N > DL		0	1	2	1	2	0	1	2	3	0	2	0	2	3	2	3	0
X16B	6/7/2010	<0.5	3	190.00	<0.5	249	<0.5	<0.5	399.0	390.0		240.00	<0.5	8.2	7.8	29.0	6	2
X16B	9/8/2010	<0.5	3	200.00	<0.5	219	<0.5	<0.5	432.0	392.0		240.00	<0.5	7.9	7.5	27.0	6	2
X16B Average		0	3	195.00	0	234	0.25	0.25	415.5	391.0		240.00	0	8.1	7.7	28.0	6	2
X16B N > DL		0	2	2	0	2	0	0	2	2	0	2	0	2	2	2	2	2
X17A	6/8/2010	<0.5	8	280.00	<0.5	360	<0.5	<0.5	573.0	633.0		340.00	<0.5	8.1	7.4	54.0	5	2
X17A	9/8/2010	<0.5	7	230.00	<0.5	280	<0.5	<0.5	517.0	519.0		280.00	<0.5	7.8	7.5	39.0	7	32
X17A Average		0	7	255.00	0	320	0.25	0.25	545.0	576.0		310.00	0	8.0	7.4	46.5	6	17
X17A N > DL		0	2	2	0	2	0	0	2	2	0	2	0	2	2	2	2	2
X17B	6/8/2010	<0.5	23	400.00	<0.5	582	5.80	<0.5	1090.0	1110.0		490.00	<0.5	7.7	6.9	220.0	5	15
X17B	9/8/2010	<0.5	20	390.00	<0.5	440	4.60	<0.5	899.0	801.0		470.00	<0.5	7.5	6.9	89.0	6	14
X17B Average		0	22	395.00	0	511	5.20	0.25	994.5	955.5		480.00	0	7.6	6.9	154.5	6	15
X17B N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
X18A	6/7/2010	<0.5	27	240.00	<0.5	1170	3.10	<0.5	1700.0	1807.0		300.00	<0.5	8.0	6.9	820.0	5	42
X18A	9/8/2010	<0.5	24	240.00	<0.5	943	1.00	<0.5	1500.0	1351.0		290.00	<0.5	7.2	6.9	650.0	5	13
X18A Average		0	25	240.00	0	1057	2.05	0.25	1600.0	1579.0		295.00	0	7.6	6.9	735.0	5	28
X18A N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
X18B	6/7/2010	<0.5	27	270.00	<0.5	1200	1.00	<0.5	1730.0	1727.0		340.00	<0.5	8.1	6.9	810.0	5	<1.0
X18B	9/8/2010	<0.5	18	250.00	<0.5	1000	1.00	<0.5	1650.0	1399.0		300.00	<0.5	7.5	7.0	710.0	5	<1.0
X18B Average		0	22	260.00	0	1100	1.00	0.25	1690.0	1563.0		320.00	0	7.8	6.9	760.0	5	1
X18B N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	0

Table C-6: Rose Creek Drainage Water Quality
2010 - Groundwater - General Parameters

Station	Date	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3-d mg/L	Chloride mg/L	CO3 mg/L	COND µmho/cm	CONDF µmho/cm	FLOW L/s	HCO3 mg/L	OH mg/L	pH	pHF	SO4-d mg/L	TEMP-F °C	TSS mg/L
X21-96A	**6/11/2010**	<0.5	22700	<0.5	<0.5	3220	<0.5	<0.5	17500.0	>3999.0		<0.5	<0.5	3.6	5.4	21000.0	6	370
X21-96A	**9/22/2010**	77	13900	<0.5	<0.5	3380	<0.5	<0.5	17900.0	17530.0		<0.5	<0.5	3.7	5.1	20000.0	5	150
X21-96A Average		39	18300	0.25	0	3300	0.25	0.25	17700.0	10764.5		0.25	0	3.6	5.2	20500.0	6	260
X21-96A N > DL		1	2	0	0	2	0	0	2	2	0	0	0	2	2	2	2	2
X21-96B	**6/11/2010**	<0.5	294	35.00	<0.5	1110	6.20	<0.5	2360.0	2274.0		43.00	<0.5	5.9	6.6	1500.0	6	54
X21-96B	**9/22/2010**	<0.5	783	110.00	<0.5	1220	3.20	<0.5	2810.0	3008.0		130.00	<0.5	6.3	6.3	1800.0	4	63
X21-96B Average		0	539	72.50	0	1165	4.70	0.25	2585.0	2641.0		86.50	0	6.1	6.4	1650.0	5	59
X21-96B N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
X24-96D	**6/7/2010**	<0.5	93	440.00	<0.5	2840	3.00	<0.5	3910.0	3660.0		540.00	<0.5	7.4	6.4	2800.0	6	2
X24-96D	**9/9/2010**	<0.5	91	440.00	<0.5	2620	3.20	<0.5	3950.0	4370.0		540.00	<0.5	6.9	6.3	2700.0	4	32
X24-96D Average		0	92	440.00	0	2730	3.10	0.25	3930.0	4015.0		540.00	0	7.1	6.3	2750.0	5	17
X24-96D N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
X25-96A	**6/7/2010**	<0.5	23	280.00	<0.5	818	0.60	<0.5	1420.0	1390.0		350.00	<0.5	8.0	7.2	570.0	6	<1.0
X25-96A	**9/9/2010**	<0.5	18	290.00	<0.5	787	0.60	<0.5	1550.0	1710.0		350.00	<0.5	7.4	7.0	580.0	5	<1.0
X25-96A Average		0	21	285.00	0	803	0.60	0.25	1485.0	1550.0		350.00	0	7.7	7.1	575.0	5	1
X25-96A N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	0
X25-96B	**6/7/2010**	<0.5	11	250.00	<0.5	680	0.60	<0.5	1270.0	1270.0		310.00	<0.5	8.1	7.5	450.0	6	3
X25-96B	**9/9/2010**	<0.5	11	260.00	<0.5	633	0.70	<0.5	1370.0	1430.0		320.00	<0.5	7.8	7.4	480.0	6	2
X25-96B Average		0	11	255.00	0	657	0.65	0.25	1320.0	1350.0		315.00	0	8.0	7.5	465.0	6	3
X25-96B N > DL		0	2	2	0	2	2	0	2	2	0	2	0	2	2	2	2	2
X26	**5/5/2010**	<0.5	249	280.00	<0.5	3940	4.40	<0.5	5300.0	>3999.0	18.17	350.00	<0.5	6.5	6.3	4800.0	3	57
X26	**6/13/2010**	<0.5	288	340.00	<0.5	3040	4.00	<0.5	4190.0	>3999.0	15.28	410.00	<0.5	6.4	7.6	3000.0	4	21
X26	**7/10/2010**	<0.5	292	380.00	<0.5	2710	3.30	<0.5	4120.0	3999.0	23.00	470.00	<0.5	6.6	6.3	2700.0	4	47
X26	**8/3/2010**			340.00	<0.5	3120	3.30	<0.5	4620.0	>3999.0		410.00	<0.5	6.4	6.2	3700.0	7	57
X26	**9/1/2010**	<0.5	469	280.00	<0.5	3390	4.00	<0.5	5060.0	>3999.0	13.19	340.00	<0.5	6.7	6.1	4200.0	4	98
X26	**10/19/2010**	<0.5	417	370.00	<0.5	3180	3.70	<0.5	4540.0	>3999.0	26.67	450.00	<0.5	6.5	6.0	2900.0	3	34
X26 Average		0	343	331.67	0	3230	3.78	0.25	4638.3	3999.0	19.26	405.00	0	6.5	6.4	3550.0	4	52
X26 Max		<0.5	469	380.00	<0.5	3940	4.40	<0.5	5300.0	>3999.0	26.67	470.00	<0.5	6.7	7.6	4800.0	7	98
X26 Min		<0.5	249	280.00	<0.5	2710	3.30	<0.5	4120.0	>3999.0	13.19	340.00	<0.5	6.4	6.0	2700.0	3	21
X26 N > DL		0	5	6	0	6	6	0	6	6	5	6	0	6	6	6	6	6
X26 Median		<0.5	292	340.00	<0.5	3150	3.85	<0.5	4580.0	>3999.0	18.17	410.00	<0.5	6.5	6.3	3350.0	4	52

Denison Environmental Services

Table C-7: Rose Creek Drainage Water Quality
2010 - Groundwater - Dissolved Metals

Faro Mine Closure

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
BH10A	9/16/2010	0.0060	38.10	4.50	11.800	<50.0	0.70	<0.005	89.70	0.01	20.9000	<0.1	<0.05	36600.00		3.85	0.062	29.60	970.000	<0.05	10.60	25.900	0.2660	<0.02	71	<0.04	14600.00	0.02	468.00	<0.5	<0.002	0.0730	<0.2	4820.000	<0.1
BH10B	9/16/2010	<0.005	57.80	30.20	11.100	<50.0	1.46	<0.005	146.00	0.01	9.8900	<0.1	<0.05	39500.00		5.81	0.113	42.20	801.000	<0.05	17.50	22.900	0.1880	0.03	78	<0.04	18300.00	<0.01	747.00	<0.5	<0.002	0.0150	<0.2	3370.000	0.20
BH13B	9/21/2010	0.0060	12.50	0.43	23.300	<50.0	<0.01	0.01	196.00	0.10	1.2500	<0.1	4.2700	36.00		3.29	0.013	62.20	12.700	6.02	7.55	8.400	0.5440	0.06	230	9.3600	4260.00	0.03	901.00	<0.5	0.02	1.6400	<0.2	12.100	<0.1
BH14A	6/11/2010	<0.03	8.00	0.20	15.300	<300.0	<0.05	0.06	644.00	1.07	0.0500	<0.5	0.5000	38.00		3.90	0.076	330.00	3.700	1.40	17.30	85.900	4.4300	<0.1	736	0.5000	8850.00	<0.05	3050.00	<3.0	0.05	135.0000	<1.0	8640.000	<0.5
BH14A	9/21/2010	<0.03	5.00	0.30	22.400	<300.0	<0.05	<0.03	589.00	2.87	0.2000	<0.5	2.3000	11.00		4.50	0.086	312.00	8.600	0.40	16.70	157.000	120.0000	<0.1	798	0.5000	9460.00	0.11	3010.00	<3.0	0.03	131.0000	<1.0	16400.000	<0.5
BH14A Average		0.0150	6.50	0.25	18.850	150.00	0.03	0.04	616.50	1.97	0.1250	0.25	1.4000	24.50		4.20	0.081	321.00	6.150	0.90	17.00	121.450	62.2150	0.05	767	0.5000	9155.00	0.07	3030.00	1.50	0.04	133.0000	0.50	12520.000	0.25
BH14A N > DL		0	2	2	2	0	0	1	2	2	2	0	2	2	0	2	2	2	2	2	2	2	2	0	2	2	2	1	2	0	2	2	0	2	0
BH14B	6/11/2010	<0.03	15.00	0.20	22.900	<300.0	<0.05	<0.03	696.00	0.15	0.3500	<0.5	1.2000	58.00		4.60	0.066	309.00	10.800	0.60	17.10	4.700	34.2000	<0.1	762	0.5000	8330.00	0.06	3540.00	<3.0	0.03	199.0000	<1.0	306.000	<0.5
BH14B	9/21/2010	<0.03	9.00	0.40	23.400	<300.0	<0.05	<0.03	711.00	0.13	0.2700	<0.5	2.0000	31.00		5.00	0.070	287.00	9.600	0.90	15.50	3.300	18.5000	<0.1	861	0.6000	9380.00	0.11	3360.00	<3.0	<0.01	189.0000	<1.0	212.000	<0.5
BH14B Average		0.0150	12.00	0.30	23.150	150.00	0.03	0.02	703.50	0.14	0.3100	0.25	1.6000	44.50		4.80	0.068	298.00	10.200	0.75	16.30	4.000	26.3500	0.05	812	0.5500	8855.00	0.09	3450.00	1.50	0.02	194.0000	0.50	259.000	0.25
BH14B N > DL		0	2	2	2	0	0	0	2	2	2	0	2	2	0	2	2	2	2	2	2	2	2	0	2	2	2	2	2	0	1	2	0	2	0
BH5	9/16/2010	0.0510	705.00	0.90	48.000	<50.0	0.48	0.12	76.00	0.77	16.2000	1.90	2.5200	23700.00		3.57	0.045	26.00	1300.000	0.11	13.20	22.300	5.0400	0.05	41	<0.04	12100.00	0.07	389.00	32.60	0.09	0.5440	1.40	2510.000	0.30
BH6	9/16/2010	<0.005	40.60	0.10	34.400	<50.0	0.08	<0.005	50.50	1.32	28.6000	<0.1	0.3200	3950.00		1.75	0.024	13.30	1100.000	0.09	4.33	25.800	1.8600	<0.02	32	<0.04	7620.00	0.02	258.00	<0.5	0.04	1.1400	<0.2	3200.000	<0.1
BH8	9/18/2010	<0.3	9160.00	6.00	14.000	<3000.0	10.40	<0.3	297.00	663.00	554.0000	<5.0	2040.0000	668000.00		7.00	0.095	198.00	12400.000	<3.0	35.00	468.000	610.0000	<1.0	1070	<2.0	6270.00	<0.5	1240.00	<30.0	6.90	22.7000	<10.0	211000.000	<5.0
P01-01A	6/6/2010	<0.005	4.00	0.20	61.100	<50.0	<0.01	<0.005	327.00	0.70	1.5000	<0.1	0.4200	16.00		7.18	0.014	73.30	5850.000	1.38	25.40	7.750	0.3240	0.05	335	<0.04	7180.00	<0.01	1060.00	<0.5	0.02	9.6200	<0.2	7.500	<0.1
P01-01A	9/8/2010	<0.03	17.00	<0.1	60.800	<300.0	<0.05	<0.03	314.00	0.79	1.7700	<0.5	<0.3	18.00		6.80	0.014	77.00	6960.000	1.10	24.70	9.400	0.1500	<0.1	311	<0.2	6060.00	<0.05	1090.00	<3.0	0.02	11.0000	<1.0	9.800	<0.5
P01-01A Average		0.0088	10.50	0.13	60.950	87.50	0.02	0.01	320.50	0.75	1.6350	0.15	0.2850	17.00		6.99	0.014	75.15	6405.000	1.24	25.05	8.575	0.2370	0.05	323	0.0600	6620.00	0.02	1075.00	0.88	0.02	10.3100	0.30	8.650	0.15
P01-01A N > DL		0	2	1	2	0	0	0	2	2	2	0	1	2	0	2	2	2	2	2	2	2	2	1	2	0	2	0	2	0	2	2	0	2	0
P01-01B	6/6/2010	<0.005	6.20	2.54	62.900	<50.0	0.02	<0.005	233.00	0.01	0.1940	<0.1	0.0700	767.00		4.63	0.012	48.50	151.000	1.16	27.90	0.670	0.1890	0.04	203	<0.04	6030.00	<0.01	825.00	<0.5	<0.002	8.0700	<0.2	10.600	0.60
P01-01B	9/8/2010	<0.005	3.80	2.56	60.900	<50.0	0.03	<0.005	230.00	<0.005	0.2010	<0.1	<0.05	828.00		4.52	0.013	46.90	187.000	0.98	26.60	0.790	0.1960	0.04	196	<0.04	5590.00	<0.01	800.00	<0.5	<0.002	8.2500	<0.2	3.000	0.60
P01-01B Average		0.0025	5.00	2.55	61.900	25.00	0.03	0.00	231.50	0.01	0.1975	0.05	0.0475	797.50		4.58	0.013	47.70	169.000	1.07	27.25	0.730	0.1925	0.04	200	0.0200	5810.00	0.01	812.50	0.25	0.00	8.1600	0.10	6.800	0.60
P01-01B N > DL		0	2	2	2	0	2	0	2	1	2	0	1	2	0	2	2	2	2	2	2	2	2	2	2	0	2	0	2	0	0	2	0	2	2
P01-02A	6/6/2010	<0.005	2.60	0.62	69.800	<50.0	<0.01	<0.005	121.00	0.09	0.6640	<0.1	0.3800	21.00		3.12	0.007	31.80	1370.000	1.65	10.60	2.710	0.2030	0.03	68	<0.04	5640.00	<0.01	351.00	<0.5	0.01	3.0700	<0.2	1.800	<0.1
P01-02A	9/8/2010	<0.005	1.80	0.60	67.200	<50.0	<0.01	<0.005	117.00	0.09	0.7030	<0.1	0.4600	22.00		3.12	0.007	31.50	1300.000	1.48	9.07	2.560	0.0950	0.04	61	<0.04	4950.00	<0.01	345.00	<0.5	0.01	2.9600	<0.2	5.100	<0.1
P01-02A Average		0.0025	2.20	0.61	68.500	25.00	0.01	0.00	119.00	0.09	0.6835	0.05	0.4200	21.50		3.12	0.007	31.65	1335.000	1.57	9.84	2.635	0.1490	0.04	65	0.0200	5295.00	0.01	348.00	0.25	0.01	3.0150	0.10	3.450	0.05
P01-02A N > DL		0	2	2	2	0	0	0	2	2	2	0	2	2	0	2	2	2	2	2	2	2	2	2	2	0	2	0	2	0	2	2	0	2	0
P01-02B	6/6/2010	<0.005	4.60	5.76	35.800	<50.0	<0.01	<0.005	75.60	<0.005	0.0930	<0.1	<0.05	949.00		2.25	0.006	30.00	122.000	0.80	8.72	0.470	0.3020	0.03	33	<0.04	5100.00	<0.01	263.00	<0.5	<0.002	2.7500	<0.2	2.600	<0.1
P01-02B	9/8/2010	<0.005	40.20	5.69	37.400	<50.0	<0.01	<0.005	69.00	0.01	0.1640	<0.1	0.4200	1130.00		2.27	0.007	27.50	131.000	0.71	7.99	0.700	1.0400	0.03	32	<0.04	4310.00	<0.01	261.00	3.00	<0.002	2.8900	<0.2	7.000	<0.1
P01-02B Average		0.0025	22.40	5.73	36.600	25.00	0.01	0.00	72.30	0.01	0.1285	0.05	0.2225	1039.50		2.26	0.007	28.75	126.500	0.76	8.36	0.585	0.6710	0.03	33	0.0200	4705.00	0.01	262.00	1.63	0.00	2.8200	0.10	4.800	0.05
P01-02B N > DL		0	2	2	2	0	0	0	2	1	2	0	1	2	0	2	2	2	2	2	2	2	2	2	2	0	2	0	2	1	0	2	0	2	0
P01-03	6/7/2010	<0.02	8.00	0.20	14.000	<50.0	<0.1	<1.0	733.00	1.71	172.0000	<1.0	0.6000	1470.00	<0.02	7.44	0.026	160.00	79400.000	<1.0	35.90	123.000	0.4000	<0.5	832	<0.1	11000.00	<5.0	2150.00	<5.0	<0.05	7.0000	<5.0	33.000	<0.5
P01-03	9/9/2010	<0.02	5.00	0.40	12.000	<50.0	<0.1	<1.0	692.00	1.62	178.0000	<1.0	0.3000	2800.00		7.41	0.025	158.00	81200.000	<1.0	36.60	110.000	0.3000	<0.5	816	<0.1	10700.00	<5.0	1930.00	<5.0	<0.05	6.3000	<5.0	42.000	<0.5
P01-03 Average		0.0100	6.50	0.30	13.000	25.00	0.05	0.50	712.50	1.67	175.0000	0.50	0.4500	2135.00	0.01	7.43	0.026	159.00	80300.000	0.50	36.25	116.500	0.3500	0.25	824	0.0500	10850.00	2.50	2040.00	2.50	0.03	6.6500	2.50	37.500	0.25
P01-03 N > DL		0	2	2	2	0	0	0	2	2	2	0	2	2	0	2	2	2	2	0	2	2	2	0	2	0	2	0	2	0	0	2	0	2	0
P01-04A	6/7/2010	0.0500	7.00	0.30	373.000	<50.0	0.20	<1.0	131.00	0.04	<0.5	<1.0	1.2000	595.00	<0.02	3.25	0.157	40.80	240.000	<1.0	63.60	<1.0	0.3000	<0.5	18	0.2000	8470.00	<5.0	1630.00	<5.0	<0.05	0.3000	<5.0	<5.0	19.90
P01-04A	9/9/2010	0.0700	4.00	0.20	387.000	<50.0	0.30	<1.0	116.00	0.04	<0.5	<1.0	<0.2	559.00		3.05	0.164	40.20	261.000	<1.0	63.00	<1.0	<0.2	<0.5	13	0.3000	7770.00	<5.0	1630.00	<5.0	<0.05	0.3000	<5.0	<5.0	40.70
P01-04A Average		0.0600	5.50	0.25	380.000	25.00	0.25	0.50	123.50	0.04	0.2500	0.50	0.6500	577.00	0.01	3.15	0.161	40.50	250.500	0.50	63.30	0.500	0.2000	0.25	16	0.2500	8120.00	2.50	1630.00	2.50	0.03	0.3000	2.50	2.500	30.30
P01-04A N > DL		2	2	2	2	0	2	0	2	2	2	0	0	1	0	2	2	2	2	0	2	0	1	0	2	2	2	0	2	0	0	2	0	0	2
P01-04B	9/9/2010	<0.02	<3.0	1.50	21.000	<50.0	<0.1	<1.0	365.00	0.08	<0.5	<1.0	<0.2	9830.00		4.86	0.020	59.60	4370.000	<1.0	43.00	4.000	<0.2	<0.5	335	<0.1	6870.00	<5.0	977.00	<5.0	<0.05	4.7000	<5.0	<5.0	1.90
P01-11	6/6/2010	<0.03	4.00	32.60	36.100	<300.0	<0.05	<0.03	569.00	<0.03	4.3800	<0.5	<0.3	44100.00		8.10	0.019	119.00	23600.000	1.30	47.60	9.700	0.3300	<0.1	608	<0.2	12000.00	<0.05	1270.00	<3.0	<0.01	7.8400	<1.0	11.100	<0.5
P01-11	9/8/2010	<0.05	3.00	36.50	34.500	<500.0	<0.1	<0.05	505.00	<0.05	5.8200	<1.0	<0.5	42400.00		8.30	0.018	120.00	26300.000	1.00	46.80	12.600	0.3900	<0.2	556	<0.4	9270.00	<0.1	1310.00	<5.0	<0.02	9.4400	<2.0	15.000	<1.0
P01-11 Average		0.0200	3.50	34.55	35.300	200.00	0.04	0.02	537.00	0.02	5.1000	0.38	0.2000	43250.00		8.20	0.019	119.50	24950.000	1.15	47.20	11.150	0.3600	0.08	582	0.1500	10635.00	0.04	1290.00	2.00	0.01	8.6400	0.75	13.050	0.38
P01-11 N > DL		0	2	2	2	0	0	0	2	0	2	0	0	2	0	2	2	2	2	2	2	2	2	0	2	0	2	0	2	0	0	2	0	2	0
P03-01-2	9/21/2010	<0.02	4.00	0.80	102.000	<50.0	<0.1	<1.0	66.60	<0.01	0.9000	<1.0	<0.2	251.00		2.67	<0.005	11.70	641.000	5.00	5.53	<1.0	<0.2	<0.5	8	<0.1	4910.00	<5.0	273.00	<5.0	<0.05	3.0000	<5.0	<5.0	<0.5
P03-01-4	9/21/2010	<0.02	5.00	<0.1	35.000	<50.0	<0.1	<1.0	16.80	1.07	27.3000	<1.0	0.7000	62.00		1.14	0.012	3.04	5570.000	<1.0	2.12	128.000	0.3000	<0.5	15	<0.1	6730.00	<5.0	75.00	<5.0	<0.05	<0.1	<5.0	2310.000	<0.5
P03-01-6	9/21/2010	<0.04	23.00	7.10	59.000	136.00	<0.2	<2.0	50.30	0.06	37.0000	<2.0	<0.4	219000.00		3.50	<0.01	21.80	4920.000	<2.0	20.90	40.000	5.5000	<1.0	212	<0.2	7430.00	<10.0	198.00	<10.0	<0.1	<0.2	<10.0	8040.000	<1.0
P03-01-8	9/21/2010	<0.8	<100.0	<4.0	<40.0	<2000.0	<4.0	<40.0	301.00	<0.4	<20.0	<40.0	<8.0	10400000.00		105.00	0.255	641.00	83900.000	<40.0	589.00	<40.0	12.0000	<20.0	8440	<4.0	<4000.0	<200.0	1030.00	<200.0	<2.0	<4.0	<200.0	908000.000	<20.0
P03-03-2	9/21/2010	0.3000	2350.00	<1.0	<10.0	<500.0	2.00	<10.0	110.00	10.70	112.0000	<10.0	24.0000	759000.00		4.40	<0.05	38.80	12700.000	<10.0	8.60	165.000	3.0000	<5.0	704	<1.0	21100.00	<50.0	424.00	<50.0	<0.5	<1.0	<50.0	142000.000	<5.0
P03-03-4	9/21/2010	<0.04	33.00	2.80	54.000	108.00	<0.2	<2.0	180.00	8.58	226.0000	<2.0	<0.4	157000.00		3.90	0.046	39.60	45100.000	<2.0	21.50	222.000	1.3000	<1.0	334	<0.2	17400.00	<10.0	591.00	<10.0	<0.1	<0.2	<10.0	13200.000	<1.0
P03-03-6	9/21/2010	<0.2	89.00	<1.0	<10.0	<500.0	<1.0	<10.0	306.00	<0.1	<5.0	<10.0	<2.0	1880000.00		15.20	0.063	179.00	52400.000	<10.0	144.00	<10.0	<2.0	<5.0	1850	<1.0	11100.00	<50.0	1090.00	<50.0	<0.5	<1.0	<50.0	229.000	<5.0
P03-04-2	9/20/2010	<0.02	8.00	<0.1	13.000	<50.0	<0.1	<1.0	241.00	0.07	102.0000	<1.0	0.5000	193.00		3.76	0.013	53.00	31500.000	2.00	26.80	124.000	<0.2	<0.5	314	<0.1	12600.00	<5.0	565.00	<5.0	<0.05	0.6000	<5.0	40.000	<0.5
P03-04-4	9/20/2010	0.0300	<3.0	5.40	55.000	<50.0	<0.1	<1.0	177.00	0.02	3.4000	<1.0	0.3000	6000.00		5.10	0.010	24.50	6360.000	<1.0	87.00	4.000	<0.2	<0.5	189	<0.1	7510.00	<5.0	440.00	<5.0	<0.05	2.3000	<5.0	11.000	<0.5
P03-04-6	9/20/2010	<0.2	<30.0	15.00	<10.0	<500.0	<1.0	<10.0	500.00	<0.1	53.0000	12.00	<2.0	1650000.00		10.60	<0.05	124.00	14900.000	<10.0	87.60	133.000	<2.0	<5.0	1630	<1.0	12000.00	<50.0	3060.00	<50.0	<0.5	3.0000	<50.0	1970.000	<5.0
P03-04-8	9/20/2010	<0.4	713.00	16.00	<20.0	<1000.0	<2.0	<20.0	393.00	0.80	<10.0	<20.0	10.0000	3690000.00		9.00	<0.1	103.00	31100.000	<20.0	77.00	<20.0	528.0000	<10.0	2720	<2.0	10300.00	<100.0	904.00	<100.0	<1.0	<2.0	<100.0	3930.000	<10.0
P03-05-2	9/22/2010	<0.03	6.00	7.10	84.000	<300.0	<0.05	<0.03	233.00	<0.03	211.0000	<0.5	<0.3	27500.00		3.40	0.050	42.80	38200.000	0.50	12.50	226.000	0.3700	<0.1	296	<0.2	12300.00	<0.05	688.00	<3.0	<0.01	2.2900	<1.0	1510.000	<0.5
P03-05-4	9/22/2010	<0.03	4.00	0.30	75.500	<300.0	<0.05	<0.03	206.00	0.26	9.8300	<0.5	<0.3	1100.00		2.40	0.009	35.00	15400.000	0.60	11.20	5.800	0.3100	<0.1	214	<0.2	8330.00	<0.05	518.00	<3.0	<0.01	3.5600	<1.0	6.800	<0.5
P03-05-6	9/22/2010	<0.05	10.00	0.30	4.400	<500.0	<0.1	<0.05	374.00	0.08	2.0300	<1.0	<0.5	438000.00		39.40	0.012	293.00	8910.000	1.20	231.00	2.700	1.8400	<0.2	1220	<0.4	4080.00	<0.1	326.00	<5.0	<0.02	0.0300	<2.0	715.000	<1.0
P03-06-1	6/14/2010	<0.04	84.00	0.40	16.000	<100.0	<0.2	<2.0	639.00	17.10	961.0000	<2.0	346.0000	107000.00		5.40	0.042	187.00	122000.000	3.00	38.20	1230.000	5.1000	<1.0	1030	<0.2	19400.00	<10.0	1970.00	<10.0	<0.1	4.5000	<10.0	6680.000	<1.0
P03-06-1	9/22/2010	<0.02	10.00	<0.1	16.000	141.00	0.20	<1.0	670.00	21.60	1150.0000	<1.0	0.5000	152000.00		5.84	0.054	188.00	145000.000	9.00	38.00	1470.000	<0.2	<0.5	1040	<0.1	19600.00	<5.0	1990.00	<5.0	<0.05	2.5000	<5.0	8260.000	<0.5
P03-06-1 Average		0.0150	47.00	0.23	16.000	95.50	0.15	0.75	654.50	19.35	1055.5000	0.75	173.2500	129500.00		5.62	0.048	187.50	133500.000	6.00	38.10	1350.000	2.6000	0.38	1035	0.0750	19500.00	3.75	1980.00	3.75	0.04	3.5000	3.75	7470.000	0.38
P03-06-1 N > DL		0	2	1	2	1	1	0	2	2	2	0	2	2	0	2	2	2	2	2	2	2	1	0	2	0	2	0	2	0	0	2	0	2	0
P03-06-2	6/14/2010	<0.04	201.00	0.40	14.000	<100.0	0.30	<2.0	529.00	20.20	863.0000	<2.0	0.7000	444000.00		5.70	0.049	161.00	105000.000	3.00	33.20	1000.000	2.8000	<1.0	1090	<0.2	19700.00	<10.0	1760.00	<10.0	<0.1	1.6000	<10.0	8010.000	<1.0
P03-06-2	9/22/2010	<0.02	20.00	<0.1	17.000	88.00	0.20	<1.0	636.00	22.00	1080.0000	<1.0	0.3000	306000.00		5.82	0.054	169.00	131000.000	8.00	35.80	1320.000	0.9000	<0.5	1030	<0.1	19100.00	<5.0	1870.00	<5.0	0.09	0.9000	<5.0	7500.000	<0.5
P03-06-2 Average		0.0150	110.50	0.23	15.500	69.00	0.25	0.75	582.50	21.10	971.5000	0.75	0.5000	375000.00		5.76	0.052	165.00	118000.000	5.50	34.50	1160.000	1.8500	0.38	1060	0.0750	19400.00	3.75	1815.00	3.75	0.07	1.2500	3.75	7755.000	0.38
P03-06-2 N > DL		0	2	1	2	1	2	0	2	2	2	0	2	2	0	2	2	2	2	2	2	2	2	0	2	0	2	0	2	0	1	2	0	2	0
P03-06-3	6/14/2010	<0.08	438.00	0.70	12.000	<200.0	0.90	<4.0	422.00	49.80	849.0000	<4.0	<0.8	1010000.00		6.80	0.080	155.00	89400.000	<4.0	20.00	882.000	1.4000	<2.0	1300	<0.4	22500.00	<20.0	1550.00	<20.0	<0.2	2.5000	<20.0	14000.000	<2.0
P03-06-3	9/22/2010	<0.02	165.00	<0.1	13.000	267.00	0.90	<1.0	450.00	43.00	786.0000	<1.0	0.5000	1160000.00		6.56	0.090	150.00	91800.000	6.00	19.50	796.000	0.3000	<0.5	1240	<0.1	18600.00	<5.0	1530.00	<5.0	<0.05	0.9000	<5.0	14600.000	<0.5
P03-06-3 Average		0.0250	301.50	0.38	12.500	183.50	0.90	1.25	436.00	46.40	817.5000	1.25	0.4500	1085000.00		6.68	0.085	152.50	90600.000	4.00	19.75	839.000	0.8500	0.63	1270	0.1250	20550.00	6.25	1540.00	6.25	0.06	1.7000	6.25	14300.000	0.63
P03-06-3 N > DL		0	2	1	2	1	2	0	2	2	2	0	1	2	0	2	2	2	2	1	2	2	2	0	2	0	2	0	2	0	0	2	0	2	0

NB: Metals reported in mg/L are shaded in grey.

Denison Environmental Services

Table C-7: Rose Creek Drainage Water Quality
2010 - Groundwater - Dissolved Metals

Faro Mine Closure

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
P03-06-4	**6/14/2010**	<0.02	7.00	1.00	23.000	<50.0	<0.1	<1.0	325.00	3.35	217.0000	<1.0	0.4000	211000.00		4.20	0.028	84.00	35800.000	2.00	18.50	214.000	1.3000	<0.5	530	<0.1	9680.00	<5.0	991.00	<5.0	0.09	22.4000	<5.0	3460.000	<0.5
P03-06-4	**9/22/2010**	<0.02	<3.0	<0.1	26.000	61.00	<0.1	<1.0	372.00	4.46	251.0000	<1.0	<0.2	255000.00		4.26	0.036	88.70	41800.000	2.00	19.30	231.000	<0.2	<0.5	604	<0.1	7070.00	<5.0	1100.00	<5.0	0.11	3.8000	<5.0	4140.000	<0.5
P03-06-4 Average		0.0100	4.25	0.53	24.500	43.00	0.05	0.50	348.50	3.91	234.0000	0.50	0.2500	233000.00		4.23	0.032	86.35	38800.000	2.00	18.90	222.500	0.7000	0.25	567	0.0500	8375.00	2.50	1045.50	2.50	0.10	13.1000	2.50	3800.000	0.25
P03-06-4 N > DL		0	1	1	2	1	0	0	2	2	2	0	1	2	0	2	2	2	2	2	2	2	1	0	2	0	2	0	2	0	2	2	0	2	0
P03-06-5	**6/14/2010**	<0.02	<3.0	1.80	9.000	<50.0	<0.1	<1.0	122.00	0.03	15.1000	<1.0	<0.2	195000.00		3.29	0.013	46.10	12600.000	3.00	22.70	23.000	1.4000	<0.5	282	<0.1	5590.00	<5.0	374.00	<5.0	<0.05	7.9000	<5.0	14300.000	<0.5
P03-06-5	**9/22/2010**	0.2700	16.00	<0.1	10.000	109.00	<0.1	<1.0	248.00	0.20	105.0000	<1.0	<0.2	287000.00		9.06	0.082	505.00	60400.000	3.00	52.60	208.000	65.2000	<0.5	1280	<0.1	5450.00	<5.0	539.00	<5.0	0.16	2.6000	<5.0	215000.000	<0.5
P03-06-5 Average		0.1400	8.75	0.93	9.500	67.00	0.05	0.50	185.00	0.12	60.0500	0.50	0.1000	241000.00		6.18	0.048	275.55	36500.000	3.00	37.65	115.500	33.3000	0.25	781	0.0500	5520.00	2.50	456.50	2.50	0.09	5.2500	2.50	114650.000	0.25
P03-06-5 N > DL		1	1	1	2	1	0	0	2	2	2	0	0	2	0	2	2	2	2	2	2	2	2	0	2	0	2	0	2	0	1	2	0	2	0
P03-08-2	**9/20/2010**	<0.02	8.00	0.30	184.000	<50.0	<0.1	<1.0	95.20	0.04	0.9000	<1.0	1.4000	15.00		1.23	<0.005	26.40	2950.000	<1.0	6.24	16.000	0.3000	<0.5	43	<0.1	4250.00	<5.0	319.00	<5.0	<0.05	3.0000	<5.0	<5.0	<0.5
P03-08-4	**9/20/2010**	<0.02	11.00	4.90	34.000	<50.0	<0.1	<1.0	181.00	0.02	<0.5	<1.0	<0.2	38900.00		3.07	<0.005	44.20	3300.000	7.00	43.50	2.000	1.5000	2.30	156	<0.1	8830.00	<5.0	525.00	<5.0	<0.05	8.4000	<5.0	20.000	<0.5
P03-08-6	**9/20/2010**	<0.02	21.00	1.40	11.000	<50.0	<0.1	<1.0	76.20	<0.01	1.7000	<1.0	<0.2	33.00		4.77	0.024	1.79	98.000	7.00	119.00	<1.0	2.1000	5.20	153	<0.1	1120.00	<5.0	51.00	<5.0	<0.05	<0.1	<5.0	<5.0	<0.5
P03-08-7	**9/20/2010**	<0.02	6.00	0.60	16.000	<50.0	<0.1	<1.0	19.30	0.02	2.2000	<1.0	<0.2	23.00		3.23	0.009	0.85	63.000	27.00	95.50	<1.0	1.2000	<0.5	66	<0.1	1310.00	<5.0	55.00	<5.0	<0.05	<0.1	<5.0	<5.0	<0.5
P03-09-2	**9/13/2010**	<0.02	<3.0	1.70	36.000	<50.0	<0.1	<1.0	188.00	<0.01	<0.5	<1.0	<0.2	7460.00		3.60		54.10	510.000	<1.0	41.80	<1.0	0.9000	<0.5	166	<0.1	7320.00	<5.0	953.00	<5.0	<0.05	1.9000	<5.0	<5.0	<0.5
P03-09-4	**9/13/2010**	<0.02	<3.0	0.30	50.000	<50.0	<0.1	<1.0	259.00	0.38	4.5000	<1.0	0.8000	29.00		4.55		51.10	8890.000	<1.0	31.40	14.000	<0.2	<0.5	231	<0.1	7630.00	<5.0	675.00	<5.0	<0.05	8.1000	<5.0	<5.0	<0.5
P03-09-6	**9/13/2010**	<0.02	5.00	0.20	54.000	<50.0	<0.1	<1.0	283.00	0.46	1.7000	<1.0	0.3000	44.00		4.79		58.50	12000.000	2.00	34.80	17.000	<0.2	<0.5	259	<0.1	7870.00	<5.0	755.00	<5.0	<0.05	7.4000	<5.0	<5.0	<0.5
P03-09-8	**9/13/2010**	<0.02	<3.0	0.40	38.000	<50.0	<0.1	<1.0	287.00	0.53	4.2000	<1.0	<0.2	441.00		4.77		58.40	13000.000	<1.0	35.40	16.000	<0.2	<0.5	280	<0.1	7800.00	<5.0	715.00	<5.0	<0.05	7.7000	<5.0	<5.0	<0.5
P03-09-9	**9/13/2010**	<0.02	39.00	0.40	43.000	<50.0	<0.1	<1.0	281.00	1.26	4.4000	<1.0	0.9000	105.00		4.84		58.80	12400.000	2.00	35.40	18.000	0.3000	<0.5	282	<0.1	7810.00	<5.0	713.00	<5.0	<0.05	7.2000	<5.0	<5.0	<0.5
P05-01-1	**9/9/2010**	<0.05	8.00	<0.2	38.100	<500.0	<0.1	<0.05	507.00	<0.05	0.1000	<1.0	<0.5	12900.00		7.10	0.068	112.00	23200.000	<0.5	48.80	5.500	0.1400	<0.2	552	<0.4	9430.00	<0.1	1700.00	<5.0	<0.02	0.6700	<2.0	2.000	2.00
P05-01-2	**9/9/2010**	<0.05	3.00	0.40	28.800	<500.0	<0.1	<0.05	533.00	<0.05	0.0700	<1.0	<0.5	22200.00		7.50	0.027	110.00	25700.000	<0.5	41.20	3.800	<0.05	<0.2	581	<0.4	9950.00	<0.1	1270.00	8.00	<0.02	1.4600	<2.0	3.000	<1.0
P05-01-3	**9/9/2010**	<0.05	3.00	0.70	27.300	<500.0	<0.1	<0.05	537.00	<0.05	0.0600	<1.0	<0.5	26000.00		7.10	0.029	104.00	23400.000	<0.5	38.20	3.000	<0.05	<0.2	573	<0.4	9710.00	<0.1	1250.00	13.00	<0.02	1.4000	<2.0	2.000	<1.0
P05-01-4	**9/9/2010**	<0.05	4.00	4.10	20.300	<500.0	<0.1	<0.05	502.00	<0.05	0.4500	<1.0	<0.5	31000.00		7.00	0.026	107.00	25800.000	1.00	38.30	3.200	0.1200	<0.2	537	<0.4	9650.00	<0.1	1230.00	9.00	<0.02	1.7000	<2.0	<1.0	<1.0
P05-01-5	**9/9/2010**	<0.05	4.00	1.70	20.200	<500.0	<0.1	<0.05	414.00	0.45	14.5000	<1.0	<0.5	6730.00		6.70	0.019	91.80	23400.000	0.70	28.10	20.600	0.2000	<0.2	462	<0.4	7910.00	<0.1	1080.00	7.00	<0.02	4.2400	<2.0	4.000	<1.0
P05-01-6	**9/9/2010**	<0.05	4.00	1.40	25.400	<500.0	<0.1	<0.05	463.00	0.10	18.8000	<1.0	<0.5	5890.00		6.80	0.017	95.30	25500.000	0.70	29.40	23.800	0.2400	<0.2	493	<0.4	8380.00	<0.1	1150.00	<5.0	0.03	4.7300	<2.0	5.000	<1.0
P05-02	**6/6/2010**	0.0500	7.00	6.60	44.400	<300.0	<0.05	<0.03	533.00	0.11	12.8000	<0.5	<0.3	8570.00		7.60	0.024	108.00	22600.000	0.60	47.80	14.100	0.5600	<0.1	566	<0.2	9490.00	<0.05	1250.00	<3.0	0.03	5.4600	<1.0	44.400	<0.5
P05-02	**9/8/2010**	<0.05	6.00	4.20	37.200	<500.0	<0.1	<0.05	475.00	0.50	9.9500	<1.0	0.6000	6770.00		7.30	0.021	89.20	19800.000	<0.5	36.80	13.800	0.4500	<0.2	493	<0.4	8800.00	<0.1	1190.00	8.00	0.04	5.4900	<2.0	52.000	<1.0
P05-02 Average		0.0375	6.50	5.40	40.800	200.00	0.04	0.02	504.00	0.31	11.3750	0.38	0.3750	7670.00		7.45	0.023	98.60	21200.000	0.43	42.30	13.950	0.5050	0.08	530	0.1500	9145.00	0.04	1220.00	4.75	0.04	5.4750	0.75	48.200	0.38
P05-02 N > DL		1	2	2	2	0	0	0	2	2	2	0	1	2	0	2	2	2	2	1	2	2	2	0	2	0	2	0	2	1	2	2	0	2	0
P05-03	**6/8/2010**	<0.03	7.00	2.40	213.000	<300.0	<0.05	<0.03	295.00	0.21	2.4400	<0.5	<0.3	5040.00		4.70	0.008	59.60	11400.000	2.90	29.90	4.700	0.5600	<0.1	230	<0.2	6970.00	<0.05	750.00	<3.0	0.02	9.5100	<1.0	15.600	<0.5
P05-03	**9/8/2010**	<0.05	7.00	2.60	190.000	<500.0	<0.1	<0.05	239.00	0.20	2.3300	<1.0	0.9000	3940.00		4.10	0.007	48.90	8970.000	3.00	24.00	6.100	0.8200	<0.2	222	<0.4	6450.00	<0.1	659.00	8.00	<0.02	6.8400	<2.0	15.000	<1.0
P05-03 Average		0.0200	7.00	2.50	201.500	200.00	0.04	0.02	267.00	0.21	2.3850	0.38	0.5250	4490.00		4.40	0.008	54.25	10185.000	2.95	26.95	5.400	0.6900	0.08	226	0.1500	6710.00	0.04	704.50	4.75	0.02	8.1750	0.75	15.300	0.38
P05-03 N > DL		0	2	2	2	0	0	0	2	2	2	0	1	2	0	2	2	2	2	2	2	2	2	0	2	0	2	0	2	1	1	2	0	2	0
P05-04	**9/16/2010**	<0.005	30.10	0.04	35.500	<50.0	0.04	<0.005	54.00	1.98	0.2940	<0.1	0.6300	10.00		1.27	0.014	12.10	6.150	0.06	4.05	6.970	0.1910	0.03	20	0.3000	6480.00	<0.01	254.00	<0.5	0.01	1.0700	<0.2	1170.000	<0.1
P09-C1	**6/7/2010**	<0.03	8.00	0.40	47.500	<300.0	0.21	<0.03	454.00	<0.03	0.0800	<0.5	<0.3	10400.00		7.90	0.185	110.00	13900.000	0.80	88.70	0.400	0.3300	<0.1	480	<0.2	11300.00	<0.05	2200.00	<3.0	<0.01	0.6600	<1.0	10.000	2.30
P09-C1	**9/15/2010**	<0.03	12.00	0.50	51.700	<300.0	0.25	<0.03	385.00	0.06	0.4000	<0.5	0.5000	8570.00		8.30	0.232	94.40	11500.000	2.20	98.60	6.200	0.5000	<0.1	413	<0.2	11200.00	0.14	2240.00	<3.0	<0.01	0.8100	<1.0	92.900	<5.0
P09-C1 Average		0.0150	10.00	0.45	49.600	150.00	0.23	0.02	419.50	0.04	0.2400	0.25	0.3250	9485.00		8.10	0.209	102.20	12700.000	1.50	93.65	3.300	0.4150	0.05	447	0.1000	11250.00	0.08	2220.00	1.50	0.01	0.7350	0.50	51.450	2.40
P09-C1 N > DL		0	2	2	2	0	2	0	2	1	2	0	1	2	0	2	2	2	2	2	2	2	2	0	2	0	2	1	2	0	0	2	0	2	1
P09-C2	**6/8/2010**	0.4600	29.00	<0.1	685.000	<300.0	2.39	<0.03	229.00	0.04	0.0500	<0.5	<0.3	3690.00		12.50	0.832	114.00	118.000	<0.3	338.00	0.300	0.3400	<0.1	<50.0	<0.2	10900.00	<0.05	4650.00	<3.0	<0.01	0.4900	<1.0	24.700	131.00
P09-C2	**9/15/2010**	0.2700	33.00	0.20	656.000	<300.0	2.38	<0.03	209.00	<0.03	0.0800	1.70	<0.3	3390.00		11.10	0.782	108.00	132.000	1.40	321.00	3.700	0.7600	<0.1	<50.0	<0.2	10700.00	0.06	4330.00	7.00	<0.01	0.5700	2.00	18.300	<200.0
P09-C2 Average		0.3650	31.00	0.13	670.500	150.00	2.39	0.02	219.00	0.03	0.0650	0.98	0.1500	3540.00		11.80	0.807	111.00	125.000	0.78	329.50	2.000	0.5500	0.05	25	0.1000	10800.00	0.04	4490.00	4.25	0.01	0.5300	1.25	21.500	115.50
P09-C2 N > DL		2	2	1	2	0	2	0	2	1	2	1	0	2	0	2	2	2	2	1	2	2	2	0	0	0	2	1	2	1	0	2	1	2	1
P09-C3	**6/8/2010**	<0.03	6.00	1.70	229.000	<300.0	0.18	<0.03	116.00	<0.03	0.0500	<0.5	<0.3	2840.00		3.50	0.097	50.50	256.000	0.40	58.20	0.200	0.0700	<0.1	<50.0	<0.2	7450.00	<0.05	1850.00	<3.0	<0.01	1.1300	<1.0	2.500	5.70
P09-C3	**9/15/2010**	0.0490	3.90	1.98	230.000	<50.0	0.19	<0.005	126.00	0.01	0.1400	0.20	0.0700	2580.00		3.77	0.104	50.90	272.000	0.53	56.40	0.360	0.0950	0.03	35	<0.04	8530.00	<0.01	2020.00	0.70	<0.002	1.2500	<0.2	15.700	27.50
P09-C3 Average		0.0320	4.95	1.84	229.500	87.50	0.19	0.01	121.00	0.01	0.0950	0.23	0.1100	2710.00		3.64	0.101	50.70	264.000	0.47	57.30	0.280	0.0825	0.04	30	0.0600	7990.00	0.02	1935.00	1.10	0.00	1.1900	0.30	9.100	16.60
P09-C3 N > DL		1	2	2	2	0	2	0	2	1	2	1	1	2	0	2	2	2	2	2	2	2	2	1	1	0	2	0	2	1	0	2	0	2	2
P09-ETA1	**9/16/2010**	<0.005	48.80	0.81	32.900	<50.0	0.03	0.01	59.60	0.07	0.4350	<0.1	0.9100	362.00		0.30	0.001	9.53	23.500	0.26	16.60	0.650	12.2000	0.09	12	<0.04	9820.00	0.07	460.00	0.90	0.01	0.3090	<0.2	211.000	0.70
P09-ETA2	**9/15/2010**	<0.1	22.00	68.90	9.100	<1000.0	0.30	<0.1	534.00	<0.1	171.0000	<2.0	<1.0	170000.00		9.00	0.069	576.00	41000.000	2.00	53.00	179.000	2.0000	0.60	1430	<0.8	10700.00	<0.2	3550.00	12.00	0.08	8.2200	<4.0	74100.000	<5.0
P09-SIS1	**7/25/2010**	0.5000	48.00	2.00	30.000	<500.0	<1.0	<10.0	471.00	148.00	1050.0000	<10.0	3.0000	3830.00		17.10	0.225	1660.00	169000.000	<10.0	48.70	3870.000	<2.0	<5.0	3240	<1.0	12000.00	<50.0	2410.00	<50.0	<0.5	<1.0	<50.0	670000.000	<5.0
P09-SIS1	**11/2/2010**	0.0300	41.00	20.20	36.000	105.00	<0.1	<1.0	642.00	73.10	676.0000	<1.0	1.5000	20300.00		15.30	0.195	1540.00	119000.000	3.00	52.80	2280.000	3.0000	<0.5	3040	<0.1	12800.00	<5.0	2680.00	<5.0	<0.05	6.4000	<5.0	448000.000	<0.5
P09-SIS1 Average		0.2650	44.50	11.10	33.000	177.50	0.28	2.75	556.50	110.55	863.0000	2.75	2.2500	12065.00		16.20	0.210	1600.00	144000.000	4.00	50.75	3075.000	2.0000	1.38	3140	0.2750	12400.00	13.75	2545.00	13.75	0.14	3.4500	13.75	559000.000	1.38
P09-SIS1 N > DL		2	2	2	2	1	0	0	2	2	2	0	2	2	0	2	2	2	2	1	2	2	1	0	2	0	2	0	2	0	0	1	0	2	0
P09-SIS2	**6/9/2010**	<0.5	57.00	<2.0	26.000	<5000.0	<1.0	<0.5	498.00	250.00	1270.0000	<10.0	10.0000	1160.00		17.00	0.234	1920.00	165000.000	10.00	59.00	4340.000	1.5000	<2.0	3400	<4.0	12100.00	<1.0	2400.00	<50.0	<0.2	5.6000	<20.0	826000.000	<10.0
P09-SIS2	**7/24/2010**	0.4000	234.00	4.00	27.000	<500.0	<1.0	<10.0	422.00	172.00	914.0000	<10.0	10.0000	1900.00		16.30	0.223	1440.00	141000.000	<10.0	49.70	3290.000	<2.0	<5.0	2860	<1.0	11900.00	<50.0	2230.00	<50.0	<0.5	5.0000	<50.0	566000.000	<5.0
P09-SIS2	**9/13/2010**	0.4000	<30.0	2.00	25.000	<500.0	<1.0	<10.0	497.00	219.00	1230.0000	<10.0	317.0000	1520.00		16.80		1590.00	163000.000	<10.0	51.90	3830.000	<2.0	<5.0	3140	<1.0	12700.00	<50.0	2490.00	<50.0	<0.5	6.0000	<50.0	666000.000	<5.0
P09-SIS2	**11/2/2010**	0.6000	<60.0	<2.0	28.000	<1000.0	<2.0	<20.0	459.00	249.00	1180.0000	<20.0	7.0000	1130.00		15.00	0.184	1490.00	149000.000	<20.0	44.00	3560.000	<4.0	<10.0	3190	<2.0	12900.00	<100.0	2110.00	<100.0	<1.0	6.0000	<100.0	667000.000	<10.0
P09-SIS2 Average		0.4125	84.00	2.00	26.500	875.00	0.63	5.06	469.00	222.50	1148.5000	6.25	86.0000	1427.50		16.28	0.214	1610.00	154500.000	7.50	51.15	3755.000	1.3750	2.75	3148	1.0000	12400.00	25.13	2307.50	31.25	0.28	5.6500	27.50	681250.000	3.75
P09-SIS2 Max		0.6000	234.00	4.00	28.000	<5,000.0	<2.0	<20.0	498.00	250.00	1270.0000	<20.0	317.0000	1900.00		17.00	0.234	1920.00	165000.000	<20.0	59.00	4340.000	<4.0	<10.0	3400	<4.0	12900.00	<100.0	2490.00	<100.0	<1.0	6.0000	<100.0	826000.000	<10.0
P09-SIS2 Min		0.4000	<30.0	<2.0	25.000	<500.0	<1.0	<0.5	422.00	172.00	914.0000	<10.0	7.0000	1130.00		15.00	0.184	1440.00	141000.000	<10.0	44.00	3290.000	1.5000	<2.0	2860	<1.0	11900.00	<1.0	2110.00	<50.0	<0.2	5.0000	<20.0	566000.000	<5.0
P09-SIS2 N > DL		3	2	2	4	0	0	0	4	4	4	0	4	4	0	4	3	4	4	1	4	4	1	0	4	0	4	0	4	0	0	4	0	4	0
P09-SIS2 Median		0.3250	28.50	1.00	26.500	375.00	<1.0	<10.0	478.00	234.00	1205.0000	<10.0	10.0000	1340.00		16.55	0.223	1540.00	156000.000	7.50	50.80	3695.000	<2.0	<5.0	3165	0.7500	12400.00	<50.0	2315.00	<50.0	<0.5	5.8000	<50.0	666500.000	3.75
P09-SIS3	**6/9/2010**	0.8000	36.00	<1.0	21.000	<500.0	<1.0	<10.0	492.00	217.00	517.0000	<10.0	19.0000	213.00		15.40	0.207	1650.00	180000.000	<10.0	45.40	4400.000	<2.0	<5.0	3320	<1.0	13000.00	<50.0	2490.00	<50.0	<0.5	5.0000	<50.0	883000.000	<5.0
P09-SIS3	**7/24/2010**	0.4000	205.00	2.00	24.000	<500.0	<1.0	<10.0	341.00	141.00	305.0000	<10.0	17.0000	266.00		15.00	0.201	1210.00	101000.000	<10.0	41.40	2900.000	<2.0	<5.0	2350	<1.0	12100.00	<50.0	1980.00	<50.0	<0.5	3.0000	<50.0	493000.000	<5.0
P09-SIS3	**9/14/2010**	0.6000	<30.0	<1.0	25.000	<500.0	<1.0	<10.0	483.00	247.00	664.0000	<10.0	22.0000	184.00		17.30		1610.00	176000.000	<10.0	47.50	4210.000	<2.0	<5.0	3230	<1.0	13800.00	<50.0	2470.00	<50.0	<0.5	4.0000	<50.0	722000.000	<5.0
P09-SIS3	**11/2/2010**	0.5000	<60.0	<2.0	22.000	<1000.0	<2.0	<20.0	436.00	238.00	651.0000	<20.0	21.0000	214.00		15.00	0.183	1470.00	148000.000	<20.0	42.00	3670.000	<4.0	<10.0	2910	<2.0	13100.00	<100.0	2070.00	<100.0	<1.0	4.0000	<100.0	669000.000	<10.0
P09-SIS3 Average		0.5750	71.50	1.00	23.000	312.50	0.63	6.25	438.00	210.75	534.2500	6.25	19.7500	219.25		15.68	0.197	1485.00	151250.000	6.25	44.08	3795.000	1.2500	3.13	2953	0.6250	13000.00	31.25	2252.50	31.25	0.31	4.0000	31.25	691750.000	3.13
P09-SIS3 Max		0.8000	205.00	<2.0	25.000	<1,000.0	<2.0	<20.0	492.00	247.00	664.0000	<20.0	22.0000	266.00		17.30	0.207	1650.00	180000.000	<20.0	47.50	4400.000	<4.0	<10.0	3320	<2.0	13800.00	<100.0	2490.00	<100.0	<1.0	5.0000	<100.0	883000.000	<10.0
P09-SIS3 Min		0.4000	<30.0	<1.0	21.000	<500.0	<1.0	<10.0	341.00	141.00	305.0000	<10.0	17.0000	184.00		15.00	0.183	1210.00	101000.000	<10.0	41.40	2900.000	<2.0	<5.0	2350	<1.0	12100.00	<50.0	1980.00	<50.0	<0.5	3.0000	<50.0	493000.000	<5.0
P09-SIS3 N > DL		4	2	1	4	0	0	0	4	4	4	0	4	4	0	4	3	4	4	0	4	4	0	0	4	0	4	0	4	0	0	4	0	4	0
P09-SIS3 Median		0.5500	18.00	0.75	23.000	<500.0	<1.0	<10.0	459.50	227.50	584.0000	<10.0	20.0000	213.50		15.20	0.201	1540.00	162000.000	<10.0	43.70	3940.000	<2.0	<5.0	3070	<1.0	13050.00	<50.0	2270.00	<50.0	<0.5	4.0000	<50.0	695500.000	<5.0

NB: Metals reported in mg/L are shaded in grey.

Denison Environmental Services

Table C-7: Rose Creek Drainage Water Quality
2010 - Groundwater - Dissolved Metals

Faro Mine Closure

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
P96-6	6/15/2010	<0.005	2.60	0.11	18.700	<50.0	0.07	<0.005	188.00	0.22	0.0230	<0.1	0.6500	7.00		4.55	0.037	61.50	2.240	<0.05	7.62	13.900	0.1320	<0.02	153	2.8900	10600.00	<0.01	619.00	<0.5	0.00	26.1000	<0.2	419.000	<0.1
P96-6	9/21/2010	0.0100	20.80	0.32	23.700	<50.0	0.05	0.01	227.00	0.25	0.1430	<0.1	1.7600	42.00		4.66	0.037	65.40	5.820	0.23	6.04	10.700	3.3300	0.09	196	4.8100	9180.00	0.09	685.00	<0.5	0.01	35.1000	<0.2	340.000	<0.1
P96-6 Average		0.0063	11.70	0.22	21.200	25.00	0.06	0.01	207.50	0.23	0.0830	0.05	1.2050	24.50		4.61	0.037	63.45	4.030	0.13	6.83	12.300	1.7310	0.05	175	3.8500	9890.00	0.05	652.00	0.25	0.01	30.6000	0.10	379.500	0.05
P96-6 N > DL		1	2	2	2	0	2	1	2	2	2	0	2	2	0	2	2	2	2	1	2	2	2	1	2	2	2	1	2	0	2	2	0	2	0
P96-7	6/11/2010	<0.03	24.00	<0.1	9.300	<300.0	<0.05	<0.03	614.00	0.06	0.3600	<0.5	1.3000	317.00		6.20	0.035	184.00	164.000	1.00	17.70	4.700	0.3700	<0.1	770	0.7000	5340.00	<0.05	779.00	<3.0	<0.01	27.3000	<1.0	155.000	<0.5
P96-7	9/14/2010	<0.03	18.00	<0.1	12.500	<300.0	<0.05	<0.03	613.00	0.06	0.0700	<0.5	1.1000	53.00		6.00	0.029	232.00	2.300	0.80	18.10	1.100	0.2200	<0.1	802	0.4000	6110.00	<0.05	635.00	<3.0	<0.01	23.7000	<1.0	5.000	<0.5
P96-7 Average		0.0150	21.00	0.05	10.900	150.00	0.03	0.02	613.50	0.06	0.2150	0.25	1.2000	185.00		6.10	0.032	208.00	83.150	0.90	17.90	2.900	0.2950	0.05	786	0.5500	5725.00	0.03	707.00	1.50	0.01	25.5000	0.50	80.000	0.25
P96-7 N > DL		0	2	0	2	0	0	0	2	2	2	0	2	2	0	2	2	2	2	2	2	2	2	0	2	2	2	0	2	0	0	2	0	2	0
P96-8A	6/9/2010	<0.5	861.00	<2.0	20.000	<5000.0	3.00	<0.5	460.00	144.00	1330.0000	<10.0	15.0000	93900.00		17.00	0.197	1230.00	104000.000	<5.0	63.00	1210.000	38.7000	<2.0	2520	<4.0	13700.00	<1.0	3990.00	<50.0	<0.2	2.3000	<20.0	576000.000	<10.0
P96-8A	9/14/2010	<0.3	340.00	<1.0	19.000	<3000.0	1.20	<0.3	445.00	103.00	1160.0000	<5.0	10.0000	84200.00		20.00	0.214	1200.00	104000.000	<3.0	56.00	1090.000	29.9000	<1.0	2470	<2.0	12800.00	<0.5	4230.00	<30.0	0.20	2.0000	<10.0	449000.000	<5.0
P96-8A Average		0.2000	600.50	0.75	19.500	2000.00	2.10	0.20	452.50	123.50	1245.0000	3.75	12.5000	89050.00		18.50	0.206	1215.00	104000.000	2.00	59.50	1150.000	34.3000	0.75	2495	1.5000	13250.00	0.38	4110.00	20.00	0.15	2.1500	7.50	512500.000	3.75
P96-8A N > DL		0	2	0	2	0	2	0	2	2	2	0	2	2	0	2	2	2	2	0	2	2	2	0	2	0	2	0	2	0	1	2	0	2	0
P96-8B	6/9/2010	<0.5	4770.00	<2.0	13.000	<5000.0	5.00	<0.5	393.00	220.00	1910.0000	<10.0	152.0000	41000.00		17.00	0.217	1090.00	114000.000	19.00	71.00	1690.000	20.7000	<2.0	2280	<4.0	12700.00	<1.0	3660.00	<50.0	0.30	2.4000	<20.0	791000.000	<10.0
P96-8B	9/15/2010	0.7000	3750.00	3.00	14.000	<5000.0	5.00	<0.5	416.00	155.00	1800.0000	<10.0	185.0000	10600.00		19.00	0.221	1070.00	118000.000	<5.0	68.00	1710.000	31.6000	<2.0	2560	<4.0	15600.00	<1.0	3910.00	87.00	0.60	3.4000	<20.0	706000.000	<10.0
P96-8B Average		0.4750	4260.00	2.00	13.500	2500.00	5.00	0.25	404.50	187.50	1855.0000	5.00	168.5000	25800.00		18.00	0.219	1080.00	116000.000	10.75	69.50	1700.000	26.1500	1.00	2420	2.0000	14150.00	0.50	3785.00	56.00	0.45	2.9000	10.00	748500.000	5.00
P96-8B N > DL		1	2	1	2	0	2	0	2	2	2	0	2	2	0	2	2	2	2	1	2	2	2	0	2	0	2	0	2	1	2	2	0	2	0
S1A	6/9/2010	<0.005	10.00	0.04	17.800	<50.0	0.04	0.01	34.90	0.76	3.6100	<0.1	0.4200	1550.00		2.94	0.046	57.40	4300.000	<0.05	5.04	12.000	0.1810	<0.02	103	<0.04	6940.00	<0.01	217.00	<0.5	0.00	0.0850	<0.2	3090.000	<0.1
S1A	9/14/2010	<0.005	3.40	0.04	28.300	<50.0	0.02	<0.005	15.10	0.34	1.3100	<0.1	0.4300	529.00		2.19	0.032	24.40	1920.000	<0.05	3.12	4.740	0.2100	<0.02	34	<0.04	7040.00	<0.01	119.00	<0.5	0.00	0.0690	<0.2	1120.000	<0.1
S1A Average		0.0025	6.70	0.04	23.050	25.00	0.03	0.00	25.00	0.55	2.4600	0.05	0.4250	1039.50		2.57	0.039	40.90	3110.000	0.03	4.08	8.370	0.1955	0.01	69	0.0200	6990.00	0.01	168.00	0.25	0.00	0.0770	0.10	2105.000	0.05
S1A N > DL		0	2	2	2	0	2	1	2	2	2	0	2	2	0	2	2	2	2	0	2	2	2	0	2	0	2	0	2	0	2	2	0	2	0
S2A	6/9/2010	0.0120	39.10	0.15	17.300	<50.0	0.08	<0.005	210.00	0.95	14.6000	0.30	0.4000	13000.00		5.43	0.050	80.20	3840.000	0.06	11.00	42.000	0.2310	0.03	185	<0.04	14300.00	0.03	729.00	1.30	0.01	5.3300	<0.2	4910.000	2.40
S2A	9/14/2010	<0.005	14.60	0.14	18.400	<50.0	0.11	0.03	187.00	0.91	12.6000	<0.1	0.5900	14900.00		5.82	0.054	79.10	3090.000	0.07	10.10	34.500	0.3150	0.03	169	<0.04	16200.00	<0.01	664.00	<0.5	0.01	3.7100	<0.2	2790.000	<0.1
S2A Average		0.0073	26.85	0.15	17.850	25.00	0.10	0.02	198.50	0.93	13.6000	0.18	0.4950	13950.00		5.63	0.052	79.65	3465.000	0.07	10.55	38.250	0.2730	0.03	177	0.0200	15250.00	0.02	696.50	0.78	0.01	4.5200	0.10	3850.000	1.23
S2A N > DL		1	2	2	2	0	2	1	2	2	2	1	2	2	0	2	2	2	2	2	2	2	2	2	2	0	2	1	2	1	2	2	0	2	1
S2B	9/14/2010	<0.3	51.00	<1.0	21.000	<3000.0	<0.5	<0.3	518.00	17.00	378.0000	<5.0	4.0000	38500.00		14.00	0.183	1300.00	120000.000	<3.0	40.00	1560.000	0.5000	<1.0	2580	<2.0	12200.00	<0.5	2450.00	<30.0	<0.1	0.7000	<10.0	393000.000	<5.0
SRK04-3A	9/22/2010	0.5000	1730.00	46.00	13.000	<3000.0	1.90	<0.3	413.00	51.60	1430.0000	<5.0	<3.0	745000.00		15.00	0.171	997.00	106000.000	<3.0	57.00	1220.000	49.4000	<1.0	2500	<2.0	18200.00	<0.5	3940.00	<30.0	0.20	6.1000	<10.0	490000.000	<5.0
SRK05-ETA-BR1	9/22/2010	0.5000	893.00	8.00	12.000	<3000.0	1.10	<0.3	410.00	41.80	1360.0000	<5.0	<3.0	775000.00		12.00	0.135	752.00	99600.000	<3.0	52.00	1210.000	46.4000	<1.0	2180	<2.0	17000.00	<0.5	4330.00	<30.0	0.40	4.9000	<10.0	523000.000	<5.0
SRK05-ETA-BR2	9/22/2010	<0.03	9.00	0.50	44.900	<300.0	0.12	<0.03	463.00	0.29	56.7000	2.30	0.4000	46000.00		3.70	0.015	107.00	6000.000	<0.3	26.00	53.300	3.9300	<0.1	630	<0.2	8540.00	<0.05	6110.00	<3.0	<0.01	0.9100	<1.0	21100.000	0.70
SRK05-SP1A	9/14/2010	<0.02	112.00	4.00	20.000	<50.0	2.60	<1.0	220.00	0.09	7.7000	2.00	0.9000	62400.00		5.58		86.10	2050.000	<1.0	17.30	27.000	3.3000	<0.5	289	<0.1	14700.00	<5.0	1050.00	<5.0	<0.05	0.3000	<5.0	2140.000	<0.5
SRK05-SP1B	9/14/2010	<0.02	12.00	14.80	57.000	<50.0	<0.1	<1.0	128.00	0.11	2.4000	<1.0	0.7000	17200.00		4.90		53.60	659.000	<1.0	10.20	7.000	0.8000	<0.5	93	2.7000	12400.00	<5.0	643.00	<5.0	<0.05	2.4000	<5.0	342.000	<0.5
SRK05-SP2	9/14/2010	<0.02	12.00	<0.1	59.000	<50.0	<0.1	<1.0	52.20	0.16	4.4000	<1.0	0.9000	34.00		2.07		13.30	1390.000	<1.0	6.29	6.000	0.4000	<0.5	15	<0.1	7730.00	<5.0	261.00	<5.0	<0.05	1.1000	<5.0	171.000	<0.5
SRK05-SP3A	9/14/2010	<0.02	38.00	2.10	17.000	<50.0	0.90	<1.0	186.00	0.07	5.8000	<1.0	<0.2	28400.00		4.94		76.10	1270.000	<1.0	10.20	18.000	0.4000	<0.5	186	<0.1	12700.00	<5.0	831.00	<5.0	<0.05	2.1000	<5.0	1470.000	<0.5
SRK05-SP3B	9/14/2010	<0.02	52.00	0.70	18.000	<50.0	0.60	<1.0	155.00	0.14	8.6000	<1.0	0.5000	30100.00		5.43		55.60	1690.000	<1.0	9.98	25.000	0.7000	<0.5	135	<0.1	13200.00	<5.0	668.00	<5.0	<0.05	1.6000	<5.0	1660.000	<0.5
SRK05-SP4A	6/9/2010	<0.02	44.00	3.60	17.000	<50.0	1.00	<1.0	129.00	0.18	9.7000	<1.0	0.6000	22200.00		4.66	0.065	49.50	1330.000	16.00	10.20	26.000	0.4000	<0.5	104	<0.1	16100.00	<5.0	614.00	<5.0	<0.05	0.8000	<5.0	1960.000	<0.5
SRK05-SP4A	9/13/2010	<0.02	56.00	3.30	17.000	<50.0	1.00	<1.0	132.00	0.25	10.1000	<1.0	1.1000	23500.00		5.07		52.20	1360.000	<1.0	10.70	27.000	0.8000	<0.5	105	<0.1	15500.00	<5.0	637.00	<5.0	<0.05	0.8000	<5.0	1820.000	<0.5
SRK05-SP4A Average		0.0100	50.00	3.45	17.000	25.00	1.00	0.50	130.50	0.22	9.9000	0.50	0.8500	22850.00		4.87	0.065	50.85	1345.000	8.25	10.45	26.500	0.6000	0.25	105	0.0500	15800.00	2.50	625.50	2.50	0.03	0.8000	2.50	1890.000	0.25
SRK05-SP4A N > DL		0	2	2	2	0	2	0	2	2	2	0	2	2	0	2	1	2	2	1	2	2	2	0	2	0	2	0	2	0	0	2	0	2	0
SRK05-SP5	9/14/2010	<0.2	<30.0	<1.0	17.000	<500.0	<1.0	<10.0	353.00	87.60	472.0000	<10.0	52.0000	207.00		11.60		872.00	91900.000	<10.0	30.70	2160.000	<2.0	<5.0	1740	<1.0	13400.00	<50.0	1620.00	<50.0	<0.5	4.0000	<50.0	363000.000	<5.0
SRK08-P10A	6/9/2010	<0.03	7.00	0.40	24.700	<300.0	<0.05	<0.03	758.00	0.50	4.7500	<0.5	2.0000	74.00		14.90	0.009	86.80	118.000	0.80	124.00	13.900	0.4400	<0.1	677	<0.2	9470.00	<0.05	1480.00	<3.0	0.02	39.1000	<1.0	636.000	1.50
SRK08-P11A	6/9/2010	<0.005	4.60	0.13	67.500	<50.0	<0.01	0.13	136.00	0.02	0.0370	<0.1	1.2400	12.00		3.17	0.010	21.40	2.090	0.26	6.53	1.180	0.6880	0.08	94	0.3800	6450.00	<0.01	491.00	<0.5	0.00	1.7700	<0.2	11.500	0.80
SRK08-P11A	9/15/2010	<0.005	3.10	0.16	68.800	<50.0	<0.01	<0.005	135.00	0.02	0.0870	<0.1	1.3800	8.00		3.13	0.011	22.60	9.100	0.96	6.18	1.300	0.5690	0.08	97	0.2200	7080.00	0.02	485.00	<0.5	0.01	1.8600	<0.2	29.200	<1.0
SRK08-P11A Average		0.0025	3.85	0.15	68.150	25.00	0.01	0.07	135.50	0.02	0.0620	0.05	1.3100	10.00		3.15	0.010	22.00	5.595	0.61	6.36	1.240	0.6285	0.08	96	0.3000	6765.00	0.01	488.00	0.25	0.00	1.8150	0.10	20.350	0.65
SRK08-P11A N > DL		0	2	2	2	0	0	1	2	2	2	0	2	2	0	2	2	2	2	2	2	2	2	2	2	2	2	1	2	0	2	2	0	2	1
SRK08-P11B	6/9/2010	<0.005	4.00	0.10	35.200	<50.0	<0.01	0.01	148.00	0.27	0.0740	<0.1	1.1500	12.00		3.12	0.010	37.20	242.000	0.21	8.25	7.950	0.5780	0.04	143	0.1300	6780.00	<0.01	551.00	<0.5	0.02	1.4600	<0.2	41.000	<0.1
SRK08-P11B	9/15/2010	<0.03	9.00	0.20	55.400	<300.0	<0.05	<0.03	184.00	0.76	0.5800	<0.5	2.3000	65.00		3.80	0.013	49.80	620.000	1.00	10.10	14.300	1.3000	<0.1	204	<0.2	7230.00	0.08	674.00	<3.0	0.03	1.8500	<1.0	251.000	<5.0
SRK08-P11B Average		0.0088	6.50	0.15	45.300	87.50	0.02	0.01	166.00	0.51	0.3270	0.15	1.7250	38.50		3.46	0.011	43.50	431.000	0.61	9.18	11.125	0.9390	0.05	174	0.1150	7005.00	0.04	612.50	0.88	0.02	1.6550	0.30	146.000	1.28
SRK08-P11B N > DL		0	2	2	2	0	0	1	2	2	2	0	2	2	0	2	2	2	2	2	2	2	2	1	2	1	2	1	2	0	2	2	0	2	0
SRK08-P12A	9/16/2010	0.1900	30.00	0.60	32.800	<300.0	0.73	<0.03	178.00	<0.03	8.2000	<0.5	<0.3	14300.00		2.90	0.099	46.40	816.000	<0.3	21.80	15.500	0.8600	<0.1	<50.0	<0.2	10900.00	<0.05	1050.00	6.00	0.06	0.5000	<1.0	967.000	0.70
SRK08-P12B	9/16/2010	<0.005	43.40	0.04	106.000	<50.0	0.47	0.01	133.00	0.07	3.6300	0.20	0.3400	5160.00		3.80	0.093	32.60	538.000	<0.05	16.40	5.960	0.3740	<0.02	39	<0.04	11300.00	<0.01	853.00	<0.5	0.05	1.3800	<0.2	233.000	<0.1
SRK08-SBR2	9/14/2010	<0.02	29.00	1.90	23.000	<50.0	0.30	<1.0	196.00	1.16	14.9000	<1.0	0.5000	17400.00		5.38		85.20	3230.000	<1.0	10.60	51.000	1.3000	<0.5	184	<0.1	15300.00	<5.0	728.00	<5.0	<0.05	1.9000	<5.0	6150.000	<0.5
SRK08-SBR3	9/14/2010	<0.02	21.00	0.30	13.000	<50.0	<0.1	<1.0	388.00	0.10	16.1000	<1.0	1.4000	<5.0		7.92		232.00	149.000	<1.0	47.30	94.000	0.3000	<0.5	498	0.7000	4980.00	<5.0	1110.00	<5.0	0.06	33.3000	<5.0	95.000	<0.5
SRK08-SBR4	9/14/2010	0.0500	52.00	2.50	14.000	<50.0	0.30	<1.0	294.00	2.12	31.1000	<1.0	1.7000	7150.00		7.91		236.00	11000.000	<1.0	19.10	273.000	<0.2	<0.5	584	<0.1	11500.00	<5.0	1120.00	<5.0	<0.05	1.8000	<5.0	27300.000	<0.5
SRK08-SP7A	6/9/2010	<0.02	17.00	6.50	14.000	<50.0	0.60	<1.0	439.00	0.21	23.6000	<1.0	0.3000	57600.00		7.79	0.076	157.00	4630.000	2.00	15.90	58.000	0.3000	<0.5	655	<0.1	15300.00	<5.0	1580.00	<5.0	<0.05	1.2000	<5.0	1930.000	<0.5
SRK08-SP7A	7/25/2010	<0.02	17.00	6.10	13.000	<50.0	0.50	<1.0	374.00	0.47	19.1000	<1.0	<0.2	48900.00		7.64	0.076	135.00	3900.000	<1.0	15.00	47.000	0.9000	<0.5	535	<0.1	14400.00	<5.0	1300.00	<5.0	<0.05	0.8000	<5.0	1750.000	<0.5
SRK08-SP7A	9/13/2010	<0.02	14.00	5.30	12.000	<50.0	0.40	<1.0	337.00	0.12	17.0000	<1.0	0.3000	44500.00		7.07		118.00	3380.000	<1.0	15.60	43.000	0.4000	<0.5	468	<0.1	14600.00	<5.0	1170.00	<5.0	<0.05	0.7000	<5.0	1390.000	<0.5
SRK08-SP7A	11/2/2010	<0.02	31.00	4.80	12.000	<50.0	0.40	<1.0	353.00	0.07	13.7000	<1.0	0.3000	46600.00		6.61	0.060	105.00	2800.000	<1.0	15.30	35.000	<0.2	<0.5	412	<0.1	18700.00	<5.0	949.00	<5.0	<0.05	0.4000	<5.0	1150.000	<0.5
SRK08-SP7A Average		0.0100	19.75	5.68	12.750	25.00	0.48	0.50	375.75	0.22	18.3500	0.50	0.2500	49400.00		7.28	0.071	128.75	3677.500	0.88	15.45	45.750	0.4250	0.25	518	0.0500	15750.00	2.50	1249.75	2.50	0.03	0.7750	2.50	1555.000	0.25
SRK08-SP7A Max		<0.02	31.00	6.50	14.000	<50.0	0.60	<1.0	439.00	0.47	23.6000	<1.0	0.3000	57600.00		7.79	0.076	157.00	4630.000	2.00	15.90	58.000	0.9000	<0.5	655	<0.1	18700.00	<5.0	1580.00	<5.0	<0.05	1.2000	<5.0	1930.000	<0.5
SRK08-SP7A Min		<0.02	14.00	4.80	12.000	<50.0	0.40	<1.0	337.00	0.07	13.7000	<1.0	<0.2	44500.00		6.61	0.060	105.00	2800.000	<1.0	15.00	35.000	<0.2	<0.5	412	<0.1	14400.00	<5.0	949.00	<5.0	<0.05	0.4000	<5.0	1150.000	<0.5
SRK08-SP7A N > DL		0	4	4	4	0	4	0	4	4	4	0	3	4	0	4	3	4	4	1	4	4	3	0	4	0	4	0	4	0	0	4	0	4	0
SRK08-SP7A Median		<0.02	17.00	5.70	12.500	<50.0	0.45	<1.0	363.50	0.17	18.0500	<1.0	0.3000	47750.00		7.36	0.076	126.50	3640.000	<1.0	15.45	45.000	0.3500	<0.5	502	<0.1	14950.00	<5.0	1235.00	<5.0	<0.05	0.7500	<5.0	1570.000	<0.5
SRK08-SP7B	6/9/2010	<0.02	18.00	2.00	51.000	<50.0	<0.1	<1.0	18.40	0.02	1.5000	<1.0	0.3000	3360.00		2.03	0.026	28.10	2260.000	<1.0	3.41	7.000	0.3000	<0.5	42	<0.1	7440.00	<5.0	132.00	<5.0	<0.05	<0.1	<5.0	2420.000	<0.5
SRK08-SP7B	7/25/2010	0.0300	10.00	0.80	34.000	<50.0	<0.1	<1.0	11.00	0.39	0.9000	<1.0	0.9000	1870.00		3.15	0.021	12.20	1080.000	<1.0	2.63	4.000	2.2000	<0.5	15	<0.1	6940.00	<5.0	96.00	<5.0	<0.05	<0.1	<5.0	1330.000	<0.5
SRK08-SP7B	9/13/2010	<0.02	18.00	2.40	49.000	<50.0	<0.1	<1.0	13.50	0.07	1.2000	<1.0	0.4000	2340.00		2.09		17.80	1540.000	<1.0	3.39	7.000	0.5000	<0.5	21	<0.1	7840.00	<5.0	115.00	<5.0	<0.05	<0.1	<5.0	1930.000	<0.5
SRK08-SP7B	11/2/2010	<0.02	34.00	1.90	69.000	<50.0	<0.1	<1.0	13.70	<0.01	1.0000	<1.0	2.0000	2130.00		2.21	0.021	22.80	1560.000	<1.0	3.61	11.000	<0.2	<0.5	27	<0.1	7990.00	<5.0	104.00	<5.0	<0.05	<0.1	<5.0	3420.000	<0.5
SRK08-SP7B Average		0.0150	20.00	1.78	50.750	25.00	0.05	0.50	14.15	0.12	1.1500	0.50	0.9000	2425.00		2.37	0.023	20.23	1610.000	0.50	3.26	7.250	0.7750	0.25	26	0.0500	7552.50	2.50	111.75	2.50	0.03	0.0500	2.50	2275.000	0.25
SRK08-SP7B Max		0.0300	34.00	2.40	69.000	<50.0	<0.1	<1.0	18.40	0.39	1.5000	<1.0	2.0000	3360.00		3.15	0.026	28.10	2260.000	<1.0	3.61	11.000	2.2000	<0.5	42	<0.1	7990.00	<5.0	132.00	<5.0	<0.05	<0.1	<5.0	3420.000	<0.5
SRK08-SP7B Min		<0.02	10.00	0.80	34.000	<50.0	<0.1	<1.0	11.00	<0.01	0.9000	<1.0	0.3000	1870.00		2.03	0.021	12.20	1080.000	<1.0	2.63	4.000	<0.2	<0.5	15	<0.1	6940.00	<5.0	96.00	<5.0	<0.05	<0.1	<5.0	1330.000	<0.5
SRK08-SP7B N > DL		1	4	4	4	0	0	0	4	3	4	0	4	4	0	4	3	4	4	0	4	4	3	0	4	0	4	0	4	0	0	0	0	4	0
SRK08-SP7B Median		<0.02	18.00	1.95	50.000	<50.0	<0.1	<1.0	13.60	0.05	1.1000	<1.0	0.6500	2235.00		2.15	0.021	20.30	1550.000	<1.0	3.40	7.000	0.4000	<0.5	24	<0.1	7640.00	<5.0	109.50	<5.0	<0.05	<0.1	<5.0	2175.000	<0.5
SRK08-SP8A	9/13/2010	<0.02	11.00	6.50	16.000	<50.0	0.30	<1.0	280.00	0.05	6.3000	<1.0	0.7000	27800.00		4.97		116.00	2040.000	<1.0	19.00	21.000	0.7000	<0.5	343	<0.1	14200.00	<5.0	1330.00	<5.0	<0.05	1.3000	<5.0	456.000	0.70

NB: Metals reported in mg/L are shaded in grey.

Table C-7: Rose Creek Drainage Water Quality
2010 - Groundwater - Dissolved Metals

		Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	Hg-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	S-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
Station	**Date**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SRK08-SP8B	**9/13/2010**	<0.02	20.00	2.00	21.000	<50.0	<0.1	<1.0	202.00	0.08	6.6000	<1.0	0.3000	20000.00		3.91		91.30	1740.000	<1.0	14.80	14.000	<0.2	<0.5	241	<0.1	12500.00	<5.0	882.00	<5.0	<0.05	1.7000	<5.0	413.000	<0.5
SRK08-SPW1	**1/6/2010**	<0.005	33.60	5.43	17.200	<50.0	0.94	<0.005	174.00	0.27	10.2000	<0.1	0.3700	22700.00		5.30	0.063	65.40	1650.000	0.14	11.50	31.900	0.5300	0.03	152	<0.04	16400.00	<0.01	686.00	<0.5	<0.002	1.0300	<0.2	2290.000	<0.1
SRK08-SPW1	**2/17/2010**	<0.02	31.00	4.50	17.000	<50.0	1.10	<1.0	136.00	0.14	9.4000	<1.0	0.9000	21700.00	0.03	4.21	0.063	52.60	1320.000	<1.0	10.10	30.000	0.6000	<0.5	101	<0.1	14200.00	<5.0	644.00	<5.0	<0.05	1.0000	<5.0	1570.000	<0.5
SRK08-SPW1	**3/9/2010**	<0.005	33.60	5.03	16.400	<50.0	1.09	<0.005	163.00	0.11	9.8700	<0.1	1.4600	24800.00		5.27	0.063	59.50	1370.000	0.10	12.10	25.000	0.4730	0.08	131	0.0600	16600.00	<0.01	682.00	<0.5	<0.002	0.9600	<0.2	1510.000	<0.1
SRK08-SPW1	**4/13/2010**	<0.005	30.60	3.75	15.600	<50.0	1.10	<0.005	131.00	0.12	8.1700	<0.1	1.7900	21900.00		4.28	0.061	46.20	1070.000	0.14	9.23	20.800	0.3490	0.11	97	<0.04	14100.00	<0.01	622.00	<0.5	<0.002	0.8600	<0.2	1290.000	<0.1
SRK08-SPW1	**5/3/2010**	<0.005	32.60	4.13	16.000	<50.0	1.04	<0.005	141.00	0.12	9.4200	<0.1	1.1600	22200.00		4.62	0.062	51.90	1250.000	0.12	10.30	24.400	0.2520	0.07	107	<0.04	12700.00	<0.01	625.00	<0.5	0.01	0.8420	<0.2	1400.000	<0.1
SRK08-SPW1	**6/13/2010**	<0.02	38.00	4.10	17.000	<50.0	1.30	<1.0	143.00	0.19	9.0000	<1.0	1.6000	24100.00		5.02	0.065	53.70	1270.000	<1.0	10.60	26.000	4.6000	<0.5	113	<0.1	16400.00	<5.0	672.00	<5.0	<0.05	0.8000	<5.0	1720.000	<0.5
SRK08-SPW1	**7/10/2010**	<0.005	34.00	4.52	16.500	<50.0	0.93	<0.005	147.00	0.15	9.6700	<0.1	1.0400	25100.00		4.97	0.059	54.20	1350.000	0.11	10.90	25.600	0.8070	0.08	121	<0.04	16500.00	<0.01	665.00	<0.5	<0.002	0.7930	<0.2	1520.000	<0.1
SRK08-SPW1	**8/3/2010**	<0.005	36.10	4.79	17.700	<50.0	1.10	<0.005	140.00	0.17	10.0000	0.20	17.3000	24700.00		5.13	0.064	55.70	1360.000	0.10	11.30	28.200	1.5600	0.09	121	<0.04	14400.00	<0.01	654.00	<0.5	<0.002	0.8500	<0.2	1630.000	<0.1
SRK08-SPW1	**9/1/2010**	<0.02	33.00	4.00	17.000	<50.0	1.00	<1.0	138.00	0.14	9.1000	<1.0	0.9000	23800.00		4.96	0.062	55.00	1310.000	<1.0	10.70	26.000	1.5000	<0.5	114	<0.1	17000.00	<5.0	632.00	<5.0	<0.05	0.7000	<5.0	1560.000	<0.5
SRK08-SPW1	**10/7/2010**	<0.02	31.00	4.50	17.000	<50.0	1.10	<1.0	143.00	0.12	10.0000	<1.0	0.8000	25400.00		5.17	0.065	56.00	1400.000	<1.0	12.10	26.000	0.3000	<0.5	124	<0.1	16900.00	<5.0	694.00	<5.0	<0.05	0.8000	<5.0	1470.000	<0.5
SRK08-SPW1	**11/8/2010**	<0.02	30.00	4.10	15.000	<50.0	0.80	<1.0	140.00	0.28	9.8000	<1.0	1.0000	25300.00		4.98	0.049	55.00	1410.000	<1.0	11.70	25.000	0.3000	<0.5	122	<0.1	16300.00	<5.0	692.00	<5.0	<0.05	0.8000	<5.0	1850.000	<0.5
SRK08-SPW1 Average		0.0059	33.05	4.44	16.582	25.00	1.05	0.23	145.09	0.16	9.5118	0.27	2.5745	23790.91	0.03	4.90	0.061	55.02	1341.818	0.29	10.96	26.264	1.0246	0.16	118	0.0373	15590.91	1.14	660.73	1.27	0.01	0.8577	1.19	1619.091	0.14
SRK08-SPW1 Max		<0.02	38.00	5.43	17.700	<50.0	1.30	<1.0	174.00	0.28	10.2000	<1.0	17.3000	25400.00	0.03	5.30	0.065	65.40	1650.000	<1.0	12.10	31.900	4.6000	<0.5	152	<0.1	17000.00	<5.0	694.00	<5.0	<0.05	1.0300	<5.0	2290.000	<0.5
SRK08-SPW1 Min		<0.005	30.00	3.75	15.000	<50.0	0.80	<0.005	131.00	0.11	8.1700	<0.1	0.3700	21700.00	0.03	4.21	0.049	46.20	1070.000	0.10	9.23	20.800	0.2520	0.03	97	<0.04	12700.00	<0.01	622.00	<0.5	<0.002	0.7000	<0.2	1290.000	<0.1
SRK08-SPW1 N > DL		0	11	11	11	0	11	0	11	11	11	1	11	11	1	11	11	11	11	6	11	11	11	6	11	1	11	0	11	0	1	11	0	11	0
SRK08-SPW1 Median		<0.005	33.00	4.50	17.000	<50.0	1.09	<0.005	141.00	0.14	9.6700	0.20	1.0400	24100.00	0.03	4.98	0.063	55.00	1350.000	0.14	10.90	26.000	0.5300	0.11	121	0.0600	16400.00	<0.01	665.00	<0.5	0.01	0.8420	<0.2	1560.000	<0.1
SRK08-SPW2	**1/6/2010**	<0.1	11.00	<0.4	15.700	<1000.0	<0.2	<0.1	426.00	36.80	122.0000	<2.0	3.0000	1410.00		11.00	0.135	690.00	50500.000	<1.0	34.10	1090.000	0.4000	<0.4	1510	<0.8	13200.00	<0.2	1530.00	<10.0	<0.04	6.3000	<4.0	185000.000	<2.0
SRK08-SPW2	**2/17/2010**	0.1600	19.00	<0.4	15.000	<200.0	<0.4	<4.0	344.00	35.60	132.0000	<4.0	3.8000	1520.00	<0.08	9.00	0.128	624.00	50400.000	<4.0	30.30	1130.000	1.1000	<2.0	1230	<0.4	10900.00	<20.0	1430.00	<20.0	<0.2	5.5000	<20.0	193000.000	<2.0
SRK08-SPW2	**3/9/2010**	0.0800	9.00	<0.2	14.100	<500.0	<0.1	<0.05	361.00	31.20	135.0000	<1.0	2.4000	1790.00		9.90	0.124	610.00	45400.000	<0.5	29.70	1030.000	0.2300	<0.2	1300	<0.4	11400.00	<0.1	1410.00	<5.0	<0.02	5.5800	<2.0	176000.000	<1.0
SRK08-SPW2	**4/13/2010**	<0.1	8.00	<0.4	13.700	<1000.0	<0.2	<0.1	285.00	27.20	129.0000	<2.0	3.0000	1620.00		8.00	0.116	474.00	36700.000	<1.0	22.00	855.000	0.4000	<0.4	845	<0.8	9490.00	<0.2	1200.00	<10.0	0.06	5.3700	<4.0	144000.000	<2.0
SRK08-SPW2	**5/3/2010**	0.3000	11.00	<0.4	16.300	<1000.0	<0.2	<0.1	317.00	29.70	166.0000	<2.0	2.0000	1810.00		9.00	0.118	550.00	45600.000	<1.0	25.00	1060.000	0.4000	<0.4	966	<0.8	9330.00	<0.2	1290.00	<10.0	0.13	5.6300	<4.0	177000.000	<2.0
SRK08-SPW2	**6/13/2010**	0.1100	8.00	0.20	13.000	<50.0	<0.1	<1.0	299.00	27.70	152.0000	<1.0	2.4000	2000.00		8.77	0.110	503.00	39500.000	<1.0	22.90	876.000	0.7000	<0.5	1020	<0.1	12000.00	<5.0	1210.00	<5.0	<0.05	4.5000	<5.0	148000.000	<0.5
SRK08-SPW2	**7/10/2010**	<0.1	11.00	<0.4	15.400	<1000.0	<0.2	<0.1	263.00	28.50	172.0000	<2.0	4.0000	2140.00		9.00	0.098	497.00	40100.000	<1.0	24.00	934.000	1.4000	<0.4	890	<0.8	10700.00	<0.2	1140.00	<10.0	<0.04	3.9600	<4.0	163000.000	<2.0
SRK08-SPW2	**8/3/2010**	<0.1	14.00	0.50	15.200	<1000.0	<0.2	<0.1	251.00	29.10	178.0000	<2.0	3.0000	1990.00		8.00	0.105	467.00	37500.000	<1.0	22.00	904.000	1.3000	<0.4	973	<0.8	9230.00	<0.2	1040.00	<10.0	<0.04	4.1300	<4.0	153000.000	<2.0
SRK08-SPW2	**9/1/2010**	0.0900	10.00	0.40	14.000	<100.0	<0.2	<2.0	250.00	28.40	190.0000	<2.0	1.9000	2100.00		7.80	0.104	463.00	38100.000	<2.0	21.90	823.000	0.6000	<1.0	954	<0.2	12000.00	<10.0	1020.00	<10.0	<0.1	3.5000	<10.0	141000.000	<1.0
SRK08-SPW2	**10/7/2010**	0.1200	11.00	0.40	16.000	<100.0	<0.2	<2.0	284.00	31.00	248.0000	<2.0	2.0000	2560.00		8.50	0.102	490.00	40800.000	<2.0	23.90	908.000	<0.4	<1.0	974	<0.2	10400.00	<10.0	1110.00	<10.0	<0.1	3.7000	<10.0	159000.000	<1.0
SRK08-SPW2	**11/8/2010**	<0.02	9.00	<0.1	14.000	<50.0	<0.1	<1.0	238.00	29.00	202.0000	<1.0	2.5000	2900.00		7.47	0.065	453.00	35100.000	<1.0	21.80	760.000	0.6000	<0.5	917	<0.1	10200.00	<5.0	1020.00	<5.0	<0.05	3.5000	<5.0	163000.000	<0.5
SRK08-SPW2	**12/1/2010**	0.1300	18.00	<0.4	18.000	<200.0	<0.4	<4.0	268.00	32.10	242.0000	<4.0	4.5000	2470.00		8.60	0.111	508.00	39400.000	<4.0	21.50	927.000	<0.8	<2.0	1020	<0.4	11200.00	<20.0	1120.00	<20.0	<0.2	4.0000	<20.0	153000.000	<2.0
SRK08-SPW2 Average		0.1000	11.58	0.24	15.033	258.33	0.10	0.61	298.83	30.53	172.3333	1.04	2.8750	2025.83	0.04	8.75	0.110	527.42	41591.667	0.81	24.93	941.417	0.6442	0.38	1050	0.2417	10837.50	2.96	1210.00	5.21	0.05	4.6392	3.83	162916.667	0.75
SRK08-SPW2 Max		0.3000	19.00	0.50	18.000	<1,000.0	<0.4	<4.0	426.00	36.80	248.0000	<4.0	4.5000	2900.00	<0.08	11.00	0.135	690.00	50500.000	<4.0	34.10	1130.000	1.4000	<2.0	1510	<0.8	13200.00	<20.0	1530.00	<20.0	<0.2	6.3000	<20.0	193000.000	<2.0
SRK08-SPW2 Min		<0.02	8.00	<0.1	13.000	<50.0	<0.1	<0.05	238.00	27.20	122.0000	<1.0	1.9000	1410.00	<0.08	7.47	0.065	453.00	35100.000	<0.5	21.50	760.000	0.2300	<0.2	845	<0.1	9230.00	<0.1	1020.00	<5.0	<0.02	3.5000	<2.0	141000.000	<0.5
SRK08-SPW2 N > DL		7	12	4	12	0	0	0	12	12	12	0	12	12	0	12	12	12	12	0	12	12	10	0	12	0	12	0	12	0	2	12	0	12	0
SRK08-SPW2 Median		<0.1	11.00	<0.4	15.100	175.00	<0.2	0.28	284.50	29.40	169.0000	<2.0	2.7500	1995.00	<0.08	8.69	0.111	500.00	39800.000	<1.0	23.40	917.500	0.6000	0.23	974	<0.4	10800.00	1.30	1170.00	<10.0	0.04	4.3150	2.25	161000.000	<2.0
SRK08-SPW3	**1/6/2010**	0.2000	25.00	2.10	17.300	<1000.0	0.40	<0.1	371.00	81.20	264.0000	<2.0	7.0000	7740.00		10.50	0.132	739.00	68000.000	<1.0	28.70	1670.000	4.7000	<0.4	1620	<0.8	14400.00	<0.2	1490.00	<10.0	<0.04	4.8000	<4.0	291000.000	<2.0
SRK08-SPW3	**2/17/2010**	0.4000	19.00	0.80	17.000	<200.0	<0.4	<4.0	370.00	127.00	427.0000	<4.0	6.7000	3090.00	<0.08	10.30	0.150	957.00	102000.000	<4.0	31.70	2470.000	4.0000	<2.0	1780	0.5000	11900.00	<20.0	1690.00	<20.0	<0.2	6.0000	<20.0	434000.000	<2.0
SRK08-SPW3	**3/9/2010**	<0.1	17.00	0.90	14.800	<1000.0	0.30	<0.1	357.00	104.00	390.0000	<2.0	7.0000	5820.00		10.00	0.135	840.00	79200.000	<1.0	30.00	2060.000	3.8000	<0.4	1730	<0.8	12700.00	<0.2	1430.00	<10.0	<0.04	5.0600	<4.0	368000.000	<2.0
SRK08-SPW3	**4/13/2010**	<0.3	19.00	<1.0	15.000	<3000.0	<0.5	<0.3	327.00	132.00	412.0000	<5.0	7.0000	2780.00		10.00	0.149	832.00	83400.000	<3.0	26.00	2160.000	4.1000	<1.0	1510	<2.0	11600.00	<0.5	1540.00	<30.0	<0.1	6.0000	<10.0	366000.000	<5.0
SRK08-SPW3	**5/3/2010**	0.5000	21.00	0.60	26.400	<1000.0	<0.2	<0.1	409.00	178.00	710.0000	<2.0	19.0000	1550.00		12.00	0.164	1140.00	115000.000	<1.0	34.00	3180.000	2.3000	<0.4	2050	<0.8	10300.00	<0.2	1840.00	<10.0	0.18	5.8500	<4.0	520000.000	<2.0
SRK08-SPW3	**6/13/2010**	0.2300	15.00	0.80	16.000	<100.0	0.30	<2.0	331.00	117.00	386.0000	<2.0	5.7000	4300.00		10.50	0.141	805.00	76300.000	<2.0	27.40	1880.000	1.6000	<1.0	1580	<0.2	13100.00	<10.0	1520.00	<10.0	<0.1	4.6000	<10.0	329000.000	<1.0
SRK08-SPW3	**7/10/2010**	0.2000	29.00	1.80	16.800	<1000.0	0.40	<0.1	294.00	72.70	288.0000	<2.0	6.0000	11700.00		9.00	0.102	562.00	54200.000	<1.0	23.00	1390.000	3.5000	<0.4	932	<0.8	14500.00	<0.2	1200.00	<10.0	<0.04	3.2100	<4.0	227000.000	<2.0
SRK08-SPW3	**8/3/2010**	0.3000	24.00	1.50	16.300	<1000.0	0.30	<0.1	292.00	119.00	414.0000	<2.0	12.0000	4480.00		9.00	0.138	739.00	73000.000	18.00	26.00	1880.000	4.5000	<0.4	1520	<0.8	10700.00	<0.2	1320.00	<10.0	0.06	4.5000	<4.0	307000.000	<2.0
SRK08-SPW3	**9/1/2010**	0.1300	19.00	1.40	16.000	<100.0	0.40	<2.0	246.00	70.20	277.0000	<2.0	5.4000	8560.00		8.30	0.108	541.00	50200.000	<2.0	22.20	1170.000	1.7000	<1.0	1110	<0.2	14300.00	<10.0	1070.00	<10.0	<0.1	3.1000	<10.0	200000.000	<1.0
SRK08-SPW3	**10/7/2010**	0.2400	14.00	0.60	18.000	<100.0	<0.2	<2.0	306.00	131.00	458.0000	<2.0	7.5000	3250.00		10.10	0.130	807.00	82200.000	<2.0	26.20	1970.000	1.2000	<1.0	1580	<0.2	12500.00	<10.0	1420.00	<10.0	<0.1	4.9000	<10.0	328000.000	<1.0
SRK08-SPW3	**11/8/2010**	0.0900	16.00	0.60	15.000	<50.0	<0.1	<1.0	273.00	105.00	340.0000	<1.0	6.8000	5450.00		8.73	0.075	657.00	61700.000	<1.0	25.30	1450.000	1.3000	<0.5	1390	<0.1	12000.00	<5.0	1240.00	<5.0	<0.05	3.8000	<5.0	291000.000	<0.5
SRK08-SPW3	**12/1/2010**	0.2300	21.00	0.60	19.000	<200.0	<0.4	<4.0	350.00	140.00	496.0000	<4.0	10.2000	1670.00		10.80	0.147	876.00	82100.000	<4.0	26.90	2130.000	1.4000	<2.0	1730	<0.4	12300.00	<20.0	1520.00	<20.0	<0.2	5.2000	<20.0	349000.000	<2.0
SRK08-SPW3 Average		0.2267	19.92	1.02	17.300	364.58	0.25	0.66	327.17	114.76	405.1667	1.25	8.3583	5032.50	0.04	9.94	0.131	791.25	77275.000	2.42	27.28	1950.833	2.8417	0.44	1544	0.3375	12525.00	3.19	1440.00	6.46	0.06	4.7517	4.38	334166.667	0.94
SRK08-SPW3 Max		0.5000	29.00	2.10	26.400	<3,000.0	<0.5	<4.0	409.00	178.00	710.0000	<5.0	19.0000	11700.00	<0.08	12.00	0.164	1140.00	115000.000	18.00	34.00	3180.000	4.7000	<2.0	2050	<2.0	14500.00	<20.0	1840.00	<30.0	<0.2	6.0000	<20.0	520000.000	<5.0
SRK08-SPW3 Min		0.0900	14.00	0.60	14.800	<50.0	<0.1	<0.1	246.00	70.20	264.0000	<1.0	5.4000	1550.00	<0.08	8.30	0.075	541.00	50200.000	<1.0	22.20	1170.000	1.2000	<0.4	932	<0.1	10300.00	<0.2	1070.00	<5.0	<0.04	3.1000	<4.0	200000.000	<0.5
SRK08-SPW3 N > DL		10	12	11	12	0	6	0	12	12	12	0	12	12	0	12	12	12	12	1	12	12	12	0	12	1	12	0	12	0	2	12	0	12	0
SRK08-SPW3 Median		0.2300	19.00	0.85	16.550	300.00	0.28	0.33	329.00	118.00	401.0000	<2.0	7.0000	4390.00	<0.08	10.05	0.137	806.00	77750.000	<2.0	26.55	1925.000	2.9000	0.38	1580	0.4500	12400.00	1.38	1460.00	<10.0	<0.1	4.8500	3.75	328500.000	<2.0
TH86-17	**9/9/2010**	<0.005	2.10	0.80	50.000	<50.0	<0.01	<0.005	25.60	<0.005	0.5880	<0.1	0.4600	565.00		0.75	0.004	5.96	19.200	2.69	2.13	9.860	0.0630	0.30	<10.0	0.2000	5030.00	0.05	106.00	<0.5	<0.002	0.7370	<0.2	6.700	<0.1
TH86-2	**9/13/2010**	<0.005	2.70	0.20	72.200	<50.0	<0.01	<0.005	42.00	0.01	0.0370	<0.1	0.4400	75.00		1.91	0.004	8.50	4.960	0.56	2.70	0.830	0.0780	0.06	12	0.4000	4570.00	0.02	205.00	<0.5	<0.002	2.7000	<0.2	5.600	<0.1
TH86-5	**9/9/2010**	<0.005	1.50	22.90	154.000	<50.0	0.03	<0.005	125.00	<0.005	0.3780	0.80	0.1400	6350.00		2.50	0.056	25.20	496.000	7.68	19.60	6.860	0.0530	0.42	<10.0	<0.04	9830.00	0.16	843.00	<0.5	<0.002	2.7200	<0.2	2.100	<0.1
X16A	**6/7/2010**	<0.005	5.50	0.19	89.200	<50.0	<0.01	<0.005	57.80	0.06	0.0180	0.20	0.3200	10.00		1.15	0.002	14.10	2.640	2.28	2.26	0.330	0.3500	0.19	<10.0	1.0700	4360.00	<0.01	151.00	<0.5	<0.002	1.9300	<0.2	6.600	<0.1
X16A	**9/8/2010**	<0.005	4.30	0.21	87.900	<50.0	<0.01	<0.005	49.90	0.06	0.0230	<0.1	0.3200	11.00		1.29	0.003	13.40	5.670	2.19	2.12	0.390	0.1510	0.22	<10.0	1.1500	3660.00	<0.01	154.00	<0.5	<0.002	1.8600	<0.2	7.800	<0.1
X16A Average		0.0025	4.90	0.20	88.550	25.00	0.01	0.00	53.85	0.06	0.0205	0.13	0.3200	10.50		1.22	0.002	13.75	4.155	2.24	2.19	0.360	0.2505	0.21	5	1.1100	4010.00	0.01	152.50	0.25	0.00	1.8950	0.10	7.200	0.05
X16A N > DL		0	2	2	2	0	0	0	2	2	2	1	2	2	0	2	2	2	2	2	2	2	2	2	0	2	2	0	2	0	0	2	0	2	0
X16B	**6/7/2010**	<0.005	5.70	0.14	142.000	<50.0	<0.01	<0.005	68.70	0.02	0.0150	0.20	0.2500	14.00		1.29	0.003	18.80	0.590	1.74	2.15	0.480	0.2640	0.12	11	1.9200	5220.00	<0.01	192.00	<0.5	<0.002	2.2000	<0.2	2.200	<0.1
X16B	**9/8/2010**	<0.005	4.70	0.13	128.000	<50.0	<0.01	<0.005	59.70	0.02	0.0140	<0.1	0.1900	5.00		1.23	0.003	17.00	0.750	1.64	1.95	1.470	0.0500	0.10	11	2.0600	4270.00	<0.01	190.00	<0.5	0.00	2.1700	<0.2	1.100	<0.1
X16B Average		0.0025	5.20	0.14	135.000	25.00	0.01	0.00	64.20	0.02	0.0145	0.13	0.2200	9.50		1.26	0.003	17.90	0.670	1.69	2.05	0.975	0.1570	0.11	11	1.9900	4745.00	0.01	191.00	0.25	0.00	2.1850	0.10	1.650	0.05
X16B N > DL		0	2	2	2	0	0	0	2	2	2	1	2	2	0	2	2	2	2	2	2	2	2	2	2	2	2	0	2	0	1	2	0	2	0
X17A	**6/8/2010**	<0.005	5.00	0.50	191.000	<50.0	<0.01	<0.005	101.00	0.08	0.0410	<0.1	0.5100	14.00		1.58	0.004	25.90	29.000	1.13	3.09	0.640	0.8850	0.07	20	0.0500	5570.00	0.02	275.00	<0.5	<0.002	3.2100	<0.2	7.900	0.40
X17A	**9/8/2010**	<0.005	3.30	0.45	156.000	<50.0	<0.01	<0.005	75.80	0.04	0.0470	<0.1	0.2400	14.00		1.51	0.004	22.00	24.300	1.15	3.29	0.520	0.4610	0.06	16	0.8700	4930.00	0.12	210.00	<0.5	<0.002	2.4400	<0.2	8.100	<0.1
X17A Average		0.0025	4.15	0.48	173.500	25.00	0.01	0.00	88.40	0.06	0.0440	0.05	0.3750	14.00		1.55	0.004	23.95	26.650	1.14	3.19	0.580	0.6730	0.07	18	0.4600	5250.00	0.07	242.50	0.25	0.00	2.8250	0.10	8.000	0.23
X17A N > DL		0	2	2	2	0	0	0	2	2	2	0	2	2	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	2	0	2	1
X17B	**6/8/2010**	<0.005	2.60	0.12	159.000	<50.0	<0.01	<0.005	166.00	<0.005	0.0800	<0.1	<0.05	3860.00		3.48	0.032	40.40	537.000	0.52	35.30	0.180	0.1080	<0.02	80	<0.04	6440.00	<0.01	576.00	<0.5	<0.002	2.1900	<0.2	2.700	1.30
X17B	**9/8/2010**	0.0110	3.40	0.17	243.000	<50.0	<0.01	<0.005	121.00	<0.005	0.0560	<0.1	0.0900	2050.00		3.11	0.037	33.60	407.000	0.71	25.90	0.210	0.4440	<0.02	36	<0.04	5500.00	<0.01	545.00	<0.5	<0.002	2.5100	<0.2	9.700	1.70
X17B Average		0.0068	3.00	0.15	201.000	25.00	0.01	0.00	143.50	0.00	0.0680	0.05	0.0575	2955.00		3.30	0.035	37.00	472.000	0.62	30.60	0.195	0.2760	0.01	58	0.0200	5970.00	0.01	560.50	0.25	0.00	2.3500	0.10	6.200	1.50
X17B N > DL		1	2	2	2	0	0	0	2	0	2	0	1	2	0	2	2	2	2	2	2	2	2	0	2	0	2	0	2	0	0	2	0	2	2
X18A	**6/7/2010**	<0.005	3.10	8.70	168.000	<50.0	<0.01	<0.005	339.00	<0.005	1.9700	<0.1	0.1000	3460.00		7.31	0.016	78.70	5970.000	0.83	25.50	7.250	0.2690	0.04	350	<0.04	7210.00	<0.01	1170.00	<0.5	<0.002	9.0600	<0.2	2.400	0.20
X18A	**9/8/2010**	<0.005	7.90	10.80	185.000	<50.0	<0.01	<0.005	267.00	0.01	0.8130	0.20	0.3500	4730.00		7.01	0.009	67.20	1990.000	0.78	20.60	1.800	0.6610	0.06	270	<0.04	5340.00	0.05	873.00	<0.5	<0.002	9.5500	<0.2	16.500	0.30

NB: Metals reported in mg/L are shaded in grey.

Denison Environmental Services

Table C-7: Rose Creek Drainage Water Quality
2010 - Groundwater - Dissolved Metals

Faro Mine Closure

		Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	Hg-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	S-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
Station	**Date**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
X18A Average		0.0025	5.50	9.75	176.500	25.00	0.01	0.00	303.00	0.01	1.3915	0.13	0.2250	4095.00		7.16	0.012	72.95	3980.000	0.81	23.05	4.525	0.4650	0.05	310	0.0200	6275.00	0.03	1021.50	0.25	0.00	9.3050	0.10	9.450	0.25
X18A N > DL		0	2	2	2	0	0	0	2	1	2	1	2	2	0	2	2	2	2	2	2	2	2	2	2	0	2	1	2	0	0	2	0	2	2
X18B	**6/7/2010**	<0.005	2.90	0.20	91.000	<50.0	<0.01	<0.005	341.00	0.38	0.6700	<0.1	0.5700	25.00		7.51	0.012	84.60	1640.000	0.71	24.90	16.800	0.2080	0.06	349	0.0700	7400.00	<0.01	1110.00	<0.5	0.01	13.9000	<0.2	4.000	<0.1
X18B	**9/8/2010**	<0.005	3.20	0.19	77.200	<50.0	<0.01	<0.005	288.00	0.32	0.6050	<0.1	0.4700	43.00		6.70	0.013	69.10	1280.000	0.58	21.30	13.800	0.1290	0.05	287	0.0500	6030.00	<0.01	960.00	<0.5	0.01	11.9000	<0.2	7.000	<0.1
X18B Average		0.0025	3.05	0.20	84.100	25.00	0.01	0.00	314.50	0.35	0.6375	0.05	0.5200	34.00		7.11	0.012	76.85	1460.000	0.65	23.10	15.300	0.1685	0.06	318	0.0600	6715.00	0.01	1035.00	0.25	0.01	12.9000	0.10	5.500	0.05
X18B N > DL		0	2	2	2	0	0	0	2	2	2	0	2	2	0	2	2	2	2	2	2	2	2	2	2	2	2	0	2	0	2	2	0	2	0
X21-96A	**6/11/2010**	0.2200	1240.00	20.10	5.000	157.00	9.60	<1.0	384.00	1.05	9.0000	7.00	0.3000	9960000.00		11.80	0.152	549.00	408000.000	7.00	52.30	21.000	44.6000	<0.5	6480	0.9000	21100.00	<5.0	776.00	<5.0	0.39	2.1000	<5.0	290000.000	<0.5
X21-96A	**9/22/2010**	<0.02	1120.00	<0.1	7.000	833.00	8.10	<1.0	390.00	0.38	20.3000	<1.0	1.1000	9760000.00		11.50	0.147	584.00	456000.000	23.00	47.00	29.000	63.7000	<0.5	7010	<0.1	20000.00	<5.0	649.00	<5.0	<0.05	1.9000	<5.0	265000.000	<0.5
X21-96A Average		0.1150	1180.00	10.08	6.000	495.00	8.85	0.50	387.00	0.72	14.6500	3.75	0.7000	9860000.00		11.65	0.150	566.50	432000.000	15.00	49.65	25.000	54.1500	0.25	6745	0.4750	20550.00	2.50	712.50	2.50	0.21	2.0000	2.50	277500.000	0.25
X21-96A N > DL		1	2	1	2	2	2	0	2	2	2	1	2	2	0	2	2	2	2	2	2	2	2	0	2	1	2	0	2	0	1	2	0	2	0
X21-96B	**6/11/2010**	0.1400	8.00	6.10	22.000	<50.0	<0.1	<1.0	329.00	0.13	32.6000	<1.0	0.3000	222000.00		5.00	0.017	71.00	36400.000	3.00	57.80	29.000	9.1000	<0.5	510	<0.1	9920.00	<5.0	919.00	<5.0	<0.05	3.9000	<5.0	2290.000	<0.5
X21-96B	**9/22/2010**	<0.02	<3.0	<0.1	14.000	<50.0	<0.1	<1.0	353.00	0.10	64.7000	<1.0	<0.2	332000.00		5.54	0.022	83.60	45400.000	2.00	64.80	50.000	<0.2	<0.5	659	<0.1	8650.00	<5.0	948.00	<5.0	<0.05	0.6000	<5.0	13300.000	<0.5
X21-96B Average		0.0750	4.75	3.08	18.000	25.00	0.05	0.50	341.00	0.12	48.6500	0.50	0.2000	277000.00		5.27	0.020	77.30	40900.000	2.50	61.30	39.500	4.6000	0.25	585	0.0500	9285.00	2.50	933.50	2.50	0.03	2.2500	2.50	7795.000	0.25
X21-96B N > DL		1	1	1	2	0	0	0	2	2	2	0	1	2	0	2	2	2	2	2	2	2	1	0	2	0	2	0	2	0	0	2	0	2	0
X24-96D	**6/7/2010**	<0.02	4.00	0.30	22.000	<50.0	<0.1	<1.0	855.00	3.84	135.0000	<1.0	3.0000	108.00	<0.02	8.42	0.033	171.00	87900.000	<1.0	44.60	334.000	<0.2	<0.5	923	<0.1	11800.00	<5.0	2500.00	<5.0	0.24	6.9000	<5.0	120.000	<0.5
X24-96D	**9/9/2010**	<0.02	<3.0	0.30	20.000	<50.0	<0.1	<1.0	782.00	3.59	152.0000	<1.0	2.9000	94.00		7.82	0.032	163.00	87000.000	<1.0	41.70	339.000	0.3000	<0.5	867	<0.1	11100.00	<5.0	2220.00	<5.0	0.24	6.1000	<5.0	132.000	1.00
X24-96D Average		0.0100	2.75	0.30	21.000	25.00	0.05	0.50	818.50	3.72	143.5000	0.50	2.9500	101.00	0.01	8.12	0.033	167.00	87450.000	0.50	43.15	336.500	0.2000	0.25	895	0.0500	11450.00	2.50	2360.00	2.50	0.24	6.5000	2.50	126.000	0.63
X24-96D N > DL		0	1	2	2	0	0	0	2	2	2	0	2	2	0	2	2	2	2	0	2	2	1	0	2	0	2	0	2	0	0	2	0	2	1
X25-96A	**6/7/2010**	<0.02	5.00	0.20	54.000	<50.0	<0.1	<1.0	240.00	0.20	4.1000	<1.0	1.7000	147.00	<0.02	4.86	<0.005	53.50	9070.000	2.00	22.70	4.000	0.4000	<0.5	218	<0.1	7750.00	<5.0	629.00	<5.0	<0.05	12.4000	<5.0	<5.0	<0.5
X25-96A	**9/9/2010**	<0.02	<3.0	0.20	58.000	<50.0	<0.1	<1.0	228.00	0.21	7.3000	<1.0	1.8000	21.00		4.55	<0.005	52.80	8150.000	<1.0	21.40	9.000	<0.2	<0.5	203	<0.1	6790.00	<5.0	648.00	<5.0	<0.05	13.5000	<5.0	<5.0	0.60
X25-96A Average		0.0100	3.25	0.20	56.000	25.00	0.05	0.50	234.00	0.21	5.7000	0.50	1.7500	84.00	0.01	4.71	0.003	53.15	8610.000	1.25	22.05	6.500	0.2500	0.25	211	0.0500	7270.00	2.50	638.50	2.50	0.03	12.9500	2.50	2.500	0.43
X25-96A N > DL		0	1	2	2	0	0	0	2	2	2	0	2	2	0	2	0	2	2	1	2	2	1	0	2	0	2	0	2	0	0	2	0	0	1
X25-96B	**6/7/2010**	<0.02	<3.0	0.50	30.000	<50.0	<0.1	<1.0	217.00	0.09	<0.5	<1.0	1.6000	824.00	<0.02	3.53	0.010	33.70	211.000	<1.0	44.70	<1.0	0.8000	<0.5	183	<0.1	5820.00	<5.0	505.00	<5.0	<0.05	6.7000	<5.0	<5.0	<0.5
X25-96B	**9/9/2010**	<0.02	4.00	0.60	29.000	<50.0	<0.1	<1.0	199.00	0.06	<0.5	<1.0	<0.2	844.00		3.31	0.009	32.80	212.000	<1.0	42.80	<1.0	<0.2	<0.5	172	<0.1	4890.00	<5.0	486.00	<5.0	<0.05	6.3000	<5.0	<5.0	<0.5
X25-96B Average		0.0100	2.75	0.55	29.500	25.00	0.05	0.50	208.00	0.08	0.2500	0.50	0.8500	834.00	0.01	3.42	0.010	33.25	211.500	0.50	43.75	0.500	0.4500	0.25	178	0.0500	5355.00	2.50	495.50	2.50	0.03	6.5000	2.50	2.500	0.25
X25-96B N > DL		0	1	2	2	0	0	0	2	2	0	0	1	2	0	2	2	2	2	0	2	0	1	0	2	0	2	0	2	0	0	2	0	0	0
X26	**5/5/2010**	<0.08	13.00	3.40	7.000	<200.0	<0.4	<4.0	576.00	36.30	769.0000	<4.0	<0.8	155000.00	<0.08	18.20	0.316	608.00	22700.000	6.00	93.40	1960.000	4.2000	<2.0	1550	<0.4	7190.00	<20.0	3660.00	<20.0	1.60	16.6000	<20.0	146000.000	<2.0
X26	**6/13/2010**	0.0800	13.00	3.40	7.000	<100.0	0.30	<2.0	563.00	27.00	504.0000	<2.0	0.9000	85700.00		16.20	0.274	397.00	14600.000	<2.0	63.90	1380.000	59.0000	<1.0	1030	<0.2	7050.00	<10.0	3410.00	<10.0	1.50	14.8000	<10.0	92900.000	<1.0
X26	**7/10/2010**	0.0400	11.00	4.30	7.000	<50.0	0.20	<1.0	500.00	23.50	484.0000	<1.0	0.7000	77900.00		15.00	0.213	355.00	13600.000	<1.0	60.70	1250.000	63.8000	1.00	973	0.5000	7130.00	<5.0	3050.00	<5.0	1.35	15.0000	<5.0	75100.000	<0.5
X26	**8/3/2010**	0.1100	15.00	4.20	7.000	<100.0	0.30	<2.0	480.00	32.00	616.0000	<2.0	1.0000	133000.00		16.70	0.266	467.00	18400.000	<2.0	66.60	1520.000	79.2000	<1.0	1220	<0.2	6790.00	<10.0	2950.00	<10.0	1.90	12.4000	<10.0	123000.000	<1.0
X26	**9/1/2010**	0.0800	10.00	3.40	8.000	<50.0	0.40	<1.0	474.00	35.60	731.0000	<1.0	0.4000	167000.00		17.20	0.291	537.00	21200.000	<1.0	82.90	1640.000	89.8000	0.60	1340	<0.1	7030.00	<5.0	3250.00	<5.0	1.96	12.3000	<5.0	137000.000	<0.5
X26	**10/19/2010**	0.1100	11.00	4.50	8.000	<50.0	0.30	<1.0	500.00	32.20	626.0000	<1.0	0.3000	126000.00		17.90	0.295	469.00	18300.000	<1.0	78.20	1470.000	84.4000	0.80	1290	0.2000	7220.00	<5.0	3350.00	<5.0	1.74	14.0000	<5.0	105000.000	<0.5
X26 Average		0.0767	12.17	3.87	7.333	45.83	0.28	0.92	515.50	31.10	621.6667	0.92	0.6167	124100.00	0.04	16.87	0.276	472.17	18133.333	1.58	74.28	1536.667	63.4000	0.73	1234	0.1917	7068.33	4.58	3278.33	4.58	1.68	14.1833	4.58	113166.667	0.46
X26 Max		0.1100	15.00	4.50	8.000	<200.0	<0.4	<4.0	576.00	36.30	769.0000	<4.0	1.0000	167000.00	<0.08	18.20	0.316	608.00	22700.000	6.00	93.40	1960.000	89.8000	<2.0	1550	0.5000	7220.00	<20.0	3660.00	<20.0	1.96	16.6000	<20.0	146000.000	<2.0
X26 Min		0.0400	10.00	3.40	7.000	<50.0	0.20	<1.0	474.00	23.50	484.0000	<1.0	0.3000	77900.00	<0.08	15.00	0.213	355.00	13600.000	<1.0	60.70	1250.000	4.2000	0.60	973	<0.1	6790.00	<5.0	2950.00	<5.0	1.35	12.3000	<5.0	75100.000	<0.5
X26 N > DL		5	6	6	6	0	5	0	6	6	6	0	5	6	0	6	6	6	6	1	6	6	6	3	6	2	6	0	6	0	6	6	0	6	0
X26 Median		0.0800	12.00	3.80	7.000	37.50	0.30	0.75	500.00	32.10	621.0000	0.75	0.5500	129500.00	<0.08	16.95	0.283	468.00	18350.000	0.75	72.40	1495.000	71.5000	0.50	1255	0.1500	7090.00	3.75	3300.00	3.75	1.67	14.4000	3.75	114000.000	0.38

NB: Metals reported in mg/L are shaded in grey.

Table C-8: Rose Creek Drainage Water Quality
Cross Valley Pond Seepage and Discharge
2010 - Bioassay Results Summary

		Percent Mortality				Temp. (°C)		pH		D.O. (mg/L)		Conductivity	LC_{50} Final Result
Station	Date	24 hr	48 hr	72 hr	96 hr	Initial	Final	Inital	Final	Initial	Final	(µS/cm)	(%v/v)
X13	3/2/2010	0	0	0	0	14.7	14.6	7.2	8.1	9.3	9.3	2260	Pass: 100%
X13	6/13/2010	0	0	0	0	14.9	15.2	7.0	7.9	8.7	9.9	2211	Pass: 100%
X13	9/7/2010	0	0	0	0	14.0	15.1	7.0	8.1	9.0	9.9	2342	Pass: 100%
X13	12/2/2010	0	0	0	0	14.3	15.1	7.1	8.0	10.3	9.7	2414	Pass: 100%
X5P	3/2/2010	0	0	0	0	14.9	14.7	7.5	8.3	9.7	9.7	1760	Pass: 100%
X5	6/15/2010	0	0	0	0	15.8	14.8	7.5	8.0	9.6	9.9	1836	Pass: 100%
X5	9/7/2010	0	0	0	0	14.3	15.1	7.6	7.8	9.5	9.8	1884	Pass: 100%
X5	12/2/2010	0	0	0	0	14.3	15.2	6.9	8.0	10.6	9.8	2656	Pass: 100%

Table C-9: 2010 FMC Lab Analysis - Zinc (Total and Dissolved) at X5

Date	Time	Temp. (°C)	pH	EC (µS/cm	Zn-T		Zn-T Average	Zn-D		Zn-D Average	Method of Analysis	Comments
22-Mar-10	5:51 PM	0.9	7.11	1580	0.317	0.325	**0.321**	0.334	0.338	**0.336**	ICP	
23-Mar-10	1:21 PM	1.2	7.30	1740	0.314	0.325	**0.320**	0.316	0.320	**0.318**	ICP	
24-Mar-10	9:11 AM	2.2	7.05	1820	0.358	0.375	**0.367**	0.375	0.382	**0.379**	ICP	
25-Mar-10	7:04 AM	1.5	7.22	1690	0.299	0.302	**0.301**	0.296	0.298	**0.297**	ICP	
25-Mar-10	2:46 PM	2.5	7.10	1730	0.319	0.319	**0.319**	0.315	0.317	**0.316**	ICP	
26-Mar-10	8:00 AM	2.0	7.05	1700	0.311	0.321	**0.316**	0.311	0.312	**0.312**	ICP	
27-Mar-10	7:20 AM	2.5	7.03	1710	0.285	0.286	**0.286**	0.276	0.279	**0.278**	ICP	
28-Mar-10	7:25 AM	2.6	7.00	2600	0.310	0.312	**0.311**	0.303	0.307	**0.305**	ICP	
29-Mar-10	8:42 AM	1.1	7.17	1680	0.291	0.303	**0.297**	0.292	0.295	**0.294**	ICP	
30-Mar-10	8:13 AM	1.6	7.11	1480	0.286	0.294	**0.290**	0.287	0.288	**0.288**	ICP	
30-Mar-10	10:41 AM	1.7	7.02	1030	0.291	-	**0.291**	-	-		ICP	
31-Mar-10	9:10 AM	1.2	7.29	1424	0.275	0.271	**0.273**	0.274	0.279	**0.277**	ICP	
1-Apr-10	7:51 AM	2.3	7.35	1410	0.286	0.284	**0.285**	0.279	0.281	**0.280**	ICP	Siphon shut down at 6:30 PM.
5-Apr-10	10:54 AM	1.0	7.13	1640	0.268	0.272	**0.270**	0.272	-	**0.272**	ICP	Siphon opened at 10:10 AM (1/2 open).
6-Apr-10	8:36 AM	0.8	7.00	1100	0.297	0.315	**0.306**	0.295	0.296	**0.296**	ICP	
7-Apr-10	8:57 AM	0.8	6.88	1514	0.286	0.284	**0.285**	0.284	0.284	**0.284**	ICP	
8-Apr-10	10:34 AM	2.4	7.33	1776	0.290	0.279	**0.285**	0.288	0.297	**0.293**	ICP	
9-Apr-10	8:07 AM	1.6	7.41	1750	0.291	0.293	**0.292**	0.286	0.289	**0.288**	ICP	
9-Apr-10	2:16 PM	3.9	7.14	1760	0.280	0.286	**0.283**	0.280	0.287	**0.284**	ICP	Began discharging from mill to CVP at 11am.
10-Apr-10	7:40 AM	2.2	7.11	1504	0.285	0.278	**0.282**	0.288	-	**0.288**	ICP	
11-Apr-10	7:40 AM	2.7	7.31	1770	0.195	0.193	**0.194**	0.201	-	**0.201**	ICP	
12-Apr-10	8:30 AM	0.6	7.32	1830	0.181	0.190	**0.186**	0.174	0.177	**0.176**	ICP	
13-Apr-10	9:10 AM	1.6	7.41	1561	0.247	0.226	**0.237**	0.233	-	**0.233**	ICP	sample 1 may be slightly high due to evaporative concentration.
14-Apr-10	8:26 AM	1.6	7.41	1578	0.192	0.184	**0.188**	0.177	-	**0.177**	ICP	
15-Apr-10	8:12 AM	1.8	6.98	1900	0.202	0.212	**0.207**	0.193	0.190	**0.192**	ICP	
16-Apr-10	7:40 AM	1.2	7.43	1890	0.177	0.172	**0.175**	0.165	0.164	**0.165**	ICP	
17-Apr-10	7:40 AM	3.4	6.82	1870	0.154	0.154	**0.154**	0.151	-	**0.151**	ICP	pH retested at 1pm: 7.07
18-Apr-10	8:20 AM	3.5	6.88	1870	0.136	0.137	**0.137**	0.123	-	**0.123**	ICP	
19-Apr-10	8:21 AM	3.4	7.22	1880	0.174	0.199	**0.187**	0.153	-	**0.153**	ICP	Began treatment of Faro pit water @ 2pm. New ICP standards prepared.
20-Apr-10	2:36 PM	4.3	6.85	1947	0.256	0.290	**0.273**	0.199	-	**0.199**	ICP	
21-Apr-10	8:52 AM	4.0	6.74	1908	0.262	0.277	**0.270**	0.266	-	**0.266**	ICP	
22-Apr-10	8:30 AM	2.4		1774	0.239	0.248	**0.244**	-	-		ICP	pH meter malfunctioning, no pH reading obtained.

Table C-9: 2010 FMC Lab Analysis - Zinc (Total and Dissolved) at X5

Date	Time	Temp. (°C)	pH	EC (µS/cm	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	Method of Analysis	Comments
22-Apr-10	12:15 PM	3.8	6.9	1750	0.366	-	**0.366**	0.235	-	**0.235**	ICP	10" siphon shut down @ 9am. Water collected following installation of 16" siphon (started ~11:30am). pH measured using litmus paper b/c pH meter malfunctioning.
23-Apr-10	13:55 PM	2.1	7.35	1390	0.701		**0.701**	0.120		**0.120**	ICP	Siphon turned on at 13:05 PM.
23-Apr-10	13:55 PM	2.1	7.35	1390	0.143	0.190	**0.167**	0.125	0.119	**0.122**	ICP	Rerun of X5 13:55 PM sample to verify results.
23-Apr-10	16:52 PM	2.9	7.51	1420	0.126	0.131	**0.129**	0.113	0.115	**0.114**	ICP	Siphon closed at 16:54 PM due to 1st run of 13:55 PM sample.
23-Apr-10	13:55 PM	2.1	7.35	1390	0.132	0.141	**0.137**	-	-		ICP	Rerun of X5 13:55 PM sample by KR and JL on Apr 24.
25-Apr-10	7:54 AM	2.1	7.47	1639	0.164	0.149	**0.157**	0.118	0.112	**0.115**	ICP	Siphon turned on at 7:10 AM.
26-Apr-10	8:32 AM	2.5	8.08	1430	0.105	0.107	**0.106**	0.095	0.095	**0.095**	ICP	
27-Apr-10	1:56 PM	2.7	7.19	1399	0.195	0.196	**0.196**	0.176	-	**0.176**	ICP	
28-Apr-10	9:00 AM	3.0	8.39	1320	0.137	0.139	**0.138**	0.126	-	**0.126**	ICP	
29-Apr-10	3:36 PM	3.7	7.12	1280	0.161	0.161	**0.161**	0.139	-	**0.139**	ICP	
30-Apr-10	8:00 AM	4.7	7.71	1370	0.181	0.181	**0.181**	0.160	-	**0.160**	ICP	
1-May-10	9:00 AM	4.9	7.76	1410	0.250	0.260	**0.255**	0.208	-	**0.208**	ICP	
2-May-10	7:50 AM	5.3	6.99	1380	0.201	0.190	**0.196**	0.164	-	**0.164**	ICP	
3-May-10	8:35 AM	4.2	7.69	1400	0.221	0.224	**0.223**	0.222	-	**0.222**	ICP	
4-May-10	8:49 AM	3.6	7.06	1490	0.290	0.286	**0.288**	0.269	-	**0.269**	ICP	
5-May-10	8:48 AM	4.7	7.29	1384	0.249	0.242	**0.246**	0.240	-	**0.240**	ICP	
6-May-10	8:56 AM	5.1	7.15	1380	0.264	0.290	**0.277**	0.239	-	**0.239**	ICP	
7-May-10	6:43 AM	3.8	7.33	1362	0.223	0.216	**0.220**	0.201	-	**0.201**	ICP	
8-May-10	7:55 AM	4.9	7.22	1409	0.254	0.256	**0.255**	0.251	-	**0.251**	ICP	
9-May-10	8:07 AM	5.4	7.21	1392	0.245	0.245	**0.245**	0.224	-	**0.224**	ICP	
10-May-10	8:25 AM	5.7	7.33	1542	0.280	0.285	**0.283**	0.280	-	**0.280**	ICP	
11-May-10	8:05 AM	5.0	7.45	1390	0.197	0.190	**0.194**	0.177	-	**0.177**	ICP	
12-May-10	8:31 AM	5.9	7.43	1425	0.241	0.241	**0.241**	0.238	-	**0.238**	ICP	
13-May-10	7:32 AM	6.5	7.12	1424	0.237	0.238	**0.238**	0.219	0.217	**0.218**	ICP	
14-May-10	7:37 AM	5.7	7.09	1374	0.251	0.259	**0.255**	0.235	0.232	**0.234**	ICP	
15-May-10	7:34 AM	5.5	7.39	1365	0.210	0.210	**0.210**	0.196	0.188	**0.192**	ICP	
16-May-10	7:55 AM	6.3	7.26	1388	0.235	0.244	**0.240**	0.217	0.218	**0.218**	ICP	
17-May-10	8:23 AM	6.1	7.26	1494	0.217	0.217	**0.217**	0.213	0.210	**0.212**	ICP	
18-May-10	8:29 AM	6.9	7.06	1404	0.237	0.241	**0.239**	0.230	0.225	**0.228**	ICP	
19-May-10	8:22 AM	7.5	7.25	1303	0.178	0.184	**0.181**	0.179	0.177	**0.178**	ICP	
20-May-10	8:14 AM	6.6	7.55	1462	0.239	0.248	**0.244**	0.235	-	**0.235**	ICP	

Table C-9: 2010 FMC Lab Analysis - Zinc (Total and Dissolved) at X5

Date	Time	Temp. (°C)	pH	EC (µS/cm	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	Method of Analysis	Comments
21-May-10	8:25 AM	6.1	7.13	1338	0.180	0.178	**0.179**	0.174	-	**0.174**	ICP	
22-May-10	7:59 AM	6.1	7.64	1395	0.193	0.187	**0.190**	0.186	-	**0.186**	ICP	
23-May-10	8:10 AM	7.4	7.80	1339	0.176	0.177	**0.177**	0.158	-	**0.158**	ICP	
24-May-10	7:27 AM	7.9	6.99	1509	0.232	0.232	**0.232**	0.234	-	**0.234**	ICP	
25-May-10	8:30 AM	9.0	7.51	1441	0.181	0.182	**0.182**	0.174	-	**0.174**	ICP	
26-May-10	8:15 AM	10.2	6.88	1429	0.255	0.254	**0.255**	0.250	-	**0.250**	ICP	
27-May-10	9:03 AM	10.5	7.60	1472	0.219	0.209	**0.214**	0.199	-	**0.199**	ICP	
28-May-10	7:48 AM	10.7	8.11	1501	0.222	0.219	**0.221**	0.214	-	**0.214**	ICP	
29-May-10	7:44 AM	11.5	8.11	1540	0.237	0.233	**0.235**	0.223	-	**0.223**	ICP	
30-May-10	7:50 AM	11.9	8.02	1588	0.218	0.223	**0.221**	0.215	-	**0.215**	ICP	
31-May-10	8:15 AM	11.9	7.65	1573	0.226	0.227	**0.227**	0.216	-	**0.216**	ICP	
1-Jun-10	8:25 AM	12.6	7.51	1740	0.259	0.249	**0.254**	0.239	-	**0.239**	ICP	
2-Jun-10	8:37 AM	12.1	8.03	1660	0.214	0.216	**0.215**	0.223	-	**0.223**	ICP	
3-Jun-10	8:24 AM	12.4	7.47	1824	0.310	0.296	**0.303**	0.312	-	**0.312**	ICP	
4-Jun-10	7:50 AM	12.0	7.31	1712	0.300	0.302	**0.301**	0.288	-	**0.288**	ICP	
5-Jun-10	6:55 AM	11.4	7.25	1705	0.296	0.290	**0.293**	0.294	-	**0.294**	ICP	
6-Jun-10	6:51 AM	11.0	7.42	1811	0.287	0.285	**0.286**	0.288	-	**0.288**	ICP	
7-Jun-10	8:10 AM	11.2	7.43	1534	0.293	0.293	**0.293**	0.288	-	**0.288**	ICP	
8-Jun-10	8:26 AM	11.6	7.49	1664	0.284	0.281	**0.283**	0.270	-	**0.270**	ICP	
9-Jun-10	8:25 AM	11.6	7.65	1345	0.282	0.282	**0.282**	0.270	-	**0.270**	ICP	
10-Jun-10	8:12 AM	12.1	7.21	1644	0.312	0.314	**0.313**	0.304	-	**0.304**	ICP	
11-Jun-10	7:55 AM	11.6	7.89	1636	0.256	0.265	**0.261**	0.254	-	**0.254**	ICP	
12-Jun-10	7:45 AM	12.1	8.21	1646	0.261	0.260	**0.261**	0.240	-	**0.240**	ICP	
13-Jun-10	8:10 AM	11.1	7.75	1737	0.336	0.326	**0.331**	0.256	0.259	**0.258**	AA	
14-Jun-10	8:21 AM	11.0	7.70	1749	0.334	0.329	**0.332**	0.275	-	**0.275**	AA	10" Siphon brought online at 10:35 AM.
15-Jun-10	8:28 AM	11.1	7.48	1670	0.278	0.281	**0.280**	0.266	-	**0.266**	ICP	
16-Jun-10	8:17 AM	12.0	8.00	1565	0.268	0.270	**0.269**	0.261	-	**0.261**	ICP	
17-Jun-10	8:10 AM	11.9	8.11	1557	0.341	0.316	**0.329**	0.273	-	**0.273**	AA	
18-Jun-10	7:24 AM	12.3	7.67	1675	0.326	0.331	**0.329**	0.282	-	**0.282**	AA	
19-Jun-10	7:57 AM	12.3	7.77	1610	0.283	0.304	**0.294**	0.247	-	**0.247**	AA	
20-Jun-10	7:30 AM	12.6	7.73	1620	0.289	0.284	**0.287**	0.248	-	**0.248**	AA	
21-Jun-10	8:07 AM	13.6	7.93	1520	0.322	0.340	**0.331**	0.254	-	**0.254**	AA	
22-Jun-10	9:43 AM	13.8	7.63	1605	0.329	0.310	**0.320**	0.278	-	**0.278**	AA	
23-Jun-10	9:05 AM	14.3	7.97	1633	0.316	0.343	**0.330**	0.229	-	**0.229**	AA	
24-Jun-10	9:07 AM	13.6	7.24	1659	0.269	0.271	**0.270**	0.270	-	**0.270**	ICP	
25-Jun-10	8:17 AM	13.5	8.03	1577	0.217	0.206	**0.212**	0.197	-	**0.197**	ICP	
26-Jun-10	9:28 AM	14.4	7.68	1251	0.215	0.218	**0.217**	0.217	-	**0.217**	ICP	
27-Jun-10	8:27 AM	14.5	7.56	1828	0.235	0.235	**0.235**	0.224	-	**0.224**	ICP	

Table C-9: 2010 FMC Lab Analysis - Zinc (Total and Dissolved) at X5

Date	Time	Temp. (°C)	pH	EC (µS/cm	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	Method of Analysis	Comments
28-Jun-10	8:20 AM	14.1	7.78	1594	0.212	0.201	**0.207**	0.191	-	**0.191**	ICP	
29-Jun-10	9:42 AM	14.9	6.80	1725	0.230	0.229	**0.230**	0.226	-	**0.226**	ICP	
30-Jun-10	9:25 AM	14.8	7.94	1693	0.221	0.216	**0.219**	0.211	-	**0.211**	ICP	
1-Jul-10	8:10 AM	13.6	7.69	1689	0.247	-	**0.247**	0.245	-	**0.245**	ICP	
2-Jul-10	8:28 AM	14.1	7.70	1579	0.218	-	**0.218**	0.175	-	**0.175**	ICP	
3-Jul-10	8:30 AM	14.6	7.57	1593	0.188	0.196	**0.192**	0.183	-	**0.183**	ICP	
4-Jul-10	8:29 AM	14.2	7.96	1810	0.161	0.155	**0.158**	0.151	-	**0.151**	ICP	
5-Jul-10	8:11 AM	13.9	7.65	1840	0.155	0.160	**0.158**	0.120	-	**0.120**	ICP	
6-Jul-10	9:43 AM	13.9	7.57	1705	0.223	0.231	**0.227**	0.165	-	**0.165**	ICP	
7-Jul-10	8:15 AM	14.0	8.06	1591	0.174	0.172	**0.173**	0.147	-	**0.147**	ICP	
8-Jul-10	8:24 AM	14.6	8.56	1651	0.148	-	**0.148**	0.135	-	**0.135**	ICP	
9-Jul-10	7:40 AM	14.8	7.62	1725	0.159	0.163	**0.161**	0.130	-	**0.130**	ICP	
10-Jul-10	7:38 AM	15.6	7.82	1702	0.145	0.144	**0.145**	0.131	-	**0.131**	ICP	
11-Jul-10	7:51 AM	14.1	7.68	1697	0.192	-	**0.192**	0.168	-	**0.168**	ICP	
12-Jul-10	8:52 AM	13.9	7.13	1903	0.244	0.250	**0.247**	0.243	-	**0.243**	ICP	
13-Jul-10	8:32 AM	14.6	7.85	1567	0.179	0.178	**0.179**	0.167	-	**0.167**	ICP	
14-Jul-10	8:35 AM	14.3	7.63	1674	0.193	-	**0.193**	0.180	-	**0.180**	ICP	
15-Jul-10	8:33 AM	14.4	7.96	1591	0.207	0.208	**0.208**	0.197	-	**0.197**	ICP	
16-Jul-10	7:43 AM	13.7	7.58	1890	0.199	0.198	**0.199**	0.188	-	**0.188**	ICP	
17-Jul-10	7:30 AM	13.1	7.98	1671	0.211	0.210	**0.211**	0.197	-	**0.197**	ICP	
18-Jul-10	7:24 AM	13.2	7.62	1950	0.234	-	**0.234**	0.231	-	**0.231**	ICP	
19-Jul-10	8:30 AM	14.2	7.79	1899	0.243	0.241	**0.242**	0.239	-	**0.239**	ICP	
20-Jul-10	9:51 AM	15.8	7.69	1674	0.219	0.215	**0.217**	0.204	-	**0.204**	ICP	
21-Jul-10	8:36 AM	15.0	7.74	1880	0.219	0.219	**0.219**	0.214	-	**0.214**	ICP	
22-Jul-10	9:03 AM	14.9	7.59	1553	0.244	0.230	**0.237**	0.232	-	**0.232**	ICP	
23-Jul-10	8:03 AM	14.4	7.92	1635	0.215	0.218	**0.217**	0.208	-	**0.208**	ICP	
24-Jul-10	8:01 AM	13.9	7.82	1842	0.211	0.212	**0.212**	0.202	-	**0.202**	ICP	
25-Jul-10	7:58 AM	13.7	7.78	1860	0.235	0.231	**0.233**	0.216	-	**0.216**	ICP	
26-Jul-10	8:10 AM	13.9	7.60	1632	0.253	0.254	**0.254**	0.233	-	**0.233**	ICP	
27-Jul-10	8:35 AM	15.0	7.83	1589	0.240	0.242	**0.241**	0.228	-	**0.228**	ICP	
28-Jul-10	8:38 AM	14.7	7.88	1535	0.253	0.255	**0.254**	0.241	-	**0.241**	ICP	
29-Jul-10	8:32 AM	15.6	7.76	1653	0.287	-	**0.287**	0.274	-	**0.274**	AA	
30-Jul-10	8:12 AM	15.5	7.72	1621	0.311	0.319	**0.315**	0.276	-	**0.276**	AA	
31-Jul-10	8:05 AM	16.0	7.95	1565	0.354	0.347	**0.351**	0.258	-	**0.258**	AA	
1-Aug-10	8:09 AM	15.7	7.15	1566	0.425	0.443	**0.434**	0.382	-	**0.382**	AA	Siphon shut down at 10:30am.
1-Aug-10	8:09 AM	15.7	7.15	1566	0.410	0.410	**0.410**	-	-		AA	Reanalysis of morning sample to verify previous result.
9-Aug-10	10:22 AM	15.4	7.55	1880	0.234	0.235	**0.235**	0.195	-	**0.195**	ICP	

Table C-9: 2010 FMC Lab Analysis - Zinc (Total and Dissolved) at X5

Date	Time	Temp. (°C)	pH	EC (µS/cm	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	Method of Analysis	Comments
9-Aug-10					0.244	0.263	**0.254**	0.235	-	**0.235**	AA	Duplicate analysis on AA.
10-Aug-10	8:32 AM	15.0	8.02	1806	0.208	0.209	**0.209**	0.139	-	**0.139**	ICP	
11-Aug-10	8:10 AM	14.8	8.09	1570	0.196	0.203	**0.200**	0.180	-	**0.180**	ICP	
12-Aug-10	8:14 AM	14.60	8.13	1650	0.201	0.205	**0.203**	0.187	-	**0.187**	ICP	
13-Aug-10	8:00 AM	15.1	7.63	1706	0.193	0.190	**0.192**	0.162	-	**0.162**	ICP	
14-Aug-10	8:27 AM	15.6	7.83	1568	0.199	0.199	**0.199**	0.147	-	**0.147**	ICP	
15-Aug-10	7:45 AM	15.0	7.46	1530	0.194	0.191	**0.193**	0.169	-	**0.169**	ICP	
16-Aug-10	7:58 AM	16.3	8.24	1710	0.177	0.175	**0.176**	0.129	-	**0.129**	ICP	
17-Aug-10	8:40 AM	16.5	7.74	1594	0.175	0.182	**0.179**	0.140	-	**0.140**	ICP	
18-Aug-10	9:00 AM	15.7	7.58	1491	0.176	0.179	**0.178**	0.152	-	**0.152**	ICP	
19-Aug-10	9:45 AM	15.4	7.84	1625	0.167	0.165	**0.166**	0.148	-	**0.148**	ICP	
20-Aug-10	8:00 AM	13.6	7.69	1750	0.170	0.163	**0.167**	0.168	-	**0.168**	ICP	
21-Aug-10	6:15 AM	13.2	7.63	1594	0.167	0.164	**0.166**	0.150	-	**0.150**	ICP	
22-Aug-10	7:35 AM	12.5	7.81	1601	0.201	0.203	**0.202**	0.153	-	**0.153**	ICP	
23-Aug-10	8:30 AM	12.2	8.23	1603	0.174	0.172	**0.173**	0.143	-	**0.143**	ICP	
24-Aug-10	9:00 AM	11.9	7.98	1266	0.169	0.169	**0.169**	0.147	-	**0.147**	ICP	
25-Aug-10	8:12 AM	11.7	7.91	1511	0.153	0.152	**0.153**	0.141	-	**0.141**	ICP	
26-Aug-10	8:22 AM	11.7	8.30	1740	0.224	0.225	**0.225**	0.188	-	**0.188**	AA	
27-Aug-10	7:58 AM	11.0	8.04	1570	0.222	0.225	**0.224**	0.196	-	**0.196**	AA	
28-Aug-10	8:12 AM	10.9	7.77	1661	0.204	0.207	**0.206**	0.169	-	**0.169**	AA	
29-Aug-10	8:00 AM	11.8	8.07	1625	0.238	-	**0.238**	0.197	-	**0.197**	AA	
30-Aug-10	8:23 AM	11.5	7.42	1673	0.251	0.233	**0.242**	0.170	-	**0.170**	AA	
30-Aug-10	8:23 AM	11.5	7.69	1717	0.277	-	**0.277**	0.169	-	**0.169**	AA	Reanalysis of morning sample to verify previous results. pH and conductivity measured on lab meter.
30-Aug-10	2:30 PM	13.6	7.57	1900	0.258	0.269	**0.264**	0.160	-	**0.160**	AA	Afternoon sample. Siphon shutdown at ~5 pm.
30-Aug-10	2:30 PM	13.6	7.81	1710								pH and conductivity measured on lab meter.
31-Aug-10	2:45 PM	13.4	7.64	1860	0.236	-	**0.236**				AA	
1-Sep-10	7:57 AM	11.8	7.33	1595	0.242	0.241	**0.242**	0.191	-	**0.191**	AA	
2-Sep-10	8:18 AM	10.2	7.68	1623	0.210	0.206	**0.208**	0.187	-	**0.187**	AA	
3-Sep-10	7:35 AM	10.7	7.22	1672	0.251	0.245	**0.248**	0.208	-	**0.208**	AA	
4-Sep-10	8:16 AM	10.8	7.38	1744	0.192	0.206	**0.199**	0.177	-	**0.177**	AA	
5-Sep-10	9:33 AM	11.0	7.68	1860	0.237	0.218	**0.228**	0.200	-	**0.200**	AA	
6-Sep-10	9:58 AM	10.7	7.00	1730	0.223	0.248	**0.236**	0.208	-	**0.208**	AA	
7-Sep-10	9:45 AM	8.0	7.65	1708	0.254	0.257	**0.256**	0.219	-	**0.219**	AA	
8-Sep-10	8:20 AM	10.2	7.50	1512	0.222	0.231	**0.227**	0.191	-	**0.191**	AA	

Table C-9: 2010 FMC Lab Analysis - Zinc (Total and Dissolved) at X5

Date	Time	Temp. (°C)	pH	EC (µS/cm	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	Method of Analysis	Comments
9-Sep-10	8:05 AM	11.0	8.34	1575	0.236	0.253	**0.245**	0.186	-	**0.186**	AA	
9-Sep-10	8:05 AM		7.51									Lab result for pH.
17-Nov-10	12:22 PM	1.1	7.35	1190	0.296	0.298	**0.297**	0.293	-	**0.293**	ICP	
18-Nov-10	10:40 AM	1.6	7.30	2219	0.304	0.306	**0.305**	0.283	-	**0.283**	ICP	
19-Nov-10	11:15 AM	1.4	6.94	2347	0.323	0.328	**0.326**	0.272	-	**0.272**	ICP	
20-Nov-10	10:05 AM	1.9	7.00	2371	0.311	0.314	**0.313**	0.306	-	**0.306**	ICP	
21-Nov-10	10:10 AM	2.0	6.76	2350	0.307	0.306	**0.307**	0.306	-	**0.306**	ICP	
22-Nov-10	10:03 AM	1.7	7.34	2335	0.312	0.311	**0.312**	0.318	-	**0.318**	ICP	
23-Nov-10	10:17 AM	2.0	7.20	2408	0.307	0.301	**0.304**	0.296	-	**0.296**	ICP	
24-Nov-10	9:26 AM	2.6	7.24	2347	0.313	0.310	**0.312**	0.307	-	**0.307**	ICP	
24-Nov-10	5:08 PM	4.7	7.18	2462	0.309	0.309	**0.309**	0.301	-	**0.301**	ICP	
25-Nov-10	10:13 AM	3.0	7.43	2293	0.307	0.305	**0.306**	0.301	-	**0.301**	ICP	
25-Nov-10	4:37 PM	3.4	7.57	2414	0.297	0.300	**0.299**	0.297	-	**0.297**	ICP	
26-Nov-10	10:15 AM	2.9	6.75	2317	0.287	0.285	**0.286**	0.301	-	**0.301**	ICP	
26-Nov-10	5:15 PM	2.5	6.99	2386	0.310	0.318	**0.314**	0.299	-	**0.299**	ICP	
27-Nov-10	8:42 AM	2.5	6.90	2440	0.291	0.292	**0.292**	0.286	-	**0.286**	ICP	
27-Nov-10	6:02 PM	3.2	6.97	2382	0.294	0.293	**0.294**	0.299	-	**0.299**	ICP	
28-Nov-10	8:22 AM	2.5	7.02	2415	0.299	0.299	**0.299**	0.303	-	**0.303**	ICP	
28-Nov-10	4:10 PM	2.2	6.80	2436	0.300	0.307	**0.304**	0.308	-	**0.308**	ICP	
29-Nov-10	10:00 AM	2.9	6.91	2322	0.306	0.306	**0.306**	0.295	-	**0.295**	ICP	
29-Nov-10	3:18 PM	3.2	6.91	2322	0.312	0.312	**0.312**	0.312	-	**0.312**	ICP	
30-Nov-10	12:02 PM	2.6	7.31	2520	0.303	0.307	**0.305**	0.303	-	**0.303**	ICP	
30-Nov-10	3:30 PM	2.8	7.13	2536	0.304	0.304	**0.304**	0.306	-	**0.306**	ICP	
1-Dec-10	8:42 AM	2.4	7.12	2493	0.300	0.304	**0.302**	0.304	-	**0.304**	ICP	
1-Dec-10	3:32 PM	2.9	6.88	2500	0.285	0.293	**0.289**	0.295	-	**0.295**	ICP	Checked calibration on pH meter & was good.
2-Dec-10	9:09 AM	2.7	6.88	2590	0.298	0.301	**0.300**	0.301	-	**0.301**	ICP	

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Table C-10:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) at X14

Faro Mine Closure

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	Method of Analysis	Comments
22-Mar-10	5:46 PM	0.8	7.49	790	0.032	0.032	**0.032**	0.027	0.028	**0.028**	ICP	
23-Mar-10	1:10 PM	1.6	7.64	970	0.055	0.055	**0.055**	0.046	0.048	**0.047**	ICP	
24-Mar-10	9:23 AM	0.2	7.39	1190	0.143	0.147	**0.145**	0.141	0.142	**0.142**	ICP	
25-Mar-10	7:14 AM	0.4	7.48	1010	0.085	0.087	**0.086**	0.069	0.070	**0.070**	ICP	
25-Mar-10	2:49 PM	1.3	7.46	1020	0.081	0.082	**0.082**	0.076	0.076	**0.076**	ICP	
26-Mar-10	8:06 AM	0.4	7.34	1030	0.097	0.099	**0.098**	0.086	0.088	**0.087**	ICP	
27-Mar-10	7:30 AM	0.7	7.46	1040	0.082	0.082	**0.082**	0.080	0.082	**0.081**	ICP	
28-Mar-10	7:35 AM	1.2	7.48	1200	0.090	0.093	**0.092**	0.073	0.085	**0.079**	ICP	
29-Mar-10	8:32 AM	1.4	7.51	1030	0.091	0.091	**0.091**	0.078	0.079	**0.079**	ICP	
30-Mar-10	8:06 AM	1.5	7.59	913	0.086	0.088	**0.087**	0.079	0.079	**0.079**	ICP	
30-Mar-10	10:50 AM	1.0	7.37	1030	0.090	0.090	**0.090**	-	-		ICP	
31-Mar-10	9:03 AM	1.3	7.73	916	0.080	0.079	**0.080**	0.072	0.072	**0.072**	ICP	
1-Apr-10	7:57 AM	1.5	7.57	920	0.081	0.080	**0.081**	0.073	0.072	**0.073**	ICP	X5 Siphon shut down at 6:30 PM.
5-Apr-10	8:09 AM	1.5	7.53	820	0.027	0.028	**0.028**	0.023	-	**0.023**	ICP	X5 siphon opened at 10:10 AM (1/2 open).
5-Apr-10	11:09 AM	0.3	7.38	980	0.058	0.060	**0.059**	0.047	-	**0.047**	ICP	
6-Apr-10	8:24 AM	0.8	7.40	1100	0.091	0.092	**0.092**	0.084	0.085	**0.085**	ICP	
7-Apr-10	8:48 AM	0.2	7.14	1240	0.090	0.087	**0.089**	0.082	0.081	**0.082**	ICP	
8-Apr-10	10:43 AM	1.7	7.70	1129	0.087	0.090	**0.089**	0.083	0.085	**0.084**	ICP	
9-Apr-10	7:55 AM	1.6	7.74	1120	0.094	0.095	**0.095**	0.078	0.081	**0.080**	ICP	Began discharging from mill to CVP at 11am.
10-Apr-10	7:30 AM	1.0	7.70	994	0.089	0.089	**0.089**	0.090	-	**0.090**	ICP	
11-Apr-10	7:50 AM	1.3	7.67	1100	0.064	0.063	**0.064**	0.057	-	**0.057**	ICP	
12-Apr-10	8:14 AM	0.8	7.71	1100	0.063	0.066	**0.065**	0.051	0.052	**0.052**	ICP	
13-Apr-10	9:04 AM	0.9	7.85	1027	0.074	0.073	**0.074**	0.073	-	**0.073**	ICP	
14-Apr-10	8:20 AM	1.6	7.84	1038	0.059	0.059	**0.059**	0.056	-	**0.056**	ICP	
15-Apr-10	8:05 AM	1.9	7.14	1150	0.064	0.062	**0.063**	0.057	0.057	**0.057**	ICP	
20-Apr-10	2:43 PM	2.7	7.44	1914	0.093	-	**0.093**	0.043	-	**0.043**	ICP	
23-Apr-10	7:34 AM	0.8	7.57	696	0.056	-	**0.056**	-	-		ICP	
25-Apr-10	7:44 AM	1.4	7.81	604	0.058	0.070	**0.064**	0.025	0.024	**0.025**	ICP	
26-Apr-10	8:43 AM	0.9	7.93	487	0.035	0.035	**0.035**	0.026	0.025	**0.026**	ICP	
27-Apr-10	1:50 AM	2.2	7.30	357	0.034	-	**0.034**	0.023	-	**0.023**	ICP	
29-Apr-10	3:35 PM	3.2	7.36	260	0.036	-	**0.036**	0.018	-	**0.018**	ICP	
2-May-10	9:05 AM	1.3	7.20	320	0.051	-	**0.051**	0.028	-	**0.028**	ICP	
3-May-10	8:29 AM	2.6	8.65	370	0.047	0.046	**0.047**	0.053	-	**0.053**	ICP	
4-May-10	8:37 AM	0.8	7.53	560	0.066	-	**0.066**	0.056	-	**0.056**	ICP	
5-May-10	8:41 AM	1.0	7.99	544	0.064	-	**0.064**	0.057	-	**0.057**	ICP	
6-May-10	8:50 AM	1.6	7.70	566	0.085	-	**0.085**	0.062	-	**0.062**	ICP	
7-May-10	6:35 AM	1.4	7.90	530	0.058	-	**0.058**	0.047	-	**0.047**	ICP	

Table C-10:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) at X14

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	Method of Analysis	Comments
8-May-10	8:04 AM	1.5	7.80	568	0.060	-	**0.060**	0.052	-	**0.052**	ICP	
9-May-10	8:13 AM	1.6	7.79	477	0.065	-	**0.065**	0.041	-	**0.041**	ICP	
10-May-10	8:19 AM	1.4	8.31	526	0.059	-	**0.059**	0.049	-	**0.049**	ICP	
11-May-10	8:20 AM	1.0	7.65	471	0.046	0.046	**0.046**	0.053	-	**0.053**	ICP	
12-May-10	8:39 AM	2.6	8.32	462	0.059	-	**0.059**	0.044	-	**0.044**	ICP	
13-May-10	7:37 AM	2.9	7.65	535	0.051	-	**0.051**	0.040	-	**0.040**	ICP	
14-May-10	7:46 AM	1.8	7.98	508	0.052	0.052	**0.052**	0.042	-	**0.042**	ICP	
15-May-10	7:24 AM	2.7	8.27	475	0.054	-	**0.054**	0.034	-	**0.034**	ICP	
16-May-10	8:03 AM	2.6	7.84	366	0.043	-	**0.043**	0.033	-	**0.033**	ICP	
17-May-10	8:27 AM	2.7	7.88	456	0.040	-	**0.040**	0.029	-	**0.029**	ICP	
18-May-10	8:34 AM	3.2	7.73	372	0.034	-	**0.034**	0.027	-	**0.027**	ICP	
19-May-10	8:25 AM	3.9	7.82	275	0.033	-	**0.033**	0.019	-	**0.019**	ICP	
20-May-10	8:18 AM	2.5	8.22	210	0.038	-	**0.038**	0.013	-	**0.013**	ICP	pH reading on same sample by lab personnel gave 7.78.
21-May-10	8:36 AM	2.3	7.75	233	0.026	-	**0.026**	0.016	-	**0.016**	ICP	
22-May-10	8:05 AM	2.4	8.32	269	0.022	-	**0.022**	0.019	-	**0.019**	ICP	
23-May-10	8:16 AM	4.3	8.47	275	0.026	-	**0.026**	0.016	-	**0.016**	ICP	
24-May-10	7:33 AM	3.8	7.79	277	0.024	-	**0.024**	0.018	-	**0.018**	ICP	
25-May-10	8:40 AM	5.0	8.01	243	0.022	-	**0.022**	0.015	-	**0.015**	ICP	
26-May-10	8:19 AM	4.6	7.66	246	0.024	-	**0.024**	0.018	-	**0.018**	ICP	
27-May-10	9:07 AM	5.7	8.20	265	0.028	-	**0.028**	0.015	-	**0.015**	ICP	
8-Jun-10	8:36 AM	7.0	7.93	380	0.040	-	**0.040**	0.032	-	**0.032**	ICP	
15-Jun-10	9:01 AM	7.2	7.87	420	0.046	-	**0.046**	0.041	-	**0.041**	ICP	
22-Jun-10	9:56 AM	9.6	7.75	438	0.114	-	**0.114**	0.046	-	**0.046**	ICP	
24-Jun-10	9:13 AM	9.3	7.81	457	0.044	-	**0.044**	0.065	-	**0.065**	ICP	
29-Jun-10	9:50 AM	9.4	7.35	501	0.047	-	**0.047**	0.044	-	**0.044**	ICP	
6-Jul-10	9:56 AM	9.9	8.01	395	0.048	-	**0.048**	0.022	-	**0.022**	ICP	
13-Jul-10	8:45 AM	9.4	8.19	456	0.040	-	**0.040**	0.031	-	**0.031**	ICP	
20-Jul-10	10:08 AM	11.8	8.04	563	0.046	-	**0.046**	0.042	-	**0.042**	ICP	
27-Jul-10	9:01 AM	10.2	8.11	606	0.063	-	**0.063**	0.054	-	**0.054**	ICP	
10-Aug-10	8:56 AM	9.8	7.92	658	0.054	-	**0.054**	0.037	-	**0.037**	ICP	
17-Aug-10	8:50 AM	11.5	7.92	614	0.051	-	**0.051**	0.043	-	**0.043**	ICP	
24-Aug-10	8:40 AM	8.0	8.67	423	0.037	-	**0.037**	0.026	-	**0.026**	ICP	
31-Aug-10	2:10 PM	10.9	7.96	650	0.046	-	**0.046**	-	-		AA	
7-Sep-10	9:30 AM	4.5	8.27	532	0.101	-	**0.101**	0.032	-	**0.032**	AA	
17-Nov-10	12:20 PM	0.1	7.61	510	0.113	-	**0.113**	0.103	-	**0.103**	ICP	
17-Nov-10	3:16 PM	0.1	7.66	530	0.117	-	**0.117**	0.101	-	**0.101**	ICP	
17-Nov-10	4:40 PM				0.118	-	**0.118**	0.100	-	**0.100**	ICP	Sample taken from surface at X14.

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Table C-10:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) at X14

Faro Mine Closure

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	Method of Analysis	Comments
17-Nov-10	4:40 PM				0.119	-	**0.119**	0.107	-	**0.107**	ICP	Sample taken from depth (~0.5 m) at X14.
18-Nov-10	10:30 AM	1.5	7.75	1010	0.110	-	**0.110**	0.094	-	**0.094**	ICP	
19-Nov-10	11:25 AM	0.1	7.40	1088	0.109	0.109	**0.109**	0.107	-	**0.107**	ICP	
20-Nov-10	10:00 AM	1.0	7.31	1110	0.109	-	**0.109**	0.105	-	**0.105**	ICP	
21-Nov-10	10:00 AM	0.3	7.10	1060	0.104	-	**0.104**	0.105	-	**0.105**	ICP	
22-Nov-10	9:55 AM	<0.0	7.80	1051	0.104	-	**0.104**	0.089	-	**0.089**	ICP	
23-Nov-10	10:08 AM	0.8	7.48	1097	0.101	-	**0.101**	0.096	-	**0.096**	ICP	
24-Nov-10	9:19 AM	0.9	7.48	1046	0.099	-	**0.099**	0.098	-	**0.098**	ICP	
24-Nov-10	5:02 PM	1.0	7.55	1077	0.100	-	**0.100**	0.092	-	**0.092**	ICP	
25-Nov-10	10:06 AM	1.1	8.14	997	0.101	-	**0.101**	0.095	-	**0.095**	ICP	
25-Nov-10	4:20 PM	0.9	8.21	1008	0.092	-	**0.092**	0.091	-	**0.091**	ICP	
26-Nov-10	10:05 AM	1.0	6.98	1008	0.088	-	**0.088**	0.088	-	**0.088**	ICP	
26-Nov-10	5:10 PM	1.4	7.33	994	0.093	-	**0.093**	0.091	-	**0.091**	ICP	
27-Nov-10	8:55 AM	0.4	7.47	1022	0.087	-	**0.087**	0.078	-	**0.078**	ICP	
27-Nov-10	5:55 PM	0.9	7.39	971	0.089	-	**0.089**	0.086	-	**0.086**	ICP	
28-Nov-10	8:32 AM	0.1	7.47	982	0.088	-	**0.088**	0.086	-	**0.086**	ICP	
28-Nov-10	4:00 PM	0.8	7.49	949	0.086	-	**0.086**	0.081	-	**0.081**	ICP	
29-Nov-10	9:51 AM	0.9	7.57	995	0.091	-	**0.091**	0.086	-	**0.086**	ICP	
29-Nov-10	3:09 PM	0.7	7.39	971	0.089	-	**0.089**	0.085	-	**0.085**	ICP	
30-Nov-10	12:02 PM	0.5	7.71	988	0.089	-	**0.089**	0.083	-	**0.083**	ICP	
30-Nov-10	3:23 PM	1.1	7.61	988	0.090	-	**0.090**	0.080	-	**0.080**	ICP	
1-Dec-10	8:37 AM	<0.1	7.67	1000	0.085	-	**0.085**	0.084	-	**0.084**	ICP	
1-Dec-10	3:25 PM	0.5	7.62	970	0.083	-	**0.083**	0.082	-	**0.082**	ICP	
2-Dec-10	8:42 AM	0.1	7.70	1000	0.087	-	**0.087**	0.096	-	**0.096**	ICP	

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Table C-11:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Thickener

Faro Mine Closure

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		Zn-T Average	Zn-D		Zn-D Average	Config.	Method of Analysis	Comments
10-Apr-10	8:00 AM	1.3	10.59	1501	0.785	-	**0.785**	<0.01	-	**<0.01**	S	ICP	
11-Apr-10	8:00 AM	1.7	10.23	1640	0.094	-	**0.094**	<0.01	-	**<0.01**	S	ICP	
12-Apr-10	7:20 AM	2.2	10.72	1620	0.059	0.060	**0.060**	<0.01	-	**<0.01**	S	ICP	
13-Apr-10	8:40 AM	1.3	10.79	1497	0.087	-	**0.087**	<0.01	-	**<0.01**	S	ICP	
14-Apr-10	8:40 AM	1.0	10.93	1520	0.030	-	**0.030**	<0.01	-	**<0.01**	S	ICP	
15-Apr-10	8:26 AM	1.8	11.04	1730	0.069	0.074	**0.072**	<0.01	<0.01	**<0.01**	S	ICP	
16-Apr-10	6:59 AM	1.1	11.14	1730	0.052	0.059	**0.056**	<0.01	<0.01	**<0.01**	S	ICP	
17-Apr-10	8:00 AM	1.3	11.02	1700	0.026	-	**0.026**	<0.01	-	**<0.01**	S	ICP	
18-Apr-10	8:40 AM	1.0	10.82	1760	0.059	-	**0.059**	<0.01	-	**<0.01**	S	ICP	
19-Apr-10	8:27 AM	2.0	11.14	1720	0.043	-	**0.043**	<0.01	-	**<0.01**	S	ICP	Began treatment of Faro pit water @ 2pm. New ICP standards prepared.
20-Apr-10	12:16 PM	3.1	10.73	1609	0.063	-	**0.063**	<0.01	-	**<0.01**	S	ICP	
21-Apr-10	9:15 AM	1.5	10.95	1512	0.475	-	**0.475**	<0.01	-	**<0.01**	S	ICP	
22-Apr-10	8:15 AM	2.3		1453	0.086	-	**0.086**	<0.01	-	**<0.01**	S	ICP	pH meter malfunctioning, no pH reading obtained.
23-Apr-10	7:14 AM	1.7	10.77	1433	0.039	-	**0.039**	<0.01	-	**<0.01**	S	ICP	
24-Apr-10	7:50 AM	1.9	10.64	1482	0.127	-	**0.127**	<0.01	-	**<0.01**	S	ICP	
25-Apr-10	8:05 AM	1.9	10.82	1529	0.120	-	**0.120**	<0.01	-	**<0.01**	S	ICP	
26-Apr-10	7:57 AM	2.4	10.74	1411	0.093	-	**0.093**	<0.01	-	**<0.01**	S	ICP	
27-Apr-10	8:19 AM	1.9	10.51	1354	0.143	-	**0.143**	<0.01	-	**<0.01**	S	ICP	
28-Apr-10	8:04 AM	2.5	10.87	1280	0.132	-	**0.132**	<0.01	-	**<0.01**	S	ICP	
29-Apr-10	8:52 AM	2.8	10.15	1170	0.146	-	**0.146**	<0.01	-	**<0.01**	S	ICP	
30-Apr-10	7:30 AM	3.0	10.81	1220	0.181	-	**0.181**	<0.01	-	**<0.01**	S	ICP	
1-May-10		3.4	11.11	1250	0.094	-	**0.094**	<0.01	-	**<0.01**	S	ICP	
2-May-10	8:30 AM	3.7	11.07	1250	0.171	-	**0.171**	<0.01	-	**<0.01**	S	ICP	
3-May-10	8:08 AM	4.4	10.92	1230	0.208	-	**0.208**	<0.01	-	**<0.01**	S	ICP	
4-May-10	8:00 AM	4.0	10.35	1270	0.260	-	**0.260**	<0.01	-	**<0.01**	S	ICP	
4-May-10	1:15 PM	4.6	10.76	1190	0.115	-	**0.115**	<0.01	-	**<0.01**	S	ICP	
5-May-10	8:30 AM	3.7	10.79	1204	0.141	-	**0.141**	<0.01	-	**<0.01**	S	ICP	
6-May-10	7:56 AM	3.9	10.84	1204	0.222	-	**0.222**	<0.01	-	**<0.01**	S	ICP	
7-May-10	6:17 AM	3.8	10.39	1234	0.153	-	**0.153**	<0.01	-	**<0.01**	S	ICP	
8-May-10	7:40 AM	4.0	10.59	1221	0.294	-	**0.294**	<0.01	-	**<0.01**	S	ICP	
9-May-10	7:53 AM	3.8	10.59	1202	0.175	-	**0.175**	<0.01	-	**<0.01**	S	ICP	
10-May-10	7:56 AM	4.1	10.56	1284	0.298	-	**0.298**	<0.01	-	**<0.01**	S	ICP	Switched to parallel config. At 2:45 PM.
11-May-10	7:50 AM	3.5	10.47	1260	0.230	-	**0.230**	<0.01	-	**<0.01**	P	ICP	
11-May-10	2:58 PM	4.5	10.30	1180	0.153	-	**0.153**	<0.01	-	**<0.01**	P	ICP	
12-May-10	8:10 AM	4.3	10.84	1249	0.234	-	**0.234**	<0.01	-	**<0.01**	P	ICP	
13-May-10	7:20 AM	5.0	10.26	1300	0.394	-	**0.394**	<0.01	-	**<0.01**	P	ICP	

Table C-11:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Thickener

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		Zn-T Average	Zn-D		Zn-D Average	Config.	Method of Analysis	Comments
13-May-10	1:56 PM	4.3	9.22	1170	0.912	-	**0.912**	0.076	-	**0.076**	P	ICP	Analyzed for Zn T and Diss. May 14, 10.
14-May-10	7:12 AM	4.2	10.44	1178	0.189	-	**0.189**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
15-May-10	6:00 AM	6.8	10.57	1240	0.136	-	**0.136**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Night Staff.
15-May-10	7:02 AM	5.2	10.94	1311	0.171	-	**0.171**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
16-May-10	6:00 AM	4.7	10.72	1241	0.201	-	**0.201**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Night Staff.
16-May-10	7:42 AM	4.6	10.62	1143	0.229	-	**0.229**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
17-May-10	6:00 AM	5.3	10.73	1207	0.160	-	**0.160**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Night Staff.
17-May-10	8:10 AM	5.8	10.59	1468	0.156	-	**0.156**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
18-May-10	6:00 AM	5.2	10.81	1210	0.271	-	**0.271**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Night Staff.
18-May-10	8:06 AM	5.3	10.60	1303	0.253	-	**0.253**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
19-May-10	6:00 AM	6.6	10.72	1255	0.089	-	**0.089**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Night Staff.
19-May-10	8:05 AM	5.2	10.73	1406	0.117	-	**0.117**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
20-May-10	8:00 AM	6.7	10.90	1670	0.146	-	**0.146**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
21-May-10	8:53 AM	5.7	10.91	1501	0.118	-	**0.118**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
22-May-10	7:41 AM	5.6	10.98	1503	0.094	-	**0.094**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
23-May-10	7:50 AM	6.9	10.50	1534	0.103	-	**0.103**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
24-May-10	7:07 AM	6.2	10.48	1481	0.185	-	**0.185**	<0.01	-	**<0.01**	P	ICP	
25-May-10	8:01 AM	6.8	10.48	1534	0.184	-	**0.184**	<0.01	-	**<0.01**	P	ICP	
26-May-10	7:58 AM	7.2	10.44	1290	0.191	-	**0.191**	<0.01	-	**<0.01**	P	ICP	
27-May-10	8:50 AM	7.5	10.50	1473	0.124	-	**0.124**	<0.01	-	**<0.01**	P	ICP	
28-May-10	7:37 AM	7.5	10.88	1449	0.183	-	**0.183**	0.017	-	**0.017**	P	ICP	New sampling point: thickener port.
29-May-10	7:30 AM	8.7	10.62	1420	0.243	-	**0.243**	<0.01	-	**<0.01**	P	ICP	
30-May-10	7:35 AM	8.7	10.25	1472	0.144	-	**0.144**	<0.01	-	**<0.01**	P	ICP	
31-May-10	7:56 AM	9.3	10.22	1444	0.173	-	**0.173**	<0.01	-	**<0.01**	P	ICP	
1-Jun-10	8:05 AM	9.2	10.55	1558	0.104	-	**0.104**	<0.01	-	**<0.01**	P	ICP	
2-Jun-10	8:23 AM	9.4	10.28	1515	0.103	-	**0.103**	<0.01	-	**<0.01**	P	ICP	Taken from old sampling location.
3-Jun-10	8:10 AM	9.4	10.47	1465	0.197	-	**0.197**	<0.01	-	**<0.01**	P	ICP	
4-Jun-10	7:38 AM	8.4	10.49	1441	0.174	-	**0.174**	<0.01	-	**<0.01**	P	ICP	
5-Jun-10	6:40 AM	8.5	10.46	1424	0.176	-	**0.176**	<0.01	-	**<0.01**	P	ICP	Port not working. Taken from old sampling location.
6-Jun-10	6:30 AM	8.7	10.49	1526	0.190	-	**0.190**	<0.01	-	**<0.01**	P	ICP	Port not working. Taken from old sampling location.

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Table C-11:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Thickener

Faro Mine Closure

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		Zn-T Average	Zn-D		Zn-D Average	Config.	Method of Analysis	Comments
7-Jun-10	8:00 AM	8.6	10.46	1449	0.172	-	**0.172**	<0.01	-	**<0.01**	P	ICP	Port not working. Taken from old sampling location.
8-Jun-10	8:10 AM	8.4	10.61	1427	0.215	-	**0.215**	<0.01	-	**<0.01**	P	ICP	
9-Jun-10	8:11 AM	9.0	10.65	1130	0.185	-	**0.185**	<0.01	-	**<0.01**	P	ICP	
10-Jun-10	8:00 AM	9.6	10.53	1331	0.186	-	**0.186**	0.015	-	**0.015**	P	ICP	
11-Jun-10	7:45 AM	9.0	10.51	1393	0.154	-	**0.154**	<0.01	-	**<0.01**	P	ICP	
12-Jun-10	7:35 AM	9.2	10.75	1426	0.182	-	**0.182**	<0.01	-	**<0.01**	P	ICP	
13-Jun-10	7:52 AM	9.3	10.63	1493	0.246	-	**0.246**	<0.01	-	**<0.01**	P	AA	
14-Jun-10	8:09 AM	8.7	10.52	1492	0.264	-	**0.264**	<0.01	-	**<0.01**	P	AA	
15-Jun-10	9:22 AM	9.7	10.54	1360	0.432	0.436	**0.434**	<0.01	-	**<0.01**	P	ICP	
16-Jun-10	8:03 AM	10.6	10.30	1360	0.194	-	**0.194**	<0.01	-	**<0.01**	P	ICP	includes ETA water starting 4:40 PM.
17-Jun-10	7:56 AM	10.4	10.08	1450	0.155	-	**0.155**	<0.01	-	**<0.01**	P	AA	
18-Jun-10	7:18 AM	10.3	10.19	1513	0.094	-	**0.094**	<0.01	-	**<0.01**	P	AA	
19-Jun-10	8:55 AM	10.4	10.42	1460	0.131	-	**0.131**	<0.01	-	**<0.01**	P	AA	
20-Jun-10	7:21 AM	11.0	10.35	1460	0.149	-	**0.149**	0.015	-	**0.015**	P	AA	New port.
21-Jun-10	7:49 AM	10.8	10.27	1422	0.165	-	**0.165**	0.015	-	**0.015**	P	AA	
22-Jun-10	9:20 AM										P		not sampled. Pumping sludge.
23-Jun-10	7:55 AM	12.3	10.33	1304	0.154	-	**0.154**	<0.01	-	**<0.01**	P	AA	old sample site.
24-Jun-10	8:51 AM	11.3	10.26	1497	0.140	-	**0.140**	<0.01	-	**<0.01**	P	ICP	
25-Jun-10	8:02 AM	11.7	10.15	1464	0.098	-	**0.098**	0.072	-	**0.072**	P	ICP	
26-Jun-10	8:16 AM	12.8	9.78	1127	0.057	-	**0.057**	0.020	-	**0.020**	P	ICP	
27-Jun-10	8:10 AM	11.8	10.17	1644	0.146	-	**0.146**	<0.01	-	**<0.01**	P	ICP	
28-Jun-10	8:05 AM	11.5	10.19	1497	0.123	-	**0.123**	<0.01	-	**<0.01**	P	ICP	
29-Jun-10	8:25 AM	11.6	9.96	1511	0.124	-	**0.124**	<0.01	-	**<0.01**	P	ICP	
30-Jun-10	9:00 AM	11.5	9.91	1515	0.187	-	**0.187**	0.018	-	**0.018**	P	ICP	
1-Jul-10	8:40 AM	11.4	9.89	1532	0.327	-	**0.327**	0.015	-	**0.015**	P	ICP	
1-Jul-10	5:15 PM	12.2	10.18	1619	0.248	-	**0.248**	0.018	-	**0.018**	P	ICP	
2-Jul-10	7:40 AM	12.1	9.81	1640	0.134	-	**0.134**	0.022	-	**0.022**	P	ICP	
2-Jul-10	5:36 PM	12.5	9.82	1510	0.094	-	**0.094**					ICP	
3-Jul-10	8:05 AM	11.9	10.03	1620	0.143	-	**0.143**	0.035	-	**0.035**	P	ICP	
4-Jul-10	9:05 AM	11.4	10.00	1640	0.216	-	**0.216**	0.011	-	**0.011**	P	ICP	
5-Jul-10	8:30 AM	11.2	9.76	1660	0.219	-	**0.219**	0.023	-	**0.023**	P	ICP	
6-Jul-10	8:30 AM	11.3	9.86	1485	0.201	-	**0.201**	<0.01	-	**<0.01**	P	ICP	
7-Jul-10	8:32 AM	11.6	9.30	1427	0.209	-	**0.209**	0.078	-	**0.078**	P	ICP	
8-Jul-10	8:35 AM	12.9	9.75	1475	0.211	-	**0.211**	0.011	-	**0.011**	P	ICP	
9-Jul-10	7:40 AM	13.2	9.97	1425	0.096	0.110	**0.103**	0.010	-	**0.010**	P	ICP	
10-Jul-10	7:35 AM	13.2	10.20	1620	0.109	-	**0.109**	<0.01	-	**<0.01**	P	ICP	

Table C-11:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Thickener

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		Zn-T Average	Zn-D		Zn-D Average	Config.	Method of Analysis	Comments
11-Jul-10	8:10 AM	11.6	10.37	1368	0.099	-	**0.099**	<0.01	-	**<0.01**	P	ICP	
12-Jul-10	8:16 AM	12.3	10.24	1585	0.062	-	**0.062**	<0.01	-	**<0.01**	P	ICP	
13-Jul-10	8:15 AM	13.5	10.23	1303	0.090	-	**0.090**	<0.01	-	**<0.01**	P	ICP	
14-Jul-10	8:25 AM	12.4	10.02	1395	0.059	-	**0.059**	<0.01	-	**<0.01**	P	ICP	
15-Jul-10	8:13 AM	12.8	10.02	1322	0.109	-	**0.109**	<0.01	-	**<0.01**	P	ICP	
16-Jul-10	7:15 AM	13.7	10.18	1600	0.102	-	**0.102**	<0.01	-	**<0.01**	P	ICP	
17-Jul-10	7:05 AM	13.4	10.01	1394	0.096	-	**0.096**	0.013	-	**0.013**	P	ICP	
18-Jul-10	7:03 AM	13.4	10.00	1620	0.112	-	**0.112**	0.010	-	**0.010**	P	ICP	
19-Jul-10	8:10 AM	13.6	10.17	1567	0.153	-	**0.153**	<0.01	-	**<0.01**	P	ICP	
20-Jul-10	10:20 AM	13.9	10.22	1438	0.118	-	**0.118**	<0.01	-	**<0.01**	P	ICP	
21-Jul-10	8:03 AM	13.8	10.04	1630	0.113	-	**0.113**	<0.01	-	**<0.01**	P	ICP	
22-Jul-10	8:38 AM	14.1	10.04	1310	0.182	0.187	**0.185**	<0.01	-	**<0.01**	P	ICP	
22-Jul-10	-	-	9.96	1360	0.127	0.127	**0.127**				P	ICP	
23-Jul-10	7:55 AM	13.1	10.12	1449	0.079	-	**0.079**	<0.01	-	**<0.01**	P	ICP	
24-Jul-10	7:42 AM	13.3	10.12	1598	0.099	-	**0.099**	0.010	-	**0.010**	P	ICP	
25-Jul-10	7:44 AM	13.6	10.25	1587	0.119	0.125	**0.122**				P	ICP	dup run to check value.
25-Jul-10	12:10 PM	13.7	10.24	1564	0.195	0.193	**0.194**				P	ICP	no diss... Samples acidified.
26-Jul-10	7:45 AM	13.8	10.37	1414	0.172	-	**0.172**	0.011	-	**0.011**	P	ICP	
27-Jul-10	8:09 AM	13.9	10.27	1372	0.155	-	**0.155**	<0.01	-	**<0.01**	P	ICP	
28-Jul-10	8:05 AM	12.4	9.85	1327	0.040	-	**0.040**	<0.01	-	**<0.01**	P	ICP	
29-Jul-10	7:59 AM	14.1	10.26	1367	0.554	-	**0.554**	0.014	0.015	**0.015**	P	AA	
30-Jul-10	7:47 AM	15.1	10.27	1687	0.032	-	**0.032**	<0.01	<0.01	**<0.01**	P	AA	
31-Jul-10	7:47 AM	14.4	10.30	1375	0.198	-	**0.198**	<0.01	-	**<0.01**	P	AA	
1-Aug-10	7:45 AM	14.6	10.13	1279	0.174	-	**0.174**	0.010	-	**0.010**	P	AA	
2-Aug-10	8:07 AM	14.9	10.18	1580	0.111	-	**0.111**	0.013	-	**0.013**	P	AA	
3-Aug-10	7:56 AM	14.9	10.21	1578	0.146	-	**0.146**	0.025	-	**0.025**	P	AA	
4-Aug-10	8:00 AM	15.0	10.30	1312	0.171	-	**0.171**	0.021	-	**0.021**	P	AA	
5-Aug-10	8:01 AM	15.4	10.11	1443	0.203	-	**0.203**	0.010	-	**0.010**	P	AA	Faro pump shutdown 8:11-10:02AM.
6-Aug-10	7:46 AM	15.1	9.89	1358	0.125	-	**0.125**	0.014	-	**0.014**	P	AA	
7-Aug-10	7:50 AM	15.2	10.23	1427	0.131	-	**0.131**	<0.01	-	**<0.01**	P	AA	
8-Aug-10	8:30 AM	15.0	10.08	1600	0.132	-	**0.132**	0.011	-	**0.011**	P	AA	
9-Aug-10	8:05 AM	15.1	9.72	1569	0.148	-	**0.148**	<0.01	-	**<0.01**	P	ICP	
9-Aug-10	8:05 AM				0.119	-	**0.119**	0.013	-	**0.013**	P	AA	Duplicate analysis on AA.
10-Aug-10	8:05 AM	14.5	10.21	1572	0.164	-	**0.164**	<0.01	-	**<0.01**	P	ICP	
11-Aug-10	7:57 AM	14.7	10.01	1380	0.173	-	**0.173**	<0.01	-	**<0.01**	P	ICP	
12-Aug-10	7:57 AM	15.2	9.93	1440	0.069	-	**0.069**	0.011	-	**0.011**	P	ICP	
13-Aug-10	7:40 AM	14.3	10.33	1060	0.054	-	**0.054**	<0.01	-	**<0.01**	P	ICP	

Table C-11:
2010 FMC Lab Analysis - Zinc
(Total and Dissolved) in the Thickener

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	**Config.**	**Method of Analysis**	Comments
14-Aug-10	8:07 AM	14.9	10.37	1399	0.084	-	**0.084**	<0.01	-	**<0.01**	P	ICP	
15-Aug-10	7:55 AM	14.5	9.51	1318	0.080	-	**0.080**	<0.01	-	**<0.01**	P	ICP	
16-Aug-10	7:43 AM	15.0	10.05	1560	0.228	0.275	**0.252**	<0.01	-	**<0.01**	P	ICP	
17-Aug-10	8:10 AM	15.4	9.86	1401	0.085	-	**0.085**	<0.01	-	**<0.01**	P	ICP	
18-Aug-10	8:10 AM	14.8	10.04	1500	0.078	-	**0.078**	<0.01	-	**<0.01**	P	ICP	
19-Aug-10	9:30 AM	14.2	10.20	1689	0.128	-	**0.128**	<0.01	-	**<0.01**	P	ICP	
20-Aug-10	7:44 AM	13.7	9.90	1590	0.074	-	**0.074**	<0.01	-	**<0.01**	P	ICP	
21-Aug-10	6:05 AM	13.6	10.34	1570	0.069	-	**0.069**	<0.01	-	**<0.01**	P	ICP	
22-Aug-10	7:14 AM	13.3	10.10	1430	0.177	-	**0.177**	<0.01	-	**<0.01**	P	ICP	
23-Aug-10	8:02 AM	12.5	10.08	1463	0.141	-	**0.141**	<0.01	-	**<0.01**	P	ICP	
24-Aug-10	8:09 AM	13.1	10.05	1183	0.104	-	**0.104**	<0.01	-	**<0.01**	P	ICP	
25-Aug-10	7:46 AM	12.4	10.11	1381	0.110	-	**0.110**	<0.01	-	**<0.01**	P	ICP	
26-Aug-10	7:50 AM	11.9	9.95	1630	0.145	-	**0.145**	<0.01	-	**<0.01**	P	AA	
27-Aug-10	7:35 AM	11.2	10.20	1458	0.234	-	**0.234**	<0.01	-	**<0.01**	P	AA	
28-Aug-10	8:58 AM	11.3	9.69	2063	0.091	-	**0.091**	<0.01	-	**<0.01**	P	AA	
29-Aug-10	8:30 AM	10.8	10.17	1993	0.111	-	**0.111**	<0.01	-	**<0.01**	P	AA	
30-Aug-10	7:56 AM	11.2	9.86	2047	0.099	-	**0.099**	0.016	-	**0.016**	P	AA	
30-Aug-10	7:56 AM	11.2	9.67	2133	0.119	-	**0.119**	<0.01	-	**<0.01**		AA	Reanalysis of morning sample to verify result. pH and conductivity measured on lab meter.
30-Aug-10	2:48 PM	11.1	10.00	2330	0.129	-	**0.129**	<0.01	-	**<0.01**		AA	Sample collected from thickener tank (no discharge from tank now).
30-Aug-10	2:48 PM	11.1	9.80	2145									pH and conductivity measured on lab meter.

Table C-12:
2010 FMC Lab Analysis - Zinc
(Total and Dissolved) in the Clarifier

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	**Config.**	Method of Analysis	Comments
10-Apr-10	8:00 AM	1.4	10.49	1485	0.463	-	**0.463**	<0.01	-	**<0.01**	S	ICP	
11-Apr-10	8:00 AM	1.5	10.40	1650	0.079	-	**0.079**	<0.01	-	**<0.01**	S	ICP	
12-Apr-10	7:25 AM	1.0	10.47	1680	0.120	0.122	**0.121**	<0.01	-	**<0.01**	S	ICP	
13-Apr-10	8:36 AM	2.7	10.50	1502	0.077	-	**0.077**	<0.01	-	**<0.01**	S	ICP	
14-Apr-10	8:42 AM	1.1	10.83	1518	0.033	-	**0.033**	<0.01	-	**<0.01**	S	ICP	
15-Apr-10	8:28 AM	1.5	11.14	1760	0.067	0.068	**0.068**	<0.01	<0.01	**<0.01**	S	ICP	
16-Apr-10	7:08 AM	0.9	10.93	1730	0.050	0.048	**0.049**	<0.01	<0.01	**<0.01**	S	ICP	
17-Apr-10	8:05 AM	1.2	11.01	1750	0.034	-	**0.034**	<0.01	-	**<0.01**	S	ICP	
18-Apr-10	8:40 AM	1.0	10.78	1750	0.055	-	**0.055**	<0.01	-	**<0.01**	S	ICP	
19-Apr-10	8:30 AM	1.1	11.12	1710	0.049	-	**0.049**	<0.01	-	**<0.01**	S	ICP	Began treatment of Faro pit water @ 2pm. New ICP standards prepared.
20-Apr-10	12:19 PM	2.7	10.76	1612	0.069	-	**0.069**	<0.01	-	**<0.01**	S	ICP	
21-Apr-10	9:10 AM	2.3	10.90	1492	0.246	-	**0.246**	<0.01	-	**<0.01**	S	ICP	
22-Apr-10	8:10 AM	3.9		1440	0.091	-	**0.091**	<0.01	-	**<0.01**	S	ICP	pH meter malfunctioning, no pH reading obtained.
23-Apr-10	7:16 AM	1.7	10.41	1479	0.063	-	**0.063**	<0.01	-	**<0.01**	S	ICP	
24-Apr-10	7:52 AM	1.8	10.74	1513	0.080	-	**0.080**	<0.01	-	**<0.01**	S	ICP	
25-Apr-10	8:07 AM	2.0	10.66	1555	0.109	-	**0.109**	<0.01	-	**<0.01**	S	ICP	
26-Apr-10	7:55 AM	3.6	10.37	1374	0.135	-	**0.135**	<0.01	-	**<0.01**	S	ICP	
27-Apr-10	8:20 AM	2.8	10.51	1354	0.146	-	**0.146**	<0.01	-	**<0.01**	S	ICP	
28-Apr-10	8:02 AM	3.0	10.55	1250	0.147	-	**0.147**	<0.01	-	**<0.01**	S	ICP	
29-Apr-10	8:50 AM	2.8	10.23	1180	0.153	-	**0.153**	<0.01	-	**<0.01**	S	ICP	
30-Apr-10	7:30 AM	3.2	10.86	1230	0.135	-	**0.135**	<0.01	-	**<0.01**	S	ICP	
1-May-10		3.6	11.41	1270	0.142	-	**0.142**	<0.01	-	**<0.01**	S	ICP	
2-May-10	8:30 AM	4.0	10.73	1240	0.133	-	**0.133**	<0.01	-	**<0.01**	S	ICP	
3-May-10	8:09 AM	4.1	10.86	1220	0.096	-	**0.096**	<0.01	-	**<0.01**	S	ICP	
4-May-10	7:59 AM	4.2	10.28	1270	0.296	-	**0.296**	<0.01	-	**<0.01**	S	ICP	
4-May-10	1:20 PM	4.4	10.86	1190	0.141	-	**0.141**	<0.01	-	**<0.01**	S	ICP	
5-May-10	8:29 AM	4.6	10.64	1300	0.250	-	**0.250**	0.011	-	**0.011**	S	ICP	
6-May-10	7:52 AM	3.9	10.61	1221	0.270	-	**0.270**	<0.01	-	**<0.01**	S	ICP	
7-May-10	6:20 AM	3.7	10.56	1207	0.155	-	**0.155**	<0.01	-	**<0.01**	S	ICP	
8-May-10	7:38 AM	4.6	10.48	1253	0.332	-	**0.332**	<0.01	-	**<0.01**	S	ICP	
9-May-10	7:50 AM	5.3	10.48	1271	0.315	-	**0.315**	<0.01	-	**<0.01**	S	ICP	
10-May-10	7:55 AM	4.1	10.45	1288	0.278	-	**0.278**	<0.01	-	**<0.01**	S	ICP	Switched to parallel discharge from thickener and clarifier at 2:45 PM.
11-May-10	7:50 AM	4.5	10.33	1280	0.429	-	**0.429**	<0.01	-	**<0.01**	P	ICP	
11-May-10	3:00 PM	4.2	10.21	1180	0.363	-	**0.363**	<0.01	-	**<0.01**	P	ICP	

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Table C-12:
2010 FMC Lab Analysis - Zinc
(Total and Dissolved) in the Clarifier

Faro Mine Closure

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	**Config.**	Method of Analysis	Comments
12-May-10	8:11 AM	4.4	10.27	1304	0.407	-	**0.407**	<0.01	-	**<0.01**	P	ICP	
13-May-10	7:20 AM	4.1	10.20	1260	0.683	-	**0.683**	<0.01	<0.01	**<0.01**	P	ICP	
13-May-10	2:01 PM	4.2	9.18	1070	2.415	-	**2.415**	0.023	-	**0.023**	P	ICP	Analyzed for Zn T and Diss. May 14, 10.
14-May-10	6:00 AM	8.2	10.55	1255	0.287	-	**0.287**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Staff.
14-May-10	7:15 AM	4.1	10.49	1230	0.274	-	**0.274**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
15-May-10	6:00 AM	6.9	10.50	1234	0.246	-	**0.246**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Night Staff.
15-May-10	7:07 AM	5.0	10.86	1263	0.282	-	**0.282**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
16-May-10	6:00 AM	5.6	10.61	1255	0.260	-	**0.260**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Night Staff.
16-May-10	7:46 AM	4.7	10.46	1240	0.331	-	**0.331**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
17-May-10	6:00 AM	5.1	10.66	1247	0.243	-	**0.243**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Night Staff.
17-May-10	8:11 AM	4.8	10.63	1435	0.248	-	**0.248**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
18-May-10	6:00 AM	5.6	10.68	1226	0.209	-	**0.209**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Night Staff.
18-May-10	8:04 AM	6.3	10.58	1318	0.246	-	**0.246**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
19-May-10	6:00 AM	6.1	10.82	1288	0.203	-	**0.203**	<0.01	-	**<0.01**	P	ICP	Sampled by Water Treatment Night Staff.
19-May-10	8:08 AM	5.1	10.75	1402	0.206	-	**0.206**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
20-May-10	8:03 AM	5.1	10.99	1585	0.286	-	**0.286**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
21-May-10	8:55 AM	5.6	10.97	1500	0.289	-	**0.289**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
22-May-10	7:41 AM	5.7	10.97	1539	0.168	-	**0.168**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
23-May-10	7:53 AM	6.8	10.82	1483	0.529	-	**0.529**	<0.01	-	**<0.01**	P	ICP	Sampled by Env. Crew.
24-May-10	7:10 AM	6.1	10.50	1486	0.396	-	**0.396**	<0.01	-	**<0.01**	P	ICP	
25-May-10	8:04 AM	6.5	10.53	1500	0.362	-	**0.362**	<0.01	-	**<0.01**	P	ICP	
26-May-10	8:00 AM	7.0	10.48	1272	0.349	-	**0.349**	<0.01	-	**<0.01**	P	ICP	
27-May-10	8:45 AM	8.2	10.34	1506	0.261	-	**0.261**	<0.01	-	**<0.01**	P	ICP	
28-May-10	7:28 AM	7.9	10.53	1482	0.223	-	**0.223**	0.012	-	**0.012**	P	ICP	old clarifier.
28-May-10	7:34 AM	7.7	10.85	1465	0.335	-	**0.335**	0.011	-	**0.011**	P	ICP	new sampling port clarifier.
29-May-10	7:30 AM	8.8	10.23	1486	0.416	-	**0.416**	<0.01	-	**<0.01**	P	ICP	old clarifier.
29-May-10	7:30 AM	8.8	10.23	1486	0.388	-	**0.388**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
30-May-10	7:40 AM	9.9	10.06	1485	0.274	-	**0.274**	<0.01	-	**<0.01**	P	ICP	old clarifier.
30-May-10	7:40 AM	9.9	10.06	1485	0.412	-	**0.412**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
31-May-10	7:53 AM	10.8	10.10	1483	0.235	-	**0.235**	<0.01	-	**<0.01**	P	ICP	old clarifier.
31-May-10	7:55 AM	9.4	10.15	1455	0.238	-	**0.238**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.

Table C-12:
2010 FMC Lab Analysis - Zinc
(Total and Dissolved) in the Clarifier

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	**Config.**	Method of Analysis	Comments
1-Jun-10	8:04 AM	10.8	10.48	1614	0.216	-	**0.216**	<0.01	-	**<0.01**	P	ICP	old clarifier.
1-Jun-10	8:08 AM	10.0	10.49	1585	0.277	-	**0.277**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
2-Jun-10	8:25 AM	9.3	10.43	1510	0.129	-	**0.129**	<0.01	-	**<0.01**	P	ICP	old clarifier.
2-Jun-10	8:11 AM	11.0	10.00	1543	0.445	-	**0.445**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
3-Jun-10	8:13 AM	9.6	10.45	1449	0.140	-	**0.140**	<0.01	-	**<0.01**	P	ICP	old clarifier.
3-Jun-10	8:09 AM	10.6	10.27	1475	0.453	-	**0.453**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
4-Jun-10	7:34 AM	9.5	10.40	1456	0.347	-	**0.347**	<0.01	-	**<0.01**	P	ICP	old clarifier.
4-Jun-10	7:35 AM	8.9	10.46	1455	0.387	-	**0.387**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
5-Jun-10	6:29 AM	8.7	10.42	1438	0.196	-	**0.196**	<0.01	-	**<0.01**	P	ICP	old clarifier.
5-Jun-10	6:36 AM	8.2	10.44	1420	0.593	-	**0.593**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
6-Jun-10	6:25 AM	8.5	10.47	1514	0.198	-	**0.198**	<0.01	-	**<0.01**	P	ICP	old clarifier.
6-Jun-10	6:36 AM	8.1	10.51	1518	1.053	-	**1.053**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
7-Jun-10	7:55 AM	8.9	10.51	1460	0.468	-	**0.468**	<0.01	-	**<0.01**	P	ICP	old clarifier.
7-Jun-10	7:56 AM	10.1	10.52	1322	0.740	-	**0.740**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
8-Jun-10	8:13 AM	8.3	10.66	1413	0.232	-	**0.232**	<0.01	-	**<0.01**	P	ICP	old clarifier.
8-Jun-10	8:07 AM	9.8	10.48	1443	0.446	-	**0.446**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
9-Jun-10	8:15 AM	8.9	10.68	1130	0.316	-	**0.316**	<0.01	-	**<0.01**	P	ICP	old clarifier.
9-Jun-10	8:09 AM	10.2	10.58	1145	0.349	-	**0.349**	<0.01	-	**<0.01**	P	ICP	new sampling port clarifier.
10-Jun-10	8:03 AM	8.7	10.58	1343	0.272	-	**0.272**	0.015	-	**0.015**	P	ICP	old clarifier.
10-Jun-10	7:58 AM	9.7	10.50	1361	0.428	-	**0.428**	0.014	-	**0.014**	P	ICP	new sampling port clarifier.
11-Jun-10	7:45 AM	8.5	10.70	1386	0.346	-	**0.346**	<0.01	-	**<0.01**	P	ICP	old clarifier - New sampling port discontinued.
12-Jun-10	7:35 AM	9.2	10.61	1488	0.222	-	**0.222**	<0.01	-	**<0.01**	P	ICP	old clarifier - New sampling port discontinued.
13-Jun-10	7:56 AM	8.9	10.68	1479	0.290	-	**0.290**	<0.01	-	**<0.01**	P	AA	
14-Jun-10	8:02 AM	8.9	10.46	1538	0.423	-	**0.423**	<0.01	-	**<0.01**	P	AA	
15-Jun-10	9:19 AM	9.6	10.56	1350	0.272	-	**0.272**	<0.01	-	**<0.01**	P	ICP	
16-Jun-10	8:06 AM	10.0	10.43	1335	0.273	-	**0.273**	0.015	-	**0.015**	P	ICP	includes ETA water starting 4:40 PM.
17-Jun-10	8:00 AM	10.0	10.19	1439	0.161	-	**0.161**	<0.01	-	**<0.01**	P	AA	
18-Jun-10	7:13 AM	10.6	10.06	1539	0.065	-	**0.065**	0.011	-	**0.011**	P	AA	
19-Jun-10	8:50 AM	10.4	10.40	1450	0.633	-	**0.633**	<0.01	-	**<0.01**	P	AA	
20-Jun-10	7:15 AM	11.2	10.27	1480	0.170	-	**0.170**	0.016	-	**0.016**	P	AA	Old sampling point.
21-Jun-10	7:46 AM	11.8	10.22	1430	0.273	-	**0.273**	0.012	-	**0.012**	P	AA	
22-Jun-10	9:20 AM	11.2	10.14	1440	0.196	-	**0.196**	0.013	-	**0.013**	P	AA	
23-Jun-10	7:58 AM	11.3	10.39	1482	0.148	-	**0.148**	0.010	-	**0.010**	P	AA	
24-Jun-10	8:52 AM	11.0	10.32	1485	0.161	-	**0.161**	<0.01	-	**<0.01**	P	ICP	
25-Jun-10	8:05 AM	12.1	10.13	1522	0.079	-	**0.079**	0.100	-	**0.100**	P	ICP	

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Table C-12:
2010 FMC Lab Analysis - Zinc
(Total and Dissolved) in the Clarifier

Faro Mine Closure

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	**Config.**	Method of Analysis	Comments
26-Jun-10	8:20 AM	12.2	9.90	1130	0.062	-	**0.062**	<0.01	-	**<0.01**	P	ICP	
27-Jun-10	8:13 AM	11.8	10.31	1653	0.103	-	**0.103**	<0.01	-	**<0.01**	P	ICP	
28-Jun-10	8:10 AM	11.4	10.24	1489	0.143	-	**0.143**	<0.01	-	**<0.01**	P	ICP	
29-Jun-10	8:22 AM	12.3	8.89	1550	0.162	-	**0.162**	<0.01	-	**<0.01**	P	ICP	
30-Jun-10	8:55 AM	11.3	9.90	1484	0.318	-	**0.318**	0.015	-	**0.015**	P	ICP	
1-Jul-10	8:43 AM	11.5	10.10	1633	0.382	-	**0.382**	0.025	-	**0.025**	P	ICP	
1-Jul-10	5:19 PM	12.0	10.07	1448	0.319	-	**0.319**	0.017	-	**0.017**	P	ICP	
2-Jul-10	7:40 AM	11.8	9.91	1490	0.270	-	**0.270**	0.010	-	**0.010**	P	ICP	
3-Jul-10	7:55 AM	12.0	9.99	1630	0.406	-	**0.406**	0.013	-	**0.013**	P	ICP	
4-Jul-10	9:05 AM	11.6	9.94	1640	0.413	-	**0.413**	0.020	-	**0.020**	P	ICP	
5-Jul-10	8:25 AM	11.3	9.75	1650	0.504	-	**0.504**	0.015	-	**0.015**	P	ICP	
6-Jul-10	8:40 AM	11.2	9.84	1483	0.655	-	**0.655**	0.030	-	**0.030**	P	ICP	
7-Jul-10	8:43 AM	11.5	9.33	1423	0.392	-	**0.392**	0.038	-	**0.038**	P	ICP	
8-Jul-10	8:43 AM	12.7	9.76	1447	0.272	-	**0.272**	<0.01	-	**<0.01**	P	ICP	
9-Jul-10	7:37 AM	13.8	9.89	1438	0.075	0.065	**0.070**	<0.01	-	**<0.01**	P	ICP	
10-Jul-10	7:38 AM	13.1	10.26	1660	0.107	-	**0.107**	<0.01	-	**<0.01**	P	ICP	
11-Jul-10	8:03 AM	11.8	10.38	1371	0.182	-	**0.182**	<0.01	-	**<0.01**	P	ICP	
12-Jul-10	8:18 AM	12.0	10.33	1571	0.049	-	**0.049**	<0.01	-	**<0.01**	P	ICP	
13-Jul-10	8:13 AM	13.7	10.05	1330	0.152	-	**0.152**	<0.01	-	**<0.01**	P	ICP	
14-Jul-10	8:20 AM	13.1	9.95	1395	0.055	-	**0.055**	<0.01	-	**<0.01**	P	ICP	
15-Jul-10	8:09 AM	13.0	9.94	1343	0.114	-	**0.114**	<0.01	-	**<0.01**	P	ICP	
16-Jul-10	7:16 AM	13.5	10.24	1580	0.174	-	**0.174**	<0.01	-	**<0.01**	P	ICP	
17-Jul-10	7:07 AM	13.1	10.17	1386	0.085	-	**0.085**	<0.01	-	**<0.01**	P	ICP	
18-Jul-10	7:04 AM	12.9	10.31	1590	0.235	-	**0.235**	<0.01	-	**<0.01**	P	ICP	
19-Jul-10	8:07 AM	13.8	9.89	1591	0.244	-	**0.244**	<0.01	-	**<0.01**	P	ICP	
20-Jul-10	10:15 AM	14.3	10.14	1424	0.061	-	**0.061**	<0.01	-	**<0.01**	P	ICP	
21-Jul-10	8:04 AM	13.7	10.30	1630	0.213	-	**0.213**	<0.01	-	**<0.01**	P	ICP	
22-Jul-10	8:41 AM	13.6	10.21	1298	0.037	0.035	**0.036**	<0.01	-	**<0.01**	P	ICP	
22-Jul-10	-	-	9.98	1371	0.176	0.175	**0.176**	-	-	**-**	P	ICP	
23-Jul-10	7:50 AM	13.6	10.00	1455	0.064	-	**0.064**	0.010	-	**0.010**	P	ICP	
24-Jul-10	7:46 AM	13.1	10.28	1577	0.307	0.286	**0.297**	<0.01	-	**<0.01**	P	ICP	Sample reanalyzed due to high Zn conc.
24-Jul-10	11:16 AM	13.4	10.22	1588	0.156	0.160	**0.158**				P	ICP	New sample collected to verify previous result.
25-Jul-10	7:47 AM	13.4	10.31	1577	0.763	0.794	**0.779**				P	ICP	dup run to check value.
25-Jul-10	12:15 PM	13.6	10.30	1570	0.310	-	**0.310**				P	ICP	no diss... Samples acidified.
26-Jul-10	7:45 AM	13.7	10.34	1401	0.409	0.403	**0.406**	0.014	-	**0.014**	P	ICP	Flow reduced to clarifier at 12:00 PM.

Table C-12:
2010 FMC Lab Analysis - Zinc
(Total and Dissolved) in the Clarifier

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	**Config.**	Method of Analysis	Comments
27-Jul-10	8:10 AM	14.1	10.16	1382	0.098	-	**0.098**	<0.01	-	**<0.01**	P	ICP	
28-Jul-10	8:07 AM	13.9	10.11	1296	0.335	-	**0.335**	0.010	-	**0.010**	P	ICP	
29-Jul-10	7:58 AM	14.9	10.38	1402	0.183	-	**0.183**	0.015	-	**0.015**	P	AA	
30-Jul-10	7:43 AM	15.6	10.00	1650	0.039	-	**0.039**	<0.01	<0.01	**<0.01**	P	AA	
31-Jul-10	7:43 AM	15.2	10.23	1387	0.145	-	**0.145**	0.017	-	**0.017**	P	AA	
1-Aug-10	7:44 AM	14.7	10.29	1268	0.140	-	**0.140**	0.030	-	**0.030**	P	AA	
2-Aug-10	8:10 AM	14.9	10.20	1570	0.138	-	**0.138**	0.031	-	**0.031**	P	AA	
3-Aug-10	7:58 AM	14.9	10.21	1558	0.229	-	**0.229**	0.031	-	**0.031**	P	AA	
4-Aug-10	8:03 AM	15.1	10.40	1280	0.089	-	**0.089**	0.018	-	**0.018**	P	AA	
5-Aug-10	8:02 AM	15.2	10.10	1432	0.164	-	**0.164**	0.015	-	**0.015**	P	AA	Faro pump shutdown 8:11-10:02AM.
6-Aug-10	7:42 AM	15.4	9.59	1316	0.132	-	**0.132**	<0.01	-	**<0.01**	P	AA	
7-Aug-10	7:50 AM	15.0	10.25	1434	0.107	-	**0.107**	<0.01	-	**<0.01**	P	AA	
8-Aug-10	8:32 AM	15.0	10.15	1610	0.074	-	**0.074**	<0.01	-	**<0.01**	P	AA	
9-Aug-10	8:07 AM	14.6	10.28	1582	0.175	-	**0.175**	0.029	-	**0.029**	P	ICP	
9-Aug-10					0.178	-	**0.178**	0.022	-	**0.022**	P	AA	Duplicate analysis by AA.
10-Aug-10	8:07 AM	14.7	10.28	1561	0.109	-	**0.109**	0.024	-	**0.024**	P	ICP	
11-Aug-10	7:50 AM	14.7	10.22	1370	0.115	-	**0.115**	<0.01	-	**<0.01**	P	ICP	
12-Aug-10	7:59 AM	14.7	10.15	1440	0.115	-	**0.115**	0.016	-	**0.016**	P	ICP	
13-Aug-10	7:40 AM	14.6	10.33	1077	0.027	-	**0.027**	0.013	-	**0.013**	P	ICP	
14-Aug-10	8:05 AM	15.1	10.30	1410	0.047	-	**0.047**	0.012	-	**0.012**	P	ICP	
15-Aug-10	8:00 AM	14.7	10.14	1316	0.038	-	**0.038**	<0.01	-	**<0.01**	P	ICP	
16-Aug-10	7:46 AM	15.2	10.12	1540	0.072	0.069	**0.071**	<0.01	-	**<0.01**	P	ICP	
17-Aug-10	8:13 AM	15.4	10.09	1387	0.088	-	**0.088**	0.021	-	**0.021**	P	ICP	
18-Aug-10	8:12 AM	14.6	10.16	1486	0.080	-	**0.080**	0.027	-	**0.027**	P	ICP	
19-Aug-10	9:32 AM	14.2	10.33	1631	0.044	-	**0.044**	<0.01	-	**<0.01**	P	ICP	
20-Aug-10	7:42 AM	13.8	9.83	1620	0.047	-	**0.047**	<0.01	-	**<0.01**	P	ICP	
21-Aug-10	6:10 AM	13.6	10.41	1630	0.073	-	**0.073**	<0.01	-	**<0.01**	P	ICP	
22-Aug-10	7:15 AM	12.9	10.09	1426	0.066	-	**0.066**	<0.01	-	**<0.01**	P	ICP	
23-Aug-10	8:00 AM	12.8	10.11	1476	0.073	-	**0.073**	0.017	-	**0.017**	P	ICP	
24-Aug-10	8:11 AM	12.5	10.18	1163	0.092	-	**0.092**	<0.01	-	**<0.01**	P	ICP	
25-Aug-10	7:50 AM	12.2	10.11	1376	0.088	-	**0.088**	<0.01	-	**<0.01**	P	ICP	
26-Aug-10	7:55 AM	12.0	10.10	1580	0.166	-	**0.166**	0.018	-	**0.018**	P	AA	
27-Aug-10	7:40 AM	11.5	10.28	1418	0.164	-	**0.164**	0.022	-	**0.022**	P	AA	
28-Aug-10	8:55 AM	11.3	9.72	2093	0.073	-	**0.073**	<0.01	-	**<0.01**	P	AA	
29-Aug-10	8:30 AM	11.0	10.15	1988	0.074	-	**0.074**	<0.01	-	**<0.01**	P	AA	
30-Aug-10	7:58 AM	10.7	7.65	2060	4.011	-	**4.011**	2.290	-	**2.290**	P	AA	Discharge from mill shut down before results available.

Table C-12:
2010 FMC Lab Analysis - Zinc
(Total and Dissolved) in the Clarifier

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Zn-T		**Zn-T Average**	Zn-D		**Zn-D Average**	**Config.**	Method of Analysis	Comments
30-Aug-10	7:58 AM	10.7	7.40	2141	4.180	-	**4.180**	2.210	-	**2.210**		AA	Reanalysis of morning sample to verify previous result. pH and conductivity measured on lab meter.
30-Aug-10	2:45 PM	11.1	9.24	2430	0.770	-	**0.770**	0.050	-	**0.050**		AA	Sample collected from clarifier tank (no discharge from tank now).
30-Aug-10	2:45 PM	11.1	9.14	2165									pH and conductivity measured on lab meter.

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
13-May-10	6:00 PM	6.7	10.00	1244	0.144	-	**0.144**	0.012	-	**0.012**							ICP	Mill Spill taken at sample port 6 PM
14-May-10	12:00 AM	5.3	10.21	1245	0.120	-	**0.120**	<0.01	-	**<0.01**							ICP	Mill Spill taken at sample port 12 AM
14-May-10	6:00 AM	8.2	10.25	1341	0.174	-	**0.174**	<0.01	-	**<0.01**							ICP	Mill Spill taken at sample port 6 AM
14-May-10	8:30 AM	16.6	9.60	1160							0.123	0.333	**0.228**	<0.01	<0.01	**<0.01**	ICP	Combined Mill Spill, 8:30 AM; Rerun - 0.347 - ZnT dup
14-May-10	12:00 PM	6.7	10.26	1333	0.387	0.380	**0.384**	<0.01	-	**<0.01**							ICP	Rerun the undissolved sample
14-May-10	6:00 PM	6.6	10.05	1334	0.300	0.286	**0.293**	<0.01	-	**<0.01**							ICP	Rerun the undissolved sample
15-May-10	12:00 AM	7.1	10.60	1256	0.056	0.053	**0.055**	<0.01	-	**<0.01**							ICP	Rerun the undissolved sample
15-May-10	6:00 AM	5.3	10.63	1254	0.317	0.305	**0.311**	<0.01	-	**<0.01**							ICP	Rerun the undissolved sample
15-May-10	8:00 AM	19.4	9.48	1135							0.050	0.066	**0.058**	<0.01	<0.01	**<0.01**	ICP	Combined Mill Effluent
15-May-10	11:50 AM	8.5	10.52	1252	0.183	-	**0.183**	<0.01	-	**<0.01**							ICP	Mill Effluent taken at Sample Port
15-May-10	6:00 PM	6.6	10.61	1272	0.114	-	**0.114**	<0.01	-	**<0.01**							ICP	Mill Effluent taken at Sample Port
16-May-10	12:00 AM	6.1	10.61	1278	0.066	-	**0.066**	<0.01	-	**<0.01**							ICP	Mill Effluent taken at Sample Port
16-May-10	6:00 AM	6.3	10.60	1259	0.097	-	**0.097**	<0.01	-	**<0.01**							ICP	Mill Effluent taken at Sample Port
16-May-10	9:21 AM	6.3	10.60	1259							0.143	-	**0.143**	<0.01	-	**<0.01**	ICP	Combined Mill Effluent
16-May-10	12:00 PM	7.5	10.58	1251	0.201	-	**0.201**	<0.01	-	**<0.01**							ICP	Mill Effluent taken at Sample Port
16-May-10	6:00 PM	7.9	10.56	1281	0.210	-	**0.210**	<0.01	-	**<0.01**							ICP	Mill Effluent taken at Sample Port
17-May-10	12:00 AM	-6.8	10.61	1262	0.208	-	**0.208**	<0.01	-	**<0.01**							ICP	Mill Effluent taken at Sample Port
17-May-10	6:00 AM	5.3	10.62	1224	0.205	-	**0.205**	<0.01	-	**<0.01**							ICP	Mill Effluent taken at Sample Port
17-May-10	8:00 AM	19.1	9.81	1274							0.182	0.221	**0.202**	<0.01	<0.01	**<0.01**	ICP	Combined Mill Effluent; pH, EC and Temp were measured at 10:07 AM
17-May-10	12:00 PM	8.5	10.55	1254	0.364	-	**0.364**	<0.01	-	**<0.01**							ICP	
17-May-10	6:00 PM	7.2	10.61	1256	0.307	-	**0.307**	<0.01	-	**<0.01**							ICP	

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
18-May-10	12:00 AM	6.0	10.69	1219	0.908	-	**0.908**	<0.01	-	**<0.01**							ICP	thickener tank being flushed
18-May-10	6:00 AM	5.7	10.72	1231	0.346	-	**0.346**	<0.01	-	**<0.01**							ICP	
18-May-10	7:51 AM	20.4	9.89	1242							0.366	0.361	**0.364**	<0.01	<0.01	**<0.01**	ICP	
18-May-10	12:00 PM	8.0	10.60	1236	0.387	-	**0.387**	<0.01	-	**<0.01**							ICP	thickener tank being flushed 10:30am to 12:30 pm
18-May-10	6:00 PM	8.6	10.60	1261	0.315	-	**0.315**	<0.01	-	**<0.01**							ICP	
19-May-10	12:00 AM	7.1	10.62	1344	0.209	-	**0.209**	<0.01	-	**<0.01**							ICP	
19-May-10	6:00 AM	6.9	10.71	1327	0.202	-	**0.202**	<0.01	-	**<0.01**							ICP	
19-May-10	8:00 AM	21.6	9.58	1257							0.278	0.262	**0.270**	<0.01	<0.01	**<0.01**	ICP	pH, EC and temp measured at 1:16 PM
19-May-10	12:00 PM	7.7	10.58	1362	0.216	-	**0.216**	<0.01	-	**<0.01**							ICP	
19-May-10	6:00 PM	7.5	10.35	1388	0.305	-	**0.305**	<0.01	-	**<0.01**							ICP	
20-May-10	12:00 AM	6.7	10.67	1371	0.292	-	**0.292**	<0.01	-	**<0.01**							ICP	
20-May-10	6:15 AM	6.9	10.70	1405	0.293	-	**0.293**	<0.01	-	**<0.01**							ICP	
20-May-10	8:20 AM	17.4	10.09	1373							0.244	0.241	**0.243**	<0.01	-	**<0.01**	ICP	
20-May-10	12:00 PM	7.6	10.62	1455	0.210	-	**0.210**	<0.01	-	**<0.01**							ICP	
20-May-10	6:00 PM	8.0	10.48	1417	0.179	-	**0.179**	<0.01	-	**<0.01**							ICP	
21-May-10	12:00 AM	7.1	10.58	1375	0.177	-	**0.177**	<0.01	-	**<0.01**							ICP	
21-May-10	6:00 AM	7.4	10.62	1367	0.207	-	**0.207**	<0.01	-	**<0.01**							ICP	
21-May-10	9:15 AM	19.3	9.98	1388							0.178	0.178	**0.178**	<0.01	-	**<0.01**	ICP	
21-May-10	12:00 PM	9.1	10.56	1458	0.191	-	**0.191**	<0.01	-	**<0.01**							ICP	
21-May-10	6:00 PM	9.1	10.63	1439	0.258	-	**0.258**	<0.01	-	**<0.01**							ICP	
22-May-10	12:00 AM	8.2	10.70	1458	0.167	-	**0.167**	<0.01	-	**<0.01**							ICP	
22-May-10	6:00 AM	8.4	10.70	1458	0.200	-	**0.200**	<0.01	-	**<0.01**							ICP	
22-May-10	8:30 AM	20.3	9.87	1383							0.138	0.142	**0.140**	<0.01	-	**<0.01**	ICP	pH, EC and temp measured at 12pm
22-May-10	12:00 PM	10.1	10.61	1456	0.111	-	**0.111**	<0.01	-	**<0.01**							ICP	
22-May-10	6:00 PM	10.1	10.63	1388	0.178	-	**0.178**	<0.01	-	**<0.01**							ICP	
23-May-10	12:00 AM	7.7	10.67	1357	0.193	-	**0.193**	<0.01	-	**<0.01**							ICP	
23-May-10	6:00 AM	7.7	10.67	1375	0.304	-	**0.304**	<0.01	-	**<0.01**							ICP	
23-May-10	8:45 AM	20.4	9.98	1398							0.162	0.152	**0.157**	<0.01	-	**<0.01**	ICP	pH, EC and temp. measured at 12pm
23-May-10	12:00 PM	9.1	10.54	1327	0.142	-	**0.142**	<0.01	-	**<0.01**							ICP	
23-May-10	6:00 PM	8.2	10.62	1332	0.394	-	**0.394**	<0.01	-	**<0.01**							ICP	
24-May-10	12:00 AM	7.4	10.47	1340	0.308	-	**0.308**	<0.01	-	**<0.01**							ICP	

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
24-May-10	6:00 AM	6.9	10.51	1351	0.347	-	**0.347**	<0.01	-	**<0.01**							ICP	
24-May-10	8:10 AM	15.4	10.23	1367							0.202	0.210	**0.206**	<0.01	-	**<0.01**	ICP	pH, EC and temp. measured at 8:15am
24-May-10	12:00 PM	9.1	10.57	1320	0.233	-	**0.233**	<0.01	-	**<0.01**							ICP	
24-May-10	6:00 PM	9.0	10.59	1326	0.189	-	**0.189**	<0.01	-	**<0.01**							ICP	
25-May-10	12:00 AM	8.3	10.56	1343	0.288	-	**0.288**	<0.01	-	**<0.01**							ICP	
25-May-10	6:00 AM	7.6	10.41	1351	0.326	-	**0.326**	<0.01	-	**<0.01**							ICP	
25-May-10	8:35 AM	20.2	9.94	1363							0.255	0.239	**0.247**	<0.01	-	**<0.01**	ICP	pH, EC and temp. measured at 10:40am
25-May-10	12:00 PM	9.6	10.50	1321	0.289	-	**0.289**	<0.01	-	**<0.01**							ICP	
25-May-10	6:00 PM	9.9	10.52	1289	0.342	-	**0.342**	<0.01	-	**<0.01**							ICP	
26-May-10	12:00 AM	8.8	10.56	1351	0.269	-	**0.269**	<0.01	-	**<0.01**							ICP	
26-May-10	6:00 AM	7.8	10.56	1359	0.274	-	**0.274**	<0.01	-	**<0.01**							ICP	
26-May-10	8:10 AM	16.1	10.13	1367							0.198	0.189	**0.194**	<0.01	-	**<0.01**	ICP	pH, EC and temp. measured at 8:10am
26-May-10	12:00 PM	10.1	10.41	1349	0.259	-	**0.259**	<0.01	-	**<0.01**							ICP	
26-May-10	6:00 PM	9.2	10.54	1314	0.317	-	**0.317**	<0.01	-	**<0.01**							ICP	
27-May-10	12:00 AM	9.3	10.44	1358	0.299	-	**0.299**	<0.01	-	**<0.01**							ICP	
27-May-10	6:00 AM	8.6	10.43	1336	0.279	-	**0.279**	<0.01	-	**<0.01**							ICP	
27-May-10		-	-	-	-	-					0.293	-	**0.293**	<0.01	-	**<0.01**	ICP	Combined sample pH, EC, and temp. not measured
27-May-10	12:00 PM	10.0	10.36	1425	0.398	-	**0.398**	<0.01	-	**<0.01**							ICP	
27-May-10	6:00 PM	10.4	10.43	1427	0.227	-	**0.227**	<0.01	-	**<0.01**							ICP	
28-May-10	12:00 AM	10.0	10.36	1486	0.205	-	**0.205**	<0.01	-	**<0.01**							ICP	
28-May-10	6:00 AM	-	-	-	-	-	**-**										ICP	
28-May-10	7:53 AM	19.9	9.71	1337							0.238	0.246	**0.242**	<0.01	-	**<0.01**	ICP	pH, EC and temp measured at 9:25 AM
28-May-10	12:00 PM	10.6	10.40	1550														
28-May-10	6:00 PM	10.8	10.40	1554														
29-May-10	12:00 AM	9.5	10.30	1500														
29-May-10	6:00 AM	8.7	10.42	1492														
29-May-10	7:40 AM	20.5	9.91	1380							0.219	0.213	**0.216**	0.011	-	**0.011**	ICP	
29-May-10	12:00 PM	10.0	10.60	1440														
29-May-10	6:00 PM	10.0	10.60	1520														
30-May-10	12:00 AM	9.6	10.27	1499														
30-May-10	6:00 AM	9.3	10.26	1488														
30-May-10	7:39 AM	20.6	9.86	1346							0.222	0.219	**0.221**	<0.01	-	**<0.01**	ICP	
30-May-10	12:00 PM	10.6	10.40	1470														

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		Zn-T Avg	Zn-D		Zn-D Avg	Zn-T		Zn-T Avg	Zn-D		Zn-D Avg		
30-May-10	6:00 PM	10.6	10.40	1500														
31-May-10	12:00 AM	10.0	10.30	1503														
31-May-10	6:00 AM	9.8	10.23	1410														
31-May-10	7:50 AM	-	-	-							0.189	0.187	**0.188**	<0.01	-	**<0.01**	ICP	
31-May-10	12:00 PM	10.2	10.26	1468														
31-May-10	6:00 PM	11.3	10.36	1496														
1-Jun-10	12:00 AM	10.3	10.33	1448														
1-Jun-10	6:00 AM	10.5	10.27	1504														
1-Jun-10	7:50 AM	-	-	-							0.151	0.144	**0.148**	<0.01	-	**<0.01**	ICP	
1-Jun-10	12:00 PM	10.9	10.20	1467														
1-Jun-10	6:00 PM	11.7	10.32	1472														
2-Jun-10	12:00 AM	11.0	10.24	1505														
2-Jun-10	6:00 AM	10.0	10.33	1450														
2-Jun-10	8:15 AM	-	-	-							0.112	-	**0.112**	<0.01	-	**<0.01**	ICP	
2-Jun-10	12:00 PM	11.1	10.27	1454														Tanks being flushed.
2-Jun-10	6:00 PM	10.9	10.47	1452														
3-Jun-10	12:00 AM	10.5	10.20	1511														
3-Jun-10	6:00 AM	10.4	10.10	1483														
3-Jun-10	8:21 AM	-	-	-							0.169	-	**0.169**	<0.01	-	**<0.01**	ICP	
3-Jun-10	12:00 PM	10.9	10.22	1497														
3-Jun-10	6:00 PM	10.4	10.66	1492														
4-Jun-10	12:00 AM	10.0	10.20	1453														
4-Jun-10	6:00 AM	10.2	10.24	1445														
4-Jun-10	7:40 AM	-	-	-							0.184	0.196	**0.190**	<0.01	-	**<0.01**	ICP	
4-Jun-10	12:00 PM	9.7	10.80	1455	0.815	-	**0.815**											
4-Jun-10	6:00 PM	9.8	10.37	1501	0.320	-	**0.320**											
5-Jun-10	12:00 AM	9.8	10.40	1404	0.248	-	**0.248**											
5-Jun-10	6:00 AM	9.8	10.40	1498	0.349	-	**0.349**											
5-Jun-10	7:50 AM	-	-	-							0.411	-	**0.411**	<0.01	-	**<0.01**	ICP	
5-Jun-10	12:00 PM	9.3	10.47	1476														
5-Jun-10	6:00 PM	9.8	10.40	1484														
6-Jun-10	12:00 AM	9.5	10.44	1467														
6-Jun-10	6:00 AM	9.8	10.46	1470														
6-Jun-10	7:55 AM	-	-	-							0.305	0.314	**0.310**	<0.01	-	**<0.01**	ICP	
6-Jun-10	12:00 PM	9.6	10.35	1478	0.422		**0.422**											
6-Jun-10	6:00 PM	9.8	10.41	1509	0.300		**0.300**											
7-Jun-10	12:00 AM	9.8	10.45	1460	0.303		**0.303**											
7-Jun-10	6:00 AM	9.8	10.50	1450	0.308		**0.308**											

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
7-Jun-10	7:55 AM										0.337	0.340	**0.339**	<0.01	-	**<0.01**	ICP	
7-Jun-10	12:00 PM	10.2	10.18	1478														
7-Jun-10	6:00 PM	10.4	10.41	1512														
8-Jun-10	12:00 AM	9.8	10.50	1470														
8-Jun-10	6:00 AM	8.8	10.50	1450														
8-Jun-10	7:55 AM										0.212	0.216	**0.214**	0.010	-	**0.010**	ICP	
8-Jun-10	12:00 PM	10.5	10.45	1428														sludge being pumped out at time of the sample
8-Jun-10	6:00 PM	9.9	10.42	1430														
9-Jun-10	12:00 AM	9.6	10.35	1441														
9-Jun-10	6:00 AM	8.6	10.41	1415														
9-Jun-10	8:20 AM										0.268	0.271	**0.270**	<0.01	-	**<0.01**	ICP	
9-Jun-10	12:00 PM	10.8	10.36	1408														
9-Jun-10	6:00 PM	10.5	10.40	1416														
10-Jun-10	12:00 AM	9.2	10.26	1464														
10-Jun-10	6:00 AM	9.8	10.21	1448														
10-Jun-10	8:03 AM										0.245	0.243	**0.244**	0.010	-	**0.010**	ICP	
10-Jun-10	12:00 PM	10.8	10.32	1513														
10-Jun-10	6:00 PM	10.5	10.29	1495														
11-Jun-10	12:00 AM	10.1	10.46	1448														
11-Jun-10	6:00 AM	9.3	10.57	1442														
11-Jun-10	7:55 AM										0.213	0.272	**0.243**	<0.01	-	**<0.01**	ICP	
11-Jun-10	12:00 PM	10.6	10.40	1390														
11-Jun-10	6:00 PM	10.0	10.40	1410														
12-Jun-10	12:00 AM	10.1	10.26	1514														
12-Jun-10	6:00 AM	9.5	10.31	1451														
12-Jun-10	8:05 AM										0.187	0.189	**0.188**	<0.01	-	**<0.01**	ICP	
12-Jun-10	12:00 PM	10.6	10.40	1437														
12-Jun-10	6:00 PM	10.2	10.40	1440														
13-Jun-10	12:00 AM	9.5	10.13	1419														
13-Jun-10	6:00 AM	10.1	10.05	1489														
13-Jun-10	7:45 AM										0.388	0.386	**0.387**	<0.01	-	**<0.01**	AA	
13-Jun-10	12:00 PM	10.6	10.40	1450														
13-Jun-10	6:00 PM	10.6	10.30	1451														
14-Jun-10	12:00 AM	9.5	9.91	1469														
14-Jun-10	6:00 AM	8.4	10.05	1408														
14-Jun-10	7:54 AM										0.311	0.298	**0.305**	<0.01	-	**<0.01**	AA	
14-Jun-10	2:00 PM	10.1	10.60	1350														

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
14-Jun-10	6:00 PM	9.6	10.30	1430														
15-Jun-10	12:00 AM	10.1	10.12	1468														
15-Jun-10	6:00 AM	10.1	0.14	1458														
15-Jun-10	7:50 AM										0.329	0.309	**0.319**	0.014	-	**0.014**	ICP	
15-Jun-10	12:00 PM	11.6	10.40	1440														
15-Jun-10	6:00 PM	12.1	10.40	1480														
16-Jun-10	12:00 AM	11.2	10.10	1477														
16-Jun-10	6:00 AM	10.2	10.15	1440														
16-Jun-10	8:15 AM										0.243	0.243	**0.243**	<0.01	-	**<0.01**	ICP	
16-Jun-10	12:00 PM	12.2	10.36	1370														
16-Jun-10	6:00 PM	11.0	10.17	1477														
17-Jun-10	12:00 AM	10.2	10.33	1526														
17-Jun-10	6:00 AM	9.9	10.35	1527														
17-Jun-10	8:20 AM										0.219	0.211	**0.215**	<0.01	-	**<0.01**	AA	
17-Jun-10	12:00 PM	12.6	10.01	1442														
17-Jun-10	6:00 PM	11.7	10.38	1554														
18-Jun-10	12:00 AM	10.5	10.26	1549														
18-Jun-10	6:00 AM	10.1	10.32	1550														
18-Jun-10	7:55 AM										0.089	0.114	**0.102**	<0.01	-	**<0.01**	AA	
18-Jun-10	12:00 PM	10.9	9.85	1542														
18-Jun-10	6:00 PM	10.4	9.95	1534														
19-Jun-10	12:00 AM	10.0	10.26	1555														
19-Jun-10	6:00 AM	9.9	10.32	1497														
19-Jun-10	9:15 AM										0.368	0.374	**0.371**	<0.01	-	**<0.01**	AA	
19-Jun-10	12:00 PM	11.1	9.89	1501														
19-Jun-10	6:00 PM	11.5	10.00	1532														
20-Jun-10	12:00 AM	10.7	10.31	1525														
20-Jun-10	6:00 AM	10.3	10.40	1494														
20-Jun-10	8:00 AM										0.271	0.269	**0.270**	0.016	-	**0.016**	AA	
20-Jun-10	12:00 PM	11.9	9.88	1500														
20-Jun-10	6:00 PM	11.7	10.06	1522														
21-Jun-10	12:00 AM	11.9	10.10	1530														
21-Jun-10	6:00 AM	11.8	10.30	1515														
21-Jun-10	7:50 AM										0.158	0.165	**0.162**	0.015	-	**0.015**	AA	
21-Jun-10	12:00 PM	12.3	9.93	1576														
21-Jun-10	6:00 PM	12.3	9.98	1545														
22-Jun-10	12:00 AM	12.0	10.06	1540														
22-Jun-10	6:00 AM	11.7	10.16	1562														

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
22-Jun-10	9:00 AM										0.181	0.182	**0.182**	<0.01		**0.005**	AA	
22-Jun-10	12:00 PM	11.7	9.88	1511														
22-Jun-10	6:00 PM	11.9	10.11	1443														
23-Jun-10	12:00 AM	11.8	10.10	1520														
23-Jun-10	6:00 AM	11.9	10.40	1540														
23-Jun-10	10:30 AM										0.173	0.189	**0.181**	<0.01		**0.005**	AA	
23-Jun-10	12:00 PM	11.6	9.85	1525														
23-Jun-10	6:00 PM	11.7	9.92	1551														
24-Jun-10	12:00 AM	11.8	10.10	1540														
24-Jun-10	6:00 AM	11.8	10.10	1548														
24-Jun-10	11:45 AM										0.138	0.142	**0.140**	<0.01		**0.005**	ICP	
24-Jun-10	12:00 PM	12.7	10.32	1556														
24-Jun-10	6:00 PM	12.6	10.29	1512														
25-Jun-10	12:00 AM	12.0	10.80	1555														
25-Jun-10	6:00 AM	11.2	10.13	1522														
25-Jun-10	10:30 AM										0.110	0.160	**0.135**	<0.01	-	**<0.01**	ICP	
25-Jun-10	12:00 PM	12.8	10.10	1483														
25-Jun-10	6:00 PM	13.5	10.13	1469														
25-Jun-10	12:00 AM	12.2	9.98	1490														
26-Jun-10	6:00 AM	11.3	9.97	1503														
26-Jun-10	10:00 AM										0.077	-	**0.077**	<0.01	-	**<0.01**	ICP	
26-Jun-10	12:00 PM	13.5	9.97	1515														
26-Jun-10	6:00 PM	13.5	10.14	1474														
27-Jun-10	12:00 AM	13.3	10.13	1485														
27-Jun-10	6:00 AM	12.2	10.15	1478														
27-Jun-10	8:50 AM										0.130	-	**0.130**	<0.01	-	**<0.01**	ICP	
27-Jun-10	12:00 PM	12.4	10.10	1490														
27-Jun-10	6:00 PM																	No field parameters recorded
28-Jun-10	12:00 AM	12.1	10.16	1416														
28-Jun-10	6:00 AM	11.2	10.13	1522														
28-Jun-10	9:30 AM										0.157	-	**0.157**	0.012	-	**0.012**	ICP	
28-Jun-10	12:00 PM	11.6	9.84	1350														
28-Jun-10	6:00 PM	12.0	10.00	1350														
29-Jun-10	12:00 AM	12.4	9.63	1433														
29-Jun-10	6:00 AM	11.4	9.37	1371														
29-Jun-10	8:05 AM										0.262	-	**0.262**	0.011	-	**0.011**	ICP	
29-Jun-10	12:00 PM	13.6	10.00	1390														

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
29-Jun-10	6:00 PM	13.6	11.48	1440														
30-Jun-10	12:00 AM	12.3	9.32	1453														
30-Jun-10	6:00 AM	11.9	11.33	1557														
30-Jun-10	8:05 AM										0.191	0.194	**0.193**	<0.01	-	**<0.01**	ICP	
30-Jun-10	12:00 PM		9.78	1403														
30-Jun-10	6:00 PM	13.6	10.00	1408														
1-Jul-10	12:00 AM	12.0	9.60	1397														
1-Jul-10	6:00 AM	11.8	11.95	2066														
1-Jul-10	10:15 AM										0.210	-	**0.210**	<0.01	-	**<0.01**	ICP	
1-Jul-10	12:00 PM	12.6	10.00	1440														
1-Jul-10	6:00 PM	12.6	10.10	1430														
2-Jul-10	12:00 AM	12.5	9.42	1408														
2-Jul-10	6:00 AM	11.9	9.62	1413														
2-Jul-10	11:00 AM										0.262	-	**0.262**	<0.01	-	**<0.01**	ICP	
2-Jul-10	12:00 PM																	Tanks being flushed, no sample.
2-Jul-10	6:00 PM	13.5	10.98	1482														
3-Jul-10	12:00 AM	12.9	9.90	1398														
3-Jul-10	6:00 AM	12.0	9.96	1389														
3-Jul-10	9:00 AM										0.306	0.309	**0.308**				ICP	No dissolved sample analyzed.
3-Jul-10	12:00 PM	13.0	9.90	1393														
3-Jul-10	6:00 PM	13.2	10.22	1390														
4-Jul-10	12:00 AM	13.5	9.91	1369														
4-Jul-10	6:00 AM	12.3	9.95	1404														
4-Jul-10	9:45 AM										0.183	-	**0.183**				ICP	
4-Jul-10	12:00 PM	12.9	11.21	1548														
4-Jul-10	6:00 PM	13.3	9.92	1400														
5-Jul-10	12:00 AM	12.0	9.90	1387														
5-Jul-10	6:00 AM	11.6	12.22	2412														Lime line plugged up so was flushed previous to this sample.
5-Jul-10	9:50 AM										0.244	-	**0.244**	<0.01	-	**<0.01**	ICP	
5-Jul-10	12:00 PM	13.6	9.63	1410														
5-Jul-10	6:00 PM	12.9	9.73	1384														
6-Jul-10	12:00 AM	12.4	9.75	1410														
6-Jul-10	6:00 AM	11.6	9.95	1414														
6-Jul-10	8:30 AM										0.341	0.336	**0.339**				ICP	

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
6-Jul-10	12:00 PM	12.9	10.95	1554														
6-Jul-10	6:00 PM	15.5	9.37	1644														
7-Jul-10	12:00 AM	13.0	10.80	1554														
7-Jul-10	6:00 AM	14.0	11.00	1560														
7-Jul-10	8:45 AM										0.460	-	**0.460**				ICP	
7-Jul-10	12:00 PM	13.3	10.85	1588														
7-Jul-10	6:00 PM	14.5	11.60	2635														
8-Jul-10	12:00 AM	14.6	11.60	1245														
8-Jul-10	6:00 AM	14.0	11.20	2206														
8-Jul-10	9:00 AM										0.285	-	**0.285**	<0.01	-	**<0.01**	ICP	
8-Jul-10	12:00 PM	14.1	9.57	-														
8-Jul-10	6:00 PM	15.3	9.42	-														
9-Jul-10	12:00 AM	14.1	10.10	-														
9-Jul-10	6:00 AM	13.4	10.10	-														
9-Jul-10	8:08 AM										0.116	-	**0.116**	<0.01	-	**<0.01**	ICP	
9-Jul-10	12:00 PM	14.7	9.76	1447														
9-Jul-10	6:00 PM	16.6	9.60	1498														
10-Jul-10	12:00 AM	14.0	9.80	1440														
10-Jul-10	6:00 AM	13.6	9.80	1404														
10-Jul-10	7:46 AM										0.125	-	**0.125**	<0.01	-	**<0.01**	ICP	
10-Jul-10	12:00 PM	13.2	10.09	1408														
10-Jul-10	6:00 PM	13.5	10.13	1417														
11-Jul-10	12:00 AM	12.8	10.11	1415														
11-Jul-10	6:00 AM	11.7	10.17	1410														
11-Jul-10	8:13 AM										0.183	-	**0.183**				ICP	
11-Jul-10	12:00 PM	12.6	10.20	1580														
11-Jul-10	6:00 PM	13.5	10.23	1570														
12-Jul-10	12:00 AM	12.0	10.27	1570														
12-Jul-10	6:00 AM	11.8	10.20	1570														
12-Jul-10	8:26 AM										0.132	0.132	**0.132**				ICP	
12-Jul-10	12:00 PM	13.3	10.15	1580														
12-Jul-10	6:00 PM	14.4	10.22	1560														
13-Jul-10	12:00 AM	13.5	10.21	1570														
13-Jul-10	6:00 AM	12.9	10.18	1560														
13-Jul-10	11:30 AM										0.166	0.167	**0.167**				ICP	
13-Jul-10	12:00 PM	15.6	10.02	1367														
13-Jul-10	6:00 PM	14.8	10.00	1395														
14-Jul-10	12:00 AM	13.5	10.09	1411														

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
14-Jul-10	6:00 AM	12.6	10.18	1400														
14-Jul-10	8:25 AM										0.117	-	**0.117**				ICP	
14-Jul-10	12:00 PM	14.6	9.70	1347														
14-Jul-10	6:00 PM	15.0	9.90	1420														
15-Jul-10	12:00 AM	13.9	9.35	1443														
15-Jul-10	6:00 AM	13.4	9.16	1417														
15-Jul-10	8:30 AM										0.187	-	**0.187**				ICP	
15-Jul-10	12:00 PM	14.4	9.90	1440														
15-Jul-10	6:00 PM	14.4	9.40	1440														
16-Jul-10	12:00 AM	13.8	9.48	1435														
16-Jul-10	6:00 AM	13.7	9.53	1406														
16-Jul-10	8:45 AM										0.184	0.182	**0.183**				ICP	
16-Jul-10	12:00 PM	14.4	10.00	1450														
16-Jul-10	6:00 PM	14.4	10.00	1450														
17-Jul-10	12:00 AM	13.5	9.64	1424														
17-Jul-10	6:00 AM	13.5	9.34	1411														
17-Jul-10	7:40 AM										0.301	0.303	**0.302**				ICP	
17-Jul-10	12:00 PM	14.4	10.00	1480														
17-Jul-10	6:00 PM	14.4	9.80	1440														
18-Jul-10	12:00 AM	13.8	9.26	1458														
18-Jul-10	6:00 AM	13.1	9.55	1445														
18-Jul-10	8:15 AM										0.166	-	**0.166**				ICP	
18-Jul-10	12:00 PM	14.6	10.59	1351														Tanks were being flushed
18-Jul-10	6:00 PM	14.8	10.44	1386														Tanks were being flushed
19-Jul-10	12:00 AM	14.0	10.29	1424														Tanks were being flushed
19-Jul-10	6:00 AM	13.2	10.33	1385														Tanks were being flushed
19-Jul-10	9:05 AM										0.155	0.154	**0.155**				ICP	
19-Jul-10	12:00 PM	14.9	10.42	1337														Faro and ETA water only
19-Jul-10	6:00 PM	14.8	10.43	1315														Faro and ETA water only
20-Jul-10	12:00 AM	14.3	10.29	1398														
20-Jul-10	6:00 AM	13.7	10.37	1404														
20-Jul-10	10:00 AM										0.154	-	**0.154**				ICP	
20-Jul-10	12:00 PM	15.1	10.31	1408														Tanks were being Flushed

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
20-Jul-10	6:00 PM	15.3	10.36	1414														
21-Jul-10	12:00 AM	14.1	10.22	1468														
21-Jul-10	6:00 AM	13.9	10.41	1430														
21-Jul-10	9:15 AM										0.142	0.143	**0.143**				ICP	
21-Jul-10	12:00 PM	14.4	10.40	1442														
21-Jul-10	6:00 PM	-	-	-														no measurments were taken
22-Jul-10	12:00 AM	14.1	10.36	1410														
22-Jul-10	6:00 AM	13.9	10.35	1408														
22-Jul-10	10:11 AM										0.085	0.085	**0.085**				ICP	
22-Jul-10	12:00 PM	14.7	9.70	1435														
22-Jul-10	6:00 PM	15.6	9.81	1427														
23-Jul-10	12:00 AM	14.6	10.30	1407														
23-Jul-10	6:00 AM	13.7	10.15	1420														
23-Jul-10	8:00 AM										0.257	0.258	**0.258**				ICP	
23-Jul-10	12:00 PM	14.6	9.61	1438														
23-Jul-10	6:00 PM	15.0	9.58	1443														
24-Jul-10	12:00 AM	14.4	10.00	1440														
24-Jul-10	6:00 AM	13.7	9.90	1440														
24-Jul-10	8:15 AM										0.205	0.204	**0.205**				ICP	
24-Jul-10	12:00 PM	13.9	9.82	1419	3.490	-	**3.490**										ICP	
24-Jul-10	6:00 PM	15.0	9.62	1447	0.444	-	**0.444**										ICP	
25-Jul-10	12:00 AM	14.8	9.90	1440	0.213	-	**0.213**										ICP	
25-Jul-10	6:00 AM	14.0	9.90	1440	0.241	-	**0.241**										ICP	
25-Jul-10											1.094	-	**1.094**				ICP	individuals run to identify source
25-Jul-10	12:30 PM	14.5	10.20	1557	0.271	-	**0.271**										ICP	
25-Jul-10	12:00 PM	15.0	9.40	1473														
25-Jul-10	6:00 PM	15.4	9.65	1440														
26-Jul-10	12:00 AM	14.4	10.00	1380														
26-Jul-10	6:00 AM	14.4	10.00	1397														
26-Jul-10	8:30 AM										0.265	0.261	**0.263**				ICP	
26-Jul-10	12:00 PM	-	-	-														
26-Jul-10	6:00 PM	16.0	9.82	1569														
27-Jul-10	12:00 AM	14.6	10.06	1559														
27-Jul-10	6:00 AM	14.3	10.12	1561														
27-Jul-10											0.243	-	**0.243**				ICP	
27-Jul-10	12:00 PM	16.5	9.14	1498														no sample collected

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
27-Jul-10	6:00 PM	17.2	9.40	1417														
28-Jul-10	12:00 AM	15.2	9.78	1402														
28-Jul-10	6:00 AM	-	-	-														
28-Jul-10	8:15 AM										0.289	0.288	**0.289**				ICP	
28-Jul-10	12:00 PM	-	-	-														sample not collected
28-Jul-10	6:00 PM	16.6	9.35	1464														
29-Jul-10	12:00 AM	14.6	10.05	1400														
29-Jul-10	6:00 AM	14.0	10.12	1380														
29-Jul-10	8:30 AM										0.229	-	**0.229**				AA	
29-Jul-10	12:00 PM	16.1	9.51	1425														
29-Jul-10	6:00 PM	16.6	10.81	1392														
30-Jul-10	12:00 AM	15.4	10.28	1418														
30-Jul-10	6:00 AM	14.5	10.36	1462														ETA and IP water only
30-Jul-10	8:20 AM										0.289	0.292	**0.291**				AA	
30-Jul-10	12:00 PM	16.0	10.10	1440														
30-Jul-10	6:00 PM	16.5	9.95	1455														
31-Jul-10	12:00 AM	12.0	10.10	1484														
31-Jul-10	6:00 AM	15.4	9.72	1439														
31-Jul-10	7:50 AM										0.247	0.237	**0.242**				AA	
31-Jul-10	12:00 PM	18.0	9.97	1480														
31-Jul-10	6:00 PM	17.1	9.80	1426														
1-Aug-10	12:00 AM	15.9	9.53	1467														
1-Aug-10	6:00 AM	15.2	9.60	1422														
1-Aug-10	8:10 AM										0.148	-	**0.148**				AA	
1-Aug-10	12:00 PM	17.6	9.90	1480														
1-Aug-10	6:00 PM	17.8	9.89	1482														
2-Aug-10	12:00 AM	15.9	9.47	1449														
2-Aug-10	6:00 AM	15.1	9.63	1423														
2-Aug-10	8:00 AM										0.141	0.178	**0.160**				AA	
2-Aug-10	12:00 PM	17.1	9.90	1450														
2-Aug-10	6:00 PM	16.8	9.86	1466														
3-Aug-10	12:00 AM	16.0	9.50	1455														
3-Aug-10	6:00 AM	14.7	9.80	1422														
3-Aug-10	8:45 AM										0.291	-	**0.291**				AA	
3-Aug-10	12:00 PM	17.1	9.97	1451														
3-Aug-10	6:00 PM	18.2	10.00	1359														
4-Aug-10	12:00 AM	15.8	9.68	1444														
4-Aug-10	6:00 AM	16.5	9.87	1432														

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
4-Aug-10	8:05 AM										0.277	-	**0.277**				AA	
4-Aug-10	12:00 PM	17.8	9.94	1390														
4-Aug-10	6:00 PM	18.4	9.99	1390														
5-Aug-10	12:00 AM	16.5	9.97	1440														
5-Aug-10	6:00 AM	16.3	9.50	1420														
5-Aug-10	8:10 AM										0.217	-	**0.217**				AA	Faro pump shutdown 8:11-10:02AM.
5-Aug-10	12:00 PM	16.8	9.98	1690														
5-Aug-10	6:00 PM	17.7	9.74	1650														
6-Aug-10	12:00 AM	16.0	9.96	1600														
6-Aug-10	6:00 AM	1560.0	9.53	1630														
6-Aug-10	8:10 AM										0.149	-	**0.149**				AA	
6-Aug-10	12:00 PM	16.9	9.86	1471														
6-Aug-10	6:00 PM	17.1	9.93	1470														
7-Aug-10	12:00 AM	13.0	9.52	1472														
7-Aug-10	6:00 AM	13.2	9.34	1474														
7-Aug-10	8:00 AM										0.165	-	**0.180**				AA	
7-Aug-10	12:00 PM	17.1	9.37	1438														
7-Aug-10	6:00 PM	17.0	9.25	1478														
8-Aug-10	12:00 AM	15.6	9.80	1503														
8-Aug-10	6:00 AM	16.0	9.60	1508														
8-Aug-10	8:30 AM										0.362	-	**0.362**				AA	
8-Aug-10	12:00 PM	15.5	9.21	1434														
8-Aug-10	6:00 PM	15.7	9.34	1437														
9-Aug-10	12:00 AM	15.5	9.80	1480														
9-Aug-10	6:00 AM	15.5	9.80	1478														
9-Aug-10	9:00 AM										0.273	-	**0.273**				ICP	
9-Aug-10	9:00 AM										0.212	-	**0.212**				AA	Duplicate analysis by AA
9-Aug-10	12:00 PM	16.5	9.20	1438														
9-Aug-10	6:00 PM	17.4	9.14	1460														
10-Aug-10	12:00 AM	16.0	9.80	1470														
10-Aug-10	6:00 AM	15.1	9.80	1480														
10-Aug-10	8:45 AM										0.146	-	**0.146**				ICP	
10-Aug-10	12:00 PM	17.7	9.65	1492														
10-Aug-10	6:00 PM	17.1	9.26	1470														
11-Aug-10	12:00 AM	16.4	9.80	1480														
11-Aug-10	6:00 AM	15.0	9.80	1470														
11-Aug-10	7:45 AM										0.202	-	**0.202**				ICP	

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
11-Aug-10	12:00 PM	15.8	9.20	1455														
11-Aug-10	6:00 PM	16.6	9.31	1467														
12-Aug-10	12:00 AM	14.8	9.84	1452														
12-Aug-10	6:00 AM	14.1	10.28	1454														
12-Aug-10	9:00 AM										0.319	-	**0.319**				ICP	
12-Aug-10	12:00 PM	17.1	8.80	1482														
12-Aug-10	6:00 PM	17.6	9.50	1478														
13-Aug-10	12:00 AM	16.0	10.05	1468														
13-Aug-10	6:00 AM	14.7	10.02	1478														
13-Aug-10	9:10 AM										0.154	-	**0.154**				ICP	
13-Aug-10	12:00 PM	16.4	9.91	1109														
13-Aug-10	6:00 PM	17.7	9.86	1084														
14-Aug-10	12:00 AM	15.9	10.18	1085														
14-Aug-10	6:00 AM	15.1	10.15	1055														
14-Aug-10	9:30 AM										0.124	0.125	**0.125**				ICP	
14-Aug-10	12:00 PM	17.2	10.05	1219														
14-Aug-10	6:00 PM	17.2	10.09	1234														
15-Aug-10	12:00 AM	15.6	10.04	1181														
15-Aug-10	6:00 AM	14.8	10.23	1171														
15-Aug-10	8:15 AM										0.085	-	**0.085**				ICP	
15-Aug-10	12:00 PM	16.6	9.80	1170														
15-Aug-10	6:00 PM	17.6	9.59	1178														
16-Aug-10	12:00 AM	16.4	9.41	1181														
16-Aug-10	6:00 AM	15.3	9.33	1169														
16-Aug-10	7:50 AM										0.216	0.214	**0.215**				ICP	
16-Aug-10	12:00 PM	17.6	9.80	1420														
16-Aug-10	6:00 PM	18.6	9.80	1155														
17-Aug-10	12:00 AM	16.6	9.30	1170														
17-Aug-10	6:00 AM	15.4	9.23	1158														
17-Aug-10	9:00 AM										0.194	-	**0.194**				ICP	
17-Aug-10	12:00 PM																	Field parameters misplaced
17-Aug-10	6:00 PM																	
18-Aug-10	12:00 AM																	
18-Aug-10	6:00 AM																	
18-Aug-10	9:30 AM										0.170	-	**0.170**				ICP	
18-Aug-10	12:00 PM	16.0	9.80	1180														
18-Aug-10	6:00 PM	16.0	10.30	130														

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
19-Aug-10	12:00 AM	14.9	9.28	1167														
19-Aug-10	6:00 AM	14.9	9.24	1188														
19-Aug-10	10:30 AM										0.107	-	**0.107**				ICP	
19-Aug-10	12:00 PM	14.5	9.70	1224														
19-Aug-10	6:00 PM	14.2	9.69	1169														
20-Aug-10	12:00 AM	14.1	10.11	1202														
20-Aug-10	6:00 AM	13.2	9.50	1172														
20-Aug-10											0.109	-	**0.109**				ICP	
20-Aug-10	12:00 PM	14.4	9.48	1467														
20-Aug-10	6:00 PM	13.7	9.84	1432														
21-Aug-10	12:00 AM	14.4	9.87	1434														
21-Aug-10	6:00 AM	12.9	9.99	1428														
21-Aug-10	6:45 AM										0.118	-	**0.118**				ICP	
21-Aug-10	12:00 PM	13.9	10.18	1640														
21-Aug-10	6:00 PM	13.8	10.29	1640														
22-Aug-10	12:00 AM	12.6	9.92	1630														
22-Aug-10	6:00 AM	12.5	10.18	1610														
22-Aug-10	8:15 AM										0.162	-	**0.162**				ICP	
22-Aug-10	12:00 PM	13.3	9.80	1442														
22-Aug-10	6:00 PM	13.8	9.95	1422														
23-Aug-10	12:00 AM	13.2	9.96	1454														
23-Aug-10	6:00 AM	12.6	9.86	1433														
23-Aug-10	8:10 AM										0.139	-	**0.139**				ICP	
23-Aug-10	12:00 PM	13.0	9.22	1151														
23-Aug-10	6:00 PM	15.1	9.25	1208														
24-Aug-10	12:00 AM	13.6	9.80	1150														
24-Aug-10	6:00 AM	13.6	9.80	1163														
24-Aug-10	7:50 AM										0.184	-	**0.184**				ICP	
24-Aug-10	12:00 PM	13.1	9.40	1468														
24-Aug-10	6:00 PM	14.0	9.22	1475														
25-Aug-10	12:00 AM	13.6	9.80	1480														
25-Aug-10	6:00 AM	13.2	9.80	1488														
25-Aug-10	8:50 AM																	
25-Aug-10	12:00 PM	14.5	8.91	1499							0.134	-	**0.134**				ICP	
25-Aug-10	6:00 PM	13.8	8.95	1475														
26-Aug-10	12:00 AM	11.6	9.70	1392														
26-Aug-10	6:00 AM	11.3	9.80	1380														
26-Aug-10	9:00 AM										0.360	-	**0.360**				AA	

Table C-13:
2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Mill Effluent

Date	Time	Temp. (°C)	pH	EC (µS/cm)	Mill Effluent						Combined Mill Effluent						Method of Analysis	Comments
					Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**	Zn-T		**Zn-T Avg**	Zn-D		**Zn-D Avg**		
26-Aug-10	12:00 PM	13.3	8.97	1481														
26-Aug-10	6:00 PM	13.8	8.81	1463														
27-Aug-10	12:00 AM	13.4	9.40	1420														
27-Aug-10	6:00 AM	10.5	9.40	1410														
27-Aug-10	8:00 AM										0.227	-	**0.227**				AA	
27-Aug-10	12:00 PM	13.4	9.06	1463	0.798												AA	
27-Aug-10	6:00 PM																	lower flow through treatment system; no water from sampling port; could not collect sample
28-Aug-10	12:00 AM																	
28-Aug-10	6:00 AM																	
28-Aug-10																		
28-Aug-10																		
28-Aug-10																		

Table C-14 and Figure C-42
Cross Valley Pond Water Quality Profile
January 13, 2010

Denison Environmental Services

Faro Mine Closure

Note: Not discharging
Method of Analysis:

Table C-14

a) Site: NC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	10:30 AM	0.0	7.66	0.15		
-2.0	10:33 AM	0.0	6.79	0.20		
-3.0	10:37 AM	1.1	6.47	2.16		
-4.0	10.40 am	3.4	6.34	2.26		
-5.0	10:45 AM	2.9	6.27	2.32		
-6.0	10:46 AM	3.4	6.22	2.43		
-7.0	10:50 AM	2.0	6.20	2.51		
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	12:30 PM	0.0	7.04	1.81		
-2.0	12:25 PM	2.1	6.63	1.85		
-3.0	12:20 PM	3.2	6.56	2.07		
-4.0	12:15 PM	4.2	6.25	2.27		
-5.0	12:15 PM	4.4	6.24	2.36		
-6.0	12:10 PM	4.0	6.20	2.43		
-7.0	12:05 PM	3.7	6.18	2.44		
-8.0	12:00 PM	3.7	6.16	2.55		
-9.0	11:55 AM	2.5	6.19	2.64		
-10.0						

c) Site: SC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	2:40 PM	0.7	6.71	1.67		
-2.0	2:38 PM	2.5	6.58	1.85		
-3.0	2:37 PM	4.1	6.32	2.23		
-4.0	2:35 PM	5.1	6.36	2.40		
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	10:59 AM	0.0	7.06	1.84		
-2.0	11:05 AM	0.0	6.67	1.86		
-3.0	11:10 AM	1.7	6.42	2.10		
-4.0	11:15 AM	3.3	6.31	2.26		
-5.0	11:15 AM	3.7	6.27	2.36		
-6.0	11:20 AM	3.7	6.26	2.49		
-7.0	11:25 AM	3.9	6.16	2.49		
-8.0	11:30 AM	4.1	6.21	2.59		
-9.0	11:35 AM	4.2	6.20	2.61		
-10.0						

e) Site: WC

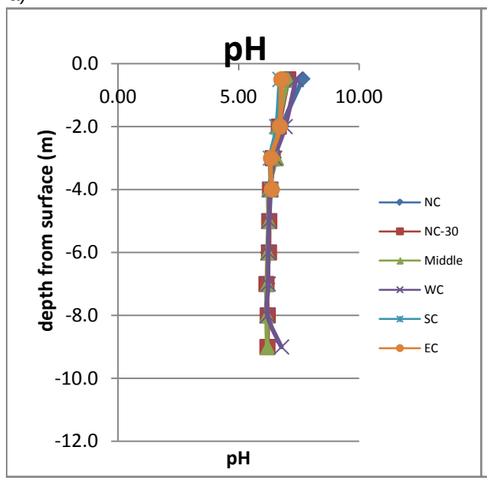
Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	2:13 PM	0.0	7.39	1.82		
-2.0	2:16 PM	0.9	6.93	1.86		
-3.0	2:17 PM	2.1	6.50	2.11		
-4.0	2:20 PM	3.8	6.31	2.30		
-5.0	2:22 PM	3.6	6.26	2.38		
-6.0	2:23 PM	4.0	6.23	2.39		
-7.0	2:25 PM	3.6	6.23	2.42		
-8.0	2:27 PM	3.8	6.20	2.48		
-9.0	2:29 PM	4.0	6.78	2.50		
-10.0						

f) Site: EC

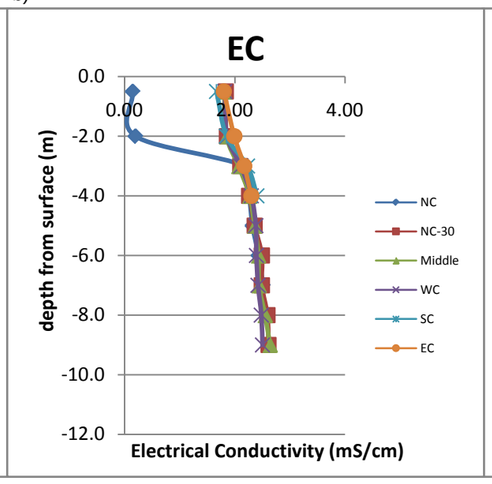
Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	2:05 PM	0.2	6.78	1.80		
-2.0	2:04 PM	0.5	6.71	1.99		
-3.0	2:03 PM	1.5	6.35	2.17		
-4.0	1:58 PM	1.4	6.38	2.30		
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-42

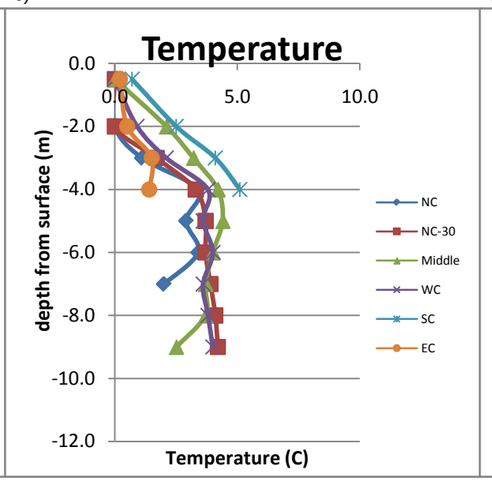
a)



b)



c)



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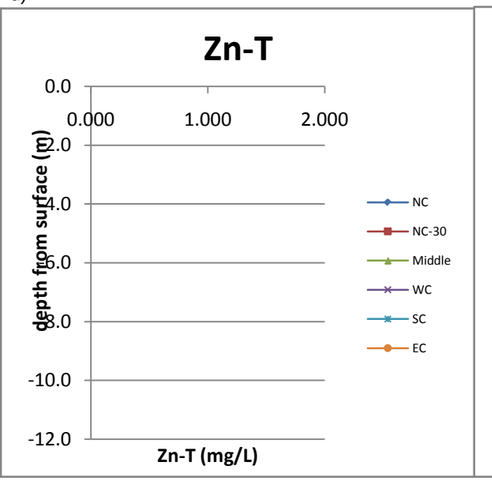


e)

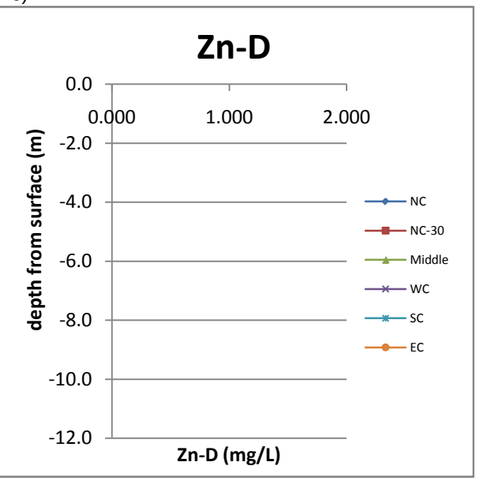


Table C-15 and Figure C-43
Cross Valley Pond Water Quality Profile
February 9, 2010

Note: Not discharging
Method of Analysis: AAS

Table C-15

a) Site: NC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	12:30 PM	0.4	7.19	1.76	0.34	
-2.0	12:25 PM	1.6	6.94	1.84	0.38	
-3.0	12:20 PM	1.4	6.76	2.04		
-4.0	12:15 PM	1.3	6.75	2.06	0.66	
-5.0	12:15 PM	3.8	6.62	2.25		
-6.0	12:10 PM	3.8	6.56	2.42	0.56	
-7.0	12:05 PM	4.1	6.54	2.46		
-8.0	12:00 PM	3.7	6.59	2.34	0.63	
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	2:40 PM	0.7	7.22	1.76	0.28	
-2.0	2:38 PM	0.7	6.64	1.83	0.37	
-3.0	2:37 PM	1.6	6.62	2.14		
-4.0	2:35 PM	2.3	6.61	2.21		
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	10:59 AM	0.9	7.32	1.75	0.35	
-2.0	11:05 AM	1.3	7.10	1.79	0.32	
-3.0	11:10 AM	2.5	6.93	1.99		
-4.0	11:15 AM	2.5	6.77	2.16	0.63	
-5.0	11:15 AM	3.4	6.67	2.30		
-6.0	11:20 AM	4.1	6.61	2.39	0.55	
-7.0	11:25 AM	3.6	6.62	2.41		
-8.0	11:30 AM	3.8	6.65	2.50	0.70	
-9.0	11:35 AM	4.2	6.53	2.55	0.82	
-10.0						

e) Site: WC

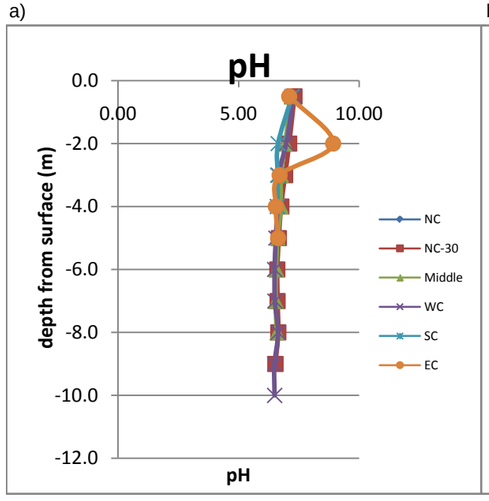
Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	2:13 PM	0.0	7.29	1.73	0.31	
-2.0	2:16 PM	0.7	6.98	1.82	0.38	
-3.0	2:17 PM	2.0	6.65	2.12		
-4.0	2:20 PM	2.4	6.61	2.27	0.63	
-5.0	2:22 PM	3.5	6.55	2.30		
-6.0	2:23 PM	3.9	6.50	2.40	0.52	
-7.0	2:25 PM	3.6	6.51	2.48		
-8.0	2:27 PM	4.0	6.64	2.45	0.53	
-9.0	2:29 PM	3.9	6.49	2.51		
-10.0	2:30 PM	3.7	6.50	2.51		

f) Site: EC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	2:05 PM	0.3	7.10	1.59	0.55	
-2.0	2:04 PM	0.8	8.92	1.75	0.40	
-3.0	2:03 PM	1.1	6.70	2.04		
-4.0	1:58 PM	2.9	6.55	2.30	0.82	
-5.0	1:57 PM	2.8	6.64	2.21		
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-43

a)



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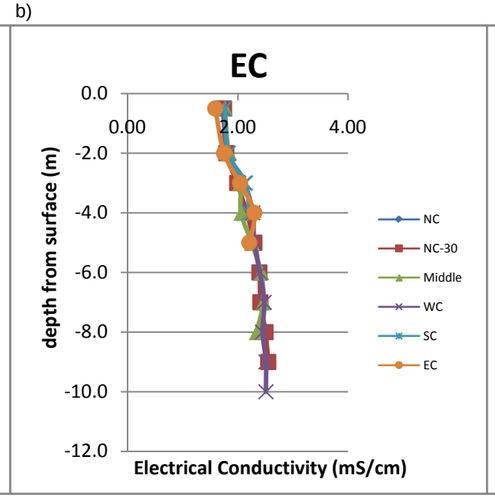

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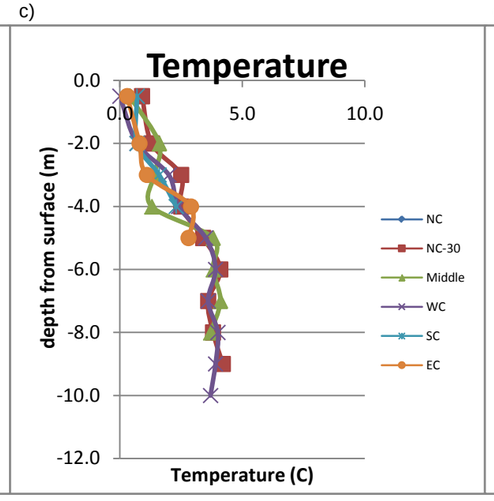

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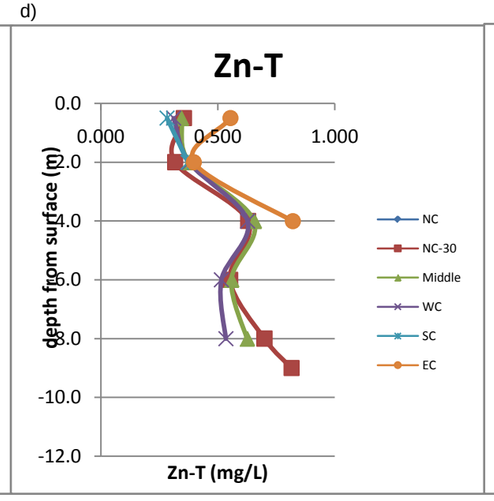


e)

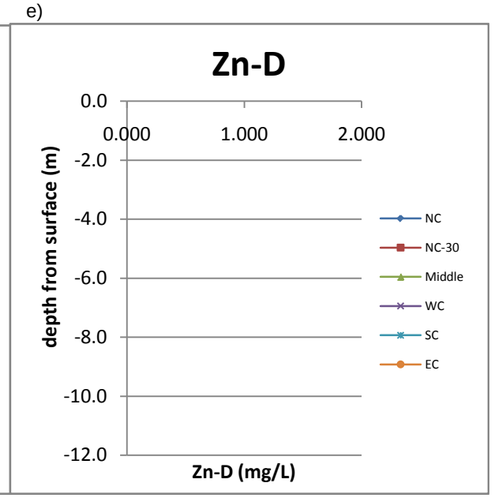


Table C-16 and Figure C-44
Cross Valley Pond Water Quality Profile
March 2, 2010

Note: Not discharging
Method of Analysis: ICP-OES

Table C-16

a) Site: NC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	11:07 AM	0.3	7.03	1.42	0.287	0.277
-2.0	11:11 AM	1.2	6.90	1.52	0.314	0.317
-3.0	11:13 AM	2.0	6.63	1.70		
-4.0	11:16 AM	3.4	6.47	1.88	0.502	0.515
-5.0	11:19 AM	3.3	6.45	1.83		
-6.0	11:21 AM	3.2	6.44	1.86	0.543	0.549
-7.0	11:23 AM	3.4	6.39	1.92		
-8.0	11:26 AM	3.9	6.38	2.00	0.865	0.866
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	10:35 AM	0.4	7.03	1.42	0.248	0.225
-2.0	10:37 AM	1.8	6.75	1.56	0.340	0.274
-3.0	10:40 AM	1.7	6.71	1.58		
-4.0	10:43 AM	2.3	6.59	1.69	0.519	0.514
-5.0	10:47 AM	3.0	6.50	1.81		
-6.0	10:49 AM	3.4	6.44	1.88	0.420	0.430
-7.0	10:51 AM	2.9	6.44	1.85		
-8.0	10:53 AM	2.5	6.45	1.82	0.391	0.394
-9.0	10:55 AM	3.0	6.40	1.94		
-10.0						

c) Site: SC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	9:45 AM	1.0	7.21	1.36	0.266	0.251
-2.0	9:48 AM	0.7	7.07	1.51	0.297	0.287
-3.0	9:50 AM	1.7	6.86	1.61		
-4.0	9:52 AM	1.8	6.68	1.84	0.459	0.427
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	10:05 AM	0.2	7.06	1.46	0.281	0.257
-2.0	10:07 AM	0.1	7.06	1.41	0.328	0.324
-3.0	10:09 AM	2.0	6.66	1.68		
-4.0	10:11 AM	3.7	6.53	1.85	0.503	0.519
-5.0	10:14 AM	3.3	6.47	1.86		
-6.0	10:16 AM	4.0	6.41	1.85	0.422	0.436
-7.0	10:18 AM	3.5	6.43	1.85		
-8.0	10:20 AM	4.0	6.36	1.99	0.398	0.404
-9.0	10:23 AM	3.5	6.40	1.91		
-10.0	10:26 AM	4.0	6.38	1.96	0.424	0.436

f) Site: EC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	10:45 AM	0.5	6.93	1.34	0.327	0.297
-2.0	10:48 AM	1.4	6.80	1.53	0.319	0.317
-3.0	10:51 AM	1.7	6.60	1.70		
-4.0	10:54 AM	2.4	6.52	1.85	0.516	0.520
-5.0	10:56 AM	2.4	6.46	1.85		
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-44

a) b) c) d) e)

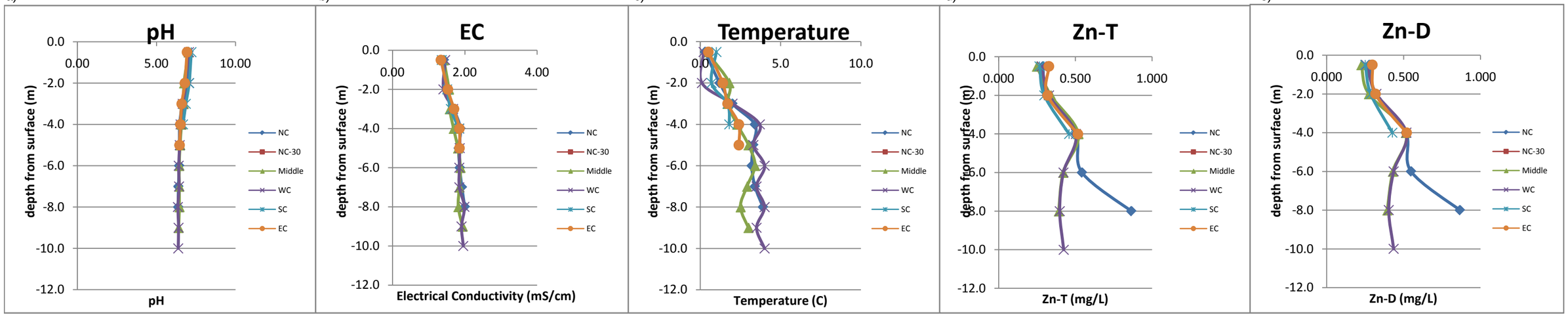


Table C-17 and Figure C-45
Cross Valley Pond Water Quality Profile
March 31, 2010

Note: Discharging began March 22, 2010
Method of Analysis: ICP-OES

Table C-17

a) Site: NC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	9:49 AM	0.1	7.09	1.86	0.306	
-2.0	9:59 AM	1.0	7.16	2.07	0.343	
-3.0	10:01 AM	2.6	6.88	2.37		
-4.0	10:04 AM	3.5	6.75	2.52	0.488	
-5.0	10:06 AM	3.5	6.68	2.58		
-6.0	10:08 AM	3.6	6.61	2.65	0.510	
-7.0	10:11 AM	3.2	6.59	2.66		
-8.0	10:14 AM	3.7	6.51	2.82	0.651	
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	10:32 AM	0.6	7.22	1.72	0.208	
-2.0	10:34 AM	2.6	7.02	1.53	0.343	
-3.0	10:36 AM	2.3	6.84	2.37		
-4.0	10:38 AM	4.4	6.66	1.86	0.476	
-5.0	10:39 AM	3.7	6.65	2.56		
-6.0	10:41 AM	4.3	6.55	1.94	0.377	
-7.0	10:42 AM	3.9	6.57	2.68		
-8.0	10:44 AM	4.0	6.55	2.74	0.600	
-9.0	10:45 AM	4.4	6.47	2.06		
-10.0	10:46 AM	4.0	6.61	2.83	0.454	

c) Site: SC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	11:30 AM	1.2	7.15	1.75	0.226	
-2.0	11:31 AM	3.1	6.80	1.60	0.320	
-3.0	11:32 AM	3.9	6.63	1.80		
-4.0	11:33 AM	3.7	6.72	2.44	0.449	
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	11:03 AM	0.8	7.24	1.97	0.095	
-2.0	11:04 AM	3.6	6.96	2.06	0.330	
-3.0	11:05 AM	4.1	6.63	1.79		
-4.0	11:07 AM	4.8	6.69	2.50	0.482	
-5.0	11:08 AM	4.6	6.55	1.92		
-6.0	11:09 AM	4.7	6.60	2.65	0.434	
-7.0	11:10 AM	4.2	6.49	1.99		
-8.0	11:11 AM	4.5	6.57	2.66	0.427	
-9.0	11:12 AM	4.4	6.47	2.01		
-10.0						

f) Site: EC

Δh	t	T	pH	EC (mS/cm)	Zn-T	Zn-D
-0.5	11:46 AM	1.8	7.03	1.32	0.219	
-2.0	11:50 AM	2.6	6.86	2.05	0.332	
-3.0	11:53 AM	3.0	6.62	1.75		
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-45

a) b) c) d) e)

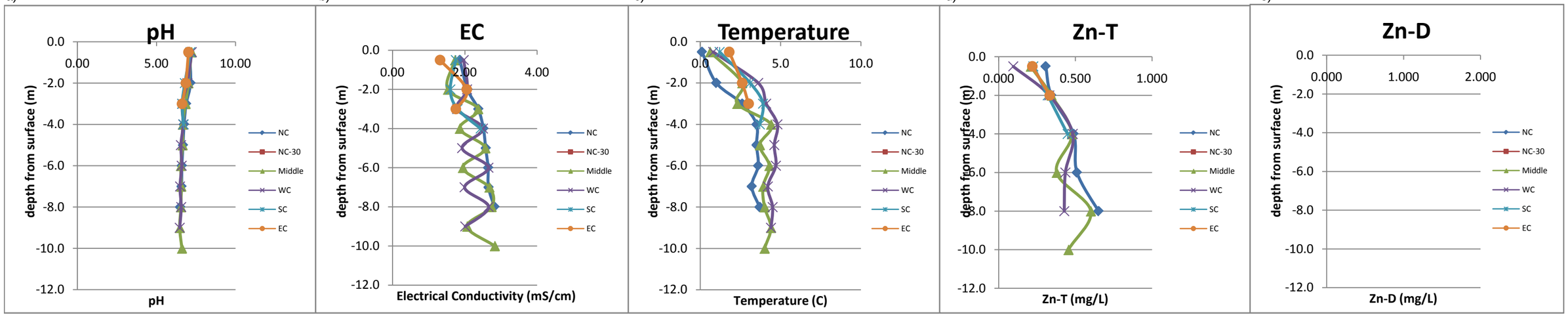


Table C-18 and Figure C-46
Cross Valley Pond Water Quality Profile
April 20, 2010

Note:
Method of Analysis: ICP-OES

Table C-18

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:58 AM	1.6	7.19	1477	0.065	
-1.5	9:11 AM	2.6	6.80	1955	0.273	
-2.0	2:19 PM	4.3	6.89	1819	0.332	
-2.5	2:21 PM	3.0	6.72	1905	0.505	
-3.0	9:13 AM	4.7	6.37	2625		
-4.0	9:15 AM	4.8	6.37	2697	0.571	
-5.0	9:17 AM	4.7	6.34	2777		
-6.0	9:20 AM	4.8	6.46	2766	0.638	
-7.0	9:22 AM	4.6	6.38	2855		
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:00 AM	3.0	7.56	1808	0.120	
-1.5	10:05 AM	2.7	7.33	1918	0.258	
-2.0	2:25 PM	3.0	6.65	2074	0.117	
-2.5	2:28 PM	3.7	6.62	2211	0.366	
-3.0	10:07 AM	3.9	6.59	2501		
-4.0	10:10 AM	4.4	6.54	2666	0.499	
-5.0	10:13 AM	4.3	6.47	2696		
-6.0	10:15 AM	4.3	6.44	2798	0.454	
-7.0	10:17 AM	4.4	6.41	2827		
-8.0	10:20 AM	4.6	6.42	2938	0.682	
-9.0	10:22 AM	4.6	6.37	2993		
-10.0						

e) Site: WC

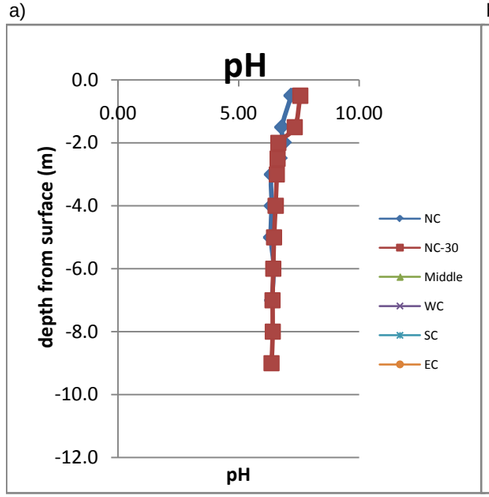
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

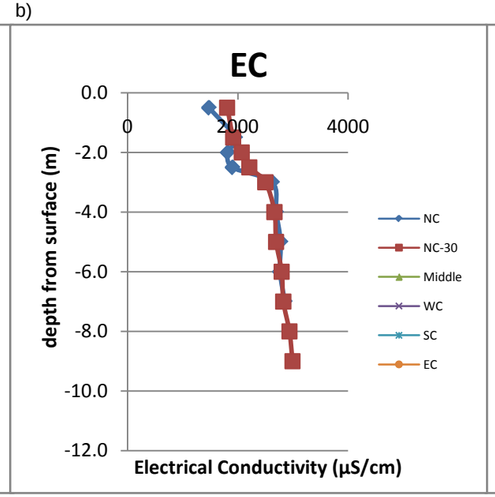
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-46

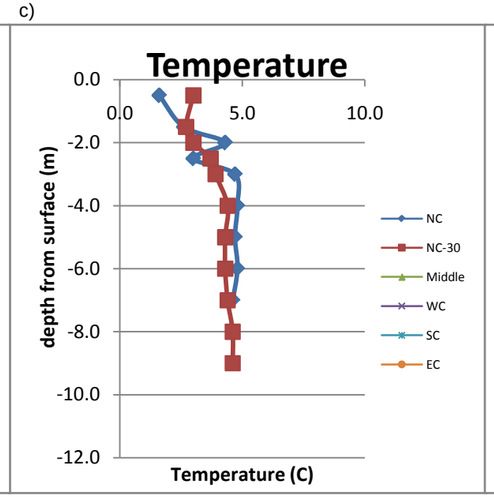
a)



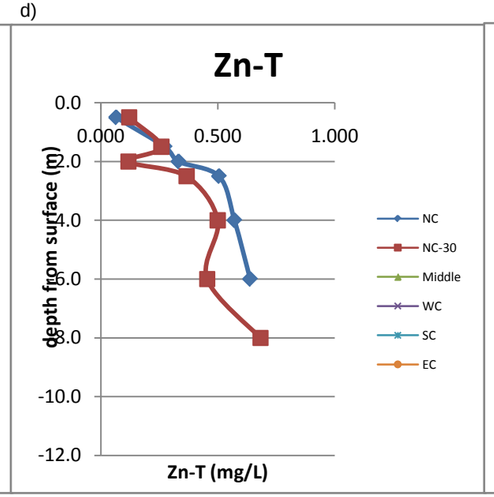
b)



c)



d)



e)

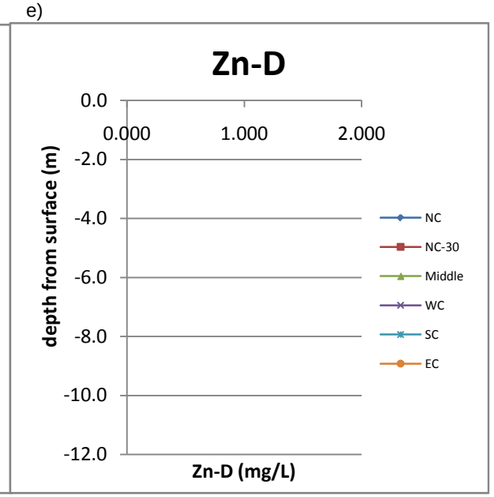


Table C-19 and Figure C-47
Cross Valley Pond Water Quality Profile
April 22, 2010

Note:
Method of Analysis: ICP-OES

Table C-19

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:58 AM	1.8	7.13	1178		
-1.5	9:11 AM	1.7	6.95	1734		
-2.0	2:19 PM	3.4	6.72	2328		
-2.5	2:21 PM	3.3	6.43	2421		
-3.0	9:13 AM	4.0	6.41	2507		
-4.0	9:15 AM	4.5	6.35	2654		
-5.0	9:17 AM	4.5	6.35	2728		
-6.0	9:20 AM	4.3	6.34	2782		
-7.0	9:22 AM	4.2	6.34	2811		
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:00 AM	0.7	8.73	849		
-1.5	10:05 AM	2.4	7.05	1932		
-2.0	2:25 PM	2.7	6.59	2162		
-2.5	2:28 PM	3.7	6.49	2423		
-3.0	10:07 AM	4.0	6.44	2504		
-4.0	10:10 AM	4.4	6.38	2642		
-5.0	10:13 AM	4.2	6.37	2689		
-6.0	10:15 AM	4.2	6.36	2736		
-7.0	10:17 AM	4.3	6.34	2834		
-8.0	10:20 AM	4.4	6.34	2908		
-9.0	10:22 AM	4.6	6.33	2980		
-10.0						

e) Site: WC

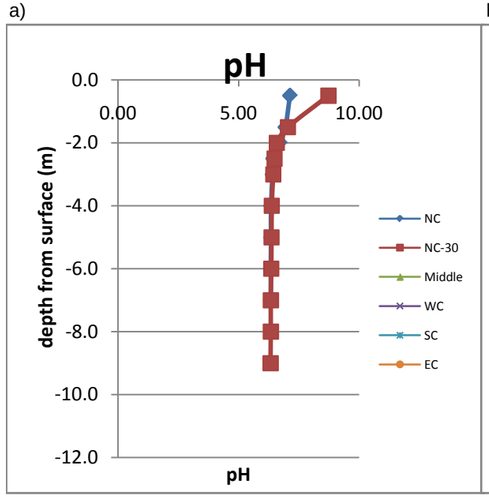
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

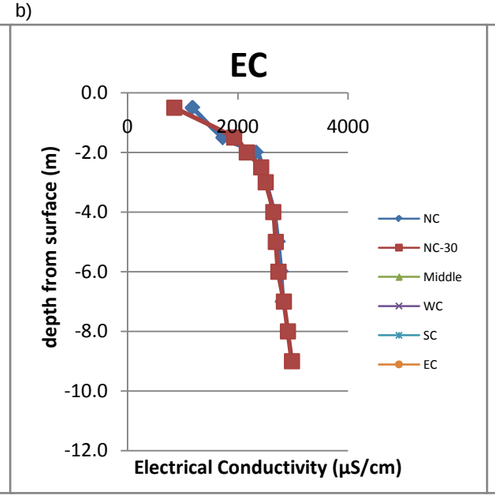
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-47

a)



b)



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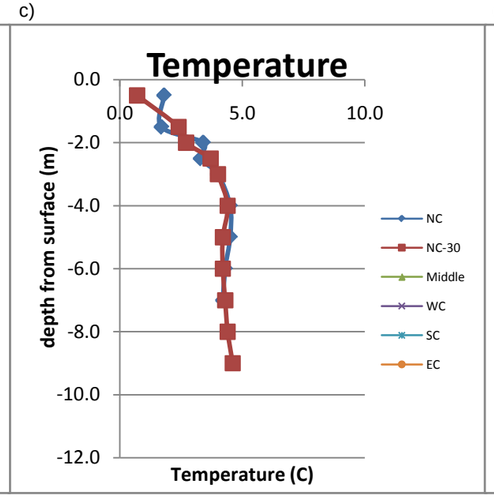

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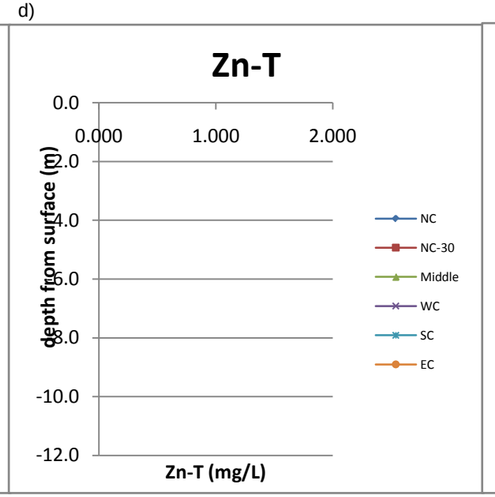

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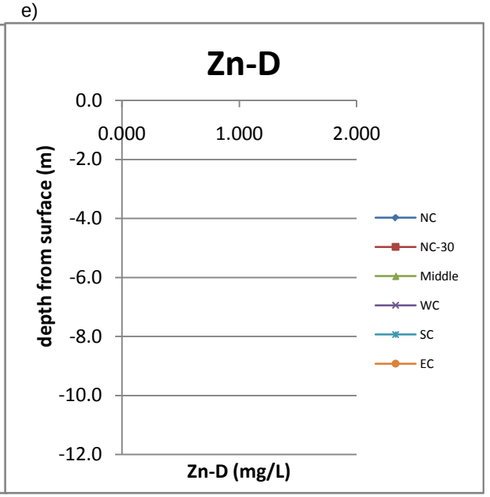


Table C-20 and Figure C-48
Cross Valley Pond Water Quality Profile
April 23, 2010 - Morning

Note: Siphon closed at 8:14 AM
Method of Analysis: ICP-OES

Table C-20

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:26 AM	0.6	7.88	1357	0.151	
-1.5						
-2.0	8:28 AM	1.8	6.81	1640	0.300	
-2.5						
-3.0	8:29 AM	2.8	6.49	2510	0.601	
-4.0	8:31 AM	3.9	6.44	2640	0.581	
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:33 AM	0.6	9.29	1060	0.014	
-1.5						
-2.0	8:34 AM	2.7	6.80	1660	0.425	
-2.5						
-3.0	8:36 AM	3.6	6.50	1980	0.533	
-4.0	8:38 AM	4.1	6.51	2040	0.558	
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

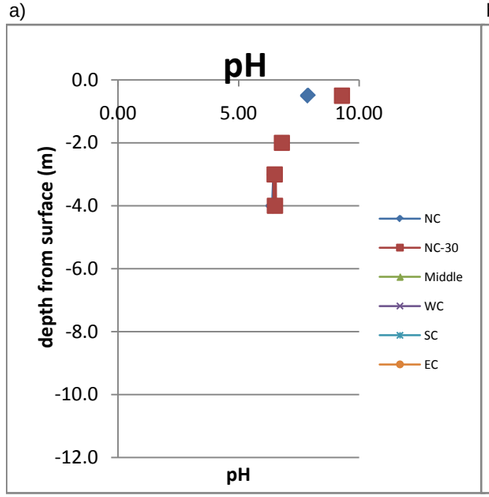
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

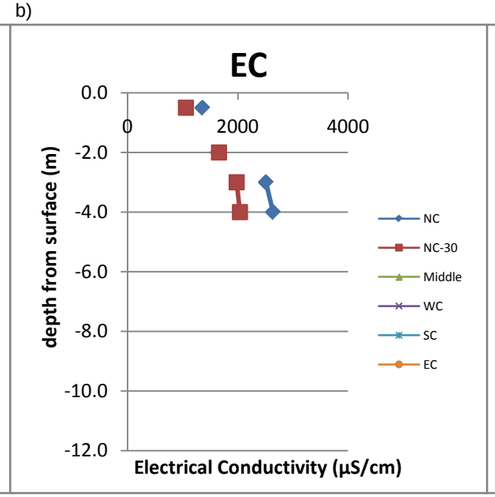
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-48

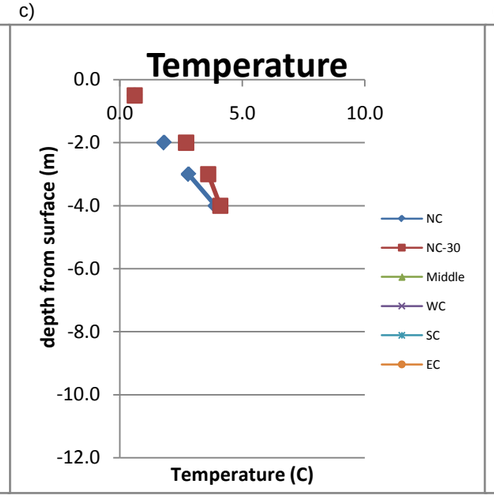
a)



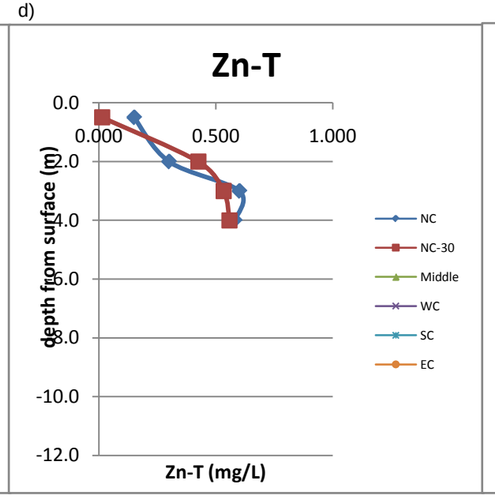
b)



c)



d)



e)

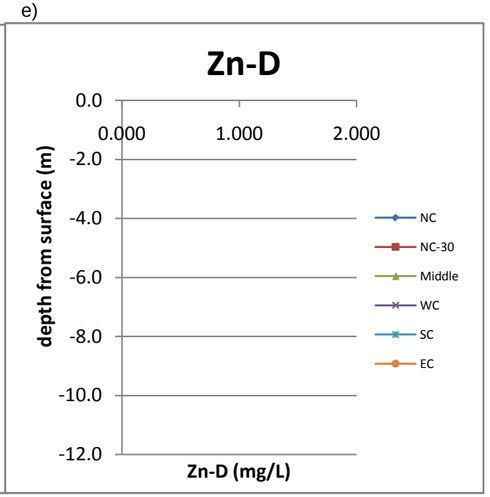


Table C-21 and Figure C-49
Cross Valley Pond Water Quality Profile
April 23, 2010 - Afternoon

Note: Siphon opened at 1:05 PM - 1 turn
Method of Analysis: ICP-OES

Table C-21

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5	1:35 PM	2.5	6.56	1520		0.177
-2.0						
-2.5	1:37 PM	2.6	6.58	1740		0.389
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5	1:42 PM	2.4	6.80	1560		0.131
-2.0						
-2.5	1:45 PM	2.9	6.66	1850		0.422
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

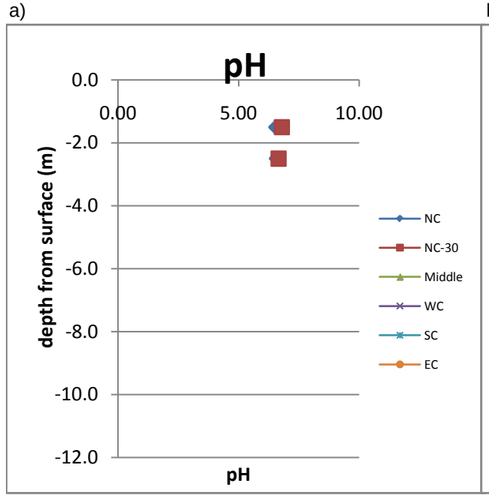
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

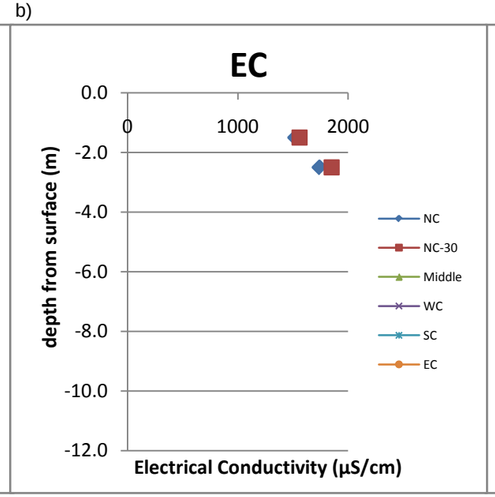
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-49

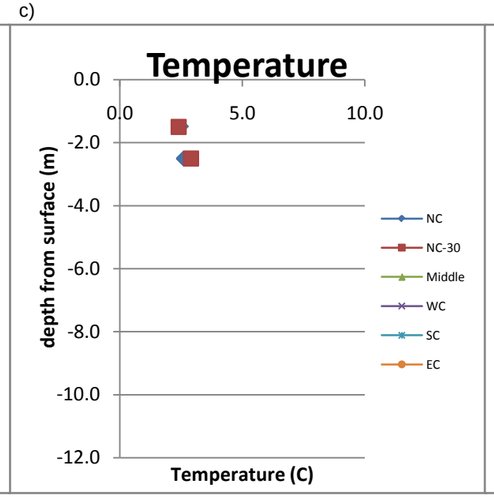
a)



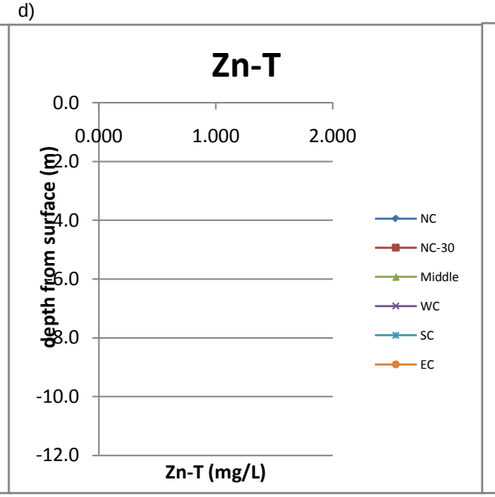
b)



c)



d)



e)

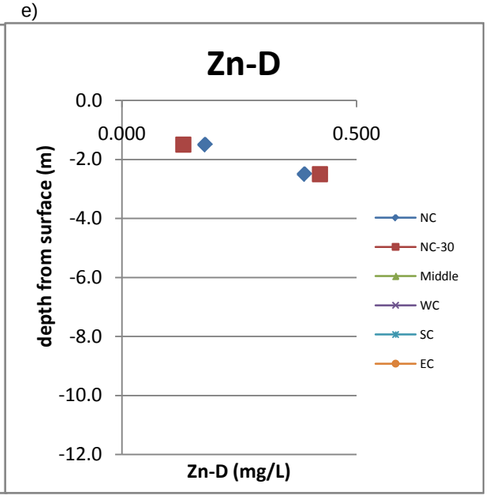


Table C-22 and Figure C-50
Cross Valley Pond Water Quality Profile
April 24, 2010

Note: Siphon remains closed from April 23, 2010 at 16:54. Samples not collected at 5.0 m or 7.0 m, just profiles
Method of Analysis: ICP-OES; digested with hot plate

Table C-22

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:12 AM	1.0	8.75	1468	0.073	0.055
-1.5	8:15 AM	1.5	7.92	1692	0.162	0.145
-2.0	8:23 AM	2.0	7.54	1928	0.306	0.241
-2.5	8:25 AM	2.9	7.05	2256	0.473	0.477
-3.0	8:27 AM	3.0	6.96	2220	0.52	0.540
-4.0	8:31 AM	4.0	6.82	2553	0.485	0.529
-5.0	8:34 AM	4.1	6.76	2629		
-6.0	8:36 AM	4.2	6.67	2695	0.494	0.535
-7.0	8:39 AM	4.0	6.61	2721		
-8.0	8:41 AM	4.1	6.56	2793	0.593	0.631
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:03 AM	0.8	9.24	1253	0.026	0.004
-1.5	9:05 AM	2.4	7.54	1674	0.193	0.173
-2.0	9:07 AM	2.5	7.38	1833	0.245	0.254
-2.5	9:14 AM	3.5	6.92	2255	0.453	0.490
-3.0	9:17 AM	3.9	6.82	2407	0.479	0.467
-4.0	9:25 AM	5.1	6.78	2438	0.487	0.522
-5.0	9:27 AM	4.9	6.65	2645		
-6.0	9:28 AM	4.3	6.70	2523	0.488	0.506
-7.0	9:31 AM	4.4	6.62	2535		
-8.0	9:33 AM	4.8	6.56	2776	0.484	0.534
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-50

a) b) c) d) e)

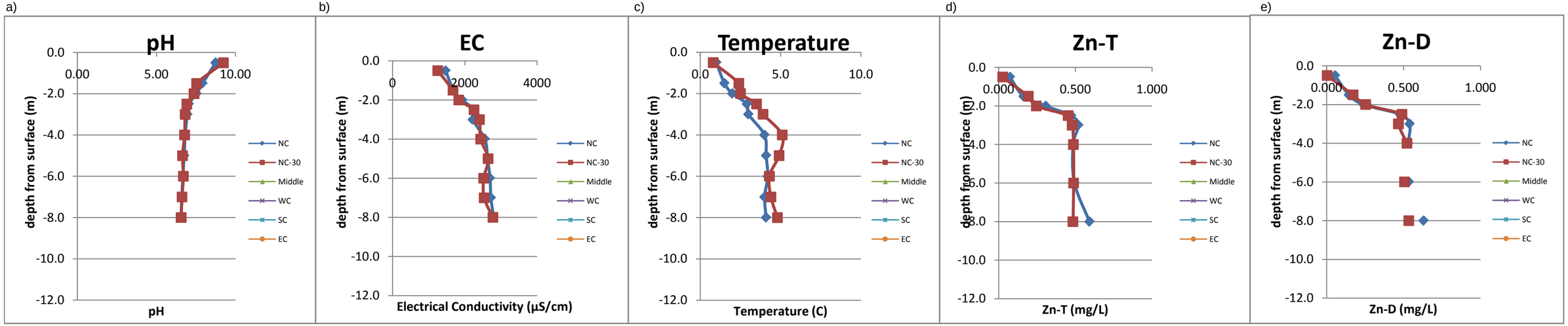


Table C-23 and Figure C-51
Cross Valley Pond Water Quality Profile
April 25, 2010

Note:
Method of Analysis: ICP-OES

Table C-23

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:35 AM	1.7	8.08	1476	0.088	0.080
-1.5	9:37 AM	2.4	7.06	1770	0.193	0.182
-2.0	9:39 AM	3.9	6.78	2345	0.478	0.490
-2.5	9:41 AM	3.5	6.68	2187	0.486	0.499
-3.0	9:42 AM	3.9	6.57	2390	0.489	0.507
-4.0						
-5.0						
-6.0	9:43 AM	4.5	6.43	2673	0.494	0.517
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:05 AM	1.2	8.03	755	0.020	0.011
-1.5	10:07 AM	2.7	6.97	1645	0.178	0.169
-2.0	10:09 AM	2.8	6.83	1858	0.279	0.256
-2.5	10:10 AM	3.1	6.64	2056	0.424	0.420
-3.0	10:12 AM	3.9	6.49	2383	0.57	0.570
-4.0						
-5.0						
-6.0	10:13 AM	4.7	6.39	2692	0.576	0.505
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

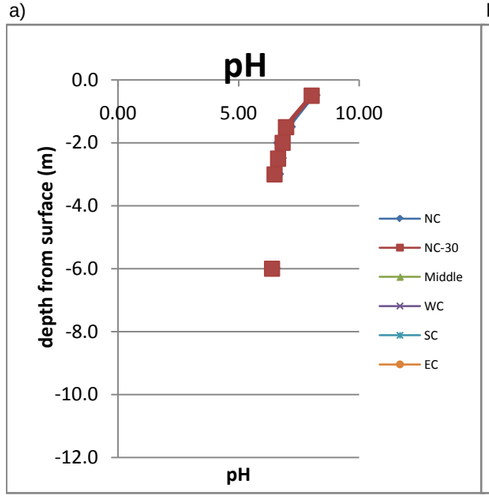
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

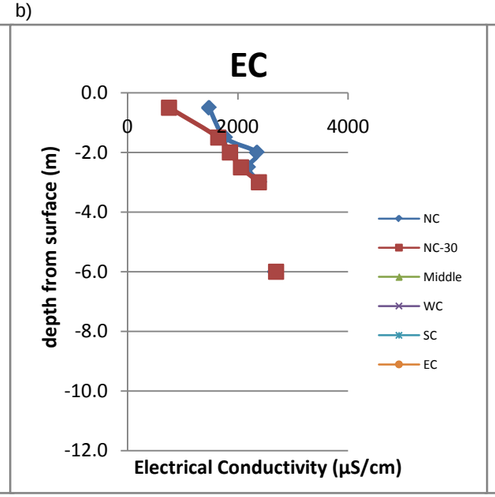
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-51

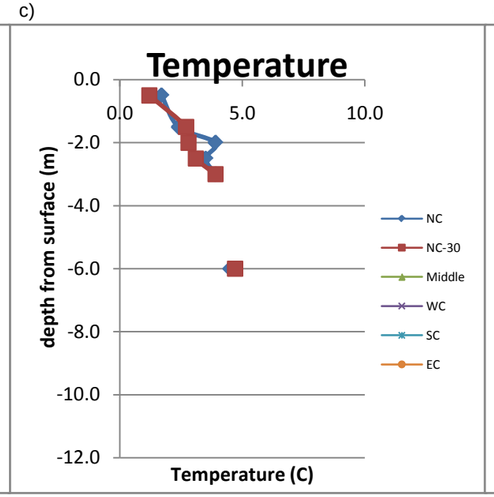
a)



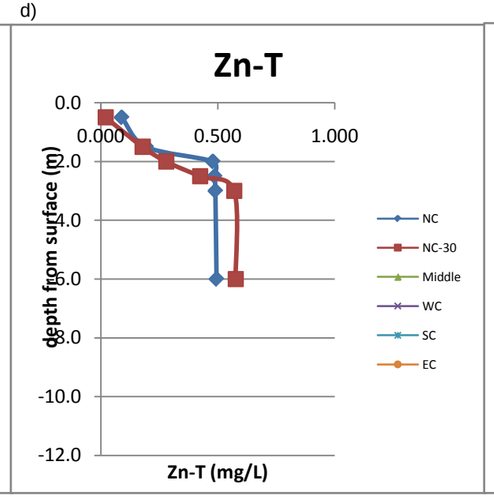
b)



c)



d)



e)

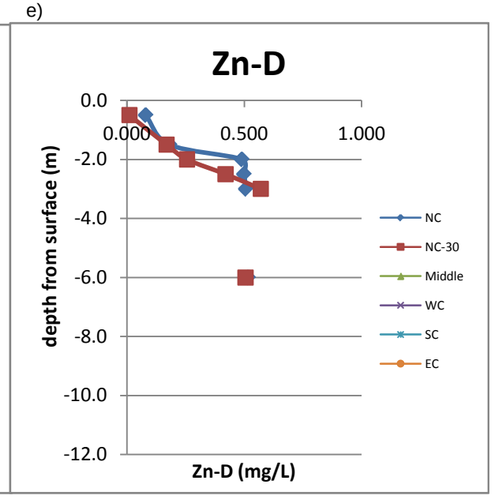


Table C-24 and Figure C-52
Cross Valley Pond Water Quality Profile
April 27, 2010

Note:
Method of Analysis: ICP-OES

Table C-24

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:24 AM	1.6	8.50	1055	0.095	0.055
-1.5	9:26 AM	2.7	7.97	1379	0.132	
-2.0						
-2.5	9:28 AM	3.5	6.99	1946	0.452	0.415
-3.0	9:30 AM	3.9	6.83	2163	0.538	
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:32 AM	1.2	7.96	120	0.030	0.004
-1.5	9:34 AM	3.4	7.34	1387	0.160	
-2.0						
-2.5	9:36 AM	3.5	6.96	1824	0.404	0.367
-3.0	9:40 AM	3.9	6.79	2116	0.602	
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

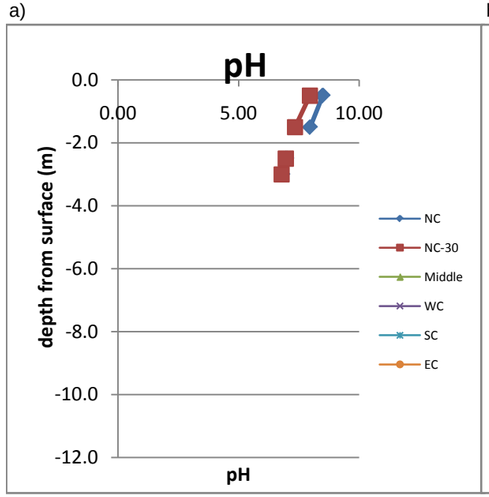
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

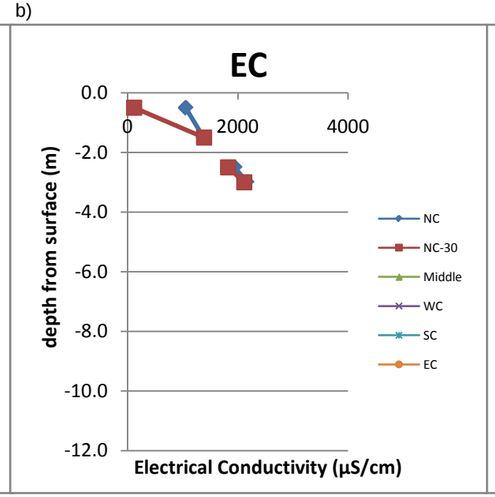
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-52

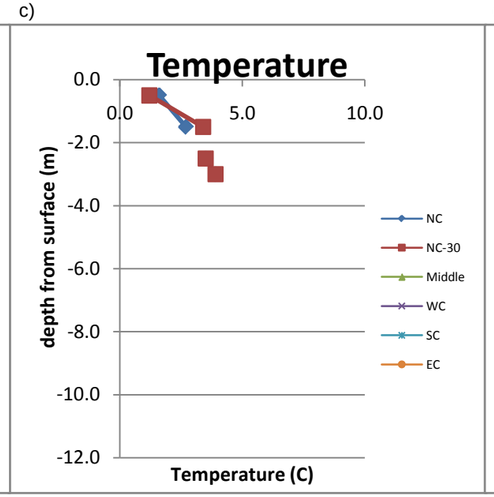
a)



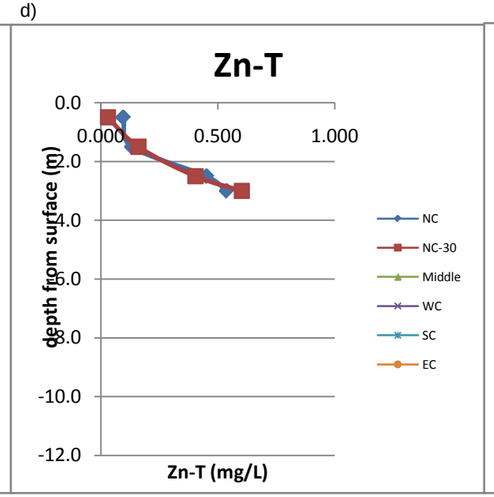
b)



c)



d)



e)

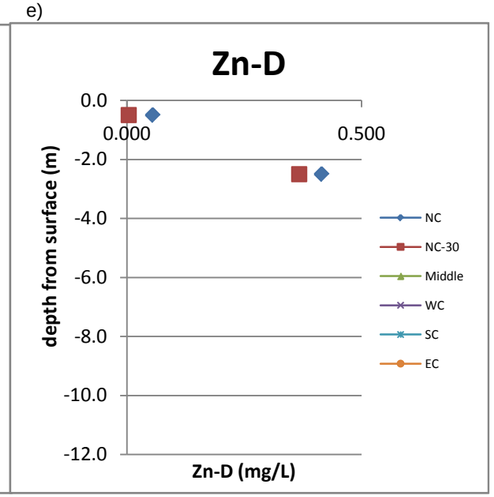


Table C-25 and Figure C-53
Cross Valley Pond Water Quality Profile
April 29, 2010

Note:
Method of Analysis: ICP-OES

Table C-25

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:20 AM	2.5	8.58	970	0.081	
-1.5	9:22 AM	3.8	8.37	1160	0.087	
-2.0	9:24 AM	3.8	7.78	1180	0.110	
-2.5	9:26 AM	4.2	7.36	1500	0.305	
-3.0	9:28 AM	4.6	7.06	1770	0.437	
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:32 AM	2.7	8.36	500	0.029	
-1.5	9:34 AM	4.0	7.91	1170	0.072	
-2.0	9:36 AM	3.5	8.68	950	0.039	
-2.5	9:38 AM	4.4	8.29	1080	0.078	
-3.0	9:40 AM	4.9	7.29	1670	0.416	
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

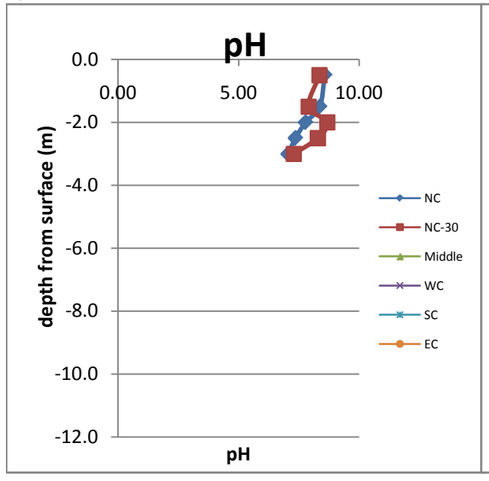
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

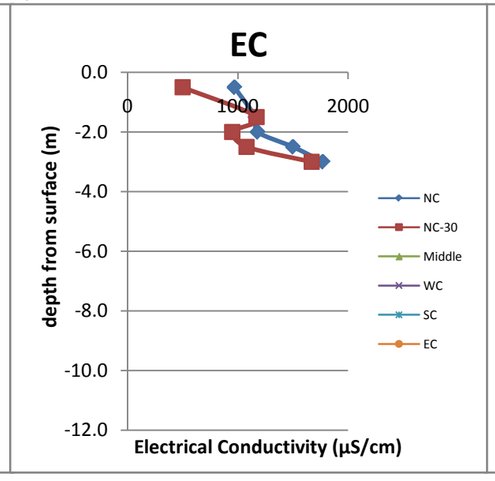
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-53

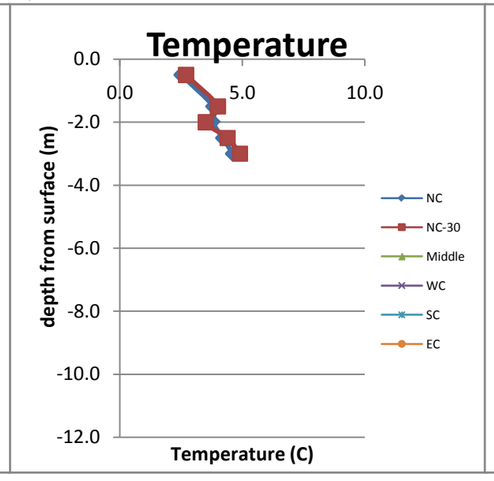
a)



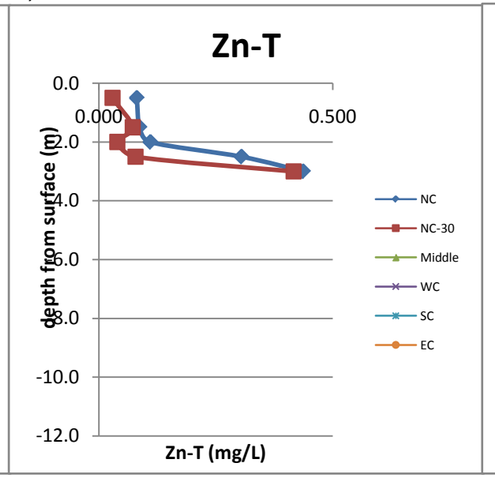
b)



c)



d)



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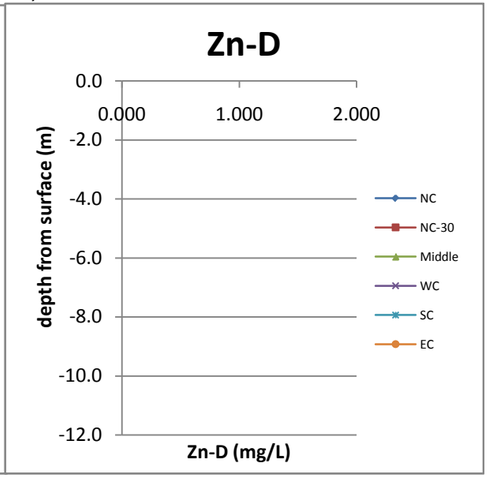


Table C-26 and Figure C-54
Cross Valley Pond Water Quality Profile
May 22, 2010

Note:
Method of Analysis: ICP-OES

Table C-26

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	3:56 PM	9.0	7.59	1381	0.180	164
-1.5	3:57 PM	7.4	7.63	1332	0.173	167
-2.0	3:59 PM	9.2	6.97	2135	0.452	182
-2.5	4:02 PM	10.0	7.00	2353		185
-3.0	4:04 PM	9.5	6.89	2426		185
-4.0	4:07 PM	8.1	6.92	2510	0.533	184
-5.0	4:09 AM	7.3	6.88	2540		182
-6.0		7.3	6.87	2574	0.523	180
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	3:05 PM	7.3	7.65	1340	0.157	170
-1.5						
-2.0	3:10 PM	8.0	7.10	1732	0.397	181
-2.5						
-3.0	3:15 PM	8.6	6.93	2442		165
-4.0	3:20 PM	9.1	6.98	2190	0.425	166
-5.0	3:25 PM	7.7	6.89	2547		163
-6.0	3:30 PM	6.1	6.88	2632	0.383	163
-7.0	3:30 PM	6.3	6.88	2632		163
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	1:55 PM	6.8	7.69	1353	0.179	155
-1.5						
-2.0	1:59 PM	9.2	7.10	1926	0.398	152
-2.5						
-3.0	2:05 PM	9.5	6.93	2406		153
-4.0	2:10 PM	8.1	6.96	2385	0.424	162
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

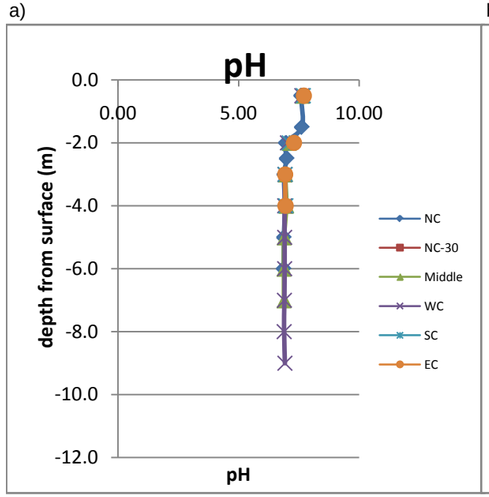
Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	2:20 PM	8.3	7.63	1345	0.168	164
-1.5						
-2.0	2:25 PM	9.8	7.03	2155	0.411	168
-2.5						
-3.0	2:30 PM	9.8	6.92	2346		166
-4.0	2:35 PM	8.5	6.91	2528	0.403	156
-5.0	2:40 PM	7.3	6.91	2623		148
-6.0	2:45 PM	7.1	6.91	2611	0.371	152
-7.0	2:50 PM	6.1	6.90	2650		165
-8.0	2:55 PM	6.6	6.89	2619	0.382	158
-9.0	3:00 PM	7.5	6.92	2518		160
-10.0						

f) Site: EC

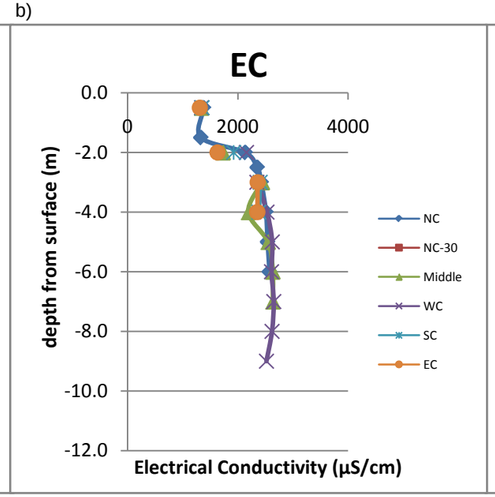
Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	3:42 PM	7.5	7.71	1310	0.160	170
-1.5						
-2.0	3:42 PM	8.3	7.30	1631	0.360	180
-2.5						
-3.0	3:45 PM	9.5	6.93	2359		149
-4.0	3:50 PM	9.3	6.95	2353	0.512	150
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-54

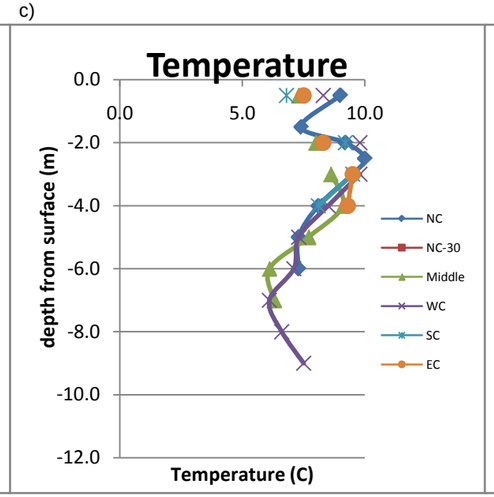
a)



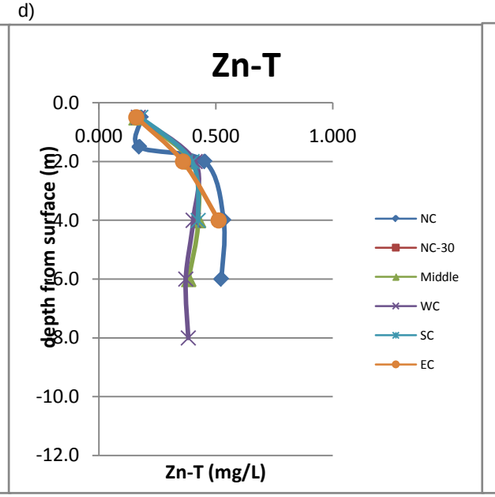
b)



c)



d)



e)

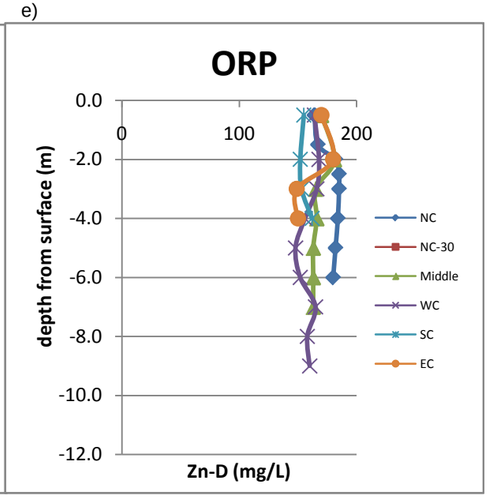


Table C-27 and Figure C-55
Cross Valley Pond Water Quality Profile
June 5, 2010

Note:
Method of Analysis: ICP-OES

Table C-27

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:40 AM	11.3	7.16	1706	0.294	
-1.0	10:42 AM	11.2	7.11	1703	0.294	
-1.5	10:44 AM	11.3	7.09	1701	0.295	
-2.0	10:46 AM	11.2	7.12	1705	0.293	
-2.5	10:48 AM	11.3	7.11	1701	0.294	
-3.0	10:50 AM	11.5	6.69	1918	0.301	
-4.0	10:52 AM	10.8	6.45	2280	0.366	
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:25 AM	11.7	7.15	1706	0.281	
-1.0	10:27 AM	11.1	7.20	1668	0.277	
-1.5	10:29 AM	10.3	7.33	1618	0.273	
-2.0	10:31 AM	10.5	7.35	1603	0.272	
-2.5	10:33 AM	10.8	7.06	1679	0.282	
-3.0	10:35 AM	11.2	6.66	1947	0.281	
-4.0	10:37 AM	11.1	6.41	2348	0.496	
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

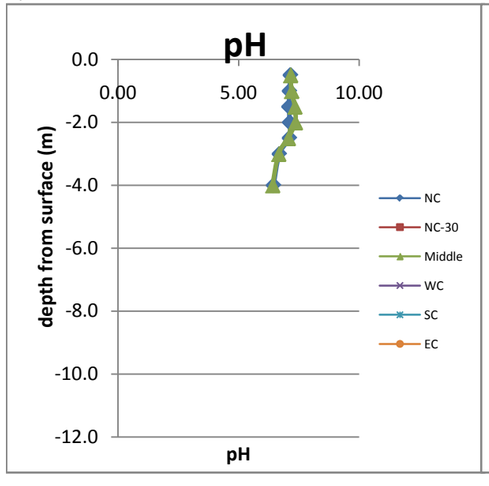
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

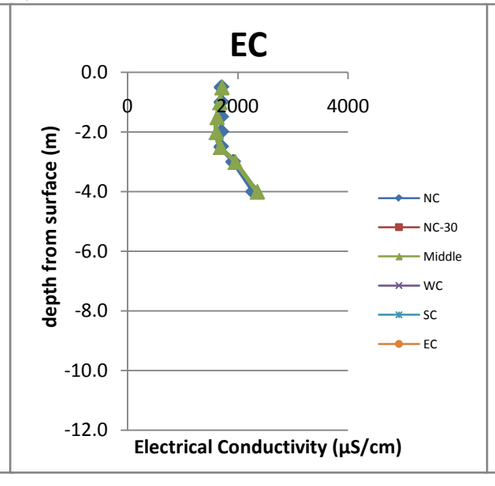
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-55

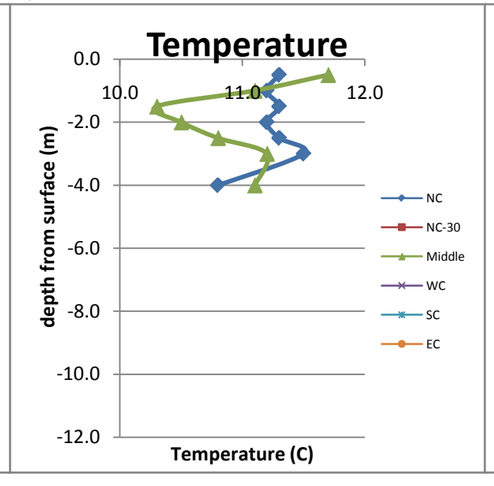
a)



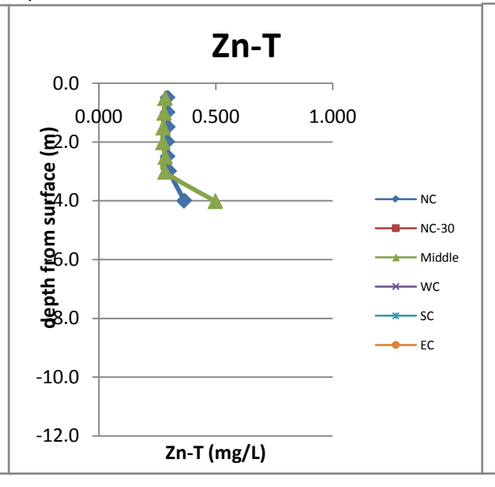
b)



c)



d)



e)

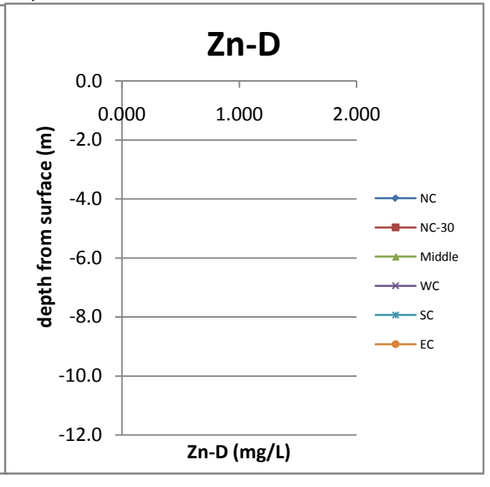


Table C-28 and Figure C-56
Cross Valley Pond Water Quality Profile
June 13, 2010 - AAS

Note:
Method of Analysis: AAS

Table C-28

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	11:42 AM	11.1	7.61	1792	0.32	149
-1.0	11:44 AM	11.2	7.58	1765	0.32	144
-2.0	11:46 AM	11.2	7.58	1769	0.34	143
-2.5						
-3.0	11:48 AM	11.5	6.72	2161		159
-4.0	11:49 AM	10.5	6.70	2397	0.35	164
-5.0	11:51 AM	9.8	6.56	2511		166
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	10:11 AM	10.9	7.68	1729	0.31	171
-1.0	10:13 AM	10.9	7.66	1721	0.31	161
-2.0	10:17 AM	10.6	7.75	1683	0.29	136
-2.5						
-3.0	10:19 AM	10.8	6.99	1952		149
-4.0	10:24 AM	10.7	6.72	2149	0.53	158
-5.0	10:25 AM	10.5	6.62	2375		161
-6.0	10:28 AM	9.2	6.55	2639	0.46	165
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	10:38 AM	10.9	7.62	1757	0.32	128
-1.0	10:40 AM	11.3	7.60	1750	0.31	125
-2.0	10:42 AM	11.3	7.70	1708	0.27	117
-2.5						
-3.0	10:45 AM	12.0	6.76	2137		141
-4.0	10:50 AM	11.8	6.60	2475	0.57	139
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5						
-1.0						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	11:00 AM	11.3	7.58	1775	0.31	134
-1.0	11:02 AM	11.0	7.61	1727	0.30	129
-2.0	11:04 AM	11.0	7.33	1766	0.40	132
-2.5						
-3.0	11:07 AM	12.1	6.67	2255		143
-4.0	11:11 AM	12.3	6.79	2049	0.52	144
-5.0	11:14 AM	10.3	6.57	2577		143
-6.0	11:16 AM	10.0	6.60	2494	0.52	143
-7.0	11:19 AM	8.1	6.52	2749		142
-8.0	11:23 AM	7.9	6.55	2769	0.55	136
-9.0	11:27 AM	7.7	6.52	2788		137
-10.0	11:28 AM	6.7	6.52	2853	0.50	140

f) Site: EC

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	12:03 PM	11.1	7.46	1792	0.32	158
-1.0	12:04 PM	11.2	7.39	1788	0.33	161
-2.0	12:09 PM	10.8	7.42	1792	0.32	157
-2.5						
-3.0	12:11 PM	10.5	7.41	1760		157
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-56

a) b) c) d) e)

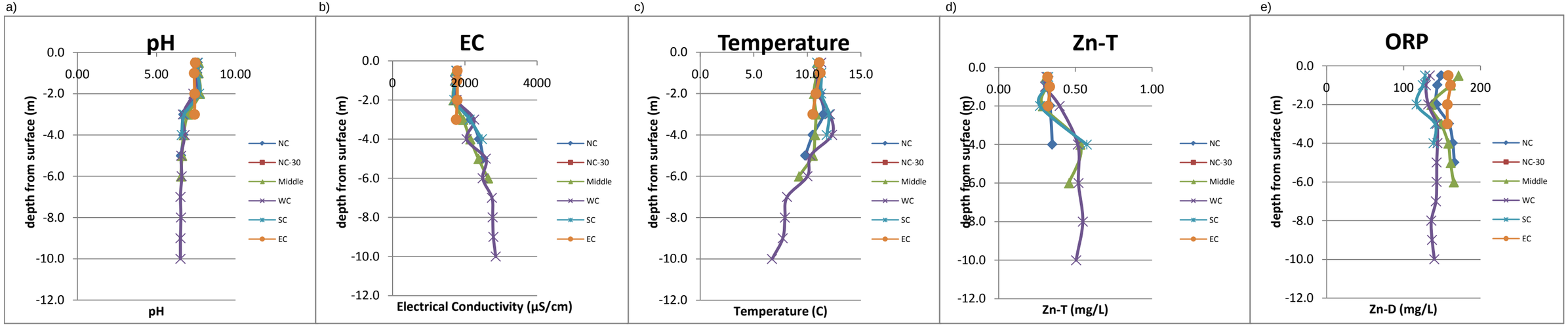


Table C-29 and Figure C-57
Cross Valley Pond Water Quality Profile
June 13, 2010 - ICP-OES

Note:
Method of Analysis: ICP-OES

Table C-29

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	11:42 AM	11.1	7.61	1792	0.284	149
-1.0	11:44 AM	11.2	7.58	1765	0.299	144
-2.0	11:46 AM	11.2	7.58	1769	0.297	143
-2.5						
-3.0	11:48 AM	11.5	6.72	2161		159
-4.0	11:49 AM	10.5	6.70	2397	0.335	164
-5.0	11:51 AM	9.8	6.56	2511		166
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	10:11 AM	10.9	7.68	1729	0.265	171
-1.0	10:13 AM	10.9	7.66	1721	0.264	161
-2.0	10:17 AM	10.6	7.75	1683	0.253	136
-2.5						
-3.0	10:19 AM	10.8	6.99	1952		149
-4.0	10:24 AM	10.7	6.72	2149	0.452	158
-5.0	10:25 AM	10.5	6.62	2375		161
-6.0	10:28 AM	9.2	6.55	2639	0.395	165
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	10:38 AM	10.9	7.62	1757	0.280	128
-1.0	10:40 AM	11.3	7.60	1750	0.282	125
-2.0	10:42 AM	11.3	7.70	1708	0.243	117
-2.5						
-3.0	10:45 AM	12.0	6.76	2137		141
-4.0	10:50 AM	11.8	6.60	2475	0.486	139
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5						
-1.0						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	11:00 AM	11.3	7.58	1775	0.276	134
-1.0	11:02 AM	11.0	7.61	1727	0.261	129
-2.0	11:04 AM	11.0	7.33	1766	0.357	132
-2.5						
-3.0	11:07 AM	12.1	6.67	2255		143
-4.0	11:11 AM	12.3	6.79	2049	0.460	144
-5.0	11:14 AM	10.3	6.57	2577		143
-6.0	11:16 AM	10.0	6.60	2494	0.443	143
-7.0	11:19 AM	8.1	6.52	2749		142
-8.0	11:23 AM	7.9	6.55	2769	0.467	136
-9.0	11:27 AM	7.7	6.52	2788		137
-10.0	11:28 AM	6.7	6.52	2853	0.442	140

f) Site: EC

Δh	t	T	pH	EC (µS/cm)	Zn-T	ORP
-0.5	12:03 PM	11.1	7.46	1792	0.294	158
-1.0	12:04 PM	11.2	7.39	1788	0.297	161
-2.0	12:09 PM	10.8	7.42	1792	0.293	157
-2.5						
-3.0	12:11 PM	10.5	7.41	1760		157
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-57

a) b) c) d) e)

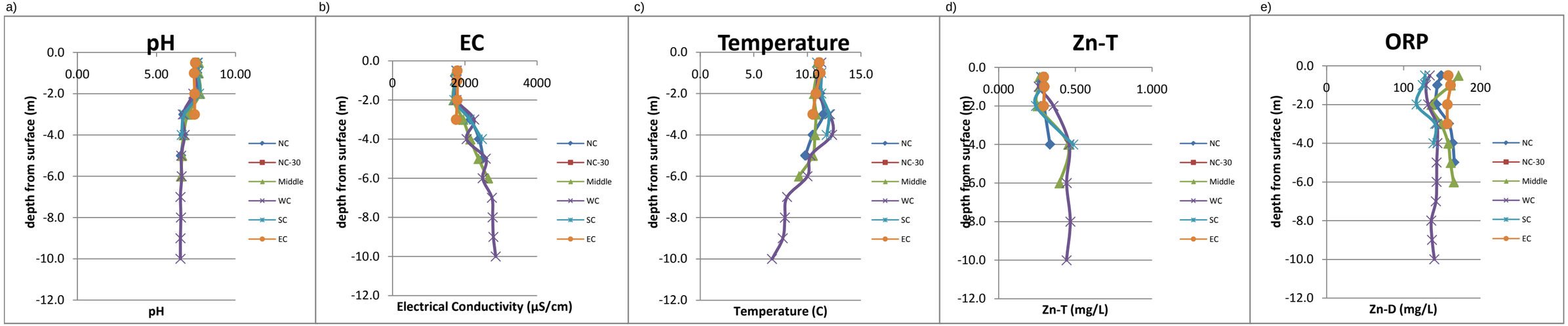


Table C-30 and Figure C-58
Cross Valley Pond Water Quality Profile
June 25, 2010

Note:
Method of Analysis: ICP-OES

Table C-30

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	2:10 PM	15.6	8.25	1625	0.186	
-1.0	2:12 PM	14.7	8.18	1614	0.201	
-2.0	2:14 PM	14.5	8.18	1611	0.199	
-3.0	2:16 PM	13.1	7.19	2423		
-4.0	2:18 PM	11.4	7.10	2503	0.487	
-5.0	2:20 PM	10.4	7.10	2536		
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	2:53 PM	14.4	7.79	1629	0.220	
-1.0	2:55 PM	14.5	7.79	1629	0.218	
-2.0	2:57 PM	14.2	7.25	1785	0.302	
-3.0	2:59 PM	13.0	6.83	2326		
-4.0	3:01 PM	11.1	6.84	2544	0.475	
-5.0	3:03 PM	10.0	6.89	2542		
-6.0	3:05 PM	8.9	6.94	2633	0.435	
-7.0	3:07 PM	8.6	6.91	2631		
-7.8	3:09 PM	8.2	6.94	2614	0.422	
-9.0						
-10.0						

Bottom @ 7.8 m

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	2:31 PM	14.2	8.02	1627	0.220	
-1.0	2:33 PM	14.2	8.03	1609	0.199	
-2.0	2:35 PM	14.1	8.03	1602	0.205	
-2.5	2:37 PM	13.4	6.97	2258		
-3.0	2:39 PM	12.0	6.97	2393	0.472	
-4.0	2:41 PM	9.5	7.04	2574		
-5.0	2:43 PM	8.4	6.99	2657	0.453	
-6.0	2:45 PM	8.8	7.00	2581		
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 7.5 m

e) Site: WC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-58

a) b) c) d) e)

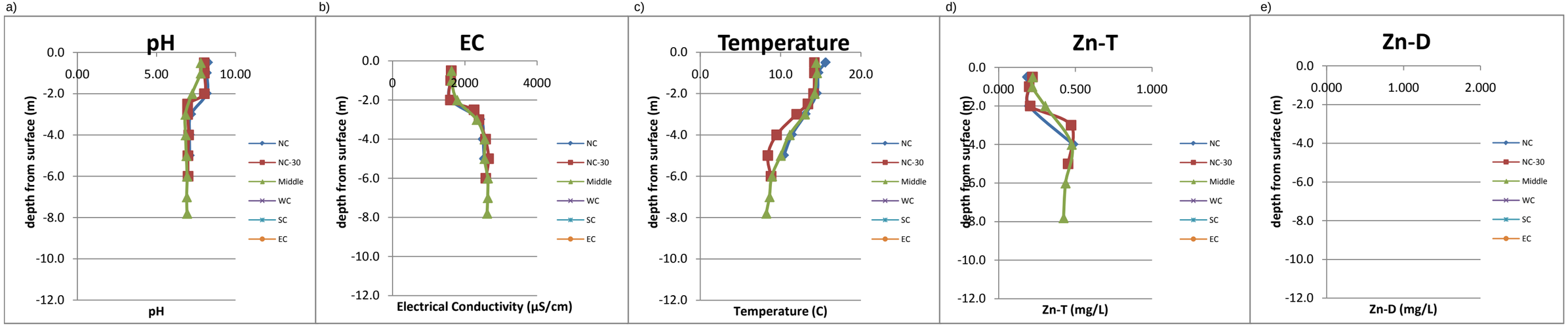


Table C-31 and Figure C-59
Cross Valley Pond Water Quality Profile
July 11, 2010

Note:
Method of Analysis: ICP-OES

Table C-31

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:40 AM	14.3	7.60	1669	0.184	
-2.0	9:43 AM	14.3	7.57	1665	0.184	
-2.5	9:45 AM	13.8	6.69	2338	0.467	
-3.0	9:44 AM	13.0	6.73	2393	0.496	
-4.0	9:47 AM	11.5	6.77	2403	0.518	
-4.9	9:48 AM	9.8	6.85	2443		
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 4.9 m

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:09 AM	13.7	7.57	1684	0.182	
-2.0	10:12 AM	13.8	7.26	1765	0.234	
-2.5	10:13 AM	13.5	6.75	2322	0.388	
-3.0	10:15 AM	12.8	6.73	2406	0.429	
-4.0	10:17 AM	11.4	6.84	2338	0.439	
-5.0	10:18 AM	10.5	6.87	2483		
-6.0	10:19 AM	8.8	6.95	2540	0.350	
-7.0	10:21 AM	7.6	6.95	2634		
-8.0						
-9.0						
-10.0						

Bottom @ 7.5 m

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:32 AM	13.8	7.57	1699	0.179	
-2.0	10:33 AM	14.0	7.47	1707	0.241	
-2.5	10:34 AM	14.5	6.76	2185	0.472	
-3.0	10:36 AM	11.7	6.79	2336	0.425	
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:53 AM	13.9	7.44	1676	0.182	
-2.0	9:54 AM	14.2	7.41	1676	0.184	
-2.5	9:57 AM	13.6	6.67	2312	0.531	
-3.0	9:55 AM	12.9	6.76	2258	0.528	
-4.0	9:59 AM	10.6	6.76	2487	0.373	
-5.0	10:00 AM	9.3	6.78	2513		
-6.0	10:02 AM	9.2	6.81	2469	0.427	
-7.0	10:03 AM	8.1	6.87	2564		
-8.0						
-9.0						
-10.0						

e) Site: WC

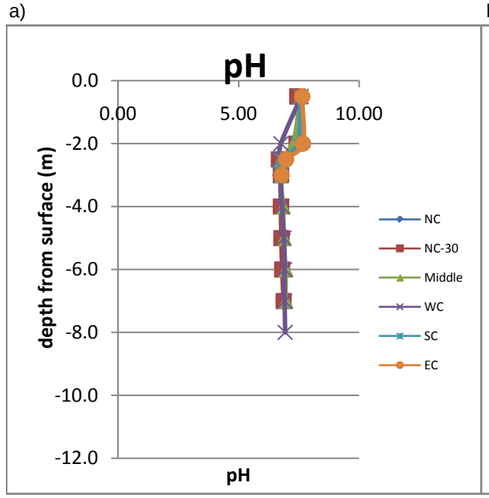
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:44 AM	14.1	7.59	1706	0.177	
-2.0	10:45 AM	14.9	6.76	2196	0.437	
-2.5	10:47 AM	14.0	6.72	2351	0.496	
-3.0	10:48 AM	13.3	6.74	2371	0.477	
-4.0	10:49 AM	10.7	6.81	2533	0.443	
-5.0	10:50 AM	9.3	6.88	2535		
-6.0	10:51 AM	8.6	6.91	2502	0.404	
-7.0	10:52 AM	8.3	6.91	2497		
-8.0	10:53 AM	7.7	6.93	2573	0.417	
-9.0						
-10.0						

f) Site: EC

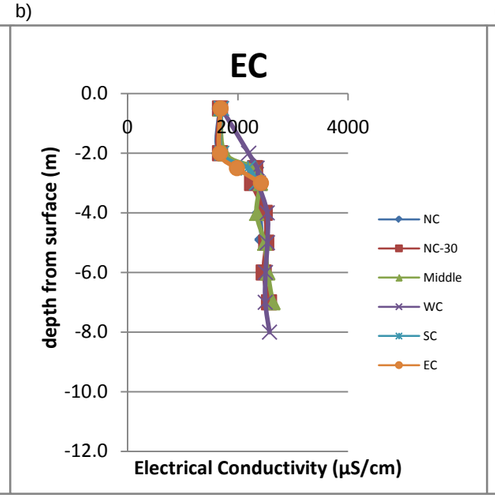
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:59 AM	13.8	7.64	1685	0.180	
-2.0	11:00 AM	13.8	7.67	1678	0.178	
-2.5	11:02 AM	13.3	6.97	1984	0.306	
-3.0	11:04 AM	12.8	6.78	2420	0.629	
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-59

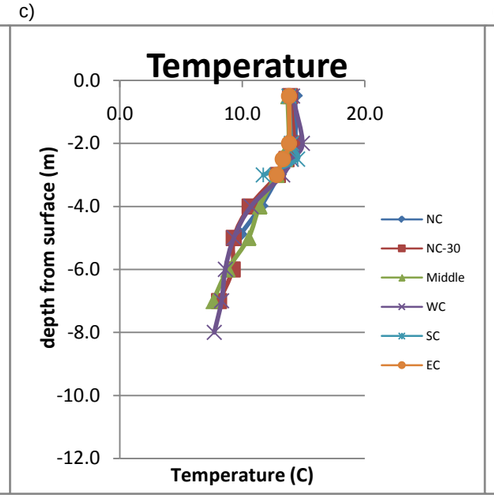
a)



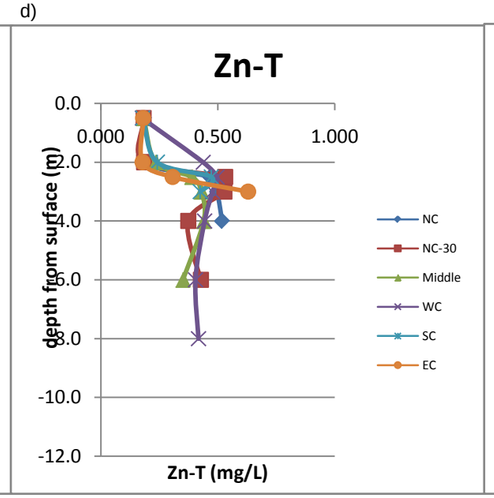
b)



c)



d)



e)

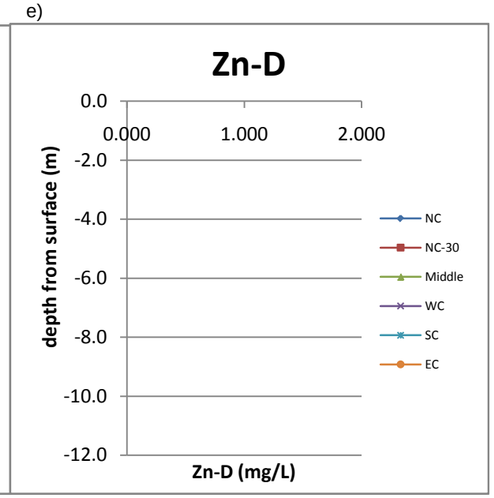


Table C-32 and Figure C-60
Cross Valley Pond Water Quality Profile
August 1, 2010

Note:
Method of Analysis: AAS

Table C-32

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	11:05 AM	17.9	7.72	1580	0.32	0.25
-1.0	11:13 AM	17.6	7.68	1577	0.32	0.25
-2.0	11:16 AM	16.6	7.60	1601	0.34	0.27
-2.5	11:24 AM	15.1	6.55	2240	0.81	0.67
-3.0	11:19 AM	14.7	6.60	2301	0.74	0.61
-3.5	11:22 AM	13.5	6.53	2356	0.86	0.69
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	11:57 AM	17.6	7.58	1613	0.31	0.24
-1.0	12:01 PM	16.6	7.58	1604	0.30	0.24
-2.0	12:02 PM	16.3	6.62	2090	0.50	0.40
-2.5						
-3.0						
-3.5						
-4.0	12:04 PM	12.9	6.47	2385	0.57	0.45
-5.0						
-6.0	12:05 PM	11.8	6.45	2435	0.43	0.35
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	12:25 PM	17.3	7.39	1625	0.30	0.25
-1.5						
-2.0	12:28 PM	17.4	7.39	1632	0.32	0.25
-2.5	12:32 PM	17.0	6.70	1880	0.42	0.32
-3.0	12:35 PM	15.7	6.51	2147	0.36	0.30
-3.5						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	11:30 AM	17.0	7.55	1592	0.34	0.26
-1.0	11:34 AM	16.9	7.52	1588	0.35	0.28
-1.5	11:41 AM	16.7	7.16	1602	0.35	0.26
-2.0	11:35 AM	16.6	6.57	2178	0.44	0.34
-2.5	11:43 AM	15.4	6.47	2336	0.65	0.54
-3.0	11:38 AM	14.6	6.50	2350	0.71	0.58
-4.0	11:40 AM	13.3	6.47	2430	0.64	0.54
-5.0	11:47 AM	12.4	6.45	2360	0.59	0.49
-6.0	11:45 AM	11.5	6.45	2475	0.57	0.47
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

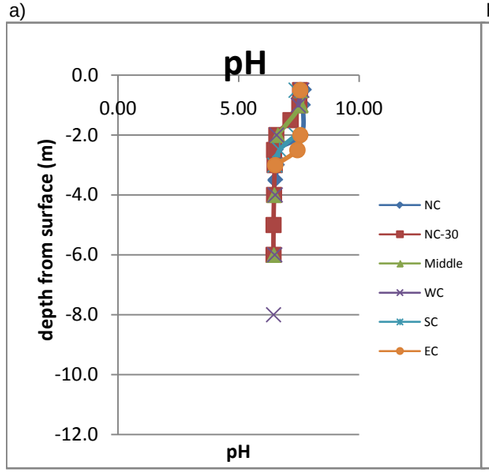
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	12:13 PM	17.2	7.62	1625	0.31	0.26
-1.0	12:15 PM	17.1	7.48	1631	0.34	0.26
-1.5						
-2.0	12:16 PM	16.7	6.58	2135	0.55	0.45
-2.5						
-3.0						
-4.0	12:17 PM	14.5	6.52	2298	0.58	0.48
-5.0						
-6.0	12:19 PM	12.8	6.50	2315	0.52	0.44
-7.0						
-8.0	12:20 PM	12.2	6.45	2420	0.54	0.44
-9.0						
-10.0						

f) Site: EC

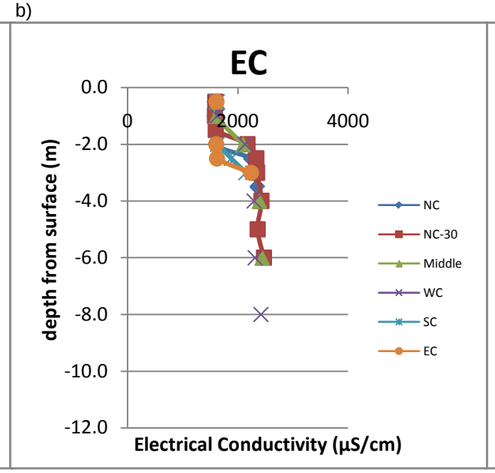
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	12:42 PM	17.7	7.56	1616	0.35	0.25
-1.0						
-1.5						
-2.0	12:44 PM	17.2	7.56	1611	0.32	0.25
-2.5	12:45 PM	16.6	7.44	1625	0.31	0.25
-3.0	12:47 PM	15.0	6.52	2241	0.72	0.60
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-60

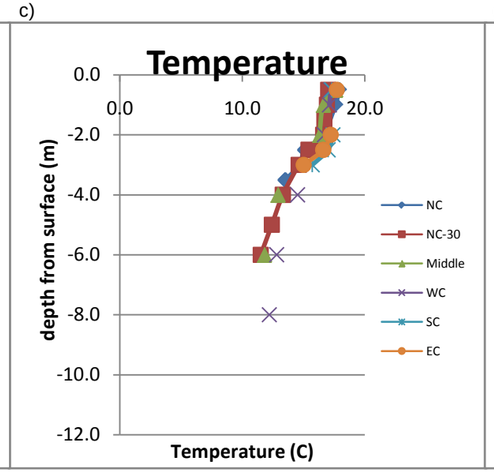
a)



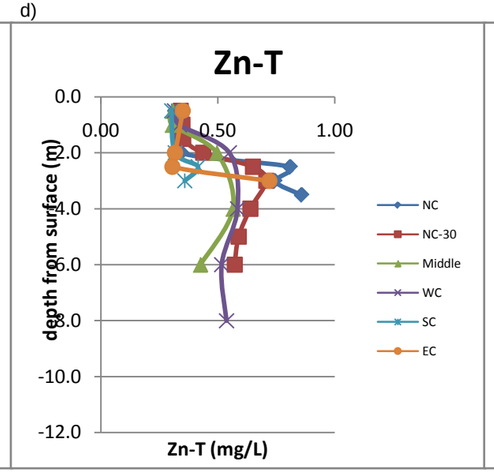
b)



c)



d)



e)

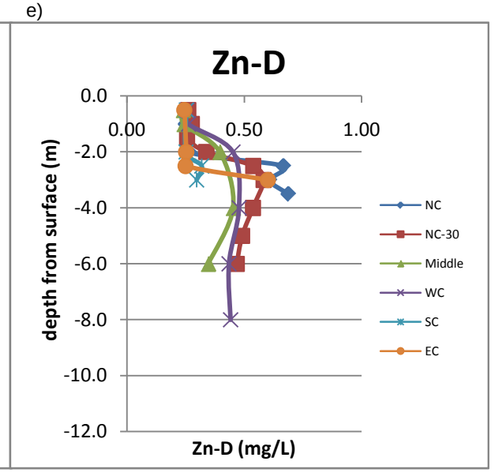


Table C-33 and Figure C-61
Cross Valley Pond Water Quality Profile
August 8, 2010

Note:
Method of Analysis: AAS

Table C-33

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:58 AM	15.5	7.80	1880	0.28	
-1.0	10:03 AM	15.4	7.68	1850	0.27	
-1.5	10:05 AM	15.4	7.64	1950	0.28	
-2.0	10:07 AM	15.5	7.62	1850	0.27	
-2.5	10:10 AM	15.5	7.56	1850	0.30	
-3.0	10:12 AM	15.6	7.12	2060	0.55	
-3.5	10:13 AM	15.2	6.62	2640	0.70	
-4.0	10:14 AM	14.5	6.52	2580	0.60	
-5.0	10:15 AM	11.8	6.44	2800	0.66	
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 5.7 m

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	11:15 AM	15.5	7.38	1830	0.27	
-1.0	11:16 AM	15.6	7.14	1830	0.28	
-1.5	11:17 AM	15.7	7.42	1840	0.27	
-2.0	11:18 AM	15.7	7.44	1840	0.27	
-2.5	11:20 AM	15.7	7.45	1840	0.28	
-3.0	11:21 AM	15.8	6.60	2390	0.66	
-3.5	11:22 AM	15.3	6.49	2580	0.62	
-4.0	11:24 AM	15.4	6.56	2300	0.59	
-5.0	11:25 AM	11.6	6.42	2800		
-6.0	11:26 AM	10.4	6.37	2910	0.55	
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 6.6 m

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-1.5						
-2.0						
-2.5						
-3.0						
-3.5						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:16 AM	15.3	7.35	1820	0.27	
-1.0	10:17 AM	15.4	7.42	1830	0.28	
-1.5	10:18 AM	15.5	7.44	1830	0.28	
-2.0	10:20 AM	15.5	7.46	1830	0.29	
-2.5	10:50 AM	15.5	7.44	1860	0.27	
-3.0	10:52 AM	15.7	6.74	2240	0.34	
-3.5	10:55 AM	15.2	6.56	2540	0.64	
-4.0	10:57 AM	14.4	6.50	2510	0.65	
-5.0	10:59 AM	11.6	6.45	2840	0.62	
-6.0	11:00 AM	10.2	6.40	2880	0.56	
-7.0	11:02 AM	9.0	6.36	2960		
-8.0	11:05 AM	9.0	6.41	2940	0.61	
-9.0						
-10.0						

Bottom @ 8.2 m

e) Site: WC

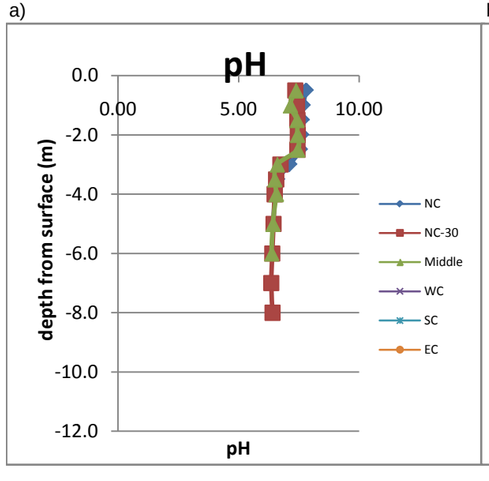
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-1.5						
-2.0						
-2.5						
-3.0						
-3.5						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

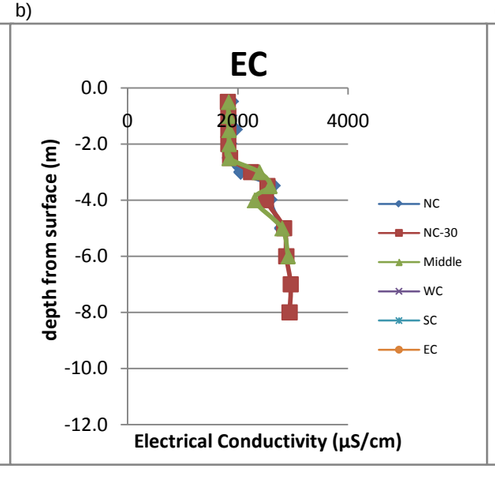
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-1.5						
-2.0						
-2.5						
-3.0						
-3.5						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-61

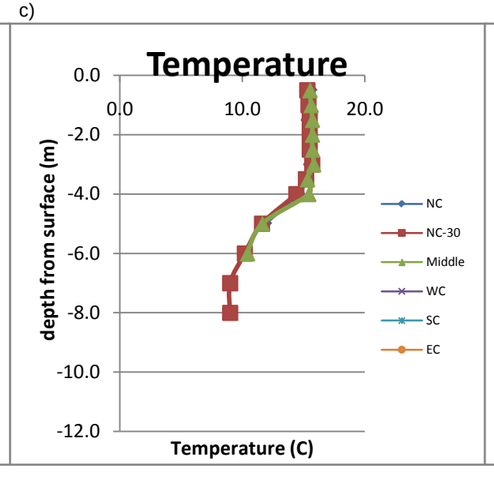
a)



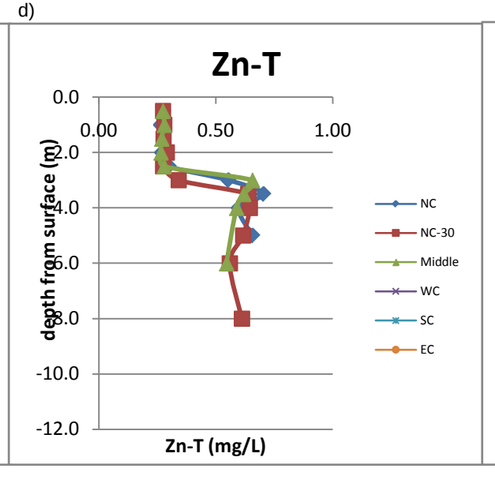
b)



c)



d)



e)

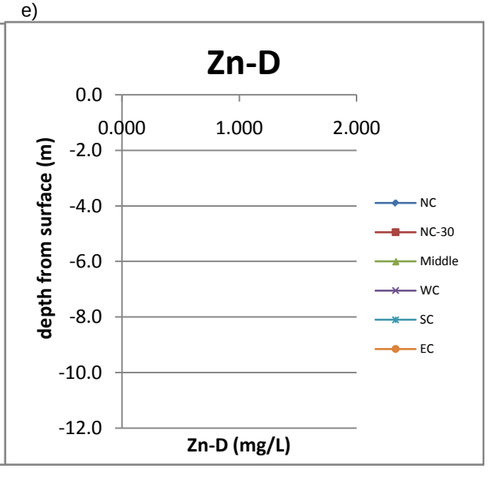


Table C-34 and Figure C-62
Cross Valley Pond Water Quality Profile
August 10, 2010

Note:
Method of Analysis: ICP-OES

Table C-34

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:15 AM	15.8	7.35	1584	0.218	
-1.0	10:20 AM	15.3	7.37	1574	0.213	
-2.0	10:20 AM	15.2	6.99	1595	0.444	
-3.0	10:25 AM	15.9	6.39	2284	0.179	
-4.0	10:30 AM	12.1	6.40	2349	0.191	
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 4.2 m

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:45 AM	16.2	7.22	1594	0.191	
-1.0	10:50 AM	17.8	7.37	1593	0.199	
-2.0	10:55 AM	16.2	7.34	1595	0.193	
-3.0	11:00 AM	17.1	6.31	2293	0.448	
-4.0	11:05 AM	14.1	6.31	2466	0.402	
-5.0	11:10 AM	15.3	6.27	2406		
-6.0	11:10 AM	11.5	6.23	2426	0.346	
-7.0	11:15 AM	11.4	6.26	2408		
-8.0	11:20 AM	9.8	6.28	2496	0.355	
-9.0	11:30 AM	9.8	6.23	2489		
-10.0						

Bottom @ 9.3 m

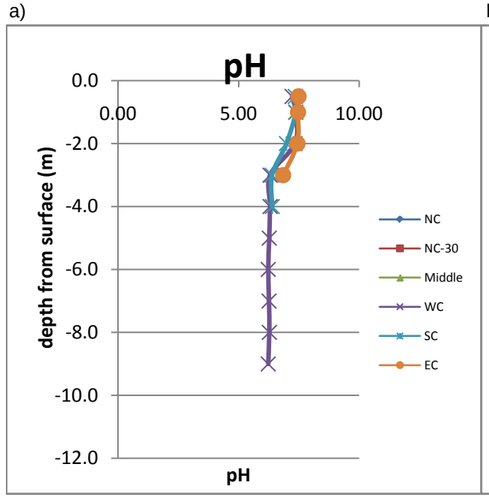
f) Site: EC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:55 AM	16.2	7.49	1564	0.183	
-1.0	10:00 AM	15.2	7.47	1576	0.195	
-2.0	10:05 AM	15.4	7.44	1578	0.224	
-3.0	10:05 AM	14.3	6.85	1797	0.381	
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

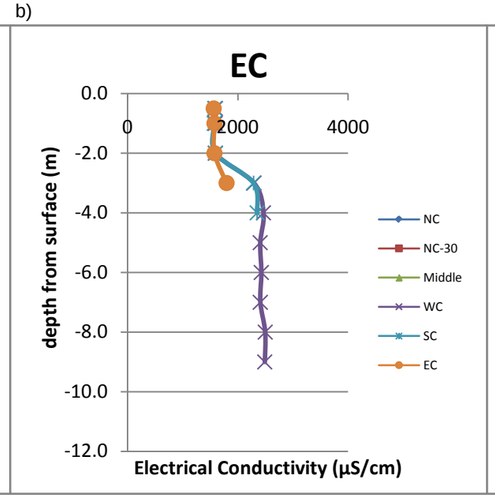
Sludge @ 4 m

Figure C-62

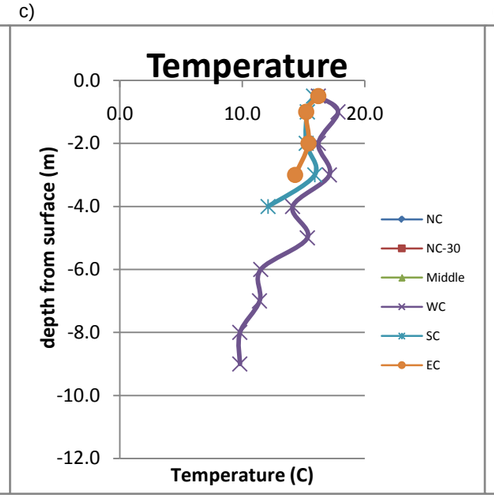
a)



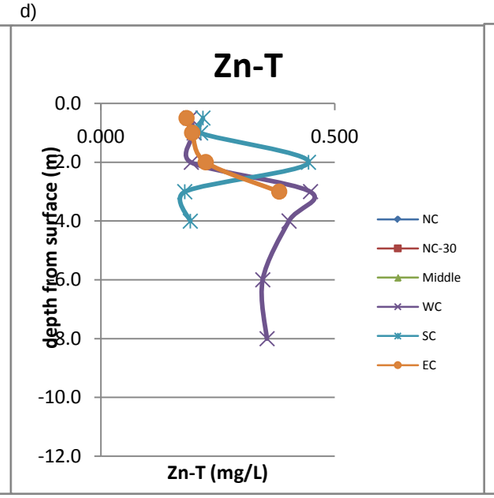
b)



c)



d)



e)

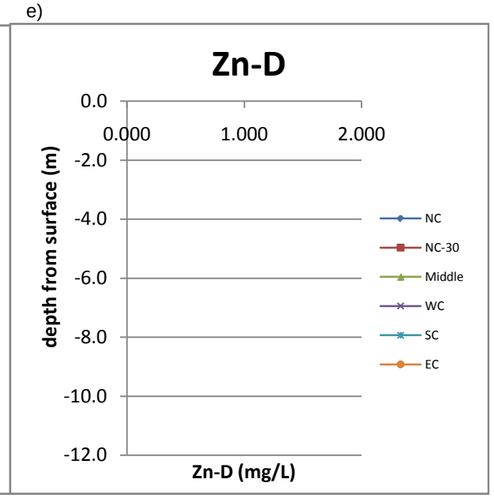


Table C-35 and Figure C-63
Cross Valley Pond Water Quality Profile
August 31, 2010

Note:
Method of Analysis: AAS

Table C-35

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:40 AM	10.6	7.13	1568	0.26	
-1.0	8:42 AM	10.7	7.23	1560	0.25	
-2.0	8:44 AM	10.8	7.33	1556	0.24	
-2.5	8:46 AM	11.5	6.63	2034	0.53	
-3.0	8:48 AM	11.6	6.51	2197	0.69	
-4.0	8:50 AM	11.4	6.39	2307	0.70	
-5.0	8:52 AM	10.1	6.41	2340	0.63	
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 5.9 m

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:00 AM	10.3	7.14	1576	0.24	
-1.0	9:02 AM	10.5	7.23	1583	0.25	
-2.0	9:04 AM	10.7	7.24	1572	0.24	
-2.5	9:06 AM	11.5	6.63	1948	0.46	
-3.0	9:08 AM	11.8	6.47	2207	0.62	
-4.0	9:10 AM	11.4	6.39	2276	0.58	
-5.0	9:12 AM	10.2	6.38	2237		
-6.0	9:14 AM	8.0	6.36	2385	0.52	
-7.0	9:16 AM	7.9	6.38	2490		
-8.0	9:18 AM	7.4	6.37	2505	0.55	
-9.0						
-10.0						

Bottom @ 8.9 m

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

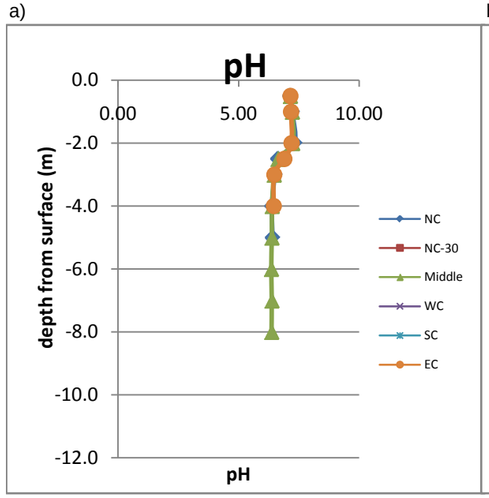
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

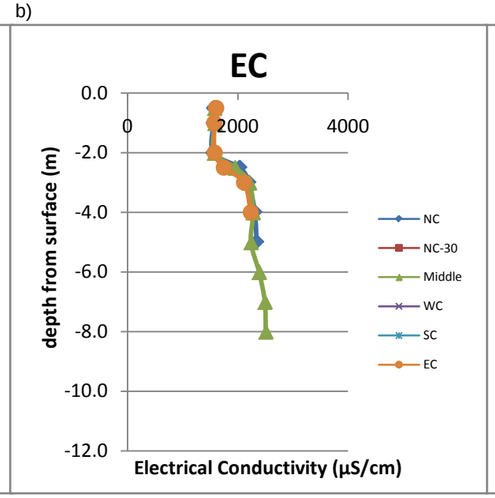
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:25 AM	10.5	7.15	1608	0.23	
-1.0	8:27 AM	10.6	7.18	1574	0.23	
-2.0	8:29 AM	10.5	7.20	1581	0.21	
-2.5	8:31 AM	10.3	6.90	1749	0.22	
-3.0	8:33 AM	11.2	6.48	2114	0.59	
-4.0	8:35 AM	10.6	6.46	2237	0.57	
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-63

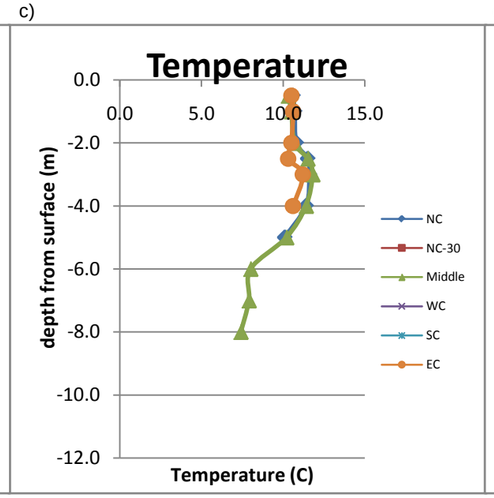
a)



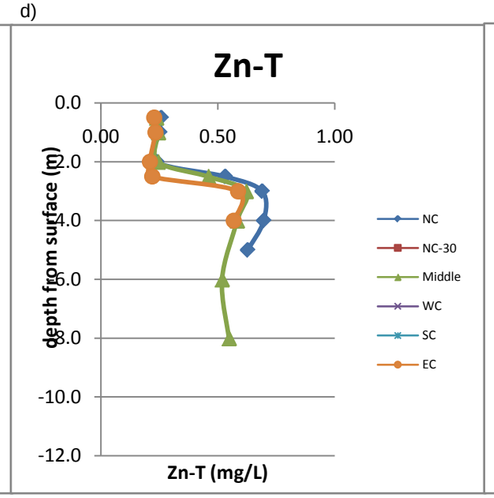
b)



c)



d)



e)

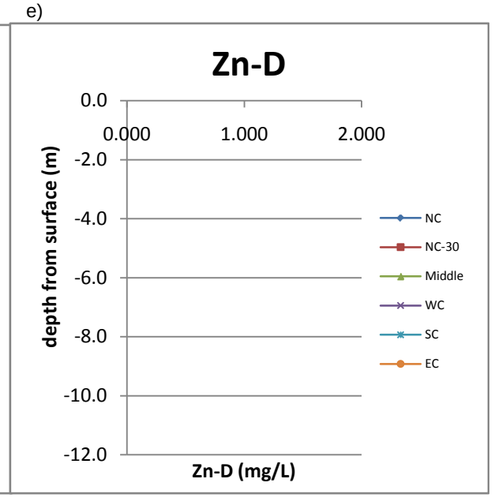


Table C-36 and Figure C-64
Cross Valley Pond Water Quality Profile
September 2, 2010

Note:
Method of Analysis: AAS

Table C-36

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:35 AM	9.8	7.53	1616	0.22	
-1.5	8:37 AM	9.6	7.54	1678	0.20	
-2.0	8:40 AM	10.0	7.52	1614	0.20	
-2.5	8:42 AM	10.7	6.66	2149	0.57	
-3.0	8:45 AM	11.3	6.50	2381	0.59	
-4.0	8:47 AM	9.6	6.55	2380	0.55	
-5.0	8:49 AM	9.0	6.44	2488		
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 5.6 m

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:54 AM	9.1	7.39	1636	0.20	
-1.5	8:56 AM	9.6	7.43	1688	0.23	
-2.0	8:58 AM	9.3	7.48	1688	0.23	
-2.5	9:02 AM	11.2	6.51	2299	0.62	
-3.0	9:00 AM	10.9	6.60	2247	0.62	
-4.0	9:04 AM	10.3	6.48	2392	0.62	
-5.0	9:06 AM	9.3	6.40	2524		
-6.0	9:08 AM	7.8	6.46	2547	0.51	
-7.0	9:10 AM	7.2	6.40	2564		
-8.0						
-9.0						
-10.0						

Bottom @ 7.7 m

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:42 AM	9.7	7.45	1710	0.21	
-1.5						
-2.0	9:40 AM	9.8	7.34	1717	0.21	
-2.5						
-3.0	9:38 AM	11.1	6.44	2289	0.59	
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 3.7 m

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:16 AM	9.2	7.49	1717	0.23	
-2.0	9:18 AM	9.1	7.37	1657	0.23	
-3.0	9:20 AM	10.8	6.49	2442		
-4.0	9:23 AM	10.4	6.53	2391	0.57	
-5.0	9:25 AM	9.2	6.41	2550		
-6.0	9:27 AM	8.0	6.39	2639	0.50	
-7.0	9:29 AM	8.0	6.43	2452		
-8.0	9:31 AM	7.7	6.51	2487	0.51	
-9.0	9:33 AM	6.9	6.41	2679		
-10.0						

Bottom @ 9.3 m

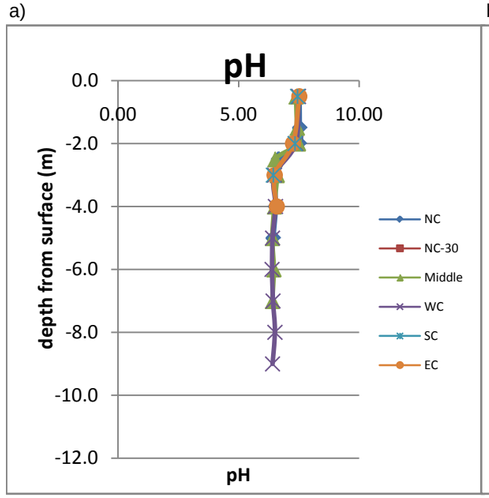
f) Site: EC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:47 AM	9.7	7.52	1732	0.22	
-2.0	9:49 AM	9.5	7.26	1673	0.23	
-3.0	9:51 AM	10.6	6.50	2403		
-4.0	9:54 AM	9.5	6.59	2361	0.50	
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

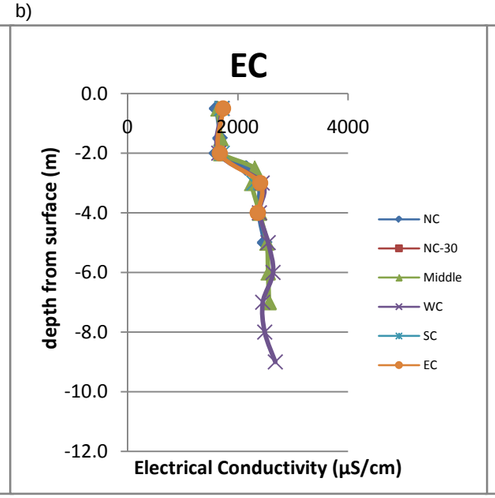
Bottom @ 4.6 m

Figure C-64

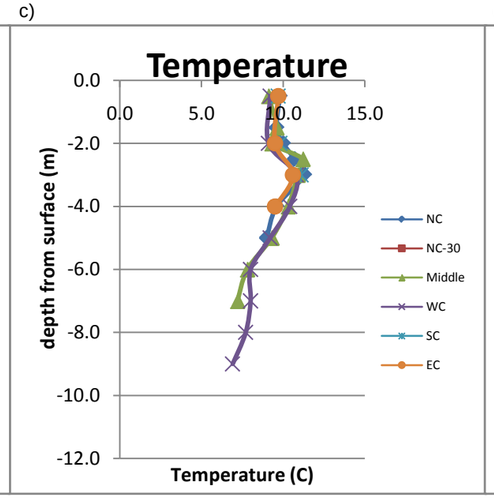
a)



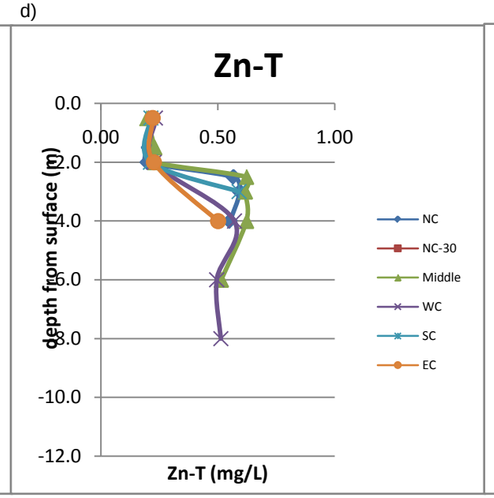
b)



c)



d)



e)

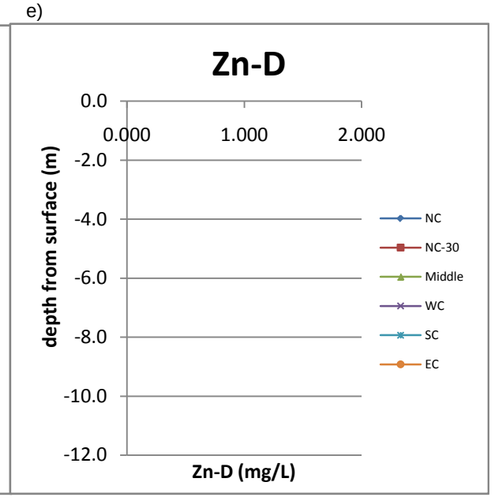


Table C-37 and Figure C-65
Cross Valley Pond Water Quality Profile
September 13, 2010

Note:
Method of Analysis: AAS

Table C-37

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:05 AM	8.4	7.47	1665	0.28	
-1.0	9:13 AM	8.7	7.31	1667	0.29	
-1.5	9:10 AM	8.2	7.28	1672	0.31	
-2.0	9:08 AM	10.2	6.61	2241	0.67	
-3.0	9:15 AM	10.3	6.50	2425	0.71	
-4.0	9:17 AM	9.5	6.41	2448	0.67	
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 5.6 m

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-1.5						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.0						
-1.5						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

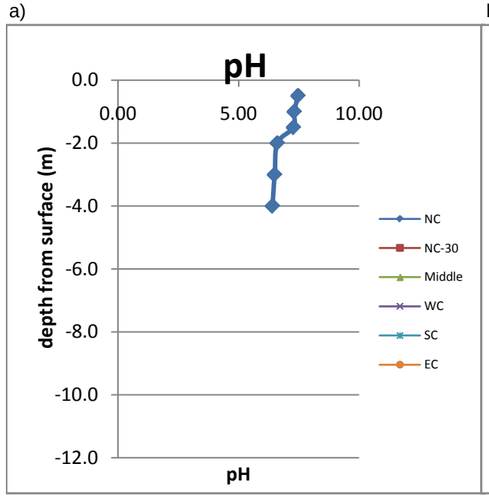
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

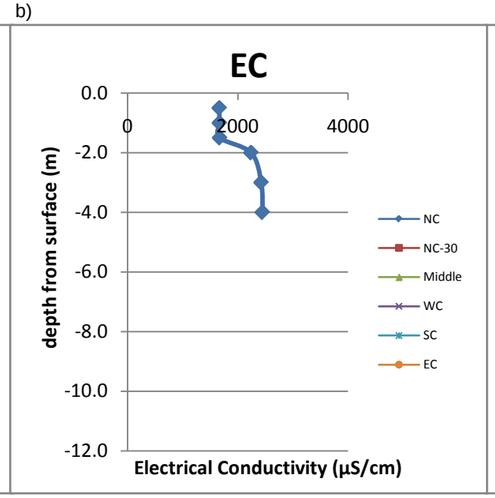
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-65

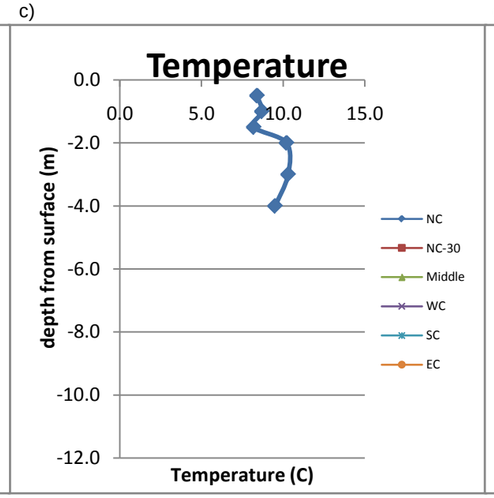
a)



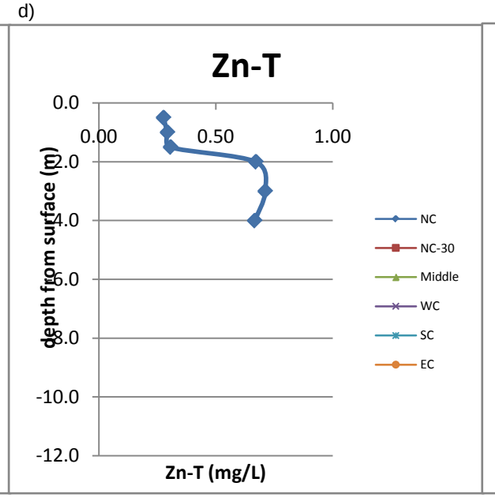
b)



c)



d)



e)

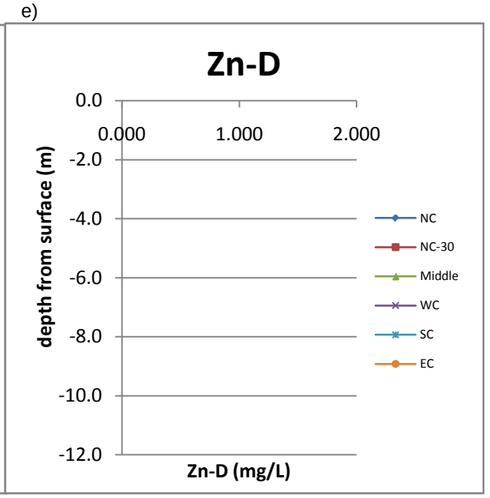


Table C-38 and Figure C-66
Cross Valley Pond Water Quality Profile
October 4, 2010

Note:
Method of Analysis: AAS

Table C-38

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:40 AM	3.3	7.23	1940	0.42	
-2.0	8:42 AM	2.9	7.21	1941	0.40	
-2.5	8:48 AM	5.0	6.48	2442	0.61	
-3.0	8:46 AM	4.7	6.56	2442		
-4.0	8:51 AM	5.9	6.42	2496	0.60	
-5.0	8:54 AM	6.8	6.37	2518	0.59	
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 5.5 m

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:00 AM	2.9	7.11	1973	0.42	
-2.0	9:02 AM	3.1	7.10	1967	0.44	
-2.5						
-3.0	9:04 AM	5.5	6.49	2490		
-4.0	9:07 AM	6.1	6.41	2531	0.64	
-5.0	9:09 AM	6.6	6.37	2552		
-6.0	9:10 AM	6.7	6.34	2584	0.60	
-7.0	9:12 AM	6.3	6.33	2645		
-8.0	9:14 AM	6.1	6.30	2684	0.62	
-9.0						
-10.0						

Bottom @ 8.2 m

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:26 AM	3.2	7.21	1993	0.38	
-2.0	9:28 AM	3.2	7.20	1999	0.39	
-2.5						
-3.0	9:30 AM	5.3	6.54	2539		
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 3.8 m

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:38 AM	3.0	7.25	2002	0.37	
-2.0	9:36 AM	3.0	7.22	2008	0.37	
-3.0	9:34 AM	5.8	6.39	2504		
-4.0	9:31 AM	6.2	6.37	2512	0.60	
-5.0	9:29 AM	7.0	6.35	2578		
-6.0	9:27 AM	6.7	6.36	2581	0.60	
-7.0	9:25 AM	6.4	6.38	2630		
-8.0	9:21 AM	6.1	6.40	2649	0.62	
-9.0	9:19 AM	5.8	6.42	2674		
-10.0						

Bottom @ 9.2 m

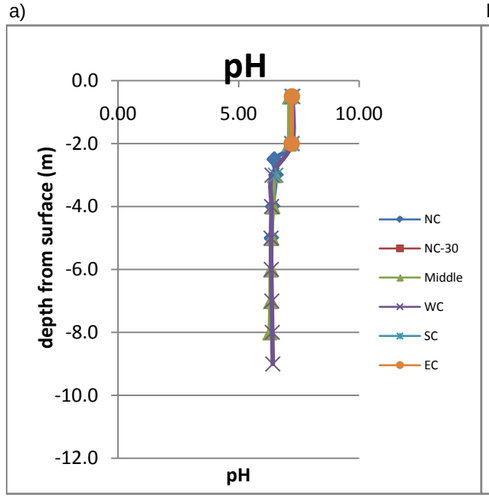
f) Site: EC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:42 AM	2.8	7.21	2008	0.38	
-2.0	9:40 AM	2.8	7.20	2011	0.40	
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

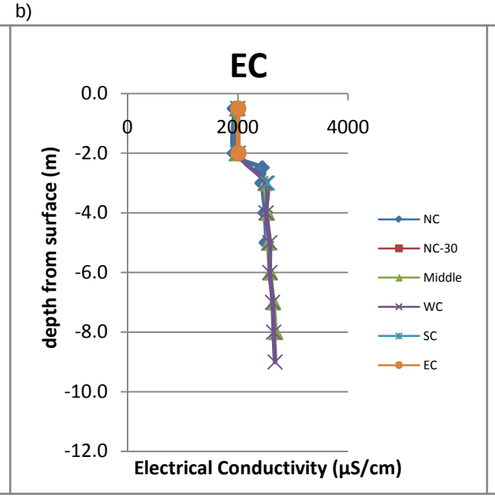
Bottom @ 3.0 m (Sludgy)

Figure C-66

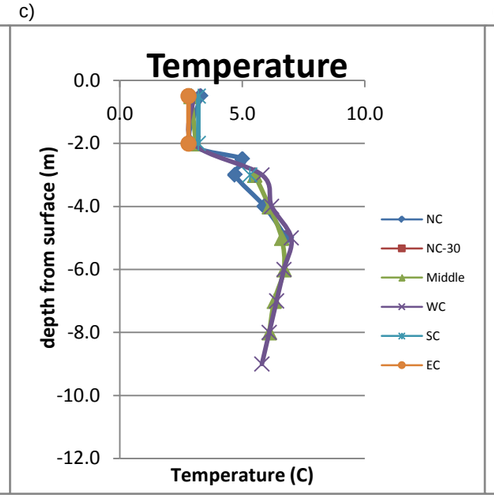
a)



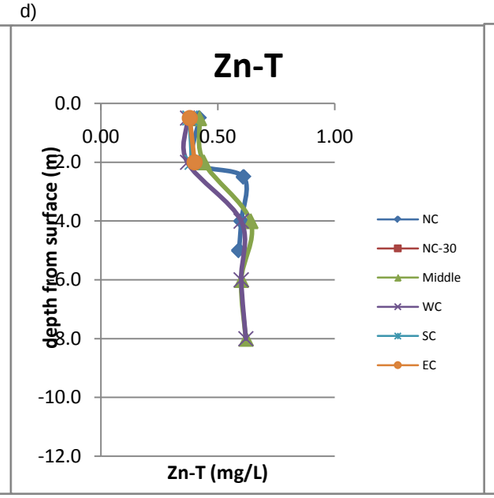
b)



c)



d)



e)

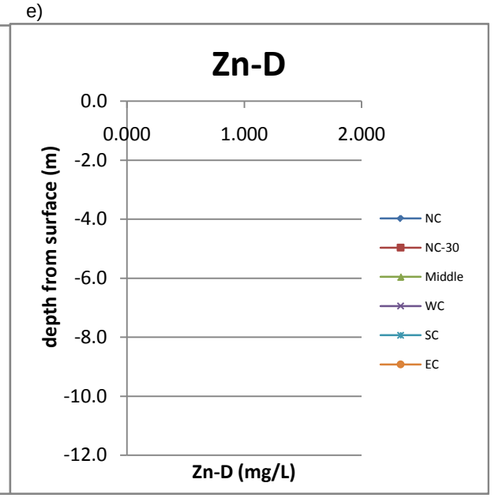


Table C-39 and Figure C-67
Cross Valley Pond Water Quality Profile
October 21, 2010

Note:
Method of Analysis: ICP-OES

Table C-39

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	3:27 PM	1.6	7.54		0.306	
-1.5	3:30 PM	1.6	7.56		0.314	
-2.0	3:33 PM	1.9	7.61		0.305	
-2.5	3:36 PM	2.6	7.22		0.312	
-3.0	3:39 PM	5.6	6.68		0.481	
-4.0	3:42 PM	5.5	6.70		0.484	
-5.0	3:45 PM	5.6	6.57		0.484	
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 6.0 m

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

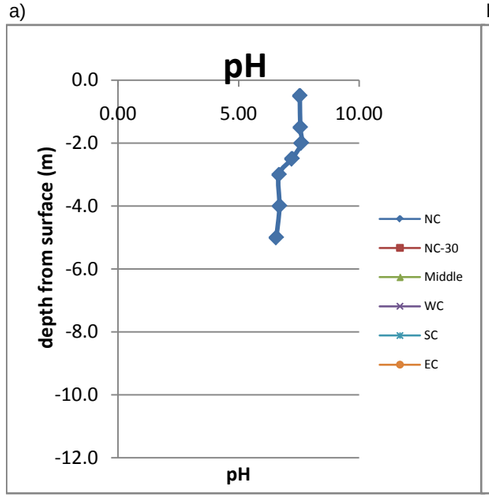
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

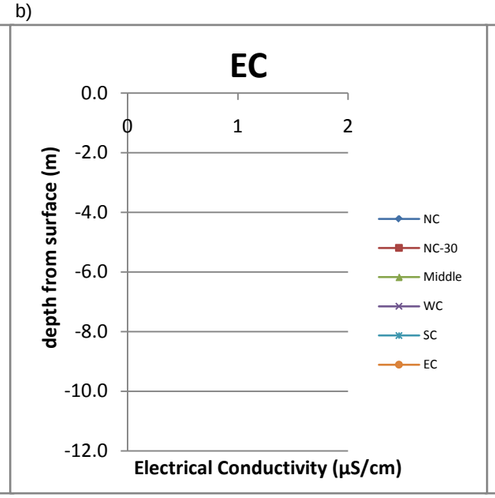
Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-67

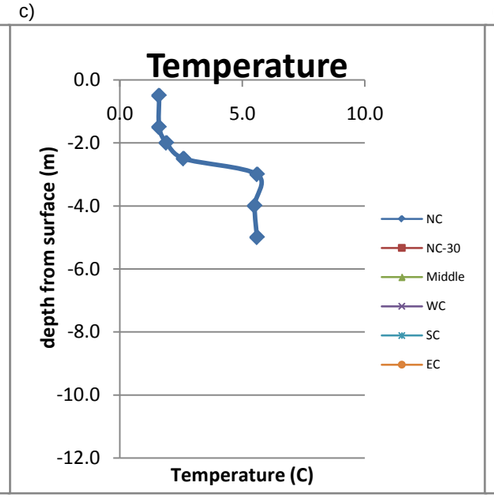
a)



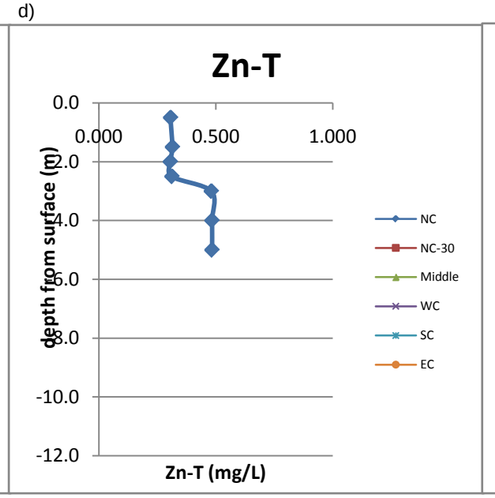
b)



c)



d)



e)

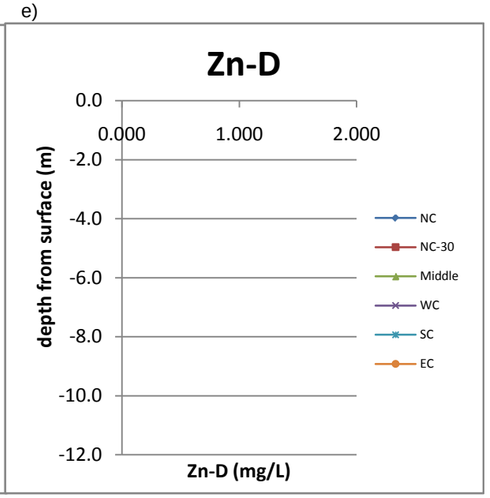


Table C-40 and Figure C-68
Cross Valley Pond Water Quality Profile
November 15, 2010

Note:
Method of Analysis: ICP-OES

Table C-40

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	8:45 AM	0.0	7.81	2123	0.267	
-2.0	8:47 AM	0.2	7.67	2122	0.273	
-2.5	8:52 AM	1.7	7.10	2249	0.288	
-3.0	8:49 AM	2.8	7.20	2433	0.3379	
-4.0	8:50 AM	3.2	7.14	2493	0.387	
-5.0	8:55 AM	3.4	6.94	2552	0.327	
-6.0	9:00 AM	4.2	6.73	2595	0.313	
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 6.5 m

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:35 AM	0.0	7.90	2189	0.287	
-2.0	10:40 AM	0.2	7.67	2129	0.261	
-2.5	10:42 AM	1.6	7.54	2175	0.271	
-3.0	10:44 AM	2.8	7.18	2318	0.332	
-4.0	10:45 AM	3.8	6.95	2508	0.370	
-5.0	10:46 AM	4.0	6.75	2520		
-6.0	10:48 AM	4.5	6.63	2575	0.335	
-7.0	10:50 AM	4.4	6.48	2609		
-8.0						
-9.0						
-10.0						

Bottom @ 7.3 m

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	11:03 AM	0.1	7.65	2078	0.255	
-2.0	11:05 AM	0.9	7.49	2077	0.263	
-2.5						
-3.0	11:06 AM	3.0	7.20	2366		
-4.0	11:08 AM	3.9	6.75	2551	0.275	
-5.0	11:10 AM	4.0	6.71	2486		
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	9:20 AM	0.0	7.36	2115	0.262	
-2.0	9:25 AM	1.1	7.36	2095	0.262	
-3.0	9:27 AM	2.9	6.91	2448	0.327	
-4.0	9:30 AM	4.1	6.73	2578	0.314	
-5.0	9:31 AM	4.9	6.51	2584		
-6.0	9:32 AM	4.4	6.46	2627	0.303	
-7.0	9:33 AM	4.9	6.38	2645		
-8.0	9:34 AM	4.6	6.36	2709	0.301	
-9.0	9:35 AM	4.8	6.31	2710		
-10.0						

Bottom @ 9.8 m

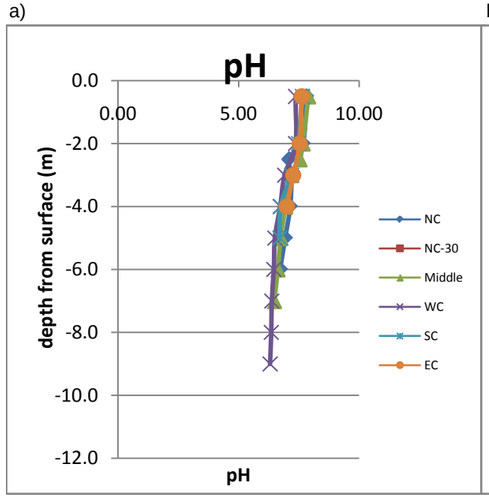
f) Site: EC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:00 AM	0.0	7.62	2137	0.287	
-2.0	10:03 AM	0.8	7.54	2117	0.264	
-3.0	10:05 AM	2.1	7.27	2389		
-4.0	10:07 AM	2.9	7.00	2508	0.345	
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

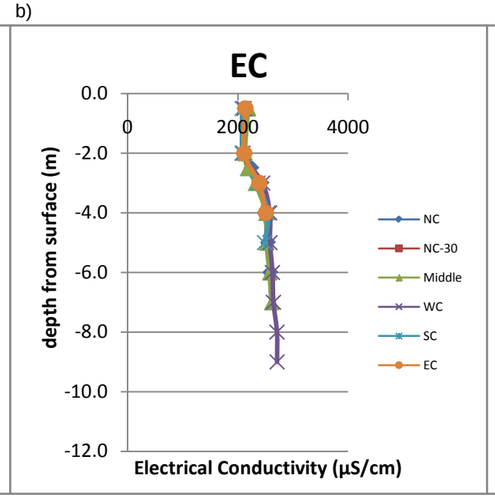
Bottom @ 4.3 m

Figure C-68

a)



b)



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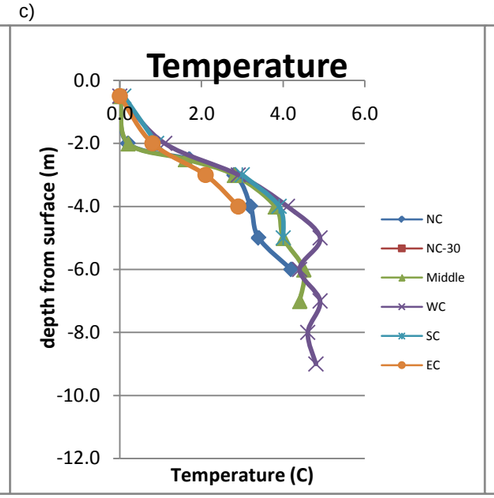
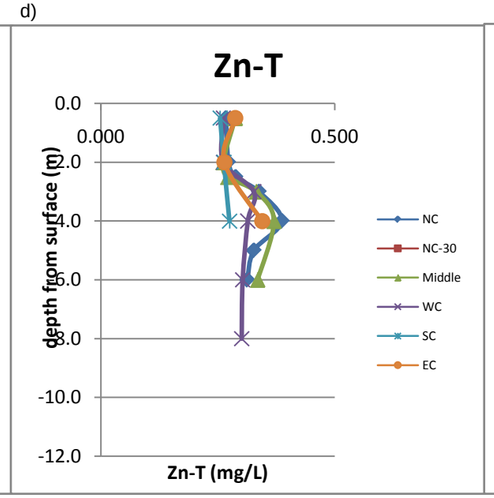


d)



e)

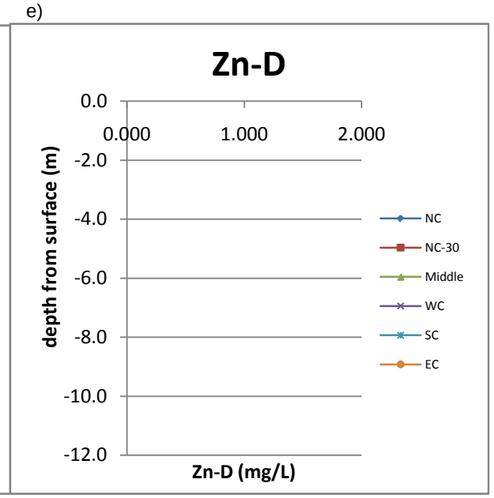


Table C-41 and Figure C-69
Cross Valley Pond Water Quality Profile
November 18, 2010

Note:
Method of Analysis: ICP-OES

Table C-41

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:10 AM	0.0			0.294	
-2.0	10:11 AM	0.3			0.278	
-3.0						
-4.0						
-5.0						
-6.0	10:12 AM	3.7			0.312	
-7.0						
-8.0						
-9.0						
-10.0						

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:15 AM	0.0			0.272	
-2.0	10:16 AM	1.3			0.270	
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0	10:18 AM	3.4			0.372	
-9.0						
-10.0						

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-2.0						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

f) Site: EC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-1.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Figure C-69

a) b) c) d) e)

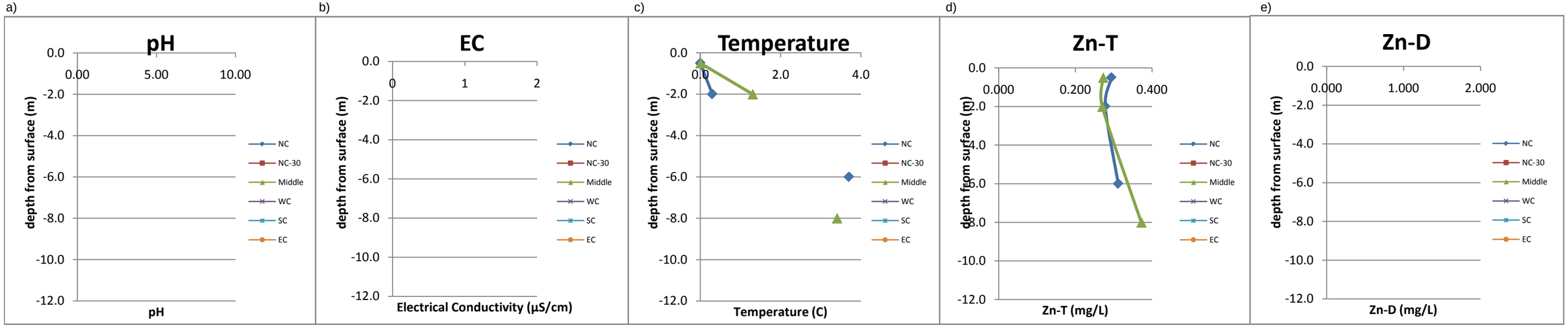


Table C-42 and Figure C-70
Cross Valley Pond Water Quality Profile
November 30, 2010

Note:
Method of Analysis: ICP-OES

Table C-42

a) Site: NC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	11:39 AM	<0.0	7.53	2255	0.274	
-1.0	11:41 AM	<0.0	7.57	2240		
-1.5	11:43 AM	<0.0	7.68	2262		
-2.0	11:45 AM	0.2	7.61	2252	0.271	
-2.5	11:47 AM	0.4	7.32	2379	0.273	
-3.0	11:49 AM	2.1	6.93	2654	0.334	
-4.0	11:51 AM	3.1	6.76	2692	0.333	
-5.0	11:53 AM	3.8	6.64	2784		
-6.0	11:55 AM	3.7	6.66	2766	0.338	
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 6.5 m

b) Site: Middle

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	11:11 AM	<0.0	7.37	2115	0.236	
-1.0						
-1.5						
-2.0	11:13 AM	0.1	7.50	2249	0.268	
-2.5	11:15 AM	1.2	7.25	2291		
-3.0	11:17 AM	2.9	6.76	2628		
-4.0	11:20 AM	3.8	6.67	2696	0.342	
-5.0	11:22 AM	4.0	6.63	2751		
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 5.1 m

c) Site: SC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	12:33 PM	<0.0	7.30	1940	0.243	
-1.0						
-1.5						
-2.0	12:37 PM	0.3	7.28	2220	0.277	
-2.5	12:40 PM	1.3	6.86	2350		
-3.0	12:42 PM	2.3	6.75	2510		
-4.0	12:43 PM	2.2	6.63	2700	0.273	
-5.0	12:46 PM	4.3	6.63	2739		
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

Bottom @ 5.1 m

d) Site: NC-30

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5						
-2.0						
-2.5						
-3.0						
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

e) Site: WC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	10:48 AM	<0.0	7.50	2118	0.233	
-2.0	10:50 AM	1.4	7.41	2244	0.267	
-2.5	10:52 AM	2.1	7.00	2416		
-3.0	10:54 AM	2.9	6.79	2558		
-4.0	10:56 AM	3.5	6.75	2712	0.292	
-5.0	10:57 AM	3.8	6.71	2695		
-6.0	10:59 AM	3.5	6.75	2734	0.296	
-7.0	11:00 AM	4.2	6.67	2764		
-8.0	11:02 AM	3.8	6.68	2730	0.295	
-9.0						
-10.0						

Bottom @ 8.9 m

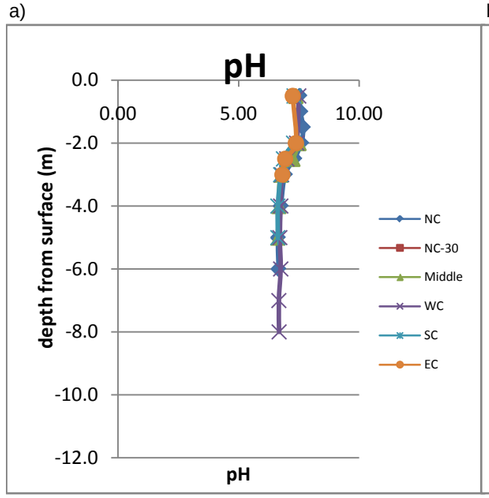
f) Site: EC

Δh	t	T	pH	EC (µS/cm)	Zn-T	Zn-D
-0.5	12:17 PM	<0.0	7.25	1904	0.092	
-2.0	12:19 PM	<0.0	7.38	2242	0.258	
-2.5	12:20 PM	1.0	6.93	2530		
-3.0	12:22 PM	1.1	6.82	2616		
-4.0						
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						

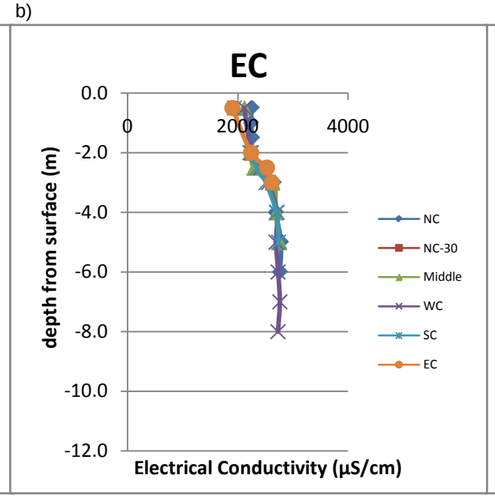
Bottom @ 3.3 m

Figure C-70

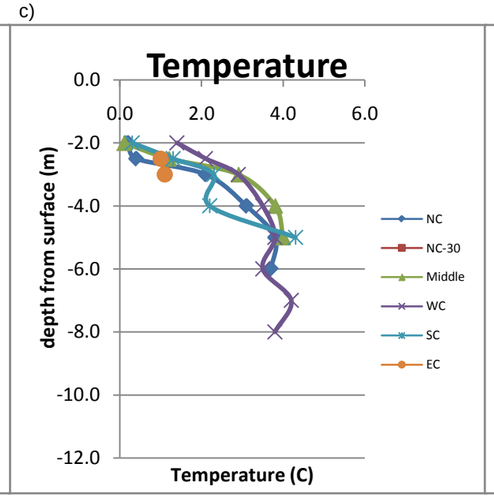
a)



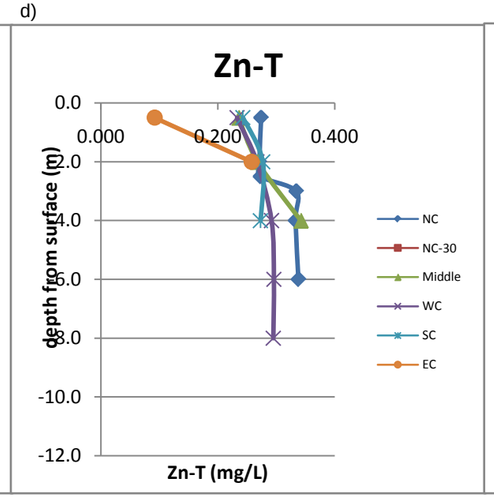
b)



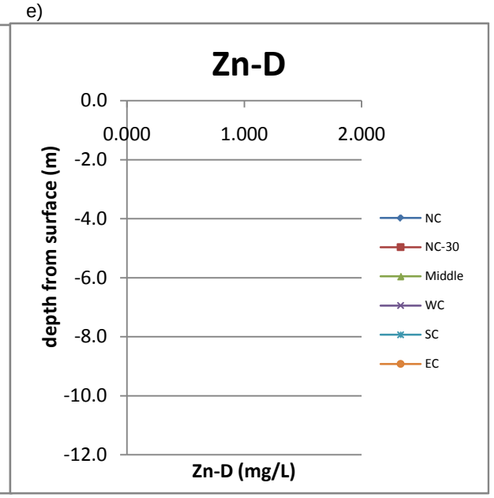
c)



d)



e)



Denison Environmental Services

Table C-43: Rose Creek Drainage Water Quality
2010 - Pit Lakes - General Parameters

Faro Mine Closure

Station	Date	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	Chlorophyll a µg/L	CO3 mg/L	COND µmho/cm	CONDF µmho/cm	DO mg/L	DO-% %	HCO3 mg/L	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	oPO4 mg/L	ORP mV	pH	pHF	SO4-d mg/L	TDS mg/L	TEMP-F °C	TSS mg/L
FL-1	**4/30/2010**	<0.5	30	69.00	<0.5	512	519	0.60	<5.0	<0.5	1090.0	1357.0	6.1	58	84.00	0.64	0.01	0.41	0.40	<0.5	<0.005	442	7.6	7.8	540.0	850.00	2	<1.0
	6/16/2010	<0.5	39	66.00	<0.5	672	666	1.10	<5.0	<0.5	1230.0	1237.0			81.00	0.99	<0.005	0.47	0.47	<0.5	<0.005	333	7.7	6.0	610.0	620.00	11	<4.0
	7/14/2010	<0.5	42	74.00	<0.5	612	674	1.40	<5.0	<0.5	1250.0	1245.0	9.8		90.00	0.91	0.01	0.51	0.50	<0.5	<0.005	303	7.6	7.7	600.0	970.00	14	<1.0
	8/12/2010	<0.5	29	77.00	<0.5	695	590	1.60	6	<0.5	1250.0				94.00	1.10	<0.005	0.50	0.50	<0.5	<0.005	348	7.6		610.0	1000.00		<1.0
	9/8/2010	<0.5	36	82.00	<0.5	614	623	1.50	8	<0.5	1310.0	1258.0	6.1	64	100.00	1.20	0.01	0.50	0.49	<0.5	<0.005	349	7.8	7.6	650.0	1100.00	11	<1.0
FL-1 Average		0	35	73.60	0	621	614	1.24	4	0.25	1226.0	1274.3	7.3	61	89.80	0.97	0.01	0.48	0.47	0	0.00	355	7.6	7.3	602.0	908.00	10	1
FL-1 Max		<0.5	42	82.00	<0.5	695	674	1.60	8	<0.5	1310.0	1357.0	9.8	64	100.00	1.20	0.01	0.51	0.50	<0.5	<0.005	442	7.8	7.8	650.0	1100.00	14	<4.0
FL-1 Min		<0.5	29	66.00	<0.5	512	519	0.60	<5.0	<0.5	1090.0	1237.0	6.1	58	81.00	0.64	<0.005	0.41	0.40	<0.5	<0.005	303	7.6	6.0	540.0	620.00	2	<1.0
FL-1 N > DL		0	5	5	0	5	5	5	2	0	5	4	3	2	5	5	3	5	5	0	0	5	5	4	5	5	4	0
FL-1 Median		<0.5	36	74.00	<0.5	614	623	1.40	<5.0	<0.5	1250.0	1251.5	6.1	61	90.00	0.99	0.01	0.50	0.49	<0.5	<0.005	348	7.6	7.7	610.0	970.00	11	<1.0
FL-15	**4/30/2010**	<0.5	30	89.00	<0.5	668	670	1.30		<0.5	1360.0	1372.0	5.3	46	110.00	1.10	0.01	0.44	0.43	<0.5	<0.005	426	7.6	7.9	710.0	1100.00	3	<1.0
	6/16/2010	<0.5	38	74.00	<0.5	744	737	1.50		<0.5	1350.0	1232.0			90.00	1.20	<0.005	0.47	0.47	<0.5	<0.005	485	7.6	6.6	710.0	760.00	8	<4.0
	7/14/2010	<0.5	42	94.00	<0.5	699	748	1.70		<0.5	1390.0	1533.0	10.0		120.00	1.20	0.01	0.47	0.47	<0.5	<0.005	314	7.6	7.6	650.0	1200.00	5	<1.0
	8/12/2010	<0.5	34	88.00	<0.5	764	677	1.90		<0.5	1370.0				110.00	1.30	<0.005	0.47	0.47	<0.5	<0.005	347	7.7		710.0	1100.00		<1.0
	9/8/2010	<0.5	35	86.00	<0.5	702	710	2.10		<0.5	1410.0	1350.0	10.9	102	110.00	1.50	<0.005	0.45	0.45	<0.5	<0.005	348	7.6	7.4	730.0	1100.00	6	<1.0
FL-15 Average		0	36	86.20	0	715	708	1.70		0.25	1376.0	1371.8	8.7	74	108.00	1.26	0.00	0.46	0.46	0	0.00	384	7.6	7.4	702.0	1052.00	5	1
FL-15 Max		<0.5	42	94.00	<0.5	764	748	2.10		<0.5	1410.0	1533.0	10.9	102	120.00	1.50	0.01	0.47	0.47	<0.5	<0.005	485	7.7	7.9	730.0	1200.00	8	<4.0
FL-15 Min		<0.5	30	74.00	<0.5	668	670	1.30		<0.5	1350.0	1232.0	5.3	46	90.00	1.10	<0.005	0.44	0.43	<0.5	<0.005	314	7.6	6.6	650.0	760.00	3	<1.0
FL-15 N > DL		0	5	5	0	5	5	5	0	0	5	4	3	2	5	5	2	5	5	0	0	5	5	4	5	5	4	0
FL-15 Median		<0.5	35	88.00	<0.5	702	710	1.70		<0.5	1370.0	1361.0	10.0	74	110.00	1.20	<0.005	0.47	0.47	<0.5	<0.005	348	7.6	7.5	710.0	1100.00	5	<1.0
FL-3	**4/30/2010**	<0.5	26	89.00	<0.5	660	667	1.30	<5.0	<0.5	1350.0	1357.0	7.2	59	110.00	1.00	0.01	0.45	0.45	<0.5	<0.005	432	7.7	8.1	690.0	1100.00	2	<1.0
	6/16/2010	<0.5	37	63.00	<0.5	656	661	1.10	<5.0	<0.5	1220.0	1238.0			76.00	1.00	<0.005	0.47	0.47	<0.5	<0.005	330	7.7	6.0	630.0	610.00	11	<4.0
	7/14/2010	<0.5	40	81.00	<0.5	609	680	1.10	<5.0	<0.5	1260.0	1245.0	9.9		99.00	0.89	0.01	0.50	0.49	<0.5	<0.005	303	7.6	7.6	600.0	990.00	14	<1.0
	8/12/2010	<0.5	26	78.00	<0.5	703	601	1.50	11	<0.5	1240.0				96.00	1.20	0.01	0.51	0.51	<0.5	<0.005	337	7.7		570.0	1000.00		<1.0
	9/8/2010	<0.5	35	81.00	<0.5	641	681	1.50	<0.5	<0.5	1320.0	1257.0	5.7	60	99.00	1.10	0.01	0.51	0.50	<0.5	<0.005	347	7.7	7.8	690.0	1100.00	11	<1.0
FL-3 Average		0	33	78.40	0	654	658	1.30	4	0.25	1278.0	1274.3	7.6	60	96.00	1.04	0.01	0.49	0.48	0	0.00	350	7.7	7.4	636.0	960.00	9	1
FL-3 Max		<0.5	40	89.00	<0.5	703	681	1.50	11	<0.5	1350.0	1357.0	9.9	60	110.00	1.20	0.01	0.51	0.51	<0.5	<0.005	432	7.7	8.1	690.0	1100.00	14	<4.0
FL-3 Min		<0.5	26	63.00	<0.5	609	601	1.10	<0.5	<0.5	1220.0	1238.0	5.7	59	76.00	0.89	<0.005	0.45	0.45	<0.5	<0.005	303	7.6	6.0	570.0	610.00	2	<1.0
FL-3 N > DL		0	5	5	0	5	5	5	1	0	5	4	3	2	5	5	4	5	5	0	0	5	5	4	5	5	4	0
FL-3 Median		<0.5	35	81.00	<0.5	656	667	1.30	<5.0	<0.5	1260.0	1251.0	7.2	60	99.00	1.00	0.01	0.50	0.49	<0.5	<0.005	337	7.7	7.7	630.0	1000.00	11	<1.0
FL-30	**4/30/2010**	<0.5	13	93.00	<0.5	725	756	6.50		<0.5	1460.0	1544.0	1.4	13	110.00	1.40	<0.005	<0.02	<0.02	<0.5	<0.005	4	7.3	7.4	760.0	1200.00	4	33
	6/16/2010	<0.5	25	93.00	<0.5	691	705	6.30		<0.5	1480.0	1233.0			110.00	1.60	<0.005	<0.02	<0.02	<0.5	<0.005	195	8.0	6.6	780.0	930.00	5	39
	7/14/2010	<0.5	20	100.00	<0.5	754	770	6.80		<0.5	1510.0	1564.0	1.6		130.00	1.70	<0.005	<0.02	<0.02	<0.5	<0.005	112	7.1	7.0	730.0	1200.00	5	25
	8/12/2010	<0.5	19	95.00	<0.5	750	726	6.40		<0.5	1490.0				120.00	2.10	<0.005	<0.02	<0.02	<0.5	<0.005	141	7.3		810.0	1200.00		37
	9/8/2010	<0.5	20	93.00	<0.5	761	821	6.70		<0.5	1530.0	1513.0	1.5	14	110.00	2.00	<0.005	<0.02	<0.02	<0.5	<0.005	159	7.4	7.2	800.0	1300.00	5	35
FL-30 Average		0	19	94.80	0	736	756	6.54		0.25	1494.0	1463.5	1.5	13	116.00	1.76	0.00	0.01	0.01	0	0.00	122	7.4	7.0	776.0	1166.00	5	34
FL-30 Max		<0.5	25	100.00	<0.5	761	821	6.80		<0.5	1530.0	1564.0	1.6	14	130.00	2.10	<0.005	<0.02	<0.02	<0.5	<0.005	195	8.0	7.4	810.0	1300.00	5	39
FL-30 Min		<0.5	13	93.00	<0.5	691	705	6.30		<0.5	1460.0	1233.0	1.4	13	110.00	1.40	<0.005	<0.02	<0.02	<0.5	<0.005	4	7.1	6.6	730.0	930.00	4	25
FL-30 N > DL		0	5	5	0	5	5	5	0	0	5	4	3	2	5	5	0	0	0	0	0	5	5	4	5	5	4	5
FL-30 Median		<0.5	20	93.00	<0.5	750	756	6.50		<0.5	1490.0	1528.5	1.5	13	110.00	1.70	<0.005	<0.02	<0.02	<0.5	<0.005	141	7.3	7.1	780.0	1200.00	5	35
FL-5	**4/30/2010**	<0.5	29	85.00	<0.5	656	677	1.40	<5.0	<0.5	1360.0	1366.0	6.2	53	100.00	1.00	0.01	0.45	0.44	<0.5	<0.005	428	7.6	8.1	700.0	1100.00	2	<1.0
	6/16/2010	<0.5	34	61.00	<0.5	671	643	1.20	11	<0.5	1230.0	1238.0			75.00	0.94	<0.005	0.47	0.47	<0.5	<0.005	490	7.7	6.3	620.0	610.00	11	<4.0
	7/14/2010	<0.5	38	71.00	<0.5	631	685	1.20	<5.0	<0.5	1240.0	1247.0	11.1		86.00	0.92	0.01	0.49	0.48	<0.5	<0.005	300	7.5	7.4	610.0	1000.00	13	<1.0
	8/12/2010	<0.5	26	79.00	<0.5	699	596	1.50	17	<0.5	1250.0				96.00	1.10	0.01	0.51	0.50	<0.5	<0.005	337	7.7		600.0	1000.00		<1.0
	9/8/2010	<0.5	32	76.00	<0.5	653	667	1.60	2	<0.5	1300.0	1261.0	9.8	101	93.00	1.30	0.01	0.51	0.50	<0.5	<0.005	346	7.7	7.7	660.0	1100.00	11	<1.0
FL-5 Average		0	32	74.40	0	662	654	1.38	7	0.25	1276.0	1278.0	9.0	77	90.00	1.05	0.01	0.49	0.48	0	0.00	380	7.6	7.4	638.0	962.00	9	1
FL-5 Max		<0.5	38	85.00	<0.5	699	685	1.60	17	<0.5	1360.0	1366.0	11.1	101	100.00	1.30	0.01	0.51	0.50	<0.5	<0.005	490	7.7	8.1	700.0	1100.00	13	<4.0
FL-5 Min		<0.5	26	61.00	<0.5	631	596	1.20	2	<0.5	1230.0	1238.0	6.2	53	75.00	0.92	<0.005	0.45	0.44	<0.5	<0.005	300	7.5	6.3	600.0	610.00	2	<1.0
FL-5 N > DL		0	5	5	0	5	5	5	3	0	5	4	3	2	5	5	4	5	5	0	0	5	5	4	5	5	4	0
FL-5 Median		<0.5	32	76.00	<0.5	656	667	1.40	<5.0	<0.5	1250.0	1254.0	9.8	77	93.00	1.00	0.01	0.49	0.48	<0.5	<0.005	346	7.7	7.5	620.0	1000.00	11	<1.0
FL-60	**4/30/2010**	<0.5	12	99.00	<0.5	766	779	6.70		<0.5	1480.0	1544.0	1.7	15	120.00	1.50	<0.005	0.03	0.03	<0.5	<0.005	156	7.3	7.5	790.0	1200.00	4	35
	6/16/2010	<0.5	21	94.00	<0.5	706	788	5.90		<0.5	1510.0	1551.0			120.00	1.80	0.01	<0.02	<0.02	<0.5	<0.005	180	8.0	6.5	780.0	950.00	5	59
	7/14/2010	<0.5	23	100.00	<0.5	756	764	6.70		<0.5	1540.0	1588.0	0.0		130.00	1.80	<0.005	<0.02	<0.02	<0.5	<0.005	123	7.2	6.9	760.0	1200.00	5	30
	8/12/2010	<0.5	24	96.00	<0.5	761	736	6.40		<0.5	1500.0				120.00	2.10	<0.005	<0.02	<0.02	<0.5	<0.005	155	7.3		800.0	1300.00		36
	9/8/2010	<0.5	21	95.00	<0.5	828	826	6.40		<0.5	1540.0	1522.0	2.5	23	120.00	2.10	<0.005	<0.02	<0.02	<0.5	<0.005	141	7.3	7.1	780.0	1300.00	5	36
FL-60 Average		0	20	96.80	0	763	779	6.42		0.25	1514.0	1551.3	1.4	19	122.00	1.86	0.00	0.01	0.01	0	0.00	151	7.4	7.0	782.0	1190.00	5	39
FL-60 Max		<0.5	24	100.00	<0.5	828	826	6.70		<0.5	1540.0	1588.0	2.5	23	130.00	2.10	0.01	0.03	0.03	<0.5	<0.005	180	8.0	7.5	800.0	1300.00	5	59
FL-60 Min		<0.5	12	94.00	<0.5	706	736	5.90		<0.5	1480.0	1522.0	0.0	15	120.00	1.50	<0.005	<0.02	<0.02	<0.5	<0.005	123	7.2	6.5	760.0	950.00	4	30
FL-60 N > DL		0	5	5	0	5	5	5	0	0	5	4	3	2	5	5	1	1	1	0	0	5	5	4	5	5	4	5
FL-60 Median		<0.5	21	96.00	<0.5	761	779	6.40		<0.5	1510.0	1547.5	1.7	19	120.00	1.80	<0.005	<0.02	<0.02	<0.5	<0.005	155	7.3	7.0	780.0	1200.00	5	36
FL-80	**4/30/2010**	<0.5	11	100.00	<0.5	780	812	6.40		<0.5	1550.0	1616.0	0.9	8	130.00	2.00	<0.005	0.09	0.09	<0.5	<0.005	128	7.3	7.5	810.0	1200.00	5	35
	6/16/2010	<0.5	8	100.00	<0.5	901	805	5.90		<0.5	1560.0	1617.0			120.00	2.20	<0.005	<0.02	<0.02	<0.5	<0.005	185	8.0	6.5	830.0	990.00	5	33
	7/14/2010	<0.5	24	110.00	<0.5	775	828	6.80		<0.5	1570.0	1613.0	0.0		140.00	2.20	<0.005	<0.02	<0.02	<0.5	<0.005	126	7.0	6.7	780.0	1300.00	5	36
	8/12/2010	<0.5	21	100.00	<0.5	798	747	6.10		<0.5	1480.0				120.00	2.40	<0.005	<0.02	<0.02	<0.5	<0.005	129	7.3		820.0	1300.00		33
	9/8/2010	<0.5	25	100.00	<0.5	934	808	6.00		<0.5	1590.0	1584.0	3.3	31	130.00	2.40	<0.005	<0.02	<0.02	<0.5	<0.005	119	7.3	7.0	810.0	1300.00	6	42
FL-80 Average		0	18	102.00	0	838	800	6.24		0.25	1550.0	1607.5	1.4	19	128.00	2.24	0.00	0.03	0.03	0	0.00	137	7.4	6.9	810.0	1218.00	5	36
FL-80 Max		<0.5	25	110.00	<0.5	934	828	6.80		<0.5	1590.0	1617.0	3.3	31	140.00	2.40	<0.005	0.09	0.09	<0.5	<0.005	185	8.0	7.5	830.0	1300.00	6	42
FL-80 Min		<0.5	8	100.00	<0.5	775	747	5.90		<0.5	1480.0	1584.0	0.0	8	120.00	2.00	<0.005	<0.02	<0.02	<0.5	<0.005	119	7.0	6.5	780.0	990.00	5	33
FL-80 N > DL		0	5	5	0	5	5	5	0	0	5	4	3	2	5	5	0	1	1	0	0	5	5	4	5	5	4	5
FL-80 Median		<0.5	21	100.00	<0.5	798	808	6.10		<0.5	1560.0	1614.5	0.9	19	130.00	2.20	<0.005	<0.02	<0.02	<0.5	<0.005	128	7.3	6.9	810.0	1300.00	5	35

Denison Environmental Services

Table C-44: Rose Creek Drainage Water Quality
2010 - Pit Lakes - Dissolved Metals

Faro Mine Closure

Station	Date	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
FL-1	4/30/2010	<0.03	21.00	<0.1	18.400	<300.0	0.18	<0.03	112.00	18.70	39.4000	<0.5	18.3000	7.00	5.40	0.046	58.10	2190.000	0.40	12.20	104.000	0.8000	0.20	179	<0.2	5030.00	<0.05	441.00	<3.0	0.20	1.0500	<1.0	18800.000	<0.5
	6/16/2010	<0.03	4.00	<0.1	16.400	<300.0	0.06	<0.03	143.00	17.40	51.3000	<0.5	9.1000	<5.0	8.00	0.057	75.00	2990.000	0.50	19.00	129.000	0.1400	0.30	210	<0.2	4000.00	<0.05	591.00	<3.0	0.45	1.2700	<1.0	21400.000	<0.5
	7/14/2010	0.0160	3.80	0.20	16.300	<50.0	0.04	<0.005	146.00	16.00	53.4000	<0.1	6.5400	35.00	8.01	0.054	75.40	2990.000	0.56	19.00	129.000	3.9400	0.26	249	0.1300	3960.00	<0.01	620.00	<0.5	0.43	1.2200	<0.2	18000.000	<0.1
	8/12/2010	<0.03	3.00	0.20	16.300	<300.0	<0.05	<0.03	127.00	16.60	50.8000	<0.5	5.6000	10.00	7.10	0.058	66.30	2940.000	0.50	16.20	131.000	0.4100	0.30	212	<0.2	2880.00	<0.05	570.00	<3.0	0.45	1.1000	<1.0	20600.000	<0.5
	9/8/2010	<0.03	4.00	0.20	15.600	<300.0	0.06	<0.03	128.00	15.90	50.5000	<0.5	5.1000	18.00	7.30	0.058	73.60	2930.000	0.60	17.50	128.000	0.2600	0.20	226	<0.2	3550.00	<0.05	605.00	4.00	0.49	1.0400	<1.0	21400.000	<0.5
FL-1 Average		0.0152	7.16	0.14	16.600	125.00	0.07	0.01	131.20	16.92	49.0800	0.21	8.9280	14.50	7.16	0.055	69.68	2808.000	0.51	16.78	124.200	1.1100	0.25	215	0.1060	3884.00	0.02	565.40	1.75	0.40	1.1360	0.42	20040.000	0.21
FL-1 Max		<0.03	21.00	0.20	18.400	<300.0	0.18	<0.03	146.00	18.70	53.4000	<0.5	18.3000	35.00	8.01	0.058	75.40	2990.000	0.60	19.00	131.000	3.9400	0.30	249	<0.2	5030.00	<0.05	620.00	4.00	0.49	1.2700	<1.0	21400.000	<0.5
FL-1 Min		0.0160	3.00	<0.1	15.600	<50.0	0.04	<0.005	112.00	15.90	39.4000	<0.1	5.1000	<5.0	5.40	0.046	58.10	2190.000	0.40	12.20	104.000	0.1400	0.20	179	0.1300	2880.00	<0.01	441.00	<0.5	0.20	1.0400	<0.2	18000.000	<0.1
FL-1 N > DL		1	5	3	5	0	4	0	5	5	5	0	5	4	5	5	5	5	5	5	5	5	5	5	1	5	0	5	1	5	5	0	5	0
FL-1 Median		<0.03	4.00	0.20	16.300	<300.0	0.06	<0.03	128.00	16.60	50.8000	<0.5	6.5400	10.00	7.30	0.057	73.60	2940.000	0.50	17.50	129.000	0.4100	0.26	212	<0.2	3960.00	<0.05	591.00	<3.0	0.45	1.1000	<1.0	20600.000	<0.5
FL-15	4/30/2010	<0.03	18.00	0.20	16.200	<300.0	<0.05	<0.03	148.00	15.30	52.8000	<0.5	5.3000	6.00	8.40	0.059	72.80	3210.000	0.60	18.70	131.000	0.2900	0.30	240	<0.2	3710.00	<0.05	614.00	<3.0	0.39	1.1300	<1.0	19800.000	<0.5
	6/16/2010	<0.03	9.00	0.20	16.600	<300.0	<0.05	<0.03	153.00	16.90	57.8000	<0.5	8.1000	<5.0	9.80	0.065	86.20	3650.000	0.60	23.00	146.000	0.0900	0.30	240	<0.2	3300.00	<0.05	667.00	<3.0	0.48	1.0600	<1.0	23700.000	<0.5
	7/14/2010	0.0180	3.50	0.18	16.000	<50.0	0.06	<0.005	155.00	14.70	64.8000	<0.1	0.1500	16.00	9.49	0.064	87.80	3590.000	0.59	23.20	158.000	0.1140	0.28	293	0.1200	3440.00	<0.01	693.00	<0.5	0.46	1.2200	<0.2	19900.000	<0.1
	8/12/2010	<0.03	6.00	0.20	16.700	<300.0	0.09	<0.03	150.00	15.90	59.3000	<0.5	<0.3	7.00	8.60	0.065	73.60	3560.000	0.50	19.50	150.000	0.1800	0.30	232	<0.2	2710.00	<0.05	625.00	<3.0	0.45	1.1600	<1.0	22400.000	<0.5
	9/8/2010	<0.03	7.00	0.20	14.800	<300.0	0.06	<0.03	153.00	16.80	58.9000	<0.5	4.0000	8.00	8.90	0.061	79.90	3610.000	0.40	20.90	147.000	0.1100	0.30	277	<0.2	3700.00	<0.05	620.00	<3.0	0.45	0.9100	<1.0	23000.000	<0.5
FL-15 Average		0.0156	8.70	0.20	16.060	125.00	0.05	0.01	151.80	15.92	58.7200	0.21	3.5400	7.90	9.04	0.063	80.06	3524.000	0.54	21.06	146.400	0.1568	0.30	256	0.1040	3372.00	0.02	643.80	1.25	0.45	1.0960	0.42	21760.000	0.21
FL-15 Max		<0.03	18.00	0.20	16.700	<300.0	0.09	<0.03	155.00	16.90	64.8000	<0.5	8.1000	16.00	9.80	0.065	87.80	3650.000	0.60	23.20	158.000	0.2900	0.30	293	<0.2	3710.00	<0.05	693.00	<3.0	0.48	1.2200	<1.0	23700.000	<0.5
FL-15 Min		0.0180	3.50	0.18	14.800	<50.0	<0.05	<0.005	148.00	14.70	52.8000	<0.1	0.1500	<5.0	8.40	0.059	72.80	3210.000	0.40	18.70	131.000	0.0900	0.28	232	0.1200	2710.00	<0.01	614.00	<0.5	0.39	0.9100	<0.2	19800.000	<0.1
FL-15 N > DL		1	5	5	5	0	3	0	5	5	5	0	4	4	5	5	5	5	5	5	5	5	5	5	1	5	0	5	0	5	5	0	5	0
FL-15 Median		<0.03	7.00	0.20	16.200	<300.0	0.06	<0.03	153.00	15.90	58.9000	<0.5	4.0000	7.00	8.90	0.064	79.90	3590.000	0.59	20.90	147.000	0.1140	0.30	240	<0.2	3440.00	<0.05	625.00	<3.0	0.45	1.1300	<1.0	22400.000	<0.5
FL-3	4/30/2010	<0.03	22.00	<0.1	17.000	<300.0	0.09	<0.03	148.00	17.20	53.0000	<0.5	2.0000	8.00	8.10	0.059	72.40	3090.000	0.60	18.30	131.000	0.5300	0.30	239	<0.2	4020.00	<0.05	609.00	<3.0	0.35	1.1900	<1.0	20600.000	1.30
	6/16/2010	<0.03	3.00	0.20	16.300	<300.0	0.06	<0.03	136.00	17.30	52.9000	<0.5	8.9000	65.00	8.20	0.057	78.40	3100.000	0.50	19.70	131.000	0.0700	0.30	211	<0.2	3660.00	<0.05	602.00	<3.0	0.44	1.2500	<1.0	22100.000	<0.5
	7/14/2010	0.0140	2.00	0.19	16.100	<50.0	0.04	<0.005	143.00	16.30	56.5000	<0.1	6.8500	16.00	8.04	0.055	78.40	3050.000	0.57	20.00	136.000	0.3100	0.24	265	0.1500	3770.00	<0.01	622.00	<0.5	0.43	1.2400	<0.2	18400.000	<0.1
	8/12/2010	<0.03	8.00	0.20	16.200	<300.0	0.06	<0.03	128.00	16.30	51.6000	<0.5	6.1000	19.00	7.30	0.057	68.10	3010.000	0.50	17.00	133.000	0.5900	0.20	227	<0.2	2770.00	<0.05	561.00	<3.0	0.45	1.0600	<1.0	21000.000	<0.5
	9/8/2010	<0.03	4.00	<0.1	14.900	<300.0	0.07	<0.03	143.00	15.70	51.6000	<0.5	5.4000	15.00	7.80	0.055	78.60	3060.000	0.60	18.70	136.000	0.2800	0.20	238	<0.2	4050.00	<0.05	584.00	<3.0	0.41	0.9700	<1.0	22200.000	<0.5
FL-3 Average		0.0148	7.80	0.14	16.100	125.00	0.06	0.01	139.60	16.56	53.1200	0.21	5.8500	24.60	7.89	0.057	75.18	3062.000	0.55	18.74	133.400	0.3560	0.25	236	0.1100	3654.00	0.02	595.60	1.25	0.42	1.1420	0.42	20860.000	0.42
FL-3 Max		<0.03	22.00	0.20	17.000	<300.0	0.09	<0.03	148.00	17.30	56.5000	<0.5	8.9000	65.00	8.20	0.059	78.60	3100.000	0.60	20.00	136.000	0.5900	0.30	265	<0.2	4050.00	<0.05	622.00	<3.0	0.45	1.2500	<1.0	22200.000	1.30
FL-3 Min		0.0140	2.00	<0.1	14.900	<50.0	0.04	<0.005	128.00	15.70	51.6000	<0.1	2.0000	8.00	7.30	0.055	68.10	3010.000	0.50	17.00	131.000	0.0700	0.20	211	0.1500	2770.00	<0.01	561.00	<0.5	0.35	0.9700	<0.2	18400.000	<0.1
FL-3 N > DL		1	5	3	5	0	5	0	5	5	5	0	5	5	5	5	5	5	5	5	5	5	5	5	1	5	0	5	0	5	5	0	5	1
FL-3 Median		<0.03	4.00	0.19	16.200	<300.0	0.06	<0.03	143.00	16.30	52.9000	<0.5	6.1000	16.00	8.04	0.057	78.40	3060.000	0.57	18.70	133.000	0.3100	0.24	238	<0.2	3770.00	<0.05	602.00	<3.0	0.43	1.1900	<1.0	21000.000	<0.5
FL-30	4/30/2010	<0.005	4.20	0.34	13.100	<50.0	0.07	0.01	193.00	0.13	38.2000	<0.1	0.2100	24300.00	13.70	0.065	66.70	3610.000	1.95	28.90	77.800	0.1390	0.04	282	0.1900	2880.00	<0.01	687.00	<0.5	0.21	3.4100	<0.2	4150.000	<0.1
	6/16/2010	<0.005	0.40	0.23	12.400	<50.0	0.06	<0.005	169.00	0.09	37.5000	<0.1	<0.05	19700.00	14.00	0.079	68.90	3610.000	1.42	30.20	76.100	<0.005	0.04	289	0.1700	2510.00	<0.01	696.00	<0.5	0.21	2.7400	<0.2	4120.000	<0.1
	7/14/2010	<0.005	3.00	0.32	12.400	<50.0	0.08	<0.005	192.00	0.10	40.5000	<0.1	0.0800	24300.00	14.00	0.071	70.50	3840.000	1.74	30.30	84.000	0.0490	0.05	302	0.1900	3080.00	<0.01	669.00	<0.5	0.20	3.1500	<0.2	4780.000	<0.1
	8/12/2010	<0.03	5.00	0.70	13.300	<300.0	0.06	<0.03	181.00	0.28	39.7000	<0.5	<0.3	25700.00	13.40	0.077	66.80	4050.000	1.50	27.40	89.800	0.2500	<0.1	249	<0.2	2210.00	<0.05	648.00	<3.0	0.23	3.3800	<1.0	6340.000	<0.5
	9/8/2010	<0.005	6.50	0.27	12.500	<50.0	0.07	<0.005	214.00	0.08	40.5000	<0.1	<0.05	27800.00	14.30	0.075	69.80	4120.000	1.66	29.80	84.000	0.0260	0.04	291	0.2000	3170.00	<0.01	674.00	<0.5	0.20	3.0200	<0.2	5610.000	<0.1
FL-30 Average		0.0050	3.82	0.37	12.740	50.00	0.07	0.01	189.80	0.14	39.2800	0.09	0.0980	24360.00	13.88	0.073	68.54	3846.000	1.65	29.32	82.340	0.0933	0.04	283	0.1700	2770.00	0.01	674.80	0.50	0.21	3.1400	0.18	5000.000	0.09
FL-30 Max		<0.03	6.50	0.70	13.300	<300.0	0.08	<0.03	214.00	0.28	40.5000	<0.5	<0.3	27800.00	14.30	0.079	70.50	4120.000	1.95	30.30	89.800	0.2500	<0.1	302	0.2000	3170.00	<0.05	696.00	<3.0	0.23	3.4100	<1.0	6340.000	<0.5
FL-30 Min		<0.005	0.40	0.23	12.400	<50.0	0.06	<0.005	169.00	0.08	37.5000	<0.1	<0.05	19700.00	13.40	0.065	66.70	3610.000	1.42	27.40	76.100	<0.005	0.04	249	0.1700	2210.00	<0.01	648.00	<0.5	0.20	2.7400	<0.2	4120.000	<0.1
FL-30 N > DL		0	5	5	5	0	5	1	5	5	5	0	2	5	5	5	5	5	5	5	5	4	4	5	4	5	0	5	0	5	5	0	5	0
FL-30 Median		<0.005	4.20	0.32	12.500	<50.0	0.07	<0.005	192.00	0.10	39.7000	<0.1	0.0800	24300.00	14.00	0.075	68.90	3840.000	1.66	29.80	84.000	0.0490	0.04	289	0.1900	2880.00	<0.01	674.00	<0.5	0.21	3.1500	<0.2	4780.000	<0.1
FL-5	4/30/2010	<0.03	14.00	<0.1	16.600	<300.0	0.07	<0.03	150.00	17.10	54.3000	<0.5	2.8000	7.00	8.30	0.059	73.80	3180.000	0.60	18.70	132.000	0.2300	0.30	251	<0.2	3950.00	<0.05	612.00	<3.0	0.39	1.1800	<1.0	20700.000	<0.5
	6/16/2010	<0.03	3.00	<0.1	15.700	<300.0	0.06	<0.03	136.00	16.90	49.4000	<0.5	12.0000	<5.0	7.60	0.054	73.50	2890.000	0.50	18.50	124.000	0.2100	0.30	209	<0.2	3840.00	<0.05	581.00	<3.0	0.44	1.2300	<1.0	20800.000	<0.5
	7/14/2010	0.0180	1.40	0.13	15.500	<50.0	0.04	<0.005	151.00	15.70	53.8000	<0.1	6.6700	11.00	7.54	0.055	74.90	2870.000	0.57	18.90	131.000	0.1960	0.26	250	0.1400	4030.00	<0.01	605.00	<0.5	0.42	1.2100	<0.2	17900.000	<0.1
	8/12/2010	<0.03	3.00	0.20	16.300	<300.0	<0.05	<0.03	129.00	16.90	50.2000	<0.5	5.5000	6.00	7.00	0.058	66.70	2950.000	0.50	16.30	129.000	0.4500	0.20	215	<0.2	2840.00	<0.05	557.00	<3.0	0.47	1.1200	<1.0	20500.000	<0.5
	9/8/2010	<0.03	5.00	<0.1	15.200	<300.0	<0.05	<0.03	138.00	16.60	53.4000	<0.5	5.6000	14.00	8.00	0.055	78.40	3100.000	0.90	18.70	138.000	0.3600	0.20	244	<0.2	3820.00	<0.05	578.00	<3.0	0.41	1.0100	<1.0	21900.000	<0.5
FL-5 Average		0.0156	5.28	0.10	15.860	125.00	0.04	0.01	140.80	16.64	52.2200	0.21	6.5140	8.10	7.69	0.056	73.46	2998.000	0.61	18.22	130.800	0.2892	0.25	234	0.1080	3696.00	0.02	586.60	1.25	0.43	1.1500	0.42	20360.000	0.21
FL-5 Max		<0.03	14.00	0.20	16.600	<300.0	0.07	<0.03	151.00	17.10	54.3000	<0.5	12.0000	14.00	8.30	0.059	78.40	3180.000	0.90	18.90	138.000	0.4500	0.30	251	<0.2	4030.00	<0.05	612.00	<3.0	0.47	1.2300	<1.0	21900.000	<0.5
FL-5 Min		0.0180	1.40	<0.1	15.200	<50.0	0.04	<0.005	129.00	15.70	49.4000	<0.1	2.8000	<5.0	7.00	0.054	66.70	2870.000	0.50	16.30	124.000	0.1960	0.20	209	0.1400	2840.00	<0.01	557.00	<0.5	0.39	1.0100	<0.2	17900.000	<0.1
FL-5 N > DL		1	5	2	5	0	3	0	5	5	5	0	5	4	5	5	5	5	5	5	5	5	5	5	1	5	0	5	0	5	5	0	5	0
FL-5 Median		<0.03	3.00	<0.1	15.700	<300.0	<0.05	<0.03	138.00	16.90	53.4000	<0.5	5.6000	7.00	7.60	0.055	73.80	2950.000	0.57	18.70	131.000	0.2300	0.26	244	<0.2	3840.00	<0.05	581.00	<3.0	0.42	1.1800	<1.0	20700.000	<0.5
FL-60	4/30/2010	<0.005	1.90	0.54	12.600	<50.0	0.06	<0.005	198.00	0.22	39.1000	<0.1	0.0800	25600.00	14.00	0.063	69.40	3750.000	1.74	29.60	80.700	0.0390	0.04	285	0.1600	2790.00	<0.01	692.00	<0.5	0.22	3.7500	<0.2	3970.000	<0.1
	6/16/2010	<0.005	7.20	0.44	12.400	<50.0	0.07	<0.005	191.00	0.57	40.3000	<0.1	0.8500	22000.00	14.50	0.082	75.30	3990.000	1.36	31.60	85.800	0.3630	0.05	305	0.1800	2990.00	<0.01	718.00	<0.5	0.21	3.1700	<0.2	5130.000	<0.1
	7/14/2010	<0.005	1.80	0.35	12.500	<50.0	0.07	<0.005	190.00	0.41	39.2000	<0.1	0.0900	24500.00	13.70	0.073	70.10	3900.000	1.64	29.50	85.100	0.1070	0.05	286	0.1700	2950.00	<0.01	684.00	<0.5	0.20	3.2400	<0.2	4970.000	<0.1
	8/12/2010	<0.03	4.00	0.40	13.500	<300.0	0.09	<0.03	183.00	0.39	41.3000	0.60	<0.3	25800.00	14.00	0.079	67.90	4260.000	1.40	28.50	94.000	0.3600	<0.1	270	<0.2	2210.00	<0.05	655.00	4.00	0.21	3.4200	<1.0	6170.000	<0.5
	9/8/2010	<0.005	3.50	0.50	12.400	<50.0	0.07	<0.005	202.00	0.24	44.8000	<0.1	<0.05	27000.00	15.80	0.074	78.00	4590.000	1.55	33.10	96.000	0.0240	0.04	323	0.1600	3010.00	<0.01	682.00	<0.5	0.20	3.1800	<0.2	5770.000	<0.1
FL-60 Average		0.0050	3.68	0.45	12.680	50.00	0.07	0.01	192.80	0.36	40.9400	0.16	0.2390	24980.00	14.40	0.074	72.14	4098.000	1.54	30.46	88.320	0.1786	0.05	294	0.1540	2790.00	0.01	686.20	1.00	0.21	3.3520	0.18	5202.000	0.09
FL-60 Max		<0.03	7.20	0.54	13.500	<300.0	0.09	<0.03	202.00	0.57	44.8000	0.60	0.8500	27000.00	15.80	0.082	78.00	4590.000	1.74	33.10	96.000	0.3630	<0.1	323	<0.2	3010.00	<0.05	718.00	4.00	0.22	3.7500	<1.0	6170.000	<0.5
FL-60 Min		<0.005	1.80	0.35	12.400	<50.0	0.06	<0.005	183.00	0.22	39.1000	<0.1	<0.05	22000.00	13.70	0.063	67.90	3750.000	1.36	28.50	80.700	0.0240	0.04	270	0.1600	2210.00	<0.01	655.00	<0.5	0.20	3.1700	<0.2	3970.000	<0.1
FL-60 N > DL		0	5	5	5	0	5	0	5	5	5	1	3	5	5	5	5	5	5	5	5	5	4	5	4	5	0	5	1	5	5	0	5	0
FL-60 Median		<0.005	3.50	0.44	12.500	<50.0	0.07	<0.005	191.00	0.39	40.3000	<0.1	0.0900	25600.00	14.00	0.074	70.10	3990.000	1.55	29.60	85.800	0.1070	0.05	286	0.1700	2950.00	<0.01	684.00	<0.5	0.21	3.2400	<0.2	5130.000	<0.1
FL-80	4/30/2010	<0.005	2.70	0.74	14.100	<50.0	0.06	<0.005	209.00	0.19	35.7000	<0.1	0.0600	30100.00	14.20	0.068	70.20	3780.000	1.41	30.60	81.300	0.0480	0.04	294	0.1100	2970.00	<0.01	768.00	<0.5	0.22	5.2100	<0.2	3480.000	<0.1
	6/16/2010	<0.005	2.60	0.83	13.400	<50.0	0.07	<0.005	203.00	0.03	33.9000	<0.1	0.1900	31000.00	14.60	0.085	72.60	3770.000	1.45	32.50	75.800	0.0180	0.04	302	0.1100	3070.00	<0.01	786.00	<0.5	0.20	4.9900	<0.2	3250.000	<0.1
	7/14/2010	0.0070	4.90	0.80	15.500	<50.0	0.07	<0.005	208.00	0.12	37.4000	<0.1	0.3700	30500.00	15.30	0.077	74.70	4060.000	1.43	32.90	83.400	1.1900	0.06	314	0.1200	3190.00	<0.01	773.00	<0.5	0.22	4.9500	<0.2	3650.000	<0.1
	8/12/2010	<0.03	9.00	0.70	15.400	<300.0	0.06	<0.03	193.00	0.15	35.0000	<0.5	<0.3	30400.00	13.90	0.082	64.40	3950.000	1.30	27.90	80.100	1.8300	<0.1	260	<0.2	2280.00	<0.05	708.00	<3.0	0.22	4.6400	<1.0	4170.000	<0.5
	9/8/2010	<0.005	3.60	0.92	14.300	<50.0	0.06	<0.005	198.00	0.10	38.0000	<0.1	<0.05	30000.00	15.90	0.079	76.30	4290.000	1.24	34.40	87.300	0.0300	0.03	328	0.0900	2840.00	<0.01	769.00	<0.5	0.21	4.6700	<0.2	4180.000	<0.1
FL-80 Average		0.0059	4.56	0.80	14.540	50.00	0.06	0.01	202.20	0.12	36.0000	0.09	0.1590	30400.00	14.78	0.078	71.64	3970.000	1.37	31.66	81.580	0.6232	0.04	300	0.1060	2870.00	0.01	760.80	0.50	0.21	4.8920	0.18	3746.000	0.09
FL-80 Max		<0.03	9.00	0.92	15.500	<300.0	0.07	<0.03	209.00	0.19	38.0000	<0.5	0.3700	31000.00	15.90	0.085	76.30	4290.000	1.45	34.40	87.300	1.8300	<0.1	328	<0.2	3190.00	<0.05	786.00	<3.0	0.22	5.2100	<1.0	4180.000	<0.5
FL-80 Min		<0.005	2.60	0.70	13.400	<50.0	0.06	<0.005	193.00	0.03	33.9000	<0.1	<0.05	30000.00	13.90	0.068	64.40	3770.000	1.24	27.90	75.800	0.0180	0.03	260	0.0900	2280.00	<0.01	708.00	<0.5	0.20	4.6400	<0.2	3250.000	<0.1
FL-80 N > DL		1	5	5	5	0	5	0	5	5	5	0	3	5	5	5	5	5	5	5	5	5	4	5	4	5	0	5	0	5	5	0	5	0
FL-80 Median		<0.005	3.60	0.80	14.300	<50.0	0.06	<0.005	203.00	0.12	35.7000	<0.1	0.1900	30400.00	14.60	0.079	72.60	3950.000	1.41	32.50	81.300	0.0480	0.04	302	0.1100	2970.00	<0.01	769.00	<0.5	0.22	4.9500	<0.2	3650.000	<0.1

NB: Metals reported in mg/L are shaded in grey.

Denison Environmental Services

Table C-45: Rose Creek Drainage Water Quality
2010 - Pit Lakes - Total Metals

Faro Mine Closure

		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Station	**Date**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
FL-1	**4/30/2010**	0.1500	24.00	0.200	<300.0	18.800	0.18	<0.03	109.00	18.70	39.8000	<0.5	21.3000	96.00	5.10	0.04	58.60	2150.000	0.60	12.50	110.000	<0.005	1.8100	169.00	0.20	<0.2	4650.00	<0.05	432.00	<3.0	0.21	1.0900	<1.0	19300.000	<0.5
	6/16/2010	<0.03	17.00	0.200	<300.0	17.200	0.09	<0.03	142.00	17.30	52.0000	<0.5	12.3000	116.00	8.30	0.06	76.80	3060.000	0.60	19.20	132.000	<0.005	1.3600	218.00	0.30	<0.2	3880.00	<0.05	600.00	<3.0	0.45	1.1800	<1.0	21800.000	<0.5
	7/14/2010	0.0140	11.60	0.220	<50.0	16.600	0.06	<0.005	121.00	16.30	52.2000	<0.1	12.7000	155.00	7.71	0.06	75.50	2920.000	0.48	18.30	129.000	<0.005	1.6700	239.00	0.25	0.1200	3460.00	0.02	592.00	<0.5	0.42	1.2600	<0.2	18200.000	<0.1
	8/12/2010	<0.03	10.00	<0.1	<300.0	17.400	<0.05	<0.03	148.00	18.20	53.1000	<0.5	7.4000	47.00	8.20	0.06	79.10	3150.000	0.50	19.10	138.000	<0.005	0.8500	260.00	0.20	<0.2	4530.00	<0.05	631.00	<3.0	0.47	0.9200	<1.0	21900.000	<0.5
	9/8/2010	<0.03	12.00	0.200	<300.0	16.300	0.07	<0.03	126.00	18.00	50.9000	0.60	6.4000	174.00	7.80	0.06	72.60	3020.000	0.60	17.90	128.000	<0.005	2.1300	244.00	0.90	<0.2	3460.00	<0.05	604.00	8.00	0.48	1.1300	<1.0	20300.000	<0.5
FL-1 Average		0.0418	14.92	0.174	125.00	17.260	0.09	0.01	129.20	17.70	49.6000	0.28	12.0200	117.60	7.42	0.05	72.52	2860.000	0.56	17.40	127.400	0.00	1.5640	226.00	0.37	0.1040	3996.00	0.02	571.80	2.55	0.41	1.1160	0.42	20300.000	0.21
FL-1 Max		0.1500	24.00	0.220	<300.0	18.800	0.18	<0.03	148.00	18.70	53.1000	0.60	21.3000	174.00	8.30	0.06	79.10	3150.000	0.60	19.20	138.000	<0.005	2.1300	260.00	0.90	<0.2	4650.00	<0.05	631.00	8.00	0.48	1.2600	<1.0	21900.000	<0.5
FL-1 Min		0.0140	10.00	<0.1	<50.0	16.300	<0.05	<0.005	109.00	16.30	39.8000	<0.1	6.4000	47.00	5.10	0.04	58.60	2150.000	0.48	12.50	110.000	<0.005	0.8500	169.00	0.20	0.1200	3460.00	0.02	432.00	<0.5	0.21	0.9200	<0.2	18200.000	<0.1
FL-1 N > DL		2	5	4	0	5	4	0	5	5	5	1	5	5	5	5	5	5	5	5	5	0	5	5	5	1	5	1	5	1	5	5	0	5	0
FL-1 Median		<0.03	12.00	0.200	<300.0	17.200	0.07	<0.03	126.00	18.00	52.0000	<0.5	12.3000	116.00	7.80	0.06	75.50	3020.000	0.60	18.30	129.000	<0.005	1.6700	239.00	0.25	<0.2	3880.00	<0.05	600.00	<3.0	0.45	1.1300	<1.0	20300.000	<0.5
FL-15	**4/30/2010**	0.0900	17.00	0.200	<300.0	15.800	0.07	<0.03	145.00	15.10	53.1000	<0.5	7.4000	23.00	8.10	0.06	74.20	3190.000	0.60	19.20	134.000	<0.005	0.3000	235.00	0.30	<0.2	3400.00	<0.05	608.00	<3.0	0.42	1.1400	<1.0	20300.000	<0.5
	6/16/2010	<0.03	16.00	<0.1	<300.0	16.900	0.07	<0.03	160.00	17.10	55.8000	<0.5	9.3000	62.00	9.50	0.06	83.80	3570.000	0.50	22.10	142.000	<0.005	0.5200	244.00	0.30	<0.2	3800.00	<0.05	655.00	<3.0	0.50	1.0600	<1.0	22900.000	<0.5
	7/14/2010	0.0130	10.30	0.180	<50.0	16.000	0.07	<0.005	141.00	16.20	61.4000	<0.1	3.9000	110.00	9.09	0.06	84.50	3460.000	0.54	21.80	152.000	<0.005	0.8520	272.00	0.29	0.1200	3540.00	<0.01	666.00	<0.5	0.45	1.2100	<0.2	19600.000	<0.1
	8/12/2010	<0.03	10.00	<0.1	<300.0	17.300	0.07	<0.03	165.00	17.20	61.8000	<0.5	2.4000	64.00	9.60	0.07	85.50	3720.000	0.50	21.90	156.000	<0.005	0.7300	288.00	0.30	<0.2	4310.00	<0.05	678.00	<3.0	0.49	0.9700	<1.0	22900.000	<0.5
	9/8/2010	<0.03	11.00	0.200	<300.0	15.700	<0.05	<0.03	152.00	17.60	56.7000	<0.5	5.5000	62.00	8.90	0.06	78.50	3430.000	0.50	20.50	141.000	<0.005	0.6600	262.00	0.30	<0.2	3470.00	<0.05	634.00	9.00	0.45	1.0700	2.00	20800.000	<0.5
FL-15 Average		0.0296	12.86	0.136	125.00	16.340	0.06	0.01	152.60	16.64	57.7600	0.21	5.7000	64.20	9.04	0.06	81.30	3474.000	0.53	21.10	145.000	0.00	0.6124	260.20	0.30	0.1040	3704.00	0.02	648.20	2.75	0.46	1.0900	0.72	21300.000	0.21
FL-15 Max		0.0900	17.00	0.200	<300.0	17.300	0.07	<0.03	165.00	17.60	61.8000	<0.5	9.3000	110.00	9.60	0.07	85.50	3720.000	0.60	22.10	156.000	<0.005	0.8520	288.00	0.30	<0.2	4310.00	<0.05	678.00	9.00	0.50	1.2100	2.00	22900.000	<0.5
FL-15 Min		0.0130	10.00	<0.1	<50.0	15.700	<0.05	<0.005	141.00	15.10	53.1000	<0.1	2.4000	23.00	8.10	0.06	74.20	3190.000	0.50	19.20	134.000	<0.005	0.3000	235.00	0.29	0.1200	3400.00	<0.01	608.00	<0.5	0.42	0.9700	<0.2	19600.000	<0.1
FL-15 N > DL		2	5	3	0	5	4	0	5	5	5	0	5	5	5	5	5	5	5	5	5	0	5	5	5	1	5	0	5	1	5	5	1	5	0
FL-15 Median		<0.03	11.00	0.180	<300.0	16.000	0.07	<0.03	152.00	17.10	56.7000	<0.5	5.5000	62.00	9.09	0.06	83.80	3460.000	0.50	21.80	142.000	<0.005	0.6600	262.00	0.30	<0.2	3540.00	<0.05	655.00	<3.0	0.45	1.0700	<1.0	20800.000	<0.5
FL-3	**4/30/2010**	0.1100	21.00	<0.1	<300.0	16.600	0.08	<0.03	144.00	17.10	53.9000	<0.5	6.6000	48.00	7.80	0.05	73.20	3020.000	0.60	18.50	134.000	<0.005	0.8900	235.00	0.30	<0.2	4160.00	<0.05	596.00	<3.0	0.36	1.2000	<1.0	21100.000	<0.5
	6/16/2010	<0.03	17.00	0.200	<300.0	16.200	0.09	<0.03	140.00	17.30	49.7000	<0.5	11.6000	108.00	7.80	0.06	74.30	2930.000	0.50	18.60	123.000	<0.005	1.0200	218.00	0.30	<0.2	3930.00	<0.05	587.00	<3.0	0.45	1.1600	<1.0	20800.000	<0.5
	7/14/2010	0.0130	7.60	0.140	<50.0	15.700	0.06	<0.005	121.00	15.80	52.1000	<0.1	8.7000	116.00	7.52	0.05	74.30	2840.000	0.52	18.20	130.000	<0.005	0.8530	231.00	0.24	0.1200	3510.00	<0.01	589.00	<0.5	0.42	1.2500	<0.2	17900.000	<0.1
	8/12/2010	<0.03	9.00	<0.1	<300.0	17.400	<0.05	<0.03	147.00	17.80	54.0000	<0.5	7.4000	42.00	8.40	0.06	81.40	3160.000	0.40	19.70	142.000	<0.005	0.7500	262.00	0.20	<0.2	4440.00	<0.05	621.00	<3.0	0.47	0.9200	<1.0	22300.000	<0.5
	9/8/2010	<0.03	11.00	0.200	<300.0	15.600	<0.05	<0.03	139.00	17.10	48.2000	<0.5	6.6000	172.00	7.50	0.06	71.20	2850.000	0.60	17.50	121.000	<0.005	1.7000	221.00	0.90	<0.2	3640.00	<0.05	585.00	8.00	0.43	1.1200	<1.0	19700.000	<0.5
FL-3 Average		0.0336	13.12	0.128	125.00	16.300	0.06	0.01	138.20	17.02	51.5800	0.21	8.1800	97.20	7.80	0.06	74.88	2960.000	0.52	18.50	130.000	0.00	1.0426	233.40	0.39	0.1040	3936.00	0.02	595.60	2.55	0.43	1.1300	0.42	20360.000	0.21
FL-3 Max		0.1100	21.00	0.200	<300.0	17.400	0.09	<0.03	147.00	17.80	54.0000	<0.5	11.6000	172.00	8.40	0.06	81.40	3160.000	0.60	19.70	142.000	<0.005	1.7000	262.00	0.90	<0.2	4440.00	<0.05	621.00	8.00	0.47	1.2500	<1.0	22300.000	<0.5
FL-3 Min		0.0130	7.60	<0.1	<50.0	15.600	<0.05	<0.005	121.00	15.80	48.2000	<0.1	6.6000	42.00	7.50	0.05	71.20	2840.000	0.40	17.50	121.000	<0.005	0.7500	218.00	0.20	0.1200	3510.00	<0.01	585.00	<0.5	0.36	0.9200	<0.2	17900.000	<0.1
FL-3 N > DL		2	5	3	0	5	3	0	5	5	5	0	5	5	5	5	5	5	5	5	5	0	5	5	5	1	5	0	5	1	5	5	0	5	0
FL-3 Median		<0.03	11.00	0.140	<300.0	16.200	0.06	<0.03	140.00	17.10	52.1000	<0.5	7.4000	108.00	7.80	0.06	74.30	2930.000	0.52	18.50	130.000	<0.005	0.8900	231.00	0.30	<0.2	3930.00	<0.05	589.00	<3.0	0.43	1.1600	<1.0	20800.000	<0.5
FL-30	**4/30/2010**	0.0070	9.10	0.430	<50.0	13.100	0.07	<0.005	184.00	0.29	37.7000	<0.1	1.3400	23400.00	12.90	0.06	64.50	3460.000	2.01	27.80	76.800	<0.005	0.4100	269.00	0.05	0.1800	2710.00	<0.01	669.00	<0.5	0.20	3.3600	<0.2	4220.000	<0.1
	6/16/2010	<0.005	13.70	0.390	<50.0	12.800	0.09	<0.005	162.00	0.30	37.9000	<0.1	1.6500	23600.00	14.30	0.08	69.70	3700.000	1.84	30.40	77.300	<0.005	0.5350	291.00	0.05	0.1300	2410.00	<0.01	705.00	<0.5	0.20	3.1300	<0.2	4320.000	<0.1
	7/14/2010	<0.005	8.70	0.350	<50.0	13.300	0.09	<0.005	179.00	0.23	41.4000	<0.1	1.2600	22600.00	14.80	0.07	74.50	4090.000	1.58	31.60	87.900	<0.005	0.4340	305.00	0.05	0.1700	3050.00	<0.01	707.00	<0.5	0.21	3.2700	<0.2	4980.000	<0.1
	8/12/2010	<0.03	8.00	0.600	<300.0	13.500	0.07	<0.03	189.00	0.49	37.7000	<0.5	<0.3	24900.00	13.30	0.08	67.70	4070.000	1.40	26.00	84.200	<0.005	0.4200	282.00	<0.1	<0.2	3190.00	<0.05	709.00	<3.0	0.24	3.3600	<1.0	6210.000	<0.5
	9/8/2010	<0.005	10.90	0.280	<50.0	13.300	0.06	<0.005	188.00	0.23	39.5000	<0.1	0.5200	24600.00	13.90	0.07	70.70	3800.000	1.78	29.90	82.700	<0.005	0.4240	293.00	0.05	0.1300	2720.00	<0.01	697.00	<0.5	0.21	3.5200	<0.2	5140.000	<0.1
FL-30 Average		0.0059	10.08	0.410	50.00	13.200	0.08	0.01	180.40	0.31	38.8400	0.09	0.9840	23820.00	13.84	0.07	69.42	3824.000	1.72	29.14	81.780	0.00	0.4446	288.00	0.05	0.1420	2816.00	0.01	697.40	0.50	0.21	3.3280	0.18	4974.000	0.09
FL-30 Max		<0.03	13.70	0.600	<300.0	13.500	0.09	<0.03	189.00	0.49	41.4000	<0.5	1.6500	24900.00	14.80	0.08	74.50	4090.000	2.01	31.60	87.900	<0.005	0.5350	305.00	<0.1	<0.2	3190.00	<0.05	709.00	<3.0	0.24	3.5200	<1.0	6210.000	<0.5
FL-30 Min		<0.005	8.00	0.280	<50.0	12.800	0.06	<0.005	162.00	0.23	37.7000	<0.1	<0.3	22600.00	12.90	0.06	64.50	3460.000	1.40	26.00	76.800	<0.005	0.4100	269.00	0.05	0.1300	2410.00	<0.01	669.00	<0.5	0.20	3.1300	<0.2	4220.000	<0.1
FL-30 N > DL		1	5	5	0	5	5	0	5	5	5	0	4	5	5	5	5	5	5	5	5	0	5	5	4	4	5	0	5	0	5	5	0	5	0
FL-30 Median		<0.005	9.10	0.390	<50.0	13.300	0.07	<0.005	184.00	0.29	37.9000	<0.1	1.2600	23600.00	13.90	0.07	69.70	3800.000	1.78	29.90	82.700	<0.005	0.4240	291.00	0.05	0.1700	2720.00	<0.01	705.00	<0.5	0.21	3.3600	<0.2	4980.000	<0.1
FL-5	**4/30/2010**	0.1000	19.00	0.200	<300.0	16.200	0.08	<0.03	142.00	16.60	53.6000	<0.5	7.0000	44.00	7.80	0.05	72.90	3010.000	0.70	18.50	131.000	<0.005	0.4200	226.00	0.30	<0.2	3580.00	<0.05	606.00	<3.0	0.41	1.2000	<1.0	20700.000	<0.5
	6/16/2010	<0.03	16.00	<0.1	<300.0	16.500	0.07	<0.03	143.00	17.20	51.0000	<0.5	12.1000	105.00	8.00	0.06	76.10	3000.000	0.60	19.00	125.000	<0.005	1.0200	211.00	0.30	<0.2	3920.00	<0.05	608.00	<3.0	0.43	1.1900	<1.0	21600.000	<0.5
	7/14/2010	0.0130	8.00	0.150	<50.0	16.000	0.07	<0.005	126.00	16.20	54.5000	<0.1	9.0100	130.00	7.78	0.06	76.80	2970.000	0.50	18.90	133.000	<0.005	0.8860	244.00	0.25	0.1300	3670.00	<0.01	598.00	<0.5	0.43	1.2700	<0.2	18500.000	<0.1
	8/12/2010	<0.03	8.00	<0.1	<300.0	18.300	<0.05	<0.03	145.00	17.70	53.7000	<0.5	7.4000	43.00	8.40	0.07	81.70	3140.000	0.50	19.60	137.000	<0.005	0.7700	254.00	0.20	<0.2	4320.00	<0.05	661.00	<3.0	0.49	0.9600	<1.0	22200.000	<0.5
	9/8/2010	<0.03	11.00	<0.1	<300.0	15.900	<0.05	<0.03	143.00	18.00	49.8000	<0.5	6.5000	175.00	7.70	0.06	71.90	2990.000	0.50	17.60	127.000	<0.005	1.7700	246.00	0.30	<0.2	3970.00	0.06	599.00	9.00	0.46	1.1100	<1.0	20000.000	<0.5
FL-5 Average		0.0316	12.40	0.100	125.00	16.580	0.05	0.01	139.80	17.14	52.5200	0.21	8.4020	99.40	7.94	0.06	75.88	3022.000	0.56	18.72	130.600	0.00	0.9732	236.20	0.27	0.1060	3892.00	0.03	614.40	2.75	0.44	1.1460	0.42	20600.000	0.21
FL-5 Max		0.1000	19.00	0.200	<300.0	18.300	0.08	<0.03	145.00	18.00	54.5000	<0.5	12.1000	175.00	8.40	0.07	81.70	3140.000	0.70	19.60	137.000	<0.005	1.7700	254.00	0.30	<0.2	4320.00	0.06	661.00	9.00	0.49	1.2700	<1.0	22200.000	<0.5
FL-5 Min		0.0130	8.00	<0.1	<50.0	15.900	<0.05	<0.005	126.00	16.20	49.8000	<0.1	6.5000	43.00	7.70	0.05	71.90	2970.000	0.50	17.60	125.000	<0.005	0.4200	211.00	0.20	0.1300	3580.00	<0.01	598.00	<0.5	0.41	0.9600	<0.2	18500.000	<0.1
FL-5 N > DL		2	5	2	0	5	3	0	5	5	5	0	5	5	5	5	5	5	5	5	5	0	5	5	5	1	5	1	5	1	5	5	0	5	0
FL-5 Median		<0.03	11.00	<0.1	<300.0	16.200	0.07	<0.03	143.00	17.20	53.6000	<0.5	7.4000	105.00	7.80	0.06	76.10	3000.000	0.50	18.90	131.000	<0.005	0.8860	244.00	0.30	<0.2	3920.00	<0.05	606.00	<3.0	0.43	1.1900	<1.0	20700.000	<0.5
FL-60	**4/30/2010**	<0.005	11.20	0.760	<50.0	13.000	0.07	<0.005	193.00	0.32	38.9000	<0.1	0.7400	24900.00	13.50	0.06	68.60	3650.000	1.81	29.40	81.500	<0.005	0.3290	276.00	0.05	0.1500	2640.00	<0.01	692.00	<0.5	0.21	3.8000	<0.2	4080.000	<0.1
	6/16/2010	<0.005	8.90	0.510	<50.0	12.900	0.08	<0.005	162.00	0.58	39.2000	<0.1	0.9300	22300.00	14.40	0.08	73.10	3950.000	1.58	31.00	84.400	<0.005	0.3790	299.00	0.05	0.1800	2360.00	<0.01	728.00	<0.5	0.22	3.2300	<0.2	5050.000	<0.1
	7/14/2010	<0.005	7.50	0.500	<50.0	13.000	0.08	<0.005	180.00	0.53	41.1000	<0.1	0.7200	23100.00	14.50	0.07	74.80	4160.000	1.48	30.70	89.100	<0.005	0.6630	304.00	0.06	0.1700	3020.00	<0.01	705.00	<0.5	0.22	3.3600	<0.2	5310.000	<0.1
	8/12/2010	<0.03	7.00	0.300	<300.0	13.900	0.07	<0.03	190.00	0.53	38.4000	<0.5	<0.3	25400.00	13.70	0.08	69.40	4080.000	1.50	27.10	86.000	<0.005	0.2900	280.00	<0.1	<0.2	3170.00	<0.05	725.00	<3.0	0.21	3.7100	<1.0	5950.000	<0.5
	9/8/2010	<0.005	7.50	0.550	<50.0	12.900	0.06	<0.005	206.00	0.42	42.1000	<0.1	0.3300	27300.00	15.10	0.07	76.40	4130.000	1.51	32.60	91.000	<0.005	0.3990	329.00	0.05	0.1500	3000.00	<0.01	691.00	<0.5	0.21	3.6300	<0.2	5450.000	<0.1
FL-60 Average		0.0050	8.42	0.524	50.00	13.140	0.07	0.01	186.20	0.47	39.9400	0.09	0.5740	24600.00	14.24	0.07	72.46	3994.000	1.58	30.16	86.400	0.00	0.4120	297.60	0.05	0.1500	2838.00	0.01	708.20	0.50	0.21	3.5460	0.18	5168.000	0.09
FL-60 Max		<0.03	11.20	0.760	<300.0	13.900	0.08	<0.03	206.00	0.58	42.1000	<0.5	0.9300	27300.00	15.10	0.08	76.40	4160.000	1.81	32.60	91.000	<0.005	0.6630	329.00	<0.1	<0.2	3170.00	<0.05	728.00	<3.0	0.22	3.8000	<1.0	5950.000	<0.5
FL-60 Min		<0.005	7.00	0.300	<50.0	12.900	0.06	<0.005	162.00	0.32	38.4000	<0.1	<0.3	22300.00	13.50	0.06	68.60	3650.000	1.48	27.10	81.500	<0.005	0.2900	276.00	0.05	0.1500	2360.00	<0.01	691.00	<0.5	0.21	3.2300	<0.2	4080.000	<0.1
FL-60 N > DL		0	5	5	0	5	5	0	5	5	5	0	4	5	5	5	5	5	5	5	5	0	5	5	4	4	5	0	5	0	5	5	0	5	0
FL-60 Median		<0.005	7.50	0.510	<50.0	13.000	0.07	<0.005	190.00	0.53	39.2000	<0.1	0.7200	24900.00	14.40	0.07	73.10	4080.000	1.51	30.70	86.000	<0.005	0.3790	299.00	0.05	0.1700	3000.00	<0.01	705.00	<0.5	0.21	3.6300	<0.2	5310.000	<0.1
FL-80	**4/30/2010**	0.0090	6.10	0.820	<50.0	14.500	0.05	<0.005	199.00	0.16	34.7000	<0.1	0.5200	28900.00	13.40	0.06	68.50	3630.000	1.46	29.60	79.000	<0.005	0.3320	283.00	0.04	0.1100	2700.00	<0.01	759.00	<0.5	0.21	5.2400	<0.2	3470.000	<0.1
	6/16/2010	<0.005	3.30	0.660	<50.0	13.400	0.07	<0.005	242.00	0.05	33.4000	<0.1	0.2400	34300.00	14.90	0.08	72.10	3800.000	1.26	32.30	75.100	<0.005	0.1980	301.00	0.04	0.1200	3600.00	0.02	779.00	<0.5	0.21	4.6400	<0.2	3340.000	<0.1
	7/14/2010	<0.005	6.70	0.990	<50.0	15.000	0.08	<0.005	189.00	0.23	35.5000	<0.1	0.4800	27400.00	15.00	0.08	73.60	4010.000	1.20	31.70	81.400	<0.005	0.4670	306.00	0.05	0.1400	3200.00	<0.01	786.00	<0.5	0.22	4.9800	<0.2	3680.000	<0.1
	8/12/2010	<0.03	7.00	0.800	<300.0	15.100	0.07	<0.03	205.00	0.20	34.1000	<0.5	<0.3	30400.00	14.20	0.09	69.40	3920.000	1.20	28.60	80.400	<0.005	0.5300	290.00	<0.1	<0.2	3360.00	<0.05	767.00	<3.0	0.22	4.8700	<1.0	4260.000	<0.5
	9/8/2010	0.0070	7.40	0.910	<50.0	14.800	0.07	<0.005	255.00	0.15	35.1000	<0.1	0.2000	36700.00	14.50	0.08	72.40	3880.000	1.27	31.70	79.300	<0.005	0.3780	314.00	0.04	0.1100	3540.00	<0.01	766.00	<0.5	0.23	5.5400	<0.2	3800.000	<0.1
FL-80 Average		0.0072	6.10	0.836	50.00	14.560	0.07	0.01	218.00	0.16	34.5600	0.09	0.3180	31540.00	14.40	0.08	71.20	3848.000	1.28	30.78	79.040	0.00	0.3810	298.80	0.04	0.1160	3280.00	0.01	771.40	0.50	0.22	5.0540	0.18	3710.000	0.09
FL-80 Max		<0.03	7.40	0.990	<300.0	15.100	0.08	<0.03	255.00	0.23	35.5000	<0.5	0.5200	36700.00	15.00	0.09	73.60	4010.000	1.46	32.30	81.400	<0.005	0.5300	314.00	<0.1	<0.2	3600.00	<0.05	786.00	<3.0	0.23	5.5400	<1.0	4260.000	<0.5
FL-80 Min		<0.005	3.30	0.660	<50.0	13.400	0.05	<0.005	189.00	0.05	33.4000	<0.1	0.2000	27400.00	13.40	0.06	68.50	3630.000	1.20	28.60	75.100	<0.005	0.1980	283.00	0.04	0.1100	2700.00	<0.01	759.00	<0.5	0.21	4.6400	<0.2	3340.000	<0.1
FL-80 N > DL		2	5	5	0	5	5	0	5	5	5	0	4	5	5	5	5	5	5	5	5	0	5	5	4	4	5	1	5	0	5	5	0	5	0
FL-80 Median		0.0070	6.70	0.820	<50.0	14.800	0.07	<0.005	205.00	0.16	34.7000	<0.1	<0.3	30400.00	14.50	0.08	72.10	3880.000	1.26	31.70	79.300	<0.005	0.3780	301.00	0.04	0.1200	3360.00	<0.01	767.00	<0.5	0.22	4.9800	<0.2	3680.000	<0.1

NB: Metals reported in mg/L are shaded in grey.

Denison Environmental Services

Table C-46: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - General Parameters

Faro Mine Closure

Station	Date	Sample Type	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Cl-d mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	OH mg/L	pH	SO4-d mg/L	TDS mg/L	TOC mg/L	TSS mg/L	TURB NTU
X14	1/11/2010	FIELD BLANK			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<1.0	<0.5	<0.5	<0.01	<0.5	5.70	<0.5	<10.0	<0.5	<1.0	<0.1
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	1	1	1	1	1	1	0	1	1	1	2	1	0.25	1	1	1	0.25	1
Comments																						
Action																						
Result																						
X2	2/22/2010	FIELD BLANK			0.90	<0.5	<0.5	<0.5	1	<0.5		<1.0	<0.5	1.00	0.02	<0.5	5.90	<0.5	<10.0	<0.5	<1.0	<0.1
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	1.8	1	1	1	1.8	1	0	1	1	2	4	1	0.05	1	1	1	0.25	1
Comments																						
Action																						
Result																						
SC2	4/14/2010	FIELD BLANK			1.20	<0.5	<0.5	<0.5	<0.5	<0.5		<1.0	<0.5	1.50	<0.01	<0.5	6.10	<0.5	<10.0	<0.5	<1.0	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	2.4	1	1	1	1	1	0	1	1	3	2	1	0.15	1	1	1	0.25	0
Comments																						
Action																						
Result																						
X4	5/3/2010	FIELD BLANK			1.60	<0.5	<0.5	<0.5	<0.5	<0.5		2.0		1.90	<0.01	<0.5	6.20	<0.5	<10.0		<1.0	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	3.2	1	1	1	1	1	0	2	0	3.8	2	1	0.25	1	1	0	0.25	0
Comments																						
Action																						
Result																						
NF2	6/4/2010	FIELD BLANK			1.10	<0.5	<0.5	<0.5		<0.5		<1	<0.5	1.30	<0.05	<0.5	5.50	<0.5	<10	<0.5	<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	2.2	1	1	1	0	1	0	1	1	2.6	10	1	0.45	1	1	1	0.25	0
Comments															Blank value not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.							
Action															Let Value Stand							
Result																						
X5	22/06/2010 9:3	FIELD BLANK			<0.5	<0.5	<0.5	<0.5	<0.0005	<0.5	<5	<1		<0.5	<0.05	<0.5	5.40	<0.5	<10		<1	<0.1
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	1	1	1	1	0.001	1	10	1	0	1	10	1	0.55	1	1	0	0.25	1
Comments											Blank value not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.				Blank value not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.							
Action											Let Value Stand				Let Value Stand							
Result																						
A30	7/7/2010	FIELD BLANK	<0.5	<0.5	1.90	<0.5		<0.5	<0.5	<0.5		2.0		2.30		<0.5	6.10	1.7			<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			1	1	3.8	1	0	1	1	1	0	2	0	4.6	0	1	0.15	3.4	0	0	0.25	0
Comments																						
Action																						
Result																						

Blank value < PQL
Blank value is a detection limit higher than that of DI water
Blank value > PQL and < retest limit
Blank value > retest limit (20X DI Water Detection Limit, or >1 pH unit difference from DI Water)

Denison Environmental Services

Table C-46: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - General Parameters

Faro Mine Closure

Station	Date	Sample Type	Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Cl-d	CO3	Colour	COND	DOC	HCO3	NH3	OH	pH	SO4-d	TDS	TOC	TSS	TURB
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	NTU
X14	7/20/2010	FIELD BLANK			1.50	<0.5	<0.5	<0.5	<0.5	<0.5		<1	<0.5	1.80	<0.005	<0.5	5.74	<0.5	<10	<0.5	<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	3	1	1	1	1	1	0	1	1	3.6	1	1	0.21	1	1	1	0.25	0
Comments																						
Action																						
Result																						
RCSG#4	8/3/2010	FIELD BLANK			2.20	<0.5	<0.5	<0.5	<0.5	<0.5		<1	<0.5	2.60	0.28	<0.5	6.15	<0.5	<10	<0.5	<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	4.4	1	1	1	1	1	0	1	1	5.2	56	1	0.20	1	1	1	0.25	0
Comments														Blank concentration > PQL and correctly entered into emLine.	Blank concentration > PQL and correctly entered into emLine. Lab noted that "RDL raised due to sample matrix interference."							
Action														Let Value Stand	Request Retest							
Result														High blank value remains.	Retest not possible. Remainder of sample had been discarded.							
X5	8/10/2010	FIELD BLANK			1.30	<0.5	<0.5	<0.5	<0.5	<0.5	<5	3.0		1.60	0.27	<0.5	5.80	<0.5	<10		<4	<0.1
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	2.6	1	1	1	1	1	10	3	0	3.2	54	1	0.15	1	1	0	1	1
Comments											Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.				Blank concentration > PQL and correctly entered into emLine. Lab noted that "RDL raised due to sample matrix interference."							
Action											Let Value Stand				Request Retest							
Result															Retest performed, see results below.							
X5 Retest	8/10/2010	FIELD BLANK													0.01		-					
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	2.4	0	#VALUE!	0	0	0	0	0
Comments															Retest for August 10 X5 blank. Blank concentration < PQL and correctly entered into emLine.							
Action															Let Value Stand							
Result															New blank value entered into emLine.							
X5	8/17/2010	FIELD BLANK			2.20	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1		2.60	0.16	<0.5	5.59	<0.5	<10		<1	<0.1
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	4.4	1	1	1	1	1	10	1	0	5.2	32	1	0.36	1	1	0	0.25	1
Comments											Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration > PQL and correctly entered into emLine.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water, lab noted "RDL raised due to sample matrix interference). Therefore, comparison not valid in this case.							
Action											Let Value Stand			Let Value Stand	Let Value Stand							
Result														High blank value remains.	High blank value remains.							

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit, or >1 pH unit difference from DI Water)

Table C-46: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - General Parameters

Station	Date	Sample Type	Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Cl-d	CO3	Colour	COND	DOC	HCO3	NH3	OH	pH	SO4-d	TDS	TOC	TSS	TURB
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	NTU
X5	9/7/2010	FIELD BLANK			0.60	<0.5			<0.5	<0.5	<5	2.0		0.70	0.25	<0.5	5.75	2.6	<10		<1	<0.1
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	1.2	1	0	0	1	1	10	2	0	1.4	50	1	0.20	5.2	1	0	0.25	1
Comments											Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.				Blank concentration equal to PQL and correctly entered into emLine. Lab noted "RDL raised due to sample matrix interference."			Blank concentration > PQL and correctly entered into emLine.				
Action											**Let Value Stand**				**Request Retest**			**Let Value Stand**				
Result															Retest performed, see results below.			High blank value remains.				
X5 Retest	9/7/2010	FIELD BLANK													<0.005		-					
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	1	0	#VALUE!	0	0	0	0	0
Comments															Retest for September 7 X5 blank.							
Action															**Let Value Stand**							
Result															New blank value entered into emLine.							
GDHSECK	10/6/2010	FIELD BLANK			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<1		<0.5	0.04	<0.5	5.25	<0.5	<10		<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	1	1	1	1	1	1	0	1	0	1	7.2	1	0.70	1	1	0	0.25	0
Comments															Blank concentration > PQL and correctly entered into emLine.							
Action															**Let Value Stand**							
Result															High blank value remains.							
X4	10/20/2010	FIELD BLANK			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		7.0		<0.5	0.01	<0.5	5.23	<0.5	<10		<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	1	1	1	1	1	1	0	7	0	1	2	1	0.72	1	1	0	0.25	0
Comments												Blank concentration > PQL and correctly entered into emLine.											
Action												**Let Value Stand**										
Result												High blank value remains.										
X14	11/9/2010	FIELD BLANK			1.10	<0.5	<0.5	<0.5	<0.5	<0.5		<1	2.3	1.30	0.06	<0.5	5.86	<0.5	<10	<0.5	<4	<0.1
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	2.2	1	1	1	1	1	0	1	4.6	2.6	11.4	1	0.09	1	1	1	1	1
Comments															Blank concentration > PQL and correctly entered into emLine.							
Action															**Let Value Stand**							
Result															High blank value remains.							
X5	11/18/2010	FIELD BLANK			1.40	<0.5			<0.5	<0.5	<5	2.0		1.70	<0.005	<0.5	5.81	<0.5	<10		<4	<0.1
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	2.8	1	0	0	1	1	10	2	0	3.4	1	1	0.14	1	1	0	1	1
Comments											Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.											
Action											**Let Value Stand**											
Result																						

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit, or >1 pH unit difference from DI Water)

Table C-46: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - General Parameters

Station	Date	Sample Type	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Cl-d mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	OH mg/L	pH	SO4-d mg/L	TDS mg/L	TOC mg/L	TSS mg/L	TURB NTU
X14	11/25/2010	FIELD BLANK			1.40	<0.5	<0.5	<0.5	<0.5	<0.5		2.0	<0.5	1.70	0.04	<0.5	5.88	4.8	<10	<0.5	<4	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	2.8	1	1	1	1	1	0	2	1	3.4	7	1	0.07	9.6	1	1	1	0
Comments															Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.				
Action															Let Value Stand			Let Value Stand				
Result															High blank value remains.			High blank value remains.				
X2	12/1/2010	FIELD BLANK			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<1	<0.5	<0.5	<0.05	<0.5	5.35	0.8	<10	<0.5	<4	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	1	1	1	1	1	1	0	1	1	1	10	1	0.60	1.6	1	1	1	0
Comments															Blank concentration not > PQL (detection limit for field blank higher than that used for DI water, lab noted "RDL raised due to sample matrix interference). Therefore, comparison not valid in this case.							
Action															Let Value Stand							
Result																						
X14	12/2/2010	FIELD BLANK			0.60	<0.5	<0.5	<0.5	<0.5	<0.5		2.0	<0.5	0.70	<0.05	<0.5	5.49	<0.5	<10	<0.5	<1	0.00
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	1.2	1	1	1	1	1	0	2	1	1.4	10	1	0.46	1	1	1	0.25	0
Comments															Blank concentration not > PQL (detection limit for field blank higher than that used for DI water, lab noted "RDL raised due to sample matrix interference). Therefore, comparison not valid in this case.							
Action															Let Value Stand							
Result																						

Blank value < PQL
Blank value is a detection limit higher than that of DI water
Blank value > PQL and < retest limit
Blank value > retest limit (20X DI Water Detection Limit, or >1 pH unit difference from DI Water)

Denison Environmental Services

Table C-47: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Dissolved Metals

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L
X14	1/11/2010	FIELD BLANK	<0.005	0.80	<0.02	0.120	<50.0	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	0.1600	2.00	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	4	1	6	1	1	1	1	1	1	1	1	3.2	2	1	0.001	1
	Comments					Blank concentration > PQL and correctly entered into emLine.													
	Action					Let Value Stand													
	Result					High blank value remains. Investigation of Maxxam and lab blank water planned.													
X2	2/22/2010	FIELD BLANK	<0.005	0.90	<0.02	<0.02	<50.0	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	<0.05	<1.0	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	4.5	1	1	1	1	1	1	1	1	1	1	1	1	1	0.001	1
	Comments																		
	Action																		
	Result																		
SC2	4/14/2010	FIELD BLANK	<0.005	0.70	<0.02	0.260	<50.0	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	<0.05	<1.0	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	3.5	1	13	1	1	1	1	1	1	1	1	1	1	1	0.001	1
	Comments					Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved metals greater than total metals for some parameters; analysis from separate field prepared sample bottles."													
	Action					Let Value Stand													
	Result					High blank value remains.													
X4	5/3/2010	FIELD BLANK	<0.005	2.70	<0.02	0.360	<50.0	<0.01	<0.005	<0.05	0.01	<0.005	<0.005	<0.1	0.1000	5.00	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	13.5	1	18	1	1	1	1	1.6	1	1	1	2	5	1	0.001	1
	Comments			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved metals greater than total metals for some parameters; analysis from separate field prepared sample bottles."		Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved metals greater than total metals for some parameters; analysis from separate field prepared sample bottles."										Blank concentration equal to PQL and correctly entered into emLine.			
	Action			Let Value Stand		Let Value Stand										Let Value Stand			
	Result			High blank value remains.		High blank value remains.										Blank value remains.			
NF2	6/4/2010	FIELD BLANK	<0.005	1.10	<0.02	0.060	<50	<0.01	0.02	<0.05	<0.005	<0.005	<0.005	<0.1	0.0600	<1	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	5.5	1	3	1	1	3.4	1	1	1	1	1	1.2	1	1	0.001	1
	Comments			Blank concentration > PQL and correctly entered into emLine.															
	Action			Let Value Stand															
	Result			High blank value remains.															
X5	22/06/2010	FIELD BLANK	<0.005	0.90	<0.02	0.080	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	0.1600	<1	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	4.5	1	4	1	1	1	1	1	1	1	1	3.2	1	1	0.001	1
	Comments																		
	Action																		
	Result																		
A30	7/7/2010	FIELD BLANK	<0.02	<3	<0.1	<1	<50	<0.1	<1	<0.05	<0.01	<0.5	<1	<0.2	<5	<0.05	<0.005	<0.05	
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	
	Times greater than DI water		4	15	5	50	1	10	200	1	2	100	10	4	5	1	0.01	1	
	Comments			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.						
	Action			Let Value Stand		Let Value Stand		Let Value Stand				Let Value Stand							
	Result																		
X14	7/20/2010	FIELD BLANK	<0.005	1.20	<0.02	0.540	<50	<0.01	<0.005	<0.05	<0.005	0.0070	<0.1	0.1000	3.00	<0.05	<0.0005	<0.05	
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	
	Times greater than DI water		1	6	1	27	1	1	1	1	1	1.4	1	2	3	1	0.001	1	
	Comments			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."		Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."													
	Action			Let Value Stand		Let Value Stand													
	Result			High blank value remains.		High blank value remains.													
RCSG#4	8/3/2010	FIELD BLANK	<0.005	0.90	<0.02	0.080	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	<0.05	2.00	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	4.5	1	4	1	1	1	1	1	1	1	1	1	2	1	0.001	1
	Comments																		
	Action																		
	Result																		

Blank value < PQL
Blank value is a detection limit higher than that of DI water
Blank value > PQL and < retest limit
Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-47: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Dissolved Metals

Station	Date	Sample Type	Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	K-d	Li-d	Mg-d
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L
X5	8/10/2010	FIELD BLANK	<0.005	1.90	<0.02	0.250	<50	<0.01	0.03	<0.05	<0.005	<0.005	<0.1	0.0900	3.00	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	9.5	1	12.5	1	1	5.4	1	1	1	1	1.8	3	1	0.001	1
	Comments			Blank value > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."		Blank value > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."			Blank value > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."								
	Action			Let Value Stand		Let Value Stand			Let Value Stand									
	Result			High blank value remains.		High blank value remains.			High blank value remains.									
X5	8/17/2010	FIELD BLANK	<0.005	0.70	<0.02	0.250	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	0.1900	<1	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	3.5	1	12.5	1	1	1	1	1	1	1	3.8	1	1	0.001	1
	Comments					Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."												
	Action					Let Value Stand												
	Result					High blank value remains.												
X5 Retest	8/17/2010	FIELD BLANK																
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Comments																	
	Action																	
	Result																	
X5	9/7/2010	FIELD BLANK	<0.005	1.40	<0.02	0.110	<50	<0.01	<0.005	0.22	<0.005	0.0100	0.20	<0.05	<1	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	7	1	5.5	1	1	1	4.4	1	2	2	1	1	1	0.001	1
	Comments			Blank concentration > PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine.												
	Action			Let Value Stand		Let Value Stand												
	Result			High blank value remains.		High blank value remains.												
X5 Retest	9/7/2010	FIELD BLANK																
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Comments																	
	Action																	
	Result																	
GDHSECK	10/6/2010	FIELD BLANK	<0.005	1.60	<0.02	0.490	<50	<0.01	<0.005	<0.05	0.01	0.0230	<0.1	0.1500	3.00	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	8	1	24.5	1	1	1	1	2.4	4.6	1	3	3	1	0.001	1
	Comments			Blank concentration > PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine.												
	Action			Let Value Stand		Let Value Stand												
	Result			High blank value remains.		High blank value remains. Retest not requested because lab already reanalyzed full suite because dissolved > total for some metals.												
X4	10/20/2010	FIELD BLANK	<0.005	3.60	<0.02	0.460	<50	<0.01	<0.005	0.07	<0.005	0.0380	<0.1	0.1100	25.00	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	18	1	23	1	1	1	1.4	1	7.6	1	2.2	25	1	0.001	1
	Comments			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."		Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."						Blank concentration > PQL and correctly entered into emLine. Lab noted that "Duplicate RPD for Co exceeds acceptance criteria. 10% of analytes failure in multielement scan is allowed."			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."			
	Action		Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest
	Result		Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.
X4 Retest	10/20/2010	FIELD BLANK	<0.005	3.50	<0.02	0.460	<50	<0.01	<0.005	0.07	<0.005	0.0350	<0.1	0.1400	27.00	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	17.5	1	23	1	1	1	1.4	1	7	1	2.8	27	1	0.001	1
	Comments		Retest for October 20 X4 blank.	Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.
	Action		Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand
	Result		New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit)

Table C-47: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Dissolved Metals

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L
X14	11/9/2010	FIELD BLANK	0.0060	0.70	<0.02	0.080	<50	<0.01	<0.005	<0.05	<0.005	0.0060	<0.1	0.1700	3.00	0.14	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1.2	3.5	1	4	1	1	1	1	1	1.2	1	3.4	3	2.8	0.001	1
	Comments																	
	Action																	
	Result																	
X5	11/18/2010	FIELD BLANK	<0.005	1.20	<0.02	0.030	<50	<0.01	<0.005	<0.05	<0.005	0.0060	<0.1	0.0600	2.00	0.09	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	6	1	1.5	1	1	1	1	1	1.2	1	1.2	2	1.8	0.001	1
	Comments			Blank concentration > PQL and correctly entered into emLine.														
	Action			Let Value Stand														
	Result			High blank value remains.														
X14	11/25/2010	FIELD BLANK	<0.005	0.50	<0.02	0.070	<50	<0.01	<0.005	<0.05	0.01	<0.005	<0.1	0.0900	<1	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	2.5	1	3.5	1	1	1	1	1.4	1	1	1.8	1	1	0.001	1
	Comments																	
	Action																	
	Result																	
X2	12/1/2010	FIELD BLANK	<0.005	0.60	<0.02	0.050	<50	<0.01	0.01	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	3	1	2.5	1	1	1.6	1	1	1	1	1	1	1	0.001	1
	Comments																	
	Action																	
	Result																	
X14	12/2/2010	FIELD BLANK	<0.005	0.30	<0.02	0.030	<50	<0.01	0.04	<0.05	<0.005	0.0070	<0.1	0.1500	2.00	<0.05	<0.0005	<0.05
	Deionized Water		<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
	Times greater than DI water		1	1.5	1	1.5	1	1	7.4	1	1	1.4	1	3	2	1	0.001	1
	Comments								Blank concentration > PQL and correctly entered into emLine.									
	Action								Let Value Stand									
	Result								High blank value remains.									

Blank value < PQL
Blank value is a detection limit higher than that of DI water
Blank value > PQL and < retest limit
Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-47: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Dissolved Metals

Station	Date	Sample Type	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
			µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X14	1/11/2010	FIELD BLANK	0.220	<0.05	<0.05	0.200	0.2970	<0.02	<0.04	<100.0	<0.01	0.07	<0.5	<0.002	0.0030	<0.2	1.700	<0.1
	Deionized Water		<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
	Times greater than DI water		4.4	1	1	10	59.4	1	1	1	1	1.4	1	1	1.5	1	17	1
	Comments					Blank concentration > PQL and correctly entered into emLine.	Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
	Action					Let Value Stand	Let Value Stand										Let Value Stand	
	Result					High blank value remains. Investigation of Maxxam and lab blank water planned.	High blank value remains. Investigation of Maxxam and lab blank water planned.										High blank value remains. Investigation of Maxxam and lab blank water planned.	
X2	2/22/2010	FIELD BLANK	<0.05	<0.05	<0.05	<0.02	0.0340	<0.02	<0.04	<100.0	<0.01	<0.05	<0.5	<0.002	0.0060	<0.2	0.200	<0.1
	Deionized Water		<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
	Times greater than DI water		1	1	1	1	6.8	1	1	1	1	1	1	1	3	1	2	1
	Comments						Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."											
	Action						Let Value Stand											
	Result						High blank value remains.											
SC2	4/14/2010	FIELD BLANK	<0.05	<0.05	<0.05	<0.02	0.0820	<0.02	<0.04	<100.0	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	0.500	<0.1
	Deionized Water		<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
	Times greater than DI water		1	1	1	1	16.4	1	1	1	1	1	1	1	1	1	9	1
	Comments						Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
	Action						Let Value Stand										Let Value Stand	
	Result						High blank value remains.										High blank value remains.	
X4	5/3/2010	FIELD BLANK	0.510	<0.05	<0.05	0.050	0.7010	<0.02	<0.04	<100.0	0.02	0.12	<0.5	<0.002	0.0050	<0.2	3.500	<0.1
	Deionized Water		<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
	Times greater than DI water		10.2	1	1	2.5	140.2	1	1	1	2	2.4	1	1	2.5	1	35	1
	Comments		Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved metals greater than total metals for some parameters; analysis from separate field prepared sample bottles."				Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved metals greater than total metals for some parameters; analysis from separate field prepared sample bottles."										Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved metals greater than total metals for some parameters; analysis from separate field prepared sample bottles."	
	Action		Let Value Stand				Let Value Stand										Let Value Stand	
	Result		High blank value remains.				High blank value remains.										High blank value remains.	
NF2	6/4/2010	FIELD BLANK	0.080	<0.05	<0.05	0.030	0.0670	<0.02	<0.04	<100	<0.01	0.06	<0.5	<0.002	<0.002	<0.2	0.700	<0.1
	Deionized Water		<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
	Times greater than DI water		1.6	1	1	1.5	13.4	1	1	1	1	1.2	1	1	1	1	7	1
	Comments						Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."										Blank concentration > PQL and correctly entered into emLine.	
	Action						Let Value Stand										Let Value Stand	
	Result						High blank value remains.										High blank value remains.	
X5	22/06/2010	FIELD BLANK	<0.05	<0.05	<0.05	<0.02	0.0940	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	0.700	<0.1
	Deionized Water		<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
	Times greater than DI water		1	1	1	1	18.8	1	1	1	1	1	1	1	1	1	7	1
	Comments						Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
	Action						Let Value Stand										Let Value Stand	
	Result						High blank value remains.										High blank value remains.	
A30	7/7/2010	FIELD BLANK	<1	<1	<0.05	<1	0.6000	<0.5	<0.1	<100	<5	<1	<5	<0.05	<0.1	<5	<5	<0.5
	Deionized Water		<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
	Times greater than DI water		20	20	1	50	120	25	2.5	1	500	20	10	25	50	25	50	5
	Comments		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
	Action		Let Value Stand	Let Value Stand		Let Value Stand	Let Value Stand	Let Value Stand			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand
	Result																	
X14	7/20/2010	FIELD BLANK	1.020	<0.05	<0.05	<0.02	0.7400	<0.02	<0.04	<100	<0.01	0.13	<0.5	<0.002	<0.002	<0.2	1.800	<0.1
	Deionized Water		<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
	Times greater than DI water		20.4	1	1	1	148	1	1	1	1	2.6	1	1	1	1	18	1
	Comments		Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."				Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."										Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."	
	Action		Let Value Stand				Let Value Stand										Let Value Stand	
	Result		High blank value remains.				High blank value remains.										High blank value remains.	
RCSG#4	8/3/2010	FIELD BLANK	0.330	<0.05	<0.05	<0.02	0.1450	<0.02	<0.04	<100	<0.01	0.15	<0.5	<0.002	0.0040	<0.2	1.100	<0.1
	Deionized Water		<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
	Times greater than DI water		6.6	1	1	1	29	1	1	1	1	3	1	1	2	1	11	1
	Comments		Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."				Blank value > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."										Blank value > PQL and correctly entered into emline. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."	
	Action		Let Value Stand				Let Value Stand										Let Value Stand	
	Result		High blank value remains.				High blank value remains. Retest not requested because lab already reanalyzed.										High blank value remains.	

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-47: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Dissolved Metals

Station	Date	Sample Type	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
			µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X5	8/10/2010	FIELD BLANK	0.980	<0.05	<0.05	<0.02	0.7440	<0.02	<0.04	<100	<0.01	0.09	<0.5	<0.002	0.0050	<0.2	1.800	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			19.6	1	1	1	148.8	1	1	1	1	1.8	1	1	2.5	1	18	1
Comments			Blank value > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."				Blank value > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."										Blank concentration > PQL and correctly entered into emLine.	
Action			Let Value Stand				Let Value Stand										Let Value Stand	
Result			High blank value remains.				High blank value remains. Retest not requested because lab already reanalyzed.										High blank value remains.	
X5	8/17/2010	FIELD BLANK	0.200	<0.05	<0.05	0.030	0.2480	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	0.0030	<0.2	0.700	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			4	1	1	1.5	49.6	1	1	1	1	1	1	1	1.5	1	7	1
Comments							Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
Action							Request Retest										Let Value Stand	
Result							Retest performed, see results below.										High blank value remains.	
X5 Retest	8/17/2010	FIELD BLANK					0.2720											
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			0	0	0	0	54.4	0	0	0	0	0	0	0	0	0	0	0
Comments							Retest for August 10 X5 blank. Blank concentration > PQL and correctly entered into emLine.											
Action							Let Value Stand											
Result							New blank value entered into emLine.											
X5	9/7/2010	FIELD BLANK	6.910	<0.05	<0.05	<0.02	0.1340	<0.02	<0.04	<100	<0.01	0.76	<0.5	<0.002	0.0060	<0.2	0.600	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			138.2	1	1	1	26.8	1	1	1	1	15.2	1	1	3	1	6	1
Comments			Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.					Blank concentration > PQL and correctly entered into emLine.					Blank concentration > PQL and correctly entered into emLine.	
Action			Request Retest				Request Retest					Let Value Stand					Let Value Stand	
Result			Retest performed, see results below.				Retest performed, see results below.					High blank value remains.					High blank value remains.	
X5 Retest	9/7/2010	FIELD BLANK	7.600				0.1510											
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			152	0	0	0	30.2	0	0	0	0	0	0	0	0	0	0	0
Comments			Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.				Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.											
Action			Let Value Stand				Let Value Stand											
Result			New blank value entered into emLine.				New blank value entered into emLine.											
GDHSECK	10/6/2010	FIELD BLANK	0.740	<0.05	<0.05	0.250	0.2880	<0.02	<0.04	<100	<0.01	0.07	<0.5	<0.002	<0.002	<0.2	3.600	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			14.8	1	1	12.5	57.6	1	1	1	1	1.4	1	1	1	1	36	1
Comments			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."	Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."										Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."	
Action			Let Value Stand			Let Value Stand	Let Value Stand										Let Value Stand	
Result			High blank value remains.			High blank value remains.	High blank value remains. Retest not requested because lab already reanalyzed.										High blank value remains. Retest not requested because lab already reanalyzed.	
X4	10/20/2010	FIELD BLANK	4.930	<0.05	<0.05	0.100	0.5370	<0.02	<0.04	<100	<0.01	0.26	<0.5	<0.002	<0.002	<0.2	14.800	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			98.6	1	1	5	107.4	1	1	1	1	5.2	1	1	1	1	148	1
Comments			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Duplicate RPD for Ni exceeds acceptance criteria. 10% of analytes failure in multielement scan is allowed."	Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."					Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."					Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."	
Action			Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest
Result			Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.
X4 Retest	10/20/2010	FIELD BLANK	5.280	<0.05	<0.05	0.120	0.6410	<0.02	<0.04	<100	<0.02	0.29	<0.5	<0.002	<0.009	<0.2	16.800	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			105.6	1	1	6	128.2	1	1	1	2	5.8	1	1	4.5	1	168	1
Comments			Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank.	Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for October 20 X4 blank.
Action			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand
Result			New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-47: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Dissolved Metals

Station	Date	Sample Type	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
X14	11/9/2010	FIELD BLANK	0.910	<0.05	<0.05	0.050	0.1090	<0.02	<0.04	<100	<0.01	0.18	<0.5	<0.002	<0.002	<0.2	2.900	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			18.2	1	1	2.5	21.8	1	1	1	1	3.6	1	1	1	1	29	1
Comments			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."				Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."	
Action			Let Value Stand				Let Value Stand										Let Value Stand	
Result			High blank value remains.				High blank value remains. Retest not requested because lab already reanalyzed full suite because dissolved > total for some metals.										High blank value remains. Retest not requested because lab already reanalyzed.	
X5	11/18/2010	FIELD BLANK	1.040	<0.05	0.37	0.040	0.0870	<0.02	<0.04	<100	<0.01	0.07	<0.5	<0.002	0.0250	<0.2	2.500	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			20.8	1	7.4	2	17.4	1	1	1	1	1.4	1	1	12.5	1	25	1
Comments			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."		Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."		Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."								Blank concentration > PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."	
Action			Let Value Stand		Let Value Stand		Let Value Stand								Let Value Stand		Let Value Stand	
Result			High blank value remains. Retest not requested because lab already reanalyzed.		High blank value remains.		High blank value remains.								High blank value remains.		High blank value remains. Retest not requested because lab already reanalyzed.	
X14	11/25/2010	FIELD BLANK	1.910	<0.05	<0.05	<0.02	0.2850	<0.02	<0.04	<100	<0.01	0.10	<0.5	<0.002	<0.002	<0.2	0.700	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			38.2	1	1	1	57	1	1	1	1	2	1	1	1	1	7	1
Comments			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."				Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."										Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."	
Action			Let Value Stand				Let Value Stand										Let Value Stand	
Result			High blank value remains. Retest not requested because lab already reanalyzed.				High blank value remains. Retest not requested because lab already reanalyzed.										High blank value remains.	
X2	12/1/2010	FIELD BLANK	0.080	<0.05	<0.05	0.050	0.0200	<0.02	<0.04	<100	<0.01	0.12	<0.5	<0.002	0.0100	<0.2	0.800	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1.6	1	1	2.5	4	1	1	1	1	2.4	1	1	5	1	8	1
Comments															Blank concentration equal to PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."	
Action															Let Value Stand		Let Value Stand	
Result															High blank value remains.		High blank value remains.	
X14	12/2/2010	FIELD BLANK	0.410	<0.05	<0.05	0.070	0.0420	<0.02	<0.04	<100	<0.01	0.15	<0.5	<0.002	0.0120	<0.2	0.300	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			8.2	1	1	3.5	8.4	1	1	1	1	3	1	1	6	1	3	1
Comments			Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.								Blank concentration > PQL and correctly entered into emLine.			
Action			Let Value Stand				Let Value Stand								Let Value Stand			
Result			High blank value remains.				High blank value remains.								High blank value remains.			

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-48: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Total Metals

Station	Date	Sample Type	Ag µg/L	Al µg/L	As µg/L	B µg/L	Ba µg/L	Be µg/L	Bi µg/L	Ca mg/L	Cd µg/L	Co µg/L	Cr µg/L	Cu µg/L	Fe µg/L	K mg/L	Li mg/L	Mg mg/L
X14	1/11/2010	FIELD BLANK	<0.005	1.20	<0.02	<50.0	0.110	<0.01	<0.005	<0.05	<0.005	0.0000	<0.1	0.1600	<1.0	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	6	1	1	5.5	1	1	1	1	0.0012	1	3.2	1	1	0.001	1
Comments				Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.											
Action				Let Value Stand			Let Value Stand											
Result				High blank value remains. Investigation of Maxxam and lab blank water planned.			High blank value remains. Investigation of Maxxam and lab blank water planned.											
X2	2/22/2010	FIELD BLANK	<0.005	0.30	<0.02	<50.0	<0.02	<0.01	<0.005	<0.05	<0.005	<0.0	<0.1	<0.05	<1.0	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	1.5	1	1	1	1	1	1	1	0	1	1	1	1	0.001	1
Comments																		
Action																		
Result																		
SC2	4/14/2010	FIELD BLANK	<0.005	0.90	<0.02	<50.0	0.030	<0.01	<0.005	<0.05	<0.005	<0.0	<0.1	<0.05	<1.0	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	4.5	1	1	1.5	1	1	1	1	0	1	1	1	1	0.001	1
Comments																		
Action																		
Result																		
X4	5/3/2010	FIELD BLANK	<0.005	1.00	<0.02	<50.0	0.140	<0.01	<0.005	<0.05	<0.005	<0.0	<0.1	<0.05	2.00	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	5	1	1	7	1	1	1	1	0	1	1	2	1	0.001	1
Comments				Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved metals greater than total metals for some parameters; analysis from separate field prepared sample bottles."			Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved metals greater than total metals for some parameters; analysis from separate field prepared sample bottles."											
Action				Let Value Stand			Let Value Stand											
Result				High blank value remains.			High blank value remains.											
NF2	6/4/2010	FIELD BLANK	<0.005	0.90	<0.02	<50	0.030	<0.01	0.01	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	4.5	1	1	1.5	1	2.2	1	1	1	1	1	1	1	0.001	1
Comments																		
Action																		
Result																		
X5	6/22/2010	FIELD BLANK	<0.005	4.70	<0.02	<50	0.260	<0.01	0.01	0.09	0.04	0.0410	<0.1	0.8200	5.00	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	23.5	1	1	13	1	1.8	1.8	7.4	8.2	1	16.4	5	1	0.001	1
Comments				Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.	Blank concentration > PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine.	Blank concentration equal to PQL and correctly entered into emLine.			
Action			Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest
Result			Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.
X5 Retest	6/22/2010	FIELD BLANK	<0.005	2.10	<0.02	<50	0.120	<0.01	<0.005	<0.05	0.01	<0.005	<0.1	<0.05	1.00	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	10.5	1	1	6	1	1	1	1.2	1	1	1	1	1	0.001	1
Comments			Retest for June 22 X5 blank.	Retest for June 22 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.
Action			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand
Result			New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.
X14	7/20/2010	FIELD BLANK	<0.005	0.50	<0.02	<50	0.030	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	2.5	1	1	1.5	1	1	1	1	1	1	1	1	1	0.001	1
Comments																		
Action																		
Result																		
RCSG#4	8/3/2010	FIELD BLANK	<0.005	0.40	<0.02	<50	0.030	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	2	1	1	1.5	1	1	1	1	1	1	1	1	1	0.001	1
Comments																		
Action																		
Result																		
X5	8/10/2010	FIELD BLANK	<0.005	1.50	<0.02	<50	0.110	<0.01	0.01	<0.05	<0.005	<0.005	<0.1	0.1500	2.00	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	7.5	1	1	5.5	1	1.8	1	1	1	1	3	2	1	0.001	1
Comments				Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.											
Action				Let Value Stand			Let Value Stand											
Result				High blank value remains.			High blank value remains.											
X5	8/17/2010	FIELD BLANK	<0.005	1.80	<0.02	<50	0.150	<0.01	<0.005	<0.05	0.02	<0.005	<0.1	0.2400	3.00	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	9	1	1	7.5	1	1	1	3.6	1	1	4.8	3	1	0.001	1
Comments				Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.											
Action				Let Value Stand			Let Value Stand											
Result				High blank value remains.			High blank value remains.											

Blank value < PQL
Blank value is a detection limit higher than that of DI water
Blank value > PQL and < retest limit
Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-48: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Total Metals

Station	Date	Sample Type	Ag µg/L	Al µg/L	As µg/L	B µg/L	Ba µg/L	Be µg/L	Bi µg/L	Ca mg/L	Cd µg/L	Co µg/L	Cr µg/L	Cu µg/L	Fe µg/L	K mg/L	Li mg/L	Mg mg/L
X5 Retest	8/17/2010	FIELD BLANK																
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Comments																		
Action																		
Result																		
X5	9/7/2010	FIELD BLANK	<0.005	2.90	<0.02	<50	0.630	<0.01	<0.005	0.40	<0.005	0.0220	<0.1	0.0600	6.00	<0.05	<0.0005	0.06
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	14.5	1	1	31.5	1	1	8	1	4.4	1	1.2	6	1	0.001	1.2
Comments				Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.					Blank concentration > PQL and correctly entered into emLine.			
Action			Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest
Result			Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.
X5 Retest	9/7/2010	FIELD BLANK	<0.005	6.00	<0.02	<50	0.670	<0.01	<0.005	0.35	<0.005	0.0210	<0.1	0.0700	7.00	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	30	1	1	33.5	1	1	7	1	4.2	1	1.4	7	1	0.001	1
Comments			Retest for September 7 X5 blank.	Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.
Action			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand
Result			New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.
GDHSECK	10/6/2010	FIELD BLANK	<0.005	6.10	<0.02	<50	0.550	<0.01	<0.005	<0.05	<0.005	0.0060	<0.1	<0.05	5.00	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	30.5	1	1	27.5	1	1	1	1	1.2	1	1	5	1	0.001	1
Comments				Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.								Blank concentration equal to PQL and correctly entered into emLine.			
Action				Request Retest			Request Retest								Let Value Stand			
Result				Retest performed, see results below.			Retest performed, see results below.								High blank value remains.			
GDHSECK Retest	10/6/2010	FIELD BLANK		2.10			0.49											
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			0	10.5	0	0	24.5	0	0	0	0	0	0	0	0	0	0	0
Comments				Retest for October 6 GDHSECK blank. Blank concentration > PQL and correctly entered into emLine.			Retest for October 6 GDHSECK blank. Blank concentration > PQL and correctly entered into emLine.											
Action				Let Value Stand			Let Value Stand											
Result				New blank value entered into emLine.			New blank value entered into emLine.											
X4	10/20/2010	FIELD BLANK	<0.005	0.80	<0.02	<50	0.080	<0.01	<0.005	<0.05	<0.005	0.0260	<0.1	0.0600	14.00	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	4	1	1	4	1	1	1	1	5.2	1	1.2	14	1	0.001	1
Comments												Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.			
Action												Let Value Stand			Let Value Stand			
Result												High blank value remains.			High blank value remains.			
X4 Retest	10/20/2010	FIELD BLANK																
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Comments																		
Action																		
Result																		
X14	11/9/2010	FIELD BLANK	<0.005	0.90	<0.02	<50	0.100	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	0.0600	<1	<0.05	<0.5	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	4.5	1	1	5	1	1	1	1	1	1	1.2	1	1	1	1
Comments							Blank concentration equal to PQL and correctly entered into emLine.											
Action							Let Value Stand											
Result							High blank value remains.											
X5	11/18/2010	FIELD BLANK	<0.005	2.20	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	2.00	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	11	1	1	1	1	1	1	1	1	1	1	2	1	0.001	1
Comments				Blank concentration > PQL and correctly entered into emLine.														
Action				Let Value Stand														
Result				High blank value remains.														
X14	11/25/2010	FIELD BLANK	<0.005	0.80	<0.02	<50	<0.02	<0.01	0.01	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	4	1	1	1	1	1.2	1	1	1	1	1	1	1	0.001	1
Comments																		
Action																		
Result																		
X2	12/1/2010	FIELD BLANK	<0.005	0.60	<0.02	<50	0.030	<0.01	0.02	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	3	1	1	1.5	1	3.2	1	1	1	1	1	1	1	0.001	1
Comments																		
Action																		
Result																		

Blank value < PQL
Blank value is a detection limit higher than that of DI water
Blank value > PQL and < retest limit
Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-48: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Total Metals

Station	Date	Sample Type	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L
X14	12/2/2010	FIELD BLANK	<0.005	0.90	<0.02	<50	0.040	<0.01	0.04	<0.05	<0.005	<0.005	<0.1	0.0800	2.00	<0.05	<0.0005	<0.05
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			1	4.5	1	1	2	1	7.6	1	1	1	1	1.6	2	1	0.001	1
Comments									Blank concentration > PQL and correctly entered into emLine.									
Action									Let Value Stand									
Result									High blank value remains.									
X14 Retest	12/2/2010	FIELD BLANK																
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Comments																		
Action																		
Result																		

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-48: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Total Metals

Station	Date	Sample Type	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
			µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X14	1/11/2010	FIELD BLANK	0.390	<0.05	0.06	0.230	0.2620	<0.02	<0.04	<100.0	<0.01	0.13	<0.5	<0.002	<0.002	<0.2	2.500	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			7.8	1	1.2	11.5	52.4	1	1	1	1	2.6	1	1	1	1	25	1
Comments			Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.	Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
Action			Let Value Stand			Let Value Stand	Let Value Stand										Let Value Stand	
Result			High blank value remains. Investigation of Maxxam and lab blank water planned.			High blank value remains. Investigation of Maxxam and lab blank water planned.	High blank value remains. Investigation of Maxxam and lab blank water planned.										High blank value remains. Investigation of Maxxam and lab blank water planned.	
X2	2/22/2010	FIELD BLANK	0.110	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100.0	<0.01	<0.05	<0.5	<0.002	0.0070	<0.2	<0.1	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			2.2	1	1	1	1	1	1	1	1	1	1	1	3.5	1	1	1
Comments																		
Action																		
Result																		
SC2	4/14/2010	FIELD BLANK	<0.05	<0.05	<0.05	0.030	0.0810	<0.02	<0.04	<100.0	<0.01	0.08	<0.5	<0.002	0.0030	<0.2	0.700	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1	1	1	1.5	16.2	1	1	1	1	1.6	1	1	1.5	1	7	1
Comments							Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
Action							Let Value Stand										Let Value Stand	
Result							High blank value remains.										High blank value remains.	
X4	5/3/2010	FIELD BLANK	0.150	<0.05	<0.05	0.030	0.1660	<0.02	<0.04	<100.0	<0.01	0.08	<0.5	<0.002	0.0040	<0.2	0.600	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			3	1	1	1.5	33.2	1	1	1	1	1.6	1	1	2	1	6	1
Comments							Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved metals greater than total metals for some parameters; analysis from separate field prepared sample bottles."										Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved metals greater than total metals for some parameters; analysis from separate field prepared sample bottles."	
Action							Let Value Stand										Let Value Stand	
Result							High blank value remains.										High blank value remains.	
NF2	6/4/2010	FIELD BLANK	<0.05	<0.05	<0.05	<0.02	0.0250	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	0.200	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1	1	1	1	5	1	1	1	1	1	1	1	1	1	2	1
Comments							Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."											
Action							Let Value Stand											
Result							High blank value remains.											
X5	6/22/2010	FIELD BLANK	2.160	<0.05	0.08	0.490	0.3560	<0.02	<0.04	<100	0.03	0.16	<0.5	<0.002	<0.002	<0.2	10.200	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			43.2	1	1.6	24.5	71.2	1	1	1	3	3.2	1	1	1	1	102	1
Comments			Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.	Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
Action			Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest
Result			Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.
X5 Retest	6/22/2010	FIELD BLANK	0.120	<0.05	<0.05	0.020	0.1010	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.007	<0.2	0.800	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			2.4	1	1	1	20.2	1	1	1	1	1	1	1	3.5	1	8	1
Comments			Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank.	Retest for June 22 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for June 22 X5 blank.
Action			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand
Result			New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.
X14	7/20/2010	FIELD BLANK	0.160	<0.05	<0.05	<0.02	0.0480	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	0.200	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			3.2	1	1	1	9.6	1	1	1	1	1	1	1	1	1	2	1
Comments							Blank concentration > PQL and correctly entered into emLine.											
Action							Let Value Stand											
Result							High blank value remains.											
RCSG#4	8/3/2010	FIELD BLANK	0.070	<0.05	<0.05	<0.02	0.0460	<0.02	<0.04	<100	<0.01	0.06	<0.5	<0.002	0.0050	<0.2	0.300	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1.4	1	1	1	9.2	1	1	1	1	1.2	1	1	2.5	1	3	1
Comments							Blank concentration > PQL and correctly entered into emLine.											
Action							Let Value Stand											
Result							High blank value remains.											
X5	8/10/2010	FIELD BLANK	0.550	<0.05	<0.05	0.350	0.2350	<0.02	<0.04	<100	<0.01	0.10	<0.5	<0.002	0.0060	<0.2	2.100	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			11	1	1	17.5	47	1	1	1	1	2	1	1	3	1	21	1
Comments			Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.	Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
Action			Let Value Stand			Let Value Stand	Let Value Stand										Let Value Stand	
Result			High blank value remains.			High blank value remains.	High blank value remains. Retest not requested because lab already reanalyzed full suite because dissolved > total for some metals.										High blank value remains. Retest not requested because lab already reanalyzed full suite because dissolved > total for some metals.	
X5	8/17/2010	FIELD BLANK	0.420	<0.05	<0.05	0.070	0.3440	<0.02	<0.04	<100	<0.01	0.09	<0.5	<0.002	<0.002	<0.2	1.600	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			8.4	1	1	3.5	68.8	1	1	1	1	1.8	1	1	1	1	16	1
Comments			Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
Action			Let Value Stand				Request Retest										Let Value Stand	
Result			High blank value remains.				Retest performed, see results below.										High blank value remains.	

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-48: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Total Metals

Station	Date	Sample Type	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
			µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X5 Retest	8/17/2010	FIELD BLANK					0.2230											
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			0	0	0	0	44.6	0	0	0	0	0	0	0	0	0	0	0
Comments							Retest for August 10 X5 blank. Blank concentration > PQL and correctly entered into emLine.											
Action							Let Value Stand											
Result							New blank value entered into emLine.											
X5	9/7/2010	FIELD BLANK	16.400	<0.05	0.06	0.060	0.4610	0.62	<0.04	<100	0.02	1.14	<0.5	0.00	0.0080	<0.2	2.400	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			328	1	1.2	3	92.2	31	1	1	2	22.8	1	1.5	4	1	24	1
Comments			Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.	Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.					Blank concentration > PQL and correctly entered into emLine.	
Action			Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest	Request Retest
Result			Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.	Retest performed, see results below.
X5 Retest	9/7/2010	FIELD BLANK	16.300	<0.05	<0.05	0.050	0.5580	0.74	<0.04	<100	<0.01	1.15	<0.5	<0.002	<0.002	<0.2	2.200	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			326	1	1	2.5	111.6	37	1	1	1	23	1	1	1	1	22	1
Comments			Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank.	Retest for September 7 X5 blank. Blank concentration > PQL and correctly entered into emLine.	Retest for September 7 X5 blank.
Action			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand
Result			New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.	New blank value entered into emLine.
GDHSECK	10/6/2010	FIELD BLANK	0.510	<0.05	<0.05	0.030	0.1990	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	2.100	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			10.2	1	1	1.5	39.8	1	1	1	1	1	1	1	1	1	21	1
Comments			Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
Action			Let Value Stand				Request Retest										Request Retest	
Result			High blank value remains.				Retest performed, see results below.										Retest performed, see results below.	
GDHSECK Retest	10/6/2010	FIELD BLANK					0.12										1.40	
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			0	0	0	0	23	0	0	0	0	0	0	0	0	0	14	0
Comments							Retest for October 6 GDHSECK blank. Blank concentration > PQL and correctly entered into emLine.										Retest for October 6 GDHSECK blank. Blank concentration > PQL and correctly entered into emLine.	
Action							Let Value Stand										Let Value Stand	
Result							New blank value entered into emLine.										New blank value entered into emLine.	
X4	10/20/2010	FIELD BLANK	3.170	<0.05	<0.05	0.030	0.1030	<0.02	<0.04	<100	<0.01	0.17	<0.5	<0.002	0.0120	<0.2	8.200	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			63.4	1	1	1.5	20.6	1	1	1	1	3.4	1	1	6	1	82	1
Comments			Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.								Blank concentration > PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine.	
Action			Request Retest				Request Retest								Let Value Stand		Request Retest	
Result			Retest performed, see results below.				Retest performed, see results below.								High blank value remains.		Retest performed, see results below.	
X4 Retest	10/20/2010	FIELD BLANK	2.860				0.1320										6.800	
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			57.2	0	0	0	26.4	0	0	0	0	0	0	0	0	0	68	0
Comments			Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.				Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.										Retest for October 20 X4 blank. Blank concentration > PQL and correctly entered into emLine.	
Action			Let Value Stand				Let Value Stand										Let Value Stand	
Result			New blank value entered into emLine.				New blank value entered into emLine.										New blank value entered into emLine.	
X14	11/9/2010	FIELD BLANK	0.130	<0.05	<0.05	<0.02	0.1560	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	0.700	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			2.6	1	1	1	31.2	1	1	1	1	1	1	1	1	1	7	1
Comments							Blank concentration > PQL and correctly entered into emLine.										Blank concentration > PQL and correctly entered into emLine.	
Action							Let Value Stand										Let Value Stand	
Result							High blank value remains. Retest not requested because lab already reanalyzed full suite because dissolved > total for some metals.										High blank value remains.	
X5	11/18/2010	FIELD BLANK	0.610	<0.05	<0.05	0.070	0.0210	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	0.0250	<0.2	0.200	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			12.2	1	1	3.5	4.2	1	1	1	1	1	1	1	12.5	1	2	1
Comments			Blank concentration > PQL and correctly entered into emLine.												Blank concentration > PQL and correctly entered into emLine.			
Action			Let Value Stand												Let Value Stand			
Result			High blank value remains.												High blank value remains.			
X14	11/25/2010	FIELD BLANK	<0.05	<0.05	<0.05	<0.02	0.0210	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	0.0050	<0.2	0.300	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1	1	1	1	4.2	1	1	1	1	1	1	1	2.5	1	3	1
Comments																		
Action																		
Result																		
X2	12/1/2010	FIELD BLANK	<0.05	<0.05	<0.05	<0.02	0.0150	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	0.0110	<0.2	0.400	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1	1	1	1	3	1	1	1	1	1	1	1	5.5	1	4	1
Comments															Blank concentration > PQL and correctly entered into emLine.			
Action															Let Value Stand			
Result															High blank value remains.			

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-48: Rose Creek Drainage Water Quality
2010 QA/QC Field Blanks - Total Metals

Station	Date	Sample Type	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
			µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X14	12/2/2010	FIELD BLANK	1.790	<0.05	<0.05	0.050	0.0680	<0.02	<0.04	<100	<0.01	0.09	<0.5	<0.002	0.0160	<0.2	1.100	<0.1
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			35.8	1	1	2.5	13.6	1	1	1	1	1.8	1	1	8	1	11	1
Comments			Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.								Blank concentration > PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine.	
Action			Request Retest				Let Value Stand								Let Value Stand		Let Value Stand	
Result			Retest performed, see results below.				High blank value remains.								High blank value remains.		High blank value remains.	
X14 Retest	12/2/2010	FIELD BLANK	0.410															
Deionized Water			<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			8.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Comments			Retest for December 2 X14 blank. Blank concentration > PQL and correctly entered into emLine.															
Action			Let Value Stand															
Result			New blank value entered into emLine.															

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-49: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - General Parameters

Faro Mine Closure

Station	Date	Sample Type	Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Chloride	CN(wad)	CNTHIO	CO3	Colour	COND	DOC	HCO3	NH3	OH	pH	SO4-d	TDS	TOC	TSS	TURB
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	NTU
X10	1/11/2010	M			140.00	<0.5	165.00	166.00	<0.5			<0.5		326.0000	1.00	170.00	<0.01	<0.5	8.00	26.000	220.00	0.80	<1.0	0.8000
X10	1/11/2010	DUPLICATE			140.00	<0.5	166.00	164.00	0.60			<0.5		315.0000	0.90	170.00	0.08	<0.5	8.10	30.000	190.00	0.90	<1.0	0.7000
RPD (%)			N/A	N/A	0.00	N/A	0.60	1.21	N/A	N/A	N/A	N/A	N/A	3.43	10.53	0.00	N/A	N/A	0.10	14.29	14.63	11.76	N/A	13.33
Comments																								
Action																								
Result																								
X3	2/22/2010	M			140.00	<0.5	164.00	163.00	1.70			<0.5		314.00	1.40	170.00	<0.01	<0.5	7.90	28.00	180.00	1.20	<1.0	
X3	2/22/2010	DUPLICATE			140.00	<0.5	164.00	160.00	<0.5			<0.5		318.00	1.70	170.00	<0.01	<0.5	7.90	29.00	230.00	1.50	<1.0	0.60
RPD (%)			N/A	N/A	0.00	N/A	0.00	1.86	N/A	N/A	N/A	N/A	N/A	1.27	19.35	0.00	N/A	N/A	0.00	3.51	24.39	22.22	N/A	200.00
Comments																								Turbidity not run on main sample. Accidentally requested for duplicate sample.
Action																								**Let Value Stand**
Result																								No turbidity value for main sample.
X11	3/4/2010	M	<0.5	37.30	330.00	<0.5		1720.00	2.60			<0.5		2650.00		400.00		<0.5	7.60	1500.00			12.00	
X11	3/4/2010	DUPLICATE	<0.5	34.60	330.00	<0.5		1660.00	2.50			<0.5		2670.00		400.00		<0.5	7.70	1500.00			12.00	
RPD (%)			N/A	7.51	0.00	N/A	N/A	3.55	3.92	N/A	N/A	N/A	N/A	0.75	N/A	0.00	N/A	N/A	0.10	0.00	N/A	N/A	0.00	N/A
Comments																								
Action																								
Result																								
A30	3/28/2010	M	<0.5	6.30	28.00	<0.5		77.30	<0.5			<0.5		201.00		34.00		<0.5	7.30	56.00			<1.0	
A30	3/28/2010	DUPLICATE	<0.5	7.20	29.00	<0.5		83.90	<0.5			<0.5		204.00		36.00		<0.5	7.40	64.00			2.00	
RPD (%)			N/A	13.33	3.51	N/A	N/A	8.19	N/A	N/A	N/A	N/A	N/A	1.48	N/A	5.71	N/A	N/A	0.10	13.33	N/A	N/A	N/A	N/A
Comments																								
Action																								
Result																								
X14	4/6/2010	M			210.00	<0.5	652.00	657.00	0.80			<0.5		1170.00	1.30	260.00	0.29	<0.5	8.00	490.00	880.00	1.00	<1	
X14	4/6/2010	DUPLICATE			210.00	<0.5	634.00	645.00	0.60			<0.5		1170.00	1.30	250.00	0.30	<0.5	7.90	470.00	840.00	1.30	<1	
RPD (%)			N/A	N/A	0.00	N/A	2.80	1.84	28.57	N/A	N/A	N/A	N/A	0.00	0.00	3.92	3.39	N/A	0.10	4.17	4.65	26.09	N/A	N/A
Comments																								
Action																								
Result																								
X10	4/13/2010	M			150.00	<0.5	162.00	157.00	<0.5			<0.5		340.00	1.00	180.00	<0.01	<0.5	7.90	30.00	200.00		<1	
X10	4/13/2010	DUPLICATE			150.00	<0.5	159.00	155.00	<0.5			<0.5		331.00	1.00	180.00	0.07	<0.5	7.80	31.00	180.00	1.00	<1	
RPD (%)			N/A	N/A	0.00	N/A	1.87	1.28	N/A	N/A	N/A	N/A	N/A	2.68	0.00	0.00	N/A	N/A	0.10	3.28	10.53	200.00	N/A	N/A
Comments																						TOC not run on main sample because appropriate sample accidentally not sent in.		
Action																						**Let Value Stand**		
Result																						No TOC value for main sample.		
X5P	5/3/2010	M			53.00	<0.5	468.00	490.00	<0.5			<0.5		877.00		64.00	0.24	<0.5	7.80	420.00	650.00		3.00	
X5P	5/3/2010	DUPLICATE			58.00	<0.5	463.00	433.00	<0.5			<0.5		859.00		71.00	0.24	<0.5	7.80	420.00	640.00		2.00	
RPD (%)			N/A	N/A	9.01	N/A	1.07	12.35	N/A	N/A	N/A	N/A	N/A	2.07	N/A	10.37	0.00	N/A	0.00	0.00	1.55	N/A	40.00	N/A
Comments																								
Action																								
Result																								
X5	5/25/2010	M			110.00	<0.5	860.00	812.00			0.02	<0.5		1430.00		130.00	0.56	<0.5	7.90	720.00	1300.00		<1	
X5	5/25/2010	DUPLICATE			110.00	<0.5	882.00	841.00			0.02	<0.5		1440.00		130.00	0.54	<0.5	7.70	750.00	1200.00		<1	
RPD (%)			N/A	N/A	0.00	N/A	2.53	3.51	N/A	N/A	8.79	N/A	N/A	0.70	N/A	0.00	3.64	N/A	0.20	4.08	8.00	N/A	N/A	N/A
Comments																								
Action																								
Result																								

RPD > 50%

Denison Environmental Services

Table C-49: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - General Parameters

Faro Mine Closure

Station	Date	Sample Type	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	OH mg/L	pH	SO4-d mg/L	TDS mg/L	TOC mg/L	TSS mg/L	TURB NTU
X14	6/1/2010	M			55	<0.5	141	132	<0.5			<0.5		309	2.4	67	<0.005	<0.5	7.3	99	230	2.7	2	
X14	6/1/2010	DUPLICATE			63	<0.5	143	132	<0.5			<0.5		304	2.7	76	0.018	<0.5	7.7	90	200	2.3	2	
RPD (%)			N/A	N/A	13.56	N/A	1.41	0.00	N/A	N/A	N/A	N/A	N/A	1.63	11.76	12.59	N/A	N/A	0.40	9.52	13.95	16.00	0.00	N/A
Comments																								
Action																								
Result																								
X3	6/4/2010	M			40	<0.5	44.6	44.8	<0.5			<0.5		84	2.3	48	0.77	<0.5	7.7	6.3	54	2.6	5	
X3	6/4/2010	DUPLICATE			38	<0.5	45.5	43.5	<0.5			<0.5		85	2.9	47	<0.05	<0.5	7.6	6.4	50	2.6	4	
RPD (%)			N/A	N/A	5.13	N/A	2.00	2.94	N/A	N/A	N/A	N/A	N/A	1.18	23.08	2.11	N/A	N/A	0.10	1.57	7.69	0.00	22.22	N/A
Comments																								
Action																								
Result																								
A30	6/15/2010	M	<0.5	28	6.2	<0.5		122	<0.5			<0.5		320		7.5		<0.5	6.7	140			2	
A30	6/15/2010	DUPLICATE	<0.5	21.4	5.9	<0.5		120	<0.5			<0.5		320		7.2		<0.5	6.7	150			2	
RPD (%)			N/A	26.72	4.96	N/A	N/A	1.65	N/A	N/A	N/A	N/A	N/A	0.00	N/A	4.08	N/A	N/A	0.00	6.90	N/A	N/A	0.00	N/A
Comments																								
Action																								
Result																								
X14	6/15/2010	M			82	<0.5	209	211	<0.5			<0.5	15	446	3.1	100	0.06	<0.5	8.1	160	330	2.7	<1	0.7
X14	6/15/2010	DUPLICATE			82	<0.5	203	210	<0.5			<0.5	15	445	2.8	100	0.06	<0.5	8.1	150	320	2.8	<1	0.7
RPD (%)			N/A	N/A	0.00	N/A	2.91	0.48	N/A	N/A	N/A	N/A	0.00	0.22	10.17	0.00	0.00	N/A	0.00	6.45	3.08	3.64	N/A	0.00
Comments																								
Action																								
Result																								
R7	7/8/2010	M			64.00	<0.5	58.40	59.10	<0.5			<0.5		128.00		78.00	<0.05	<0.5	7.89	6.40	76.00		2.00	
R7	7/8/2010	DUPLICATE			64.00	<0.5	60.90	57.60	<0.5			<0.5		130.00		79.00	<0.05	<0.5	7.97	7.20	80.00		3.00	
RPD (%)			N/A	N/A	0.00	N/A	4.19	2.57	N/A	N/A	N/A	N/A	N/A	1.55	N/A	1.27	N/A	N/A	0.08	11.76	5.13	N/A	40.00	N/A
Comments																								
Action																								
Result																								
NWID	7/10/2010	M			120.00	<0.5	158.00	149.00	<0.5			<0.5		293.0000	2.90	150.00	<0.05	<0.5	8.05	31.000	140.00	3.00	<1	
NWID	7/10/2010	DUPLICATE			130.00	<0.5	148.00	145.00	<0.5			<0.5		295.0000	2.80	160.00	<0.05	<0.5	8.06	30.000	170.00	2.80	<1	
RPD (%)			N/A	N/A	8.00	N/A	6.54	2.72	N/A	N/A	N/A	N/A	N/A	0.68	3.51	6.45	N/A	N/A	0.01	3.28	19.35	6.90	N/A	N/A
Comments																								
Action																								
Result																								
X14	7/27/2010	M			97.00	<0.5	322.00	317.00	<0.5			<0.5	<5	637.00	3.00	120.00	0.16	<0.5	7.99	250.00	430.00	1.90	2.00	1.30
X14	7/27/2010	DUPLICATE			97.00	<0.5	329.00	322.00	<0.5			<0.5	10.00	631.00	2.90	120.00	0.16	<0.5	8.00	200.00	440.00	1.60	<1	1.40
RPD (%)			N/A	N/A	0.00	N/A	2.15	1.56	N/A	N/A	N/A	N/A	N/A	0.95	3.39	0.00	0.00	N/A	0.01	22.22	2.30	17.14	N/A	7.41
Comments																								
Action																								
Result																								
X11	8/5/2010	M	<0.5	33.70	300.00	<0.5		1640.00	2.50			<0.5		2540.00		370.00		<0.5	7.37	1400.00			8.00	
X11	8/5/2010	DUPLICATE	<0.5	33.90	310.00	<0.5		1570.00	2.10			<0.5		2540.00		370.00		<0.5	7.37	1400.00			7.00	
RPD (%)			N/A	0.59	3.28	N/A	N/A	4.36	17.39	N/A	N/A	N/A	N/A	0.00	N/A	0.00	N/A	N/A	0.00	0.00	N/A	N/A	13.33	N/A
Comments																								
Action																								
Result																								
A30	8/5/2010	M	<0.5	21.00	13.00	<0.5		116.00	<0.5			<0.5		312.00		15.00		<0.5	6.75	130.00			<1	
A30	8/5/2010	DUPLICATE	<0.5	19.20	14.00	<0.5		120.00	<0.5			<0.5		314.00		17.00		<0.5	6.83	130.00			2.00	
RPD (%)			N/A	8.96	7.41	N/A	N/A	3.39	N/A	N/A	N/A	N/A	N/A	0.64	N/A	12.50	N/A	N/A	0.08	0.00	N/A	N/A	N/A	N/A
Comments																								
Action																								
Result																								

RPD > 50%

Denison Environmental Services

Table C-49: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - General Parameters

Faro Mine Closure

Station	Date	Sample Type	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	OH mg/L	pH	SO4-d mg/L	TDS mg/L	TOC mg/L	TSS mg/L	TURB NTU
X14	8/24/2010	M			94.00	<0.5	249.00	247.00	1.80			<0.5		496.00	2.50	110.00	0.07	<0.5	8.09	160.00	320.00	2.50	<1	
X14	8/24/2010	DUPLICATE			94.00	<0.5	256.00	242.00	1.10			<0.5		496.00	3.00	110.00	0.08	<0.5	8.11	180.00	330.00	3.50	<1	
RPD (%)			N/A	N/A	0.00	N/A	2.77	2.04	48.28	N/A	N/A	N/A	N/A	0.00	18.18	0.00	13.33	N/A	0.02	11.76	3.08	33.33	N/A	N/A
Comments																								
Action																								
Result																								
X5	8/31/2010	M			87.00	<0.5	1020.00	1020.00	1.30		0.04	<0.5	<5	1770.00		110.00	1.00	<0.5	7.84	1100.00	1500.00		2.00	4.80
X5	8/31/2010	DUPLICATE			87.00	<0.5	1020.00	1070.00	1.20		0.04	<0.5	<5	1770.00		110.00	0.87	<0.5	7.87	1000.00	1600.00		2.00	4.70
RPD (%)			N/A	N/A	0.00	N/A	0.00	4.78	8.00	N/A	5.77	N/A	N/A	0.00	N/A	0.00	13.90	N/A	0.03	9.52	6.45	N/A	0.00	2.11
Comments																								
Action																								
Result																								
X2	10/18/2010	M			99.00	<0.5	115.00	109.00	<0.5			<0.5		226.00	1.20	120.00	0.04	<0.5	7.96	19.00	130.00	2.00	<1	1.10
X2	10/18/2010	DUPLICATE			99.00	<0.5	112.00	115.00	<0.5			<0.5		226.00	1.20	120.00	0.02	<0.5	7.94	19.00	120.00	1.30	<1	1.30
RPD (%)			N/A	N/A	0.00	N/A	2.64	5.36	N/A	N/A	N/A	N/A	N/A	0.00	0.00	0.00	78.57	N/A	0.02	0.00	8.00	42.42	N/A	16.67
Comments																	Both values correctly entered into emLine; however, duplicate value not > PQL. Therefore, RPD analysis not valid in this case.							
Action																	**Let Value Stand**							
Result																	Discrepancy between values remains.							

RPD > 50%

Denison Environmental Services

Table C-50: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - Dissolved Metals

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
X10	1/11/2010	M	<0.005	1.70	0.14	69.800	<50.0	<0.01	<0.005	47.30	0.02	0.0540	<0.1	0.4100	34.00		1.14	0.007	11.50	25.500	0.67	3.06	0.790	0.2020	0.07	11	0.4200	6080.00	<0.01	192.00	<0.5	<0.002	2.5400	<0.2	43.600	<0.1
X10	1/11/2010	DUPLICATE	<0.005	1.10	0.16	69.400	<50.0	<0.01	<0.005	47.20	0.01	0.0490	<0.1	0.3700	32.00		1.12	0.007	11.30	24.200	0.69	3.02	0.750	0.0770	0.08	10	0.4200	5670.00	<0.01	187.00	<0.5	<0.002	2.5700	<0.2	42.800	<0.1
RPD (%)			N/A	42.86	13.33	0.57	N/A	N/A	N/A	0.21	22.22	9.71	N/A	10.26	6.06	N/A	1.77	2.99	1.75	5.23	2.94	1.32	5.19	89.61	13.33	9.52	0.00	6.98	N/A	2.64	N/A	N/A	1.17	N/A	1.85	N/A
Comments																								Both values > PQL and correctly entered into emLine. Lab noted on main sample that "Dissolved greater than total. Reanalysis yields similar results."												
Action																								**Let Value Stand**											
Result																								Discrepancy between values remains.											
X3	2/22/2010	M	<0.005	1.70	0.20	69.10	<50.0	<0.01	<0.005	47.80	0.01	0.11	<0.1	0.29	28.00		1.19	0.01	10.60	48.80	0.75	3.38	0.58	0.04	0.05	11.00	0.39	6170.00	<0.01	199.0	<0.5	<0.002	2.68	<0.2	20.00	<0.1
X3	2/22/2010	DUPLICATE	<0.005	2.10	0.22	69.60	<50.0	<0.01	<0.005	46.60	0.01	0.10	<0.1	0.28	29.00		1.15	0.01	10.60	48.30	0.79	3.40	0.58	0.09	0.05	10.00	0.41	5740.00	<0.01	200.0	<0.5	<0.002	2.72	<0.2	20.20	<0.1
RPD (%)			N/A	21.05	9.52	0.72	N/A	N/A	N/A	2.54	0.00	3.88	N/A	3.51	3.51	N/A	3.42	2.50	0.00	1.03	5.19	0.59	0.00	72.87	0.00	9.52	5.00	7.22	N/A	0.50	N/A	N/A	1.48	N/A	1.00	N/A
Comments																								Both values > PQL and correctly entered into emLine.											
Action																								**Let Value Stand**											
Result																								Discrepancy between values remains.											
X11	3/4/2010	M	<0.03	4.00	3.30	51.40	<300.0	<0.05	<0.03	519.00	0.11	33.40	<0.5	<0.3	5800.00		7.90	0.02	104.00	28200.00	0.50	36.80	38.50	2.41	<0.1	526.00	<0.2	7840.00	<0.05	1380.0	<3.0	0.050	5.88	<1.0	13.50	<0.5
X11	3/4/2010	DUPLICATE	<0.03	3.00	3.20	51.50	<300.0	<0.05	<0.03	496.00	0.14	32.40	<0.5	<0.3	5700.00		7.70	0.02	102.00	27200.00	0.40	35.80	38.00	13.40	<0.1	483.00	<0.2	7190.00	<0.05	1370.0	<3.0	0.050	6.05	<1.0	54.00	<0.5
RPD (%)			N/A	28.57	3.08	0.19	N/A	N/A	N/A	4.53	24.00	3.04	N/A	N/A	1.74	N/A	2.56	4.44	1.94	3.61	22.22	2.75	1.31	139.03	N/A	8.52	N/A	8.65	N/A	0.73	N/A	0.00	2.85	N/A	120.00	N/A
Comments																								Both values > PQL and correctly entered into emLine.										Both values > PQL and correctly entered into emLine.	
Action																								**Request Retest**										**Request Retest**	
Result																								Retest performed, see results below.										Retest performed, see results below.	
X11 Retest	4/23/2010	M																						2.65										13.50	
X11 Retest	4/23/2010	DUPLICATE																						14.80										68.90	
RPD (%)			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	139.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	134.47	N/A
Comments																								Retest for April 23 X11 sample and duplicate. Both values > PQL and correctly entered into emLine. Duplicate will be performed at X11 at next sampling event.										Retest for April 23 X11 sample and duplicate. Both values > PQL and correctly entered into emLine. Duplicate will be performed at X11 at next sampling event.	
Action																								**Let Value Stand**										**Let Value Stand**	
Result																								New values entered into emLine.										New values entered into emLine.	
A30	3/28/2010	M	<0.02	28.00	<0.1	21.00	<50.0	<0.1	<1.0	17.60	2.69	0.60	<1.0	11.80	<5.0	<0.02	0.67	0.01	8.10	29.00	<1.0	2.20	10.00	2.70	<0.5	20.00	0.30	6120.00	<5.0	79.0	<5.0	<0.05	0.50	<5.0	2960.00	<0.5
A30	3/28/2010	DUPLICATE	<0.02	28.00	<0.1	21.00	<50.0	<0.1	<1.0	19.10	2.99	0.60	<1.0	12.50	<5.0	<0.02	0.70	0.01	8.81	31.00	<1.0	2.35	11.00	2.40	<0.5	22.00	0.30	5280.00	<5.0	79.0	<5.0	<0.05	0.50	<5.0	3200.00	<0.5
RPD (%)			N/A	0.00	N/A	0.00	N/A	N/A	N/A	8.17	10.56	0.00	N/A	5.76	N/A	N/A	4.38	0.00	8.40	6.67	N/A	6.59	9.52	11.76	N/A	9.52	0.00	14.74	N/A	0.00	N/A	N/A	0.00	N/A	7.79	N/A
Comments																																			
Action																																			
Result																																			
X14	4/6/2010	M	<0.005	1.20	0.33	60.50	<50	<0.01	<0.005	196.00	0.10	8.93	<0.1	0.30	165.00		3.59	0.01	40.60	7300.00	0.92	14.90	14.90	0.08	0.09	173.00	0.34	5800.00	<0.01	590.0	0.60	0.052	4.57	<0.2	108.00	<0.1
X14	4/6/2010	DUPLICATE	<0.005	1.00	0.34	61.60	<50	<0.01	<0.005	192.00	0.09	8.94	<0.1	0.27	206.00		3.52	0.01	40.30	7200.00	1.00	14.90	15.10	0.05	0.09	174.00	0.35	5630.00	<0.01	593.0	<0.5	0.058	4.56	<0.2	109.00	<0.1
RPD (%)			N/A	18.18	2.99	1.80	N/A	N/A	N/A	2.06	14.74	0.11	N/A	10.53	22.10	N/A	1.97	1.49	0.74	1.38	8.33	0.00	1.33	41.94	0.00	0.58	2.90	2.97	N/A	0.51	N/A	10.91	0.22	N/A	0.92	N/A
Comments																																			
Action																																			
Result																																			
X10	4/13/2010	M	<0.005	2.10	0.12	69.60	<50	<0.01	<0.005	45.10	0.01	0.04	<0.1	0.35	35.00		1.10	8.40	10.70	14.90	0.80	3.15	0.76	0.41	0.07	11.00	0.46	4940.00	0.02	208.0	<0.5	0.003	3.01	<0.2	43.40	<0.1
	4/13/2010	DUPLICATE	<0.005	1.60	0.11	67.60	<50	<0.01	<0.005	44.80	0.01	0.04	<0.1	0.26	28.00		1.07	8.00	10.50	14.10	0.81	3.06	0.65	0.23	0.07	<10	0.44	4990.00	<0.01	203.0	<0.5	<0.002	2.99	<0.2	40.90	<0.1
RPD (%)			N/A	27.03	8.70	2.92	N/A	N/A	N/A	0.67	15.38	5.56	N/A	29.51	22.22	N/A	2.76	4.88	1.89	5.52	1.24	2.90	15.60	55.50	0.00	N/A	4.44	1.01	N/A	2.43	N/A	N/A	0.67	N/A	5.93	N/A
Comments																								Both values > PQL and correctly entered into emLine.											
Action																								**Let Value Stand**											
Result																								Discrepancy between values remains.											
X5P	5/3/2010	M	<0.005	2.00	0.09	20.10	<50	<0.01	0.02	169.00	0.06	1.76	<0.1	0.29	7.00		2.81	0.01	16.70	1100.00	0.49	7.75	3.18	0.20	0.15	166.00	0.15	1460.00	<0.01	484.0	<3	0.330	1.80	<1	216.00	<0.5
X5P	5/3/2010	DUPLICATE	<0.005	3.30	0.10	21.20	<50	<0.01	<0.005	147.00	0.06	2.01	<0.1	0.41	10.00		2.47	0.01	16.20	1230.00	0.49	7.18	3.52	0.40	0.15	145.00	0.14	1380.00	<0.01	446.0	<3	0.360	1.83	<1	223.00	<0.5
RPD (%)			N/A	49.06	10.53	5.33	N/A	N/A	N/A	13.92	1.77	13.26	N/A	34.29	35.29	N/A	12.88	6.84	3.04	11.16	0.00	7.64	10.15	67.79	0.00	13.50	6.90	5.63	N/A	8.17	N/A	8.70	1.65	N/A	3.19	N/A
Comments																								Both values > PQL and correctly entered into emLine.											
Action																								**Let Value Stand**											
Result																								Discrepancy between values remains.											
X5	5/25/2010	M	<0.03	4.00	<0.1	18.30	<300	<0.05	<0.03	238.00	0.16	11.20	<0.5	<0.3	27.00		4.60	0.03	53.10	6270.00	0.40	16.60	17.00	0.66	<0.1	273.00	<0.2	2740.00	<0.05	669.0	<3	0.330	1.80	<1	216.00	<0.5
X5	5/25/2010	DUPLICATE	<0.03	7.00	0.20	18.70	<300	<0.05	<0.03	245.00	0.14	11.10	<0.5	0.50	35.00		4.80	0.03	55.40	6330.00	<0.3	17.00	16.60	0.57	<0.1	269.00	<0.2	2780.00	<0.05	684.0	<3	0.360	1.83	<1	223.00	<0.5
RPD (%)			N/A	54.55	N/A	2.16	N/A	N/A	N/A	2.90	13.33	0.90	N/A	N/A	25.81	N/A	4.26	3.92	4.24	0.95	N/A	2.38	2.38	14.63	N/A	1.48	N/A	1.45	N/A	2.22	N/A	8.70	1.65	N/A	3.19	N/A
Comments				Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.																																	
Action				**Let Value Stand**																																	
Result				Discrepancy between values remains.																																	

RPD > 50%

RPD > 100%

Denison Environmental Services

Table C-50: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - Dissolved Metals

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
X14	6/1/2010	M	<0.005	18.4	0.32	28.5	<50	<0.01	0.014	38.7	0.028	1.47	<0.1	0.77	138		0.96	0.0039	8.69	984	0.3	2.9	2.7	1.82	0.07	30	0.13	3460	<0.01	138	<0.5	0.031	0.796	<0.2	30.8	<0.1
X14	6/1/2010	DUPLICATE	<0.005	18.4	0.31	28.3	<50	<0.01	0.014	38.5	0.022	1.49	<0.1	2	124		0.94	0.0038	8.7	972	0.31	2.86	2.75	0.887	0.07	28	0.12	3370	<0.01	138	<0.5	0.029	0.78	<0.2	29.9	<0.1
RPD (%)			N/A	0.00	3.17	0.70	N/A	N/A	0.00	0.52	24.00	1.35	N/A	88.81	10.69	N/A	2.11	2.60	0.12	1.23	3.28	1.39	1.83	68.93	0.00	6.90	8.00	2.64	N/A	0.00	N/A	6.67	2.03	N/A	2.97	N/A
Comments														Both values > PQL and correctly entered into emLine. Lab noted on duplicate sample that "Dissolved greater than total. Reanalysis yields similar results."											Both values > PQL and correctly entered into emLine. Lab noted on main sample that "Dissolved greater than total. Reanalysis yields similar results."												
Action														Let Value Stand										Let Value Stand												
Result														Discrepancy between values remains.										Discrepancy between values remains.												
X3	6/4/2010	M	<0.005	23.8	0.32	23.8	<50	<0.01	<0.005	13.1	0.015	0.037	<0.1	0.74	77		0.54	0.0014	2.93	8.85	0.2	1.48	0.44	0.992	0.06	<10	0.09	3940	0.02	58	<0.5	<0.002	0.505	<0.2	4.5	<0.1
X3	6/4/2010	DUPLICATE	<0.005	24.4	0.31	24.5	<50	<0.01	0.017	12.7	0.027	0.04	<0.1	0.94	75		0.54	0.0014	2.89	9.16	0.22	1.46	0.48	1.15	0.06	<10	0.08	3860	<0.01	59.8	<0.5	<0.002	0.503	<0.2	5	<0.1
RPD (%)			N/A	2.49	3.17	2.90	N/A	N/A	N/A	3.10	57.14	7.79	N/A	23.81	2.63	N/A	0.00	0.00	1.37	3.44	9.52	1.36	8.70	14.75	0.00	N/A	11.76	2.05	N/A	3.06	N/A	N/A	0.40	N/A	10.53	N/A
Comments											Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.																								
Action											Let Value Stand																								
Result											Discrepancy between values remains.																								
A30	6/15/2010	M	0.07	599	<0.1	20	<50	0.6	<1	20.3	14	9.1	<1	120	8		0.91	0.016	17.3	366	<1	2.55	32	29.9	<0.5	48	0.2	7310	<5	99	<5	<0.05	1.2	<5	9350	<0.5
A30	6/15/2010	DUPLICATE	0.08	592	<0.1	20	<50	0.5	<1	20.1	13.9	8.9	<1	118	12		0.92	0.015	16.8	362	<1	2.52	32	29.9	<0.5	48	0.2	7350	<5	96	<5	<0.05	1.2	<5	9240	<0.5
RPD (%)			13.33	1.18	N/A	0.00	N/A	18.18	N/A	0.99	0.72	2.22	N/A	1.68	40.00	N/A	1.09	6.45	2.93	1.10	N/A	1.18	0.00	0.00	N/A	0.00	0.00	0.55	N/A	3.08	N/A	N/A	0.00	N/A	1.18	N/A
Comments																																				
Action																																				
Result																																				
X14	6/15/2010	M	<0.005	8.4	0.34	33.5	<50	<0.01	<0.005	60.9	0.04	2.7	<0.1	0.57	173	<0.01	1.35	0.0061	14.3	1710	0.35	4.62	4.48	0.448	0.08	53	0.18	4090	<0.01	199	<0.5	0.051	1.15	<0.2	46	<0.1
X14	6/15/2010	DUPLICATE	<0.005	8.2	0.33	33.1	<50	<0.01	<0.005	60.7	0.035	2.65	<0.1	0.6	181	<0.01	1.32	0.006	14.2	1710	0.33	4.6	4.45	0.376	0.08	53	0.19	4020	<0.01	203	<0.5	0.051	1.11	<0.2	44.4	<0.1
RPD (%)			N/A	2.41	2.99	1.20	N/A	N/A	N/A	0.33	13.33	1.87	N/A	5.13	4.52	N/A	2.25	1.65	0.70	0.00	5.88	0.43	0.67	17.48	0.00	0.00	5.41	1.73	N/A	1.99	N/A	0.00	3.54	N/A	3.54	N/A
Comments																																				
Action																																				
Result																																				
R7	7/8/2010	M	<0.005	15.60	0.55	38.800	<50	<0.01	0.01	17.80	0.02	0.0320	<0.1	0.5900	92.00		0.41	0.002	3.57	11.700	0.35	1.52	0.340	1.8000	0.09	<10	0.1800	4220.00	<0.01	79.40	<0.5	0.00	0.6560	<0.2	5.200	<0.1
R7	7/8/2010	DUPLICATE	<0.005	14.60	0.50	37.800	<50	<0.01	0.04	17.30	0.03	0.0330	<0.1	0.6100	90.00		0.42	0.002	3.47	11.500	0.35	1.46	0.280	1.9500	0.08	<10	0.1700	4090.00	<0.01	78.40	<0.5	0.00	0.6500	<0.2	5.600	<0.1
RPD (%)			N/A	6.62	9.52	2.61	N/A	N/A	121.57	2.85	29.79	3.08	N/A	3.33	2.20	N/A	2.41	4.44	2.84	1.72	0.00	4.03	19.35	8.00	11.76	N/A	5.71	3.13	N/A	1.27	N/A	0.00	0.92	N/A	7.41	N/A
Comments									Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.																								
Action									Let Value Stand																											
Result									Discrepancy between values remains.																											
NWID	7/10/2010	M	<0.005	10.00	0.21	48.60	<50	<0.01	<0.005	48.80	0.07	0.05	<0.1	1.38	24.00		1.50	0.01	6.66	3.35	0.27	2.86	0.80	4.14	0.06	13.00	0.22	6720.00	<0.01	192.0	<0.5	0.006	1.00	<0.2	31.30	<0.1
NWID	7/10/2010	DUPLICATE	<0.005	8.90	0.20	47.20	<50	<0.01	<0.005	47.70	0.06	0.03	<0.1	1.27	24.00		1.44	0.01	6.29	0.84	0.34	2.70	0.69	2.76	0.06	12.00	0.20	6770.00	0.02	189.0	<0.5	0.008	0.96	0.30	19.40	<0.1
RPD (%)			N/A	11.64	4.88	2.92	N/A	N/A	N/A	2.28	13.74	36.84	N/A	8.30	0.00	N/A	4.08	0.00	5.71	119.81	22.95	5.76	14.77	40.00	0.00	8.00	9.52	0.74	N/A	1.57	N/A	28.57	3.58	N/A	46.94	N/A
Comments																				Both values > PQL and correctly entered into emLine. Lab noted on main sample that "Dissolved greater than total. Reanalysis yields similar results."																							
Action																				Let Value Stand															
Result																				Discrepancy between values remains. Retest not requested because lab already reanalyzed.																							
X14	7/27/2010	M	<0.005	6.70	0.37	42.10	<50	<0.01	<0.005	91.20	0.08	4.01	<0.1	1.52	196.00		2.29	0.01	21.60	2330.00	0.51	6.91	6.15	3.28	0.13	91.00	0.18	4170.00	0.02	317.0	<0.5	0.127	1.38	<0.2	72.10	<0.1
X14	7/27/2010	DUPLICATE	<0.005	5.90	0.38	42.50	<50	<0.01	<0.005	93.00	0.08	4.04	<0.1	1.24	215.00		2.26	0.01	21.90	2340.00	0.47	6.93	6.49	1.79	0.11	92.00	0.18	4260.00	0.02	315.0	<0.5	0.123	1.35	<0.2	70.20	<0.1
RPD (%)			N/A	12.70	2.67	0.95	N/A	N/A	N/A	1.95	3.68	0.75	N/A	20.29	9.25	N/A	1.32	1.85	1.38	0.43	8.16	0.29	5.38	58.78	16.67	1.09	0.00	2.14	0.00	0.63	N/A	3.20	2.20	N/A	2.67	N/A
Comments																								Both values > PQL and correctly entered into emLine. Lab noted on both samples that "Dissolved greater than total. Reanalysis yields similar results."																							
Action																								Let Value Stand												
Result																								Discrepancy between values remains.												
X11	8/5/2010	M	<0.03	3.00	1.60	34.30	<300	<0.05	<0.03	491.00	0.12	24.00	<0.5	<0.3	3530.00	<0.05	7.10	0.02	99.40	23700.00	0.40	34.60	32.00	0.20	<0.1	505.00	<0.2	8960.00	<0.05	1170.0	<3	0.040	4.99	<1	11.10	<0.5
X11	8/5/2010	DUPLICATE	<0.03	6.00	1.70	34.30	<300	<0.05	<0.03	470.00	0.11	24.50	<0.5	<0.3	3510.00	<0.05	6.90	0.02	95.40	23400.00	0.50	33.30	29.80	0.25	<0.1	496.00	<0.2	7910.00	<0.05	1170.0	<3	0.040	5.13	<1	13.30	<0.5
RPD (%)			N/A	66.67	6.06	0.00	N/A	N/A	N/A	4.37	8.70	2.06	N/A	N/A	0.57	N/A	2.86	0.00	4.11	1.27	22.22	3.83	7.12	22.22	N/A	1.80	N/A	12.45	N/A	0.00	N/A	0.00	2.77	N/A	18.03	N/A
Comments				Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.																																	
Action				Let Value Stand																																	
Result				Discrepancy between values remains.																																	

RPD > 50%

RPD > 100%

Denison Environmental Services

Table C-50: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - Dissolved Metals

Station	Date	Sample Type	Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	Hg-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	S-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
A30	8/5/2010	M	0.05	226.00	<0.1	16.00	<50	0.20	<1	20.70	11.90	4.70	<1	68.80	<5		0.86	0.01	15.70	201.00	<1	2.23	31.00	13.10	<0.5	44.00	<0.1	7050.00	<5	86.0	<5	<0.05	0.60	<5	9930.00	<0.5
A30	8/5/2010	DUPLICATE	0.05	238.00	<0.1	17.00	<50	0.30	<1	20.90	12.40	5.10	<1	75.00	7.00		0.94	0.01	16.40	215.00	<1	2.67	33.00	14.40	<0.5	46.00	0.20	6710.00	<5	95.0	<5	<0.05	0.60	<5	9870.00	<0.5
RPD (%)			0.00	5.17	N/A	6.06	N/A	40.00	N/A	0.96	4.12	8.16	N/A	8.62	N/A	N/A	8.89	0.00	4.36	6.73	N/A	17.96	6.25	9.45	N/A	4.44	N/A	4.94	N/A	9.94	N/A	N/A	0.00	N/A	0.61	N/A
Comments																																			
Action																																			
Result																																			
X14	8/24/2010	M	<0.005	3.60	0.38	42.10	<50	<0.01	<0.005	72.80	0.04	2.04	<0.1	0.50	258.00	<0.01	1.63	0.01	15.90	1340.00	0.49	5.25	3.52	0.29	0.09	60.00	0.18	3520.00	<0.01	249.0	<0.5	0.083	1.38	<0.2	39.90	<0.1
X14	8/24/2010	DUPLICATE	<0.005	3.70	0.39	42.60	<50	<0.01	<0.005	70.60	0.04	2.06	<0.1	0.47	260.00	<0.01	1.62	0.01	15.90	1320.00	0.49	5.21	3.47	0.24	0.09	58.00	0.19	3310.00	<0.01	245.0	<0.5	0.080	1.40	<0.2	38.60	<0.1
RPD (%)			N/A	2.74	2.60	1.18	N/A	N/A	N/A	3.07	2.74	0.98	N/A	6.19	0.77	N/A	0.62	0.00	0.00	1.50	0.00	0.76	1.43	19.77	0.00	3.39	5.41	6.15	N/A	1.62	N/A	3.68	1.44	N/A	3.31	N/A
Comments																																			
Action																																			
Result																																			
X5	8/31/2010	M	<0.03	5.00	0.30	14.50	<300	<0.05	<0.03	295.00	0.15	14.40	<0.5	1.20	48.00	<0.05	6.50	0.04	67.70	7580.00	0.50	20.90	19.10	1.18	0.30	347.00	<0.2	2400.00	<0.05	964.0	<3	0.720	1.51	<1	194.00	<0.5
X5	8/31/2010	DUPLICATE	<0.03	2.00	0.20	15.20	<300	<0.05	<0.03	312.00	0.19	15.80	<0.5	<0.3	39.00	<0.05	7.00	0.04	71.10	8160.00	0.60	22.00	20.30	0.27	0.30	356.00	<0.2	2440.00	<0.05	995.0	<3	0.730	1.54	<1	208.00	<0.5
RPD (%)			N/A	85.71	40.00	4.71	N/A	N/A	N/A	5.60	23.53	9.27	N/A	N/A	20.69	N/A	7.41	2.53	4.90	7.37	18.18	5.13	6.09	125.52	0.00	2.56	N/A	1.65	N/A	3.16	N/A	1.38	1.97	N/A	6.97	N/A
Comments				Both values correctly entered into emLine; however, duplicate value not > PQL. Therefore, RPD analysis not valid in this case.																				Both values > PQL and correctly entered into emLine.													
Action				**Let Value Stand**																				**Request Retest**												
Result				Discrepancy between values remains.																				Retest performed, see results below.												
X5 Retest	8/31/2010	M																						0.90											
X5 Retest	8/31/2010	DUPLICATE																						0.26											
RPD (%)			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	109.85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments																								Retest for August 31 X5 sample and duplicate. Both values > PQL and correctly entered into emLine.												
Action																								**Let Value Stand**												
Result																								New values entered into emLine.												
X2	10/18/2010	M	<0.005	4.50	0.42	51.60	<50	<0.01	<0.005	31.50	0.02	0.14	<0.1	0.50	116.00		0.75	0.00	7.36	68.60	0.62	2.46	0.55	0.87	0.07	<10	0.34	5360.00	0.07	135.0	<0.5	0.003	1.51	<0.2	14.40	<0.1
X2	10/18/2010	DUPLICATE	<0.005	3.50	0.37	53.60	<50	<0.01	<0.005	33.90	0.01	0.15	<0.1	0.40	126.00		0.73	0.01	7.33	66.10	0.57	2.44	0.55	0.24	0.08	<10	0.30	5410.00	<0.01	142.0	<0.5	0.003	1.60	<0.2	13.60	<0.1
RPD (%)			N/A	25.00	12.66	3.80	N/A	N/A	N/A	7.34	30.30	2.78	N/A	22.22	8.26	N/A	2.70	8.16	0.41	3.71	8.40	0.82	0.00	114.42	13.33	N/A	12.50	0.93	N/A	5.05	N/A	0.00	5.79	N/A	5.71	N/A
Comments																								Both values > PQL and correctly entered into emLine. Lab noted on main sample that "Dissolved greater than total. Reanalysis yields similar results."												
Action																								**Let Value Stand**												
Result																								Discrepancy between values remains. Retest not requested because lab already reanalyzed.												
X2 Retest	10/18/2010	M																						0.81											
X2 Retest	10/18/2010	DUPLICATE																						0.33											
RPD (%)			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	83.55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments																								Retest for October 18 X2 sample and duplicate. Both values > PQL and correctly entered into emLine.												
Action																								**Let Value Stand**												
Result																								New values entered into emLine.												

RPD > 50%
RPD > 100%

Denison Environmental Services

Table C-51: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - Total Metals

Station	Date	Sample Type	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X10	1/11/2010	M	<0.005	3.10	0.19	<50	70.60	<0.01	<0.005	47.10	0.02	0.0490	<0.1	0.3700	104.00		1.12	0.007	11.50	26.400	0.67	3.03	0.790	0.1450	11.00	0	0.4200	5850.00	<0.01	192.00	<0.5	<0.002	2.5300	<0.2	44.700	<0.1
X10	1/11/2010	DUPLICATE	<0.005	2.70	0.18	<50	70.80	<0.01	<0.005	47.80	0.01	0.0530	<0.1	0.3800	104.00		1.14	0.007	11.30	26.100	0.69	3.01	0.770	0.2230	11.00	0	0.4300	5870.00	<0.01	192.00	<0.5	<0.002	2.5100	<0.2	45.200	<0.1
	RPD (%)		N/A	13.79	5.41	N/A	0.28	N/A	N/A	1.48	56.00	7.84	N/A	2.67	0.00	N/A	1.77	1.50	1.75	1.14	2.94	0.66	2.56	42.39	0.00	0.00	2.35	0.34	N/A	0.00	N/A	N/A	0.79	N/A	1.11	N/A
	Comments										Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.																								
	Action										Let Value Stand																									
	Result										Discrepancy between values remains.																									
X3	2/22/2010	M	<0.005	2.80	0.29	<50	69.60	<0.01	<0.005	47.60	0.01	0.12	<0.1	0.40	72.00		1.19	0.01	10.90	50.40	0.73	3.47	0.62	0.11	12.00	0.06	0.41	6350.00	<0.01	199.0	<0.5	<0.002	2.78	<0.2	20.00	<0.1
X3	2/22/2010	DUPLICATE	<0.005	3.10	0.31	<50	71.40	<0.01	<0.005	47.70	0.01	0.11	<0.1	0.29	74.00		1.18	0.01	10.90	50.30	0.75	3.43	0.64	0.13	11.00	0.06	0.41	6390.00	<0.01	199.0	<0.5	<0.002	2.82	<0.2	20.30	<0.1
	RPD (%)		N/A	10.17	6.67	N/A	2.55	N/A	N/A	0.21	0.00	11.66	N/A	31.88	2.74	N/A	0.84	0.00	0.00	0.20	2.70	1.16	3.17	13.56	8.70	0.00	0.00	0.63	N/A	0.00	N/A	N/A	1.43	N/A	1.49	N/A
	Comments																																			
	Action																																			
	Result																																			
X14	4/6/2010	M	<0.005	2.60	0.42	<50	58.80	<0.01	<0.005	193.00	0.10	8.96	0.20	0.32	442.00		3.49	0.01	41.20	7240.00	0.95	15.10	15.20	0.13	184.00	0.09	0.36	6070.00	<0.01	585.0	<0.5	0.054	4.46	<0.2	110.00	<0.1
X14	4/6/2010	DUPLICATE	<0.005	2.90	0.39	<50	58.60	<0.01	<0.005	187.00	0.09	8.76	<0.1	0.30	399.00		3.33	0.01	40.20	6990.00	0.91	14.60	15.20	0.14	177.00	0.09	0.35	5780.00	<0.01	568.0	<0.5	0.052	4.39	<0.2	110.00	<0.1
	RPD (%)		N/A	10.91	7.41	N/A	0.34	N/A	N/A	3.16	9.94	2.26	N/A	6.45	10.23	N/A	4.69	0.75	2.46	3.51	4.30	3.37	0.00	6.74	3.88	0.00	2.82	4.89	N/A	2.95	N/A	3.77	1.58	N/A	0.00	N/A
	Comments																																			
	Action																																			
	Result																																			
X10	4/13/2010	M	<0.005	3.80	0.18	<50	71.30	<0.01	<0.005	47.60	0.02	0.04	<0.1	0.32	91.00		1.16	0.01	10.50	16.00	0.79	2.99	0.66	0.57	11.00	0.07	0.40	5480.00	<0.01	204.0	<0.5	<0.002	2.92	<0.2	45.70	<0.1
X10	4/13/2010	DUPLICATE	<0.005	4.10	0.17	<50	70.50	<0.01	<0.005	46.50	0.01	0.04	<0.1	0.23	92.00		1.13	0.01	10.40	15.60	0.83	2.97	0.64	0.37	<10	0.06	0.45	5480.00	<0.01	202.0	<0.5	<0.002	2.92	<0.2	43.00	<0.1
	RPD (%)		N/A	7.59	5.71	N/A	1.13	N/A	N/A	2.34	35.29	2.47	N/A	32.73	1.09	N/A	2.62	0.00	0.96	2.53	4.94	0.67	3.08	41.86	N/A	15.38	11.76	0.00	N/A	0.99	N/A	N/A	0.00	N/A	6.09	N/A
	Comments																																			
	Action																																			
	Result																																			
X5P	5/3/2010	M	<0.005	16.70	0.18	<50	19.20	<0.01	<0.005	161.00	0.06	1.80	<0.1	0.57	172.00		2.61	0.01	16.40	1100.00	0.47	7.44	3.24	2.96	165.00	0.14	0.14	1600.00	<0.01	464.0	<0.5	0.165	1.06	<0.2	62.80	<0.1
X5P	5/3/2010	DUPLICATE	<0.005	10.90	0.14	<50	21.30	<0.01	<0.005	158.00	0.06	1.99	<0.1	0.39	45.00		2.64	0.01	16.60	1280.00	0.49	7.44	3.52	1.70	163.00	0.14	0.13	1600.00	<0.01	455.0	0.70	0.151	1.16	<0.2	61.80	<0.1
	RPD (%)		N/A	42.03	25.00	N/A	10.37	N/A	N/A	1.88	8.13	10.03	N/A	37.50	117.05	N/A	1.14	5.58	1.21	15.13	4.17	0.00	8.28	54.08	1.22	0.00	7.41	0.00	N/A	1.96	N/A	8.86	9.01	N/A	1.61	N/A
	Comments														Both values > PQL and correctly entered into emLine.									Both values > PQL and correctly entered into emLine.												
	Action														Request Retest									Let Value Stand												
	Result														Retest performed, see results below.									Discrepancy between values remains.												
X5P Retest	5/3/2010	M													234.00																					
X5P Retest	5/3/2010	DUPLICATE													71.00																					
	RPD (%)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	106.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Comments														Retest for May 3 X5P sample and duplicate. Both values > PQL and correctly entered into emLine.																					
	Action														Let Value Stand																					
	Result														New values entered into emLine.																					
X5	5/25/2010	M	<0.005	5.20	0.21	<50	18.70	<0.01	<0.005	251.00	0.12	11.50	<0.1	0.53	151.00	<0.01	5.14	0.03	56.60	6410.00	0.51	17.90	16.60	1.12	299.00	0.12	0.14	2640.00	<0.01	763.0	<0.5	0.375	2.04	<0.2	191.00	<0.1
X5	5/25/2010	DUPLICATE	<0.005	5.70	0.19	<50	19.60	<0.01	<0.005	256.00	0.14	12.10	<0.1	0.58	159.00	<0.01	5.24	0.03	59.10	6560.00	0.58	18.70	17.40	1.16	301.00	0.13	0.13	2740.00	<0.01	782.0	<0.5	0.394	2.13	<0.2	200.00	<0.1
	RPD (%)		N/A	9.17	10.00	N/A	4.70	N/A	N/A	1.97	19.01	5.08	N/A	9.01	5.16	N/A	1.93	0.38	4.32	2.31	12.84	4.37	4.71	3.51	0.67	8.00	7.41	3.72	N/A	2.46	N/A	4.94	4.32	N/A	4.60	N/A
	Comments																																			
	Action																																			
	Result																																			
X14	6/1/2010	M	<0.005	34.3	0.38	<50	27.3	<0.01	0.01	41.1	0.038	1.57	<0.1	1.14	233		1.03	0.004	9.29	1030	0.3	3.81	3.05	1.06	34	0.07	0.13	3720	<0.01	133	<0.5	0.031	0.765	<0.2	42.6	<0.1
X14	6/1/2010	DUPLICATE	<0.005	35.1	0.39	<50	27.8	<0.01	0.029	41.8	0.03	1.62	<0.1	1.05	233		1.04	0.0041	9.3	1050	0.32	3.29	3.19	0.908	33	0.07	0.13	3760	<0.01	139	1.1	0.031	0.8	<0.2	43.1	<0.1
	RPD (%)		N/A	2.31	2.60	N/A	1.81	N/A	97.44	1.69	23.53	3.13	N/A	8.22	0.00	N/A	0.97	2.47	0.11	1.92	6.45	14.65	4.49	15.45	2.99	0.00	0.00	1.07	N/A	4.41	N/A	0.00	4.47	N/A	1.17	N/A
	Comments								Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.																																
	Action								Let Value Stand																												
	Result								Discrepancy between values remains.																												
X3	6/4/2010	M	<0.005	62.9	0.38	<50	25.1	0.02	0.01	13	0.018	0.09	<0.1	0.76	183		0.55	0.0016	2.95	20	0.2	1.47	0.48	0.747	<10	0.05	0.08	3900	<0.01	60.7	1.5	0.003	0.534	<0.2	11.2	<0.1
X3	6/4/2010	DUPLICATE	<0.005	66.7	0.4	<50	25.3	<0.01	0.021	13.3	0.012	0.06	<0.1	0.74	186		0.55	0.0015	3	15.7	0.21	1.5	0.44	0.587	<10	0.05	0.09	3870	<0.01	60.8	1.4	<0.002	0.544	<0.2	3.9	<0.1
	RPD (%)		N/A	5.86	5.13	N/A	0.79	N/A	70.97	2.28	40.00	37.33	N/A	2.67	1.63	N/A	0.00	6.45	1.68	24.09	4.88	2.02	8.70	23.99	N/A	0.00	11.76	0.77	N/A	0.16	6.90	N/A	1.86	N/A	96.69	N/A
	Comments								Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.																												Both values > PQL and correctly entered into emLine.	
	Action								Let Value Stand																												Let Value Stand	
	Result								Discrepancy between values remains.																												Discrepancy between values remains.	
X14	6/15/2010	M	<0.005	16.2	0.4	<50	33.6	<0.01	<0.005	59.7	0.038	2.76	<0.1	0.71	245	<0.01	1.39	0.0058	14.6	1740	0.4	4.56	4.41	0.532	55	0.08	0.18	4000	<0.01	207	<0.5	0.051	1.12	<0.2	48.4	<0.1
X14	6/15/2010	DUPLICATE	<0.005	19	0.41	<50	33.4	<0.01	0.008	57.3	0.042	2.69	<0.1	0.79	259	<0.01	1.41	0.006	14.5	1750	0.39	4.56	4.44	0.579	55	0.08	0.18	3680	<0.01	211	<0.5	0.051	1.13	<0.2	48.2	<0.1
	RPD (%)		N/A	15.91	2.47	N/A	0.60	N/A	N/A	4.10	10.00	2.57	N/A	10.67	5.56	N/A	1.43	3.39	0.69	0.57	2.53	0.00	0.68	8.46	0.00	0.00	0.00	8.33	N/A	1.91	N/A	0.00	0.89	N/A	0.41	N/A
	Comments																																			
	Action																																			
	Result																																			
R7	7/8/2010	M	<0.005	31.10	0.66	<50	40.40	<0.01	0.01	16.80	0.01	0.05	<0.1	0.99	142.00		0.41	0.00	4.01	16.40	0.37	1.61	0.40	0.59	<10	0.08	0.16	4140.00	<0.01	79.1	0.70	<0.002	0.71	<0.2	2.00	<0.1
R7	7/8/2010	DUPLICATE	<0.005	34.10	0.66	<50	38.60	<0.01	0.15	17.90	0.01	0.05	<0.1	0.74	163.00		0.43	0.00	3.90	18.10	0.36	1.63	0.48	0.61	<10	0.08	0.17	4330.00	<0.01	76.4	1.70	<0.002	0.69	<0.2	3.90	<0.1
	RPD (%)		N/A	9.20	0.00	N/A	4.56	N/A	177.78	6.34	8.00	8.33	N/A	28.90	13.77	N/A	4.76	0.00	2.78	9.86	2.74	1.23	18.18	3.16	N/A	0.00	6.06	4.49	N/A	3.47	83.33	N/A	3.56	N/A	64.41	N/A
	Comments								Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.																												Both values > PQL and correctly entered into emLine.	
	Action								Let Value Stand																												Let Value Stand	
	Result								Discrepancy between values remains.																												Discrepancy between values remains.	

RPD > 50%
RPD > 100%

Denison Environmental Services

Table C-51: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - Total Metals

Station	Date	Sample Type	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NWID	7/10/2010	M	<0.005	6.70	0.20	<50	47.10	<0.01	<0.005	52.80	0.06	0.02	<0.1	1.08	9.00		1.47	0.01	6.44	1.10	0.30	2.75	0.53	0.24	12.00	0.06	0.21	7530.00	<0.01	187.0	<0.5	0.003	0.93	<0.2	16.00	<0.1
NWID	7/10/2010	DUPLICATE	<0.005	6.80	0.20	<50	47.90	<0.01	<0.005	48.30	0.07	0.02	<0.1	1.19	7.00		1.48	0.01	6.66	1.05	0.28	2.90	0.58	0.24	13.00	0.06	0.19	6750.00	<0.01	192.0	<0.5	0.009	0.89	<0.2	17.60	<0.1
	RPD (%)		N/A	1.48	0.00	N/A	1.68	N/A	N/A	8.90	17.89	0.00	N/A	9.69	25.00	N/A	0.68	0.00	3.36	4.65	6.90	5.31	9.01	1.25	8.00	0.00	10.00	10.92	N/A	2.64	N/A	100.00	4.85	N/A	9.52	N/A
	Comments																															Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.					
	Action																															**Let Value Stand**					
	Result																															Discrepancy between values remains.					
X14	7/27/2010	M	<0.005	11.10	0.45	<50	43.30	<0.01	<0.005	94.10	0.05	4.07	<0.1	0.58	382.00	<0.01	2.04	0.01	21.00	2330.00	0.53	6.59	6.29	0.89	89.00	0.12	0.19	4430.00	<0.01	316.0	<0.5	0.123	1.35	<0.2	72.60	<0.1
X14	7/27/2010	DUPLICATE	<0.005	10.60	0.47	<50	44.10	<0.01	<0.005	94.90	0.05	4.34	<0.1	0.62	383.00	<0.01	2.12	0.01	22.30	2430.00	0.49	6.91	6.31	0.74	93.00	0.12	0.21	4520.00	<0.01	320.0	<0.5	0.124	1.33	<0.2	74.80	<0.1
	RPD (%)		N/A	4.61	4.35	N/A	1.83	N/A	N/A	0.85	1.87	6.42	N/A	6.67	0.26	N/A	3.85	1.72	6.00	4.20	7.84	4.74	0.32	18.83	4.40	0.00	10.00	2.01	N/A	1.26	N/A	0.81	1.49	N/A	2.99	N/A
	Comments																																			
	Action																																			
	Result																																			
X14	8/24/2010	M	<0.005	21.10	0.52	<50	43.20	<0.01	<0.005	73.10	0.04	2.1100	<0.1	0.5800	400.00		1.63	0.008	16.20	1380.000	0.48	5.53	3.440	0.5400	61.00	0	0.1800	4180.00	<0.01	253.00	<0.5	0.08	1.2500	<0.2	42.400	<0.1
X14	8/24/2010	DUPLICATE	<0.005	8.60	0.50	<50	44.50	<0.01	<0.005	75.40	0.04	2.1700	<0.1	0.8000	431.00		1.61	0.008	16.40	1390.000	0.49	5.43	3.590	1.4100	61.00	0	0.2100	4100.00	<0.01	251.00	<0.5	0.08	1.3100	<0.2	44.800	<0.1
	RPD (%)		N/A	84.18	3.92	N/A	2.96	N/A	N/A	3.10	2.53	2.80	N/A	31.88	7.46	N/A	1.23	1.24	1.23	0.72	2.06	1.82	4.27	89.23	0.00	11.76	15.38	1.93	N/A	0.79	N/A	0.00	4.69	N/A	5.50	N/A
	Comments			Both values > PQL and correctly entered into emLine.																				Both values > PQL and correctly entered into emLine.												
	Action			**Let Value Stand**																				**Let Value Stand**												
	Result			Discrepancy between values remains.																				Discrepancy between values remains.												
X5	8/31/2010	M	<0.03	6.00	0.30	<300	14.80	<0.05	<0.03	298.00	0.17	14.30	<0.5	0.50	516.00	<0.05	7.00	0.04	67.90	7780.00	0.50	20.00	18.20	1.99	376.00	0.30	<0.2	2500.00	<0.05	933.0	<3	0.690	1.13	<1	206.00	<0.5
X5	8/31/2010	DUPLICATE	<0.03	5.00	0.30	<300	16.10	<0.05	<0.03	297.00	0.16	14.20	<0.5	0.60	520.00	<0.05	6.90	0.04	66.80	7590.00	0.50	19.60	19.10	2.16	361.00	0.30	<0.2	2410.00	<0.05	1010.0	<3	0.750	1.22	<1	206.00	<0.5
	RPD (%)		N/A	18.18	0.00	N/A	8.41	N/A	N/A	0.34	6.06	0.70	N/A	18.18	0.77	N/A	1.44	4.76	1.63	2.47	0.00	2.02	4.83	8.19	4.07	0.00	N/A	3.67	N/A	7.93	N/A	8.33	7.66	N/A	0.00	N/A
	Comments																																			
	Action																																			
	Result																																			
X2	10/18/2010	M	<0.005	8.80	0.55	<50	53.10	<0.01	<0.005	33.20	0.02	0.18	<0.1	0.42	215.00		0.80	0.01	7.69	74.60	0.53	2.59	0.64	0.52	<10	0.06	0.39	5630.00	<0.01	141.0	<0.5	0.004	1.46	<0.2	14.20	<0.1
X2	10/18/2010	DUPLICATE	<0.005	10.50	0.56	<50	53.70	<0.01	<0.005	32.70	0.02	0.16	<0.1	0.42	216.00		0.75	0.01	7.34	74.30	0.54	2.40	0.59	0.72	<10	0.06	0.31	5540.00	<0.01	139.0	<0.5	0.004	1.51	<0.2	15.40	<0.1
	RPD (%)		N/A	17.62	1.80	N/A	1.12	N/A	N/A	1.52	10.53	15.48	N/A	0.00	0.46	N/A	6.45	0.00	4.66	0.40	1.87	7.62	8.13	31.10	N/A	0.00	22.86	1.61	N/A	1.43	N/A	0.00	3.37	N/A	8.11	N/A
	Comments																																			
	Action																																			
	Result																																			

RPD > 50%
RPD > 100%

Denison Environmental Services

Table C-52: Rose Creek Drainage Water Quality
2010 QA/QC Splits - General Parameters

Faro Mine Closure

Station	Date	Sample Type	Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Chloride	CN(wad)	CNTHIO	CO3	Colour	COND	DOC	HCO3	NH3	OH	pH	SO4-d	TDS	TOC	TSS	TURB
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	NTU
X14	6/29/2010	M			84	<0.5	248	258	<0.5			<0.5	<5	511	2.3	100	0.1	<0.5	7.95	180	370	1.5	<1	0.9
X14	6/29/2010	SPLIT			84	<0.5	255	256	<0.5			<0.5	10	510	2.5	100	0.14	<0.5	7.93	180	350	2.7	<1	0.9
RPD (%)			N/A	N/A	0.00	N/A	2.78	0.78	N/A	N/A	N/A	N/A	N/A	0.20	8.33	0.00	33.33	N/A	0.02	0.00	5.56	57.14	N/A	0.00
Comments																						Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.		
Action																						**Let Value Stand**		
Result																						Discrepancy between values remains.		
X5P	7/10/2010	M			110.00	<0.5	1090.00	1010.00	1.10			<0.5		1780.00		130.00	0.69	<0.5	7.79	990.00	1500.00		4.00	
X5P	7/10/2010	SPLIT			110.00	<0.5	1100.00	1040.00	1.00			<0.5		1780.00		130.00	0.65	<0.5	7.73	950.00	1500.00		5.00	
RPD (%)			N/A	N/A	0.00	N/A	0.91	2.93	9.52	N/A	N/A	N/A	N/A	0.00	N/A	0.00	5.97	N/A	0.06	4.12	0.00	N/A	22.22	N/A
Comments																								
Action																								
Result																								
X5	7/20/2010	M			120.00	<0.5	1050.00	1020.00	1.70		0.03	<0.5	<5	1830.00		150.00	0.79	<0.5	7.85	980.00	1600.00		2.00	1.70
X5	7/20/2010	SPLIT			120.00	<0.5	1050.00	1010.00	1.70		0.03	<0.5	<5	1830.00		150.00	0.79	<0.5	7.87	990.00	1600.00		2.00	1.50
RPD (%)			N/A	N/A	0.00	N/A	0.00	0.99	0.00	N/A	4.85	N/A	N/A	0.00	N/A	0.00	0.00	N/A	0.02	1.02	0.00	N/A	0.00	12.50
Comments																								
Action																								
Result																								
X5	7/27/2010	M			110.00	<0.5	1060.00	1030.00	1.10		0.03	<0.5	<5	1780.00		130.00	0.75	<0.5	7.92	960.00	1600.00		2.00	2.50
X5	7/27/2010	SPLIT			110.00	<0.5	1080.00	1100.00	1.30		0.03	<0.5	<5	1810.00		130.00	0.84	<0.5	7.86	930.00	1600.00		2.00	2.70
RPD (%)			N/A	N/A	0.00	N/A	1.87	6.57	16.67	N/A	6.48	N/A	N/A	1.67	N/A	0.00	11.32	N/A	0.06	3.17	0.00	N/A	0.00	7.69
Comments																								
Action																								
Result																								
X3	8/3/2010	M			87.00	<0.5	111.00	85.00	<0.5			<0.5		189.00	2.00	110.00	<0.05	<0.5	8.16	14.00	120.00	2.50	<1	
X3	8/3/2010	SPLIT			87.00	<0.5	84.30	87.00	<0.5			<0.5		187.00	2.20	110.00	<0.05	<0.5	8.10	14.00	130.00	2.10	<1	
RPD (%)			N/A	N/A	0.00	N/A	27.34	2.33	N/A	N/A	N/A	N/A	N/A	1.06	9.52	0.00	N/A	N/A	0.06	0.00	8.00	17.39	N/A	N/A
Comments																								
Action																								
Result																								
X11	8/5/2010	M	<0.5	33.70	300.00	<0.5		1640.00	2.50			<0.5		2540.00		370.00		<0.5	7.37	1400.00			8.00	
X11	8/5/2010	SPLIT	<0.5	33.70	310.00	<0.5		1670.00	2.60			<0.5		2540.00		380.00		<0.5	7.42	1400.00			7.00	
RPD (%)			N/A	0.00	3.28	N/A	N/A	1.81	3.92	N/A	N/A	N/A	N/A	0.00	N/A	2.67	N/A	N/A	0.05	0.00	N/A	N/A	13.33	N/A
Comments																								
Action																								
Result																								
X14	8/10/2010	M			100.00	<0.5	329.00	318.00	0.70			<0.5	10.00	638.00	2.20	120.00	0.19	<0.5	7.78	220.00	440.00	2.30	<4	1.40
X14	8/10/2010	SPLIT			100.00	<0.5	332.00	317.00	0.60			<0.5	15.00	648.00	2.10	120.00	0.19	<0.5	7.97	210.00	440.00	2.30	<4	1.50
RPD (%)			N/A	N/A	0.00	N/A	0.91	0.31	15.38	N/A	N/A	N/A	40.00	1.56	4.65	0.00	0.00	N/A	0.19	4.65	0.00	0.00	N/A	6.90
Comments																								
Action																								
Result																								
X5	8/24/2010	M			88.00	<0.5	1010.00	1150.00	2.20		0.05	<0.5	<5	1740.00		110.00	0.80	<0.5	8.01	1100.00	1500.00		<1	3.80
X5	8/24/2010	SPLIT			88.00	<0.5	1030.00	1140.00	1.90		0.05	<0.5	<5	1750.00		110.00	0.84	<0.5	8.04	1100.00	1500.00		<1	3.90
RPD (%)			N/A	N/A	0.00	N/A	1.96	0.87	14.63	N/A	5.60	N/A	N/A	0.57	N/A	0.00	4.88	N/A	0.03	0.00	0.00	N/A	N/A	2.60
Comments																								
Action																								
Result																								
X14	8/31/2010	M			100.00	<0.5	296.00	314.00	<0.5			<0.5		610.00	3.70	120.00	0.11	<0.5	8.17	220.00	420.00	3.70	<1	
X14	8/31/2010	SPLIT			99.00	<0.5	300.00	301.00	<0.5			<0.5		613.00	3.10	120.00	0.12	<0.5	8.11	220.00	410.00	2.90	<1	
RPD (%)			N/A	N/A	1.01	N/A	1.34	4.23	N/A	N/A	N/A	N/A	N/A	0.49	17.65	0.00	8.70	N/A	0.06	0.00	2.41	24.24	N/A	N/A
Comments																								
Action																								
Result																								

RPD > 50%

Denison Environmental Services

Table C-52: Rose Creek Drainage Water Quality
2010 QA/QC Splits - General Parameters

Faro Mine Closure

Station	Date	Sample Type	Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Chloride	CN(wad)	CNTHIO	CO3	Colour	COND	DOC	HCO3	NH3	OH	pH	SO4-d	TDS	TOC	TSS	TURB
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	NTU
X3	9/2/2010	M			83.00	<0.5	89.40	94.30	<0.5			<0.5		186.00	2.70	100.00	0.19	<0.5	7.99	13.00	110.00	2.30	<1	0.70
X3	9/2/2010	SPLIT			82.00	<0.5	89.70	91.70	<0.5			<0.5		193.00	1.20	100.00	0.19	<0.5	7.90	15.00	110.00	1.40	<1	0.50
RPD (%)			N/A	N/A	1.21	N/A	0.34	2.80	N/A	N/A	N/A	N/A	N/A	3.69	76.92	0.00	0.00	N/A	0.09	14.29	0.00	48.65	N/A	33.33
Comments															Both values correctly entered into emLine; however, split value not > PQL. Therefore, RPD analysis not valid in this case.									
Action															**Let Value Stand**									
Result															Discrepancy between values remains.									
X7	10/6/2010	M			7.40	<0.5	4680.00	4480.00	9.20			<0.5		8490.00		9.10	4.20	<0.5	5.18	9300.00	11000.00		100.00	
X7	10/6/2010	SPLIT			4.40	<0.5	4740.00	4310.00	9.10			<0.5		8510.00		5.30	2.70	<0.5	5.12	9400.00	10000.00		99.00	
RPD (%)			N/A	N/A	50.85	N/A	1.27	3.87	1.09	N/A	N/A	N/A	N/A	0.24	N/A	52.78	43.48	N/A	0.06	1.07	9.52	N/A	1.01	N/A
Comments					Both values > PQL and correctly entered into emLine.											Both values > PQL and correctly entered into emLine.								
Action					**Let Value Stand**											**Let Value Stand**								
Result					Retest request would be filed past hold time. Discrepancy between values remains.											Retest request would be filed past hold time. Discrepancy between values remains.								
FCO	10/7/2010	M			17.00	<0.5	47.10	47.10	<0.5			<0.5		123.00		21.00	0.04	<0.5	7.20	37.00	80.00		3.00	
FCO	10/7/2010	SPLIT			22.00	<0.5	46.60	48.60	<0.5			<0.5		122.00		27.00	0.01	<0.5	7.27	40.00	80.00		3.00	
RPD (%)			N/A	N/A	25.64	N/A	1.07	3.13	N/A	N/A	N/A	N/A	N/A	0.82	N/A	25.00	140.43	N/A	0.07	7.79	0.00	N/A	0.00	N/A
Comments																	Both values correctly entered into emLine; however, split value not > PQL. Therefore, RPD analysis not valid in this case.							
Action																	**Let Value Stand**							
Result																	Discrepancy between values remains.							
R9	10/19/2010	M			96.00	<0.5	108.00	113.00	<0.5			<0.5		213.00	1.70	120.00	0.03	<0.5	7.99	14.00	110.00	1.40	<1	1.00
R9	10/19/2010	SPLIT			96.00	<0.5	107.00	112.00	0.60			<0.5		211.00	2.50	120.00	0.07	<0.5	7.90	15.00	130.00	1.80	<1	1.00
RPD (%)			N/A	N/A	0.00	N/A	0.93	0.89	N/A	N/A	N/A	N/A	N/A	0.94	38.10	0.00	85.71	N/A	0.09	6.90	16.67	25.00	N/A	0.00
Comments																	Both values > PQL and correctly entered into emLine.							
Action																	**Request Retest**							
Result																	Retest performed, see results below.							
R9 Retes	10/19/2010	M															0.02							
R9 Retes	10/19/2010	SPLIT															0.02							
RPD (%)			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.50	N/A	0.00	N/A	N/A	N/A	N/A	N/A
Comments																	Retest for October 19 R9 sample and split. Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.							
Action																	**Let Value Stand**							
Result																	Discrepancy between values resolved.							
X23	11/4/2010	M	<0.5	1030.00	90.00	<0.5		5770.00	14.00			<0.5		7740.00		110.00		<0.5	6.81	7600.00			170.00	
X23	11/4/2010	SPLIT	<0.5	1080.00	90.00	<0.5		5820.00	15.00			<0.5		7710.00		110.00		<0.5	6.75	7100.00			190.00	
RPD (%)			N/A	4.74	0.00	N/A	N/A	0.86	6.90	N/A	N/A	N/A	N/A	0.39	N/A	0.00	N/A	N/A	0.06	6.80	N/A	N/A	11.11	N/A
Comments																								
Action																								
Result																								
X14	11/18/2010	M			170.00	<0.5	598.00	641.00	0.80			<0.5		1080.00	1.70	210.00	0.20	<0.5	8.05	420.00	800.00	1.30	6.00	3.18
X14	11/18/2010	SPLIT			170.00	<0.5	638.00	601.00	1.10			<0.5		1070.00	1.40	210.00	0.20	<0.5	7.98	420.00	790.00	1.30	5.00	3.87
RPD (%)			N/A	N/A	0.00	N/A	6.47	6.44	31.58	N/A	N/A	N/A	N/A	0.93	19.35	0.00	0.00	N/A	0.07	0.00	1.26	0.00	18.18	19.57
Comments																								
Action																								
Result																								

RPD > 50%

Denison Environmental Services

Table C-52: Rose Creek Drainage Water Quality
2010 QA/QC Splits - General Parameters

Faro Mine Closure

Station	Date	Sample Type	Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Chloride	CN(wad)	CNTHIO	CO3	Colour	COND	DOC	HCO3	NH3	OH	pH	SO4-d	TDS	TOC	TSS	TURB
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	NTU
X5	11/25/2010	M			260.00	<0.5	1430.00	1610.00	2.80	0.01		<0.5	<5	2500.0000		320.00	0.96	<0.5	7.43	1400.000	2300.00		<4	4.8000
X5	11/25/2010	SPLIT			260.00	<0.5	1530.00	1660.00	3.20	0.01		<0.5	<5	2500.0000		320.00	0.96	<0.5	7.47	1400.000	2400.00		<4	4.9000
RPD (%)			N/A	N/A	0.00	N/A	6.76	3.06	13.33	4.58	N/A	N/A	N/A	0.00	N/A	0.00	0.00	N/A	0.04	0.00	4.26	N/A	N/A	2.06
Comments																								
Action																								
Result																								
X5	12/2/2010	M			270.00	<0.5	1560.00	1590.00	2.30	0.01		<0.5	<5	2470.00		330.00	0.97	<0.5	7.73	1400.00	2300.00		2.00	5.00
X5	12/2/2010	SPLIT			270.00	<0.5	1580.00	1580.00	1.90	0.01		<0.5	<5	2470.00		330.00	0.98	<0.5	7.66	1400.00	2200.00		2.00	5.10
RPD (%)			N/A	N/A	0.00	N/A	1.27	0.63	19.05	0.00	N/A	N/A	N/A	0.00	N/A	0.00	1.03	N/A	0.07	0.00	4.44	N/A	0.00	1.98
Comments																								
Action																								
Result																								

RPD > 50%

Denison Environmental Services

Table C-53: Rose Creek Drainage Water Quality
2010 QA/QC Splits - Dissolved Metals

Faro Mine Closure

Station	Date	Sample Type	Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	Hg-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	S-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X14	6/29/2010	M	<0.005	6.6	0.36	36.8	<50	<0.01	<0.005	75	0.032	3.22	<0.1	0.64	165	<0.01	1.5	0.0061	17.1	1840	0.44	5.36	5.13	0.362	0.1	61	0.19	4490	<0.01	232	<0.5	0.08	1.07	<0.2	45.9	<0.1
X14	6/29/2010	SPLIT	<0.005	6.2	0.34	36.5	<50	<0.01	<0.005	74.8	0.039	3.08	<0.1	0.57	160	<0.01	1.47	0.0061	16.8	1820	0.46	5.23	4.81	0.203	0.15	60	0.17	4500	<0.01	233	<0.5	0.079	1.09	<0.2	45.7	<0.1
	RPD (%)		N/A	6.25	5.71	0.82	N/A	N/A	N/A	0.27	19.72	4.44	N/A	11.57	3.08	N/A	2.02	0.00	1.77	1.09	4.44	2.46	6.44	56.28	40.00	1.65	11.11	0.22	N/A	0.43	N/A	1.26	1.85	N/A	0.44	N/A
	Comments																							Both values > PQL and correctly entered into emLine.												
	Action																							**Let Value Stand**												
	Result																							Discrepancy between values remains.												
X5P	7/10/2010	M	<0.005	4.40	0.26	14.90	<50	<0.01	0.02	287.00	0.09	17.30	<0.1	0.38	25.00		7.13	0.04	72.20	9320.00	0.63	21.90	23.00	0.96	0.23	398.00	0.12	2660.00	<0.01	1030.0	<0.5	0.582	1.55	<0.2	151.00	<0.1
X5P	7/10/2010	SPLIT	<0.005	3.90	0.23	14.60	<50	<0.01	0.06	304.00	0.12	16.00	<0.1	0.38	28.00		6.61	0.04	68.90	8620.00	0.60	20.70	22.10	1.12	0.24	369.00	0.12	2830.00	<0.01	1000.0	<0.5	0.587	1.55	<0.2	141.00	<0.1
	RPD (%)		N/A	12.05	12.24	2.03	N/A	N/A	90.48	5.75	23.30	7.81	N/A	0.00	11.32	N/A	7.57	4.79	4.68	7.80	4.88	5.63	3.99	15.70	4.26	7.56	0.00	6.19	N/A	2.96	N/A	0.86	0.00	N/A	6.85	N/A
	Comments								Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.																															
	Action								**Let Value Stand**																												
	Result								Discrepancy between values remains.																												
X5	7/20/2010	M	<0.03	5.00	0.70	15.10	<300	<0.05	<0.03	296.00	0.14	22.80	<0.5	0.50	26.00	<0.05	6.20	0.04	67.00	11500.00	0.60	20.50	33.00	1.40	0.30	341.00	0.30	3100.00	<0.05	959.0	<3	0.540	1.96	<1	270.00	<0.5
X5	7/20/2010	SPLIT	<0.03	7.00	0.70	15.30	<300	<0.05	<0.03	294.00	0.14	22.70	<0.5	0.50	32.00	<0.05	6.10	0.04	67.60	11500.00	0.50	20.30	33.80	1.37	0.30	336.00	0.30	3010.00	<0.05	951.0	<3	0.510	1.96	<1	270.00	<0.5
	RPD (%)		N/A	33.33	0.00	1.32	N/A	N/A	N/A	0.68	0.00	0.44	N/A	0.00	20.69	N/A	1.63	0.00	0.89	0.00	18.18	0.98	2.40	2.17	0.00	1.48	0.00	2.95	N/A	0.84	N/A	5.71	0.00	N/A	0.00	N/A
	Comments																																			
	Action																																			
	Result																																			
X5	7/27/2010	M	<0.03	3.00	0.20	15.60	<300	<0.05	<0.03	295.00	0.23	18.70	<0.5	1.20	26.00	<0.05	6.90	0.04	71.70	9790.00	0.90	20.70	25.30	0.38	0.30	379.00	<0.2	2920.00	<0.05	946.0	<3	0.610	1.58	<1	283.00	<0.5
X5	7/27/2010	SPLIT	<0.03	4.00	0.20	16.40	<300	<0.05	<0.03	313.00	0.25	20.20	<0.5	1.40	32.00	<0.05	7.20	0.04	76.50	10100.00	0.60	22.20	27.10	0.91	0.30	389.00	<0.2	3150.00	0.06	1000.0	<3	0.640	1.68	<1	304.00	<0.5
	RPD (%)		N/A	28.57	0.00	5.00	N/A	N/A	N/A	5.92	8.33	7.71	N/A	15.38	20.69	N/A	4.26	4.88	6.48	3.12	40.00	6.99	6.87	82.17	0.00	2.60	N/A	7.58	N/A	5.55	N/A	4.80	6.13	N/A	7.16	N/A
	Comments																							Both values > PQL and correctly entered into emLine.												
	Action																							**Let Value Stand**												
	Result																							Discrepancy between values remains.												
X3	8/3/2010	M	<0.005	11.20	0.51	45.80	<50	<0.01	<0.005	25.20	0.01	0.06	<0.1	0.68	139.00		0.69	0.00	5.34	26.20	0.46	2.04	0.46	1.90	0.06	<10	0.19	4030.00	<0.01	116.0	<0.5	0.003	1.13	<0.2	6.80	<0.1
X3	8/3/2010	SPLIT	<0.005	7.60	0.55	44.60	<50	<0.01	<0.005	25.70	0.01	0.06	<0.1	0.61	132.00		0.66	0.00	5.56	24.90	0.49	2.13	0.43	1.01	0.06	<10	0.19	3650.00	<0.01	117.0	<0.5	0.003	1.14	<0.2	4.70	<0.1
	RPD (%)		N/A	38.30	7.55	2.65	N/A	N/A	N/A	1.96	18.18	5.31	N/A	10.85	5.17	N/A	4.44	2.90	4.04	5.09	6.32	4.32	6.74	61.17	0.00	N/A	0.00	9.90	N/A	0.86	N/A	0.00	0.88	N/A	36.52	N/A
	Comments																							Both values > PQL and correctly entered into emLine. Lab noted on both samples that "Dissolved greater than total. Reanalysis yields similar results."												
	Action																							**Let Value Stand**												
	Result																							Discrepancy between values remains.												
X11	8/5/2010	M	<0.03	3.00	1.60	34.30	<300	<0.05	<0.03	491.00	0.12	24.00	<0.5	<0.3	3530.00	<0.05	7.10	0.02	99.40	23700.00	0.40	34.60	32.00	0.20	<0.1	505.00	<0.2	8960.00	<0.05	1170.0	<3	0.040	4.99	<1	11.10	<0.5
X11	8/5/2010	SPLIT	<0.03	3.00	1.70	34.90	<300	<0.05	<0.03	502.00	0.12	25.80	<0.5	<0.3	3660.00	<0.05	7.30	0.02	102.00	24900.00	0.50	35.40	33.60	0.77	<0.1	527.00	<0.2	9120.00	<0.05	1170.0	<3	0.040	5.10	<1	11.80	<0.5
	RPD (%)		N/A	0.00	6.06	1.73	N/A	N/A	N/A	2.22	0.00	7.23	N/A	N/A	3.62	N/A	2.78	0.00	2.58	4.94	22.22	2.29	4.88	117.53	N/A	4.26	N/A	1.77	N/A	0.00	N/A	0.00	2.18	N/A	6.11	N/A
	Comments																							Both values > PQL and correctly entered into emLine.												
	Action																							**Request Retest**												
	Result																							Retest performed, see results below.												
X11 Retest	8/5/2010	M																						0.35											
X11 Retest	8/5/2010	SPLIT																						2.07											
	RPD (%)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	142.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Comments																							Retest for August 5 X11 sample and split. Both values > PQL and correctly entered into emLine.												
	Action																							**Let Value Stand**												
	Result																							New values entered into emLine.												
X14	8/10/2010	M	<0.005	6.90	0.39	45.50	<50	<0.01	<0.005	91.90	0.05	3.42	<0.1	0.55	184.00	<0.01	2.11	0.01	21.40	2150.00	0.57	6.99	5.22	0.84	0.13	86.00	0.19	3940.00	<0.01	330.0	<0.5	0.122	1.44	<0.2	57.60	<0.1
X14	8/10/2010	SPLIT	<0.005	6.30	0.45	47.70	<50	<0.01	<0.005	92.00	0.05	3.42	<0.1	0.54	213.00	<0.01	2.10	0.01	21.20	2150.00	0.57	6.83	5.16	1.46	0.13	83.00	0.19	3930.00	<0.01	332.0	<0.5	0.127	1.44	<0.2	57.90	<0.1
	RPD (%)		N/A	9.09	14.29	4.72	N/A	N/A	N/A	0.11	0.00	0.00	N/A	1.83	14.61	N/A	0.48	4.65	0.94	0.00	0.00	2.32	1.16	53.47	0.00	3.55	0.00	0.25	N/A	0.60	N/A	4.02	0.00	N/A	0.52	N/A
	Comments																							Both values > PQL and correctly entered into emLine.												
	Action																							**Let Value Stand**												
	Result																							Discrepancy between values remains.												
X5	8/24/2010	M	<0.005	2.90	0.17	14.80	<50	<0.01	0.02	340.00	0.15	16.00	<0.1	0.46	29.00	<0.01	7.78	0.04	73.60	8010.00	0.57	22.80	20.10	0.58	0.30	429.00	0.16	2570.00	<0.01	1050.0	<0.5	0.687	1.53	<0.2	179.00	<0.1
X5	8/24/2010	SPLIT	<0.005	2.20	0.18	14.60	<50	<0.01	0.01	333.00	0.14	16.20	<0.1	0.42	25.00	<0.01	7.56	0.04	74.10	8000.00	0.57	22.90	20.40	0.46	0.29	416.00	0.16	2180.00	<0.01	1050.0	<0.5	0.676	1.52	<0.2	184.00	<0.1
	RPD (%)		N/A	27.45	5.71	1.36	N/A	N/A	40.00	2.08	4.14	1.24	N/A	9.09	14.81	N/A	2.87	0.00	0.68	0.12	0.00	0.44	1.48	23.42	3.39	3.08	0.00	16.42	N/A	0.00	N/A	1.61	0.66	N/A	2.75	N/A
	Comments																																			
	Action																																			
	Result																																			

Denison Environmental Services

Table C-53: Rose Creek Drainage Water Quality
2010 QA/QC Splits - Dissolved Metals

Faro Mine Closure

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
			RPD > 50%																																
			RPD > 100%																																
X14	8/31/2010	M	<0.005	3.90	0.35	45.00	<50	<0.01	<0.005	93.70	0.03	2.72	<0.1	0.39	166.00		1.90	0.01	19.60	1790.00	0.51	6.33	4.08	0.49	0.11	81.00	0.22	4090.00	<0.01	309.0	<0.5	0.121	1.57	<0.2	42.00	<0.1
X14	8/31/2010	SPLIT	<0.005	3.10	0.35	44.90	<50	<0.01	<0.005	88.70	0.05	2.69	<0.1	0.47	166.00		1.90	0.01	19.30	1780.00	0.54	6.24	4.42	0.25	0.09	83.00	0.20	3800.00	<0.01	314.0	<0.5	0.125	1.60	<0.2	41.50	<0.1
	RPD (%)		N/A	22.86	0.00	0.22	N/A	N/A	N/A	5.48	49.35	1.11	N/A	18.60	0.00	N/A	0.00	0.00	1.54	0.56	5.71	1.43	8.00	66.67	20.00	2.44	9.52	7.35	N/A	1.61	N/A	3.25	1.89	N/A	1.20	N/A
	Comments																							Both values > PQL and correctly entered into emLine.												
	Action																							**Let Value Stand**												
	Result																							Discrepancy between values remains.												
X3	9/2/2010	M	<0.005	6.20	0.47	44.50	<50	<0.01	<0.005	28.10	0.02	0.20	<0.1	0.60	137.00		0.90	0.00	5.88	34.30	0.46	2.36	0.67	0.69	0.06	<10	0.16	4940.00	<0.01	122.0	<0.5	0.003	1.12	<0.2	42.80	<0.1
X3	9/2/2010	SPLIT	<0.005	6.10	0.46	45.30	<50	<0.01	<0.005	27.20	0.02	0.13	<0.1	0.82	133.00		0.80	0.00	5.78	27.60	0.42	2.24	0.57	0.79	0.05	<10	0.17	4330.00	<0.01	127.0	<0.5	0.003	1.18	<0.2	28.10	<0.1
	RPD (%)		N/A	1.63	2.15	1.78	N/A	N/A	N/A	3.25	17.14	45.68	N/A	30.99	2.96	N/A	11.76	0.00	1.72	21.65	9.09	5.22	16.13	14.18	18.18	N/A	6.06	13.16	N/A	4.02	N/A	0.00	5.22	N/A	41.47	N/A
	Comments																																			
	Action																																			
	Result																																			
X7	10/6/2010	M	<0.5	1890.00	26.00	14.00	<5000	<1	<0.5	405.00	20.10	1370.00	<10	<5	1610000.00		12.00	0.15	842.00	103000.00	<5	55.00	1210.00	20.40	<2	3040.00	<4	18200.00	<1	4040.0	59.00	0.300	8.70	<20	574000.00	<10
X7	10/6/2010	SPLIT	<0.5	2040.00	29.00	15.00	<5000	<1	<0.5	381.00	19.40	1340.00	<10	<5	1530000.00		12.00	0.14	816.00	101000.00	<5	54.00	1140.00	20.70	<2	2830.00	<4	16900.00	<1	4050.0	<50	0.300	5.70	<20	565000.00	<10
	RPD (%)		N/A	7.63	10.91	6.90	N/A	N/A	N/A	6.11	3.54	2.21	N/A	N/A	5.10	N/A	0.00	3.44	3.14	1.96	N/A	1.83	5.96	1.46	N/A	7.16	N/A	7.41	N/A	0.25	N/A	0.00	41.67	N/A	1.58	N/A
	Comments																																			
	Action																																			
	Result																																			
FCO	10/7/2010	M	<0.005	81.70	0.07	34.50	<50	0.05	<0.005	12.30	1.78	2.57	<0.1	28.50	30.00		0.45	0.00	3.98	43.20	0.10	2.95	7.21	0.15	0.04	13.00	<0.04	7550.00	<0.01	64.5	<0.5	0.004	0.14	<0.2	1290.00	<0.1
FCO	10/7/2010	SPLIT	<0.005	73.30	0.05	34.50	<50	0.05	<0.005	12.90	1.81	2.55	<0.1	28.60	29.00		0.46	0.00	4.01	43.30	0.08	2.95	7.37	0.10	0.04	14.00	<0.04	7870.00	<0.01	64.4	<0.5	0.005	0.12	<0.2	1290.00	<0.1
	RPD (%)		N/A	10.84	33.33	0.00	N/A	0.00	N/A	4.76	1.67	0.78	N/A	0.35	3.39	N/A	2.20	0.00	0.75	0.23	22.22	0.00	2.19	42.28	0.00	7.41	N/A	4.15	N/A	0.16	N/A	22.22	11.76	N/A	0.00	N/A
	Comments																																			
	Action																																			
	Result																																			
R9	10/19/2010	M	0.0060	5.40	0.56	52.300	<50	<0.01	<0.005	34.00	0.02	0.0310	<0.1	0.5300	109.00		0.85	0.005	6.84	17.100	0.61	2.50	0.380	0.7130	0.07	<10	0.3100	5700.00	0.02	135.00	<0.5	<0.002	1.6100	<0.2	4.400	<0.1
R9	10/19/2010	SPLIT	<0.005	5.50	0.56	52.400	<50	<0.01	<0.005	33.30	0.01	0.0370	<0.1	0.4800	112.00		0.81	0.005	6.99	17.900	0.62	2.51	0.360	0.6380	0.07	<10	0.3000	5570.00	<0.01	138.00	<0.5	<0.002	1.6300	<0.2	4.000	<0.1
	RPD (%)		N/A	1.83	0.00	0.19	N/A	N/A	N/A	2.08	22.22	17.65	N/A	9.90	2.71	N/A	4.82	2.11	2.17	4.57	1.63	0.40	5.41	11.10	0.00	N/A	3.28	2.31	N/A	2.20	N/A	N/A	1.23	N/A	9.52	N/A
	Comments																																			
	Action																																			
	Result																																			
X23	11/4/2010	M	0.50	<60	<2	<20	<1000	<2	<20	500.00	75.70	1310.00	<20	6.00	177000.00	<0.4	18.00	0.22	1100.00	105000.00	<20	71.00	1410.00	<4	<10	2470.00	<2	8340.00	<100	4140.0	<100	2.000	13.00	<100	665000.00	<10
X23	11/4/2010	SPLIT	0.50	<60	<2	<20	<1000	<2	<20	486.00	77.20	1340.00	<20	5.00	173000.00	<0.4	18.00	0.21	1120.00	108000.00	<20	73.00	1440.00	<4	<10	2510.00	<2	7930.00	<100	4200.0	<100	2.000	13.00	<100	688000.00	<10
	RPD (%)		0.00	N/A	N/A	N/A	N/A	N/A	N/A	2.84	1.96	2.26	N/A	18.18	2.29	N/A	0.00	4.12	1.80	2.82	N/A	2.78	2.11	N/A	N/A	1.61	N/A	5.04	N/A	1.44	N/A	0.00	0.00	N/A	3.40	N/A
	Comments																																			
	Action																																			
	Result																																			
X14	11/18/2010	M	<0.005	1.40	0.25	57.50	<50	<0.01	<0.005	194.00	0.09	13.00	<0.1	0.30	194.00		3.18	0.01	38.20	8710.00	0.56	12.10	18.10	0.07	0.08	175.00	0.21	6880.00	<0.01	539.0	<0.5	0.071	3.13	<0.2	123.00	<0.1
X14	11/18/2010	SPLIT	<0.005	1.40	0.26	55.80	<50	<0.01	<0.005	176.00	0.11	13.30	<0.1	0.45	173.00		3.29	0.01	39.40	8940.00	0.54	12.50	19.10	0.03	0.08	180.00	0.19	6320.00	<0.01	527.0	<0.5	0.069	3.07	<0.2	127.00	<0.1
	RPD (%)		N/A	0.00	3.92	3.00	N/A	N/A	N/A	9.73	17.26	2.28	N/A	40.00	11.44	N/A	3.40	1.71	3.09	2.61	3.64	3.25	5.38	88.66	0.00	2.82	10.00	8.48	N/A	2.25	N/A	2.86	1.94	N/A	3.20	N/A
	Comments																							Both values > PQL and correctly entered into emLine.												
	Action																							**Let Value Stand**												
	Result																							Discrepancy between values remains.												
X5	11/25/2010	M	<0.03	2.00	0.20	22.40	<300	<0.05	<0.03	474.00	0.18	64.90	<0.5	<0.3	69.00	<0.05	6.70	0.03	103.00	34500.00	0.40	32.30	82.00	0.05	<0.1	527.00	<0.2	7690.00	<0.05	1230.0	<3	0.230	4.58	<1	393.00	<0.5
X5	11/25/2010	SPLIT	<0.03	2.00	0.20	23.60	<300	<0.05	<0.03	505.00	0.15	63.00	<0.5	<0.3	83.00	<0.05	6.60	0.03	97.90	34300.00	0.40	31.00	77.90	0.05	<0.1	522.00	<0.2	8320.00	<0.05	1260.0	<3	0.220	4.66	<1	387.00	<0.5
	RPD (%)		N/A	0.00	0.00	5.22	N/A	N/A	N/A	6.33	18.18	2.97	N/A	N/A	18.42	N/A	1.50	3.92	5.08	0.58	0.00	4.11	5.13	0.00	N/A	0.95	N/A	7.87	N/A	2.41	N/A	4.44	1.73	N/A	1.54	N/A
	Comments																																			
	Action																																			
	Result																																			
X5	12/2/2010	M	<0.03	3.00	<0.1	22.40	<300	<0.05	<0.03	470.00	0.15	66.20	<0.5	1.00	16.00	<0.05	6.60	0.03	101.00	35700.00	0.40	31.60	88.10	0.53	<0.1	521.00	<0.2	7830.00	<0.05	1240.0	<3	0.210	4.88	<1	408.00	<0.5
X5	12/2/2010	SPLIT	<0.03	3.00	<0.1	22.90	<300	<0.05	0.05	469.00	0.15	65.60	<0.5	0.40	100.00	<0.05	6.50	0.03	99.50	35300.00	0.40	31.20	81.90	0.06	<0.1	510.00	<0.2	7790.00	<0.05	1250.0	<3	0.220	4.99	<1	390.00	<0.5
	RPD (%)		N/A	0.00	N/A	2.21	N/A	N/A	N/A	0.21	0.00	0.91	N/A	85.71	144.83	N/A	1.53	0.00	1.50	1.13	0.00	1.27	7.29	159.32	N/A	2.13	N/A	0.51	N/A	0.80	N/A	4.65	2.23	N/A	4.51	N/A
	Comments													Both values > PQL and correctly entered into emLine.	Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.										Both values correctly entered into emLine; however, split value not > PQL. Therefore, RPD analysis not valid in this case.												
	Action													**Let Value Stand**	**Let Value Stand**										**Let Value Stand**												
	Result													Discrepancy between values remains.	Discrepancy between values remains.										Discrepancy between values remains.												
			RPD > 50%																																
			RPD > 100%																																

Denison Environmental Services

Table C-54: Rose Creek Drainage Water Quality
2010 QA/QC Splits - Total Metals

Faro Mine Closure

Station	Date	Sample Type	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X14	6/29/2010	M	<0.005	17.4	0.41	<50	38.8	<0.01	0.007	71.2	0.036	3.2200	0.3	0.65	274	<0.01	1.46	0.0079	17.1	1860	0.49	5.1	5.06	0.369	67	0.1	0.2	4330	<0.01	236	<0.5	0.078	1.24	<0.2	49.3	<0.1
X14	6/29/2010	SPLIT	<0.005	12.7	0.43	<50	38.1	<0.01	<0.005	73.1	0.046	3.2700	<0.1	0.63	276	<0.01	1.53	0.0073	17.5	1890	0.41	5.26	5.11	0.362	69	0.1	0.2	4470	<0.01	242	<0.5	0.077	1.23	<0.2	50.4	<0.1
	RPD (%)		N/A	31.23	4.76	N/A	1.82	N/A	N/A	2.63	24.39	1.54	N/A	3.13	0.73	N/A	4.68	7.89	2.31	1.60	17.78	3.09	0.98	1.92	2.94	0.00	0.00	3.18	N/A	2.51	N/A	1.29	0.81	N/A	2.21	N/A
	Comments																																			
	Action																																			
	Result																																			
X5P	7/10/2010	M	<0.005	31.80	0.38	<50	17.20	<0.01	0.09	318.00	0.13	16.90	<0.1	1.01	272.00		6.84	0.04	72.70	8980.00	0.63	22.10	22.70	3.10	387.00	0.28	0.12	2930.00	<0.01	1020.0	1.30	0.566	1.56	0.30	173.00	<0.1
X5P	7/10/2010	SPLIT	<0.005	30.80	0.35	<50	17.40	<0.01	0.05	318.00	0.14	17.20	<0.1	0.93	279.00		6.90	0.04	73.60	8940.00	0.63	22.30	23.30	2.88	379.00	0.28	0.13	2970.00	<0.01	1020.0	0.80	0.589	1.56	0.30	171.00	<0.1
	RPD (%)		N/A	3.19	8.22	N/A	1.16	N/A	55.07	0.00	7.41	1.76	N/A	8.25	2.54	N/A	0.87	7.88	1.23	0.45	0.00	0.90	2.61	7.36	2.09	0.00	8.00	1.36	N/A	0.00	47.62	3.98	0.00	0.00	1.16	N/A
	Comments								Both values > PQL and correctly entered into emLine.																													
	Action								Let Value Stand																												
	Result								Discrepancy between values remains.																												
X5	7/20/2010	M	<0.03	5.00	0.50	<300	15.20	<0.05	<0.03	303.00	0.16	21.90	<0.5	0.40	379.00	<0.05	6.20	0.04	71.50	11300.00	0.60	21.80	29.20	1.89	383.00	0.30	<0.2	3490.00	<0.05	905.0	<3	0.530	1.83	<1	267.00	<0.5
X5	7/20/2010	SPLIT	<0.03	5.00	0.50	<300	15.80	<0.05	<0.03	304.00	0.16	22.10	<0.5	0.70	373.00	<0.05	6.30	0.04	71.00	11200.00	0.60	20.60	29.40	1.91	378.00	0.30	0.60	3270.00	<0.05	948.0	<3	0.530	1.80	<1	274.00	<0.5
	RPD (%)		N/A	0.00	0.00	N/A	3.87	N/A	N/A	0.33	0.00	0.91	N/A	54.55	1.60	N/A	1.60	7.79	0.70	0.89	0.00	5.66	0.68	1.05	1.31	0.00	N/A	6.51	N/A	4.64	N/A	0.00	1.65	N/A	2.59	N/A
	Comments													Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.																					
	Action													Let Value Stand																					
	Result													Discrepancy between values remains.																					
X5	7/27/2010	M	<0.03	10.00	0.90	<300	15.80	<0.05	<0.03	307.00	0.15	20.10	<0.5	0.90	412.00	<0.05	6.50	0.04	71.40	9930.00	13.30	20.70	26.60	3.46	378.00	0.40	0.30	3090.00	<0.05	950.0	5.00	0.640	1.51	3.00	299.00	<0.5
X5	7/27/2010	SPLIT	<0.03	9.00	0.70	<300	16.50	<0.05	<0.03	306.00	0.16	21.00	<0.5	1.20	413.00	<0.05	6.80	0.04	76.90	10400.00	0.60	22.30	34.10	3.12	394.00	0.30	<0.2	3020.00	<0.05	970.0	<3	0.650	1.61	2.00	321.00	<0.5
	RPD (%)		N/A	10.53	25.00	N/A	4.33	N/A	N/A	0.33	6.45	4.38	N/A	28.57	0.24	N/A	4.51	2.35	7.42	4.62	182.73	7.44	24.71	10.33	4.15	28.57	N/A	2.29	N/A	2.08	N/A	1.55	6.41	40.00	7.10	N/A
	Comments																				Both values correctly entered into emLine; however, split value not > PQL. Therefore, RPD analysis not valid in this case.																	
	Action																				Let Value Stand															
	Result																				Discrepancy between values remains.															
X3	8/3/2010	M	<0.005	9.30	0.51	<50	48.30	<0.01	<0.005	35.30	0.01	0.05	<0.1	0.53	227.00		0.70	0.00	5.56	28.00	0.46	2.09	0.45	0.67	<10	0.06	0.25	5690.00	<0.01	122.0	<0.5	0.003	1.19	<0.2	5.60	<0.1
X3	8/3/2010	SPLIT	<0.005	9.60	0.57	<50	47.80	<0.01	<0.005	25.10	<0.005	0.05	<0.1	0.46	168.00		0.70	0.00	5.25	28.00	0.53	1.96	0.33	0.46	<10	0.06	0.16	3880.00	<0.01	128.0	<0.5	0.003	1.04	<0.2	4.90	<0.1
	RPD (%)		N/A	3.17	11.11	N/A	1.04	N/A	N/A	33.77	N/A	8.16	N/A	14.14	29.87	N/A	0.00	2.90	5.74	0.00	14.14	6.42	30.77	N/A	37.74	N/A	0.00	43.90	37.83	N/A	4.80	N/A	0.00	13.45	N/A	13.33
	Comments																																			
	Action																																			
	Result																																			
X14	8/10/2010	M	<0.005	9.40	0.47	<50	43.40	<0.01	<0.005	96.70	0.06	3.45	<0.1	0.63	428.00	<0.01	2.15	0.01	21.30	2120.00	0.54	6.97	5.52	1.23	91.00	0.11	0.20	4050.00	<0.01	329.0	<0.5	0.126	1.52	<0.2	61.40	<0.1
X14	8/10/2010	SPLIT	<0.005	10.70	0.48	<50	45.70	<0.01	0.01	97.50	0.06	3.48	<0.1	0.65	418.00	<0.01	2.21	0.01	21.60	2150.00	0.56	7.11	5.46	1.63	95.00	0.11	0.18	4230.00	<0.01	328.0	<0.5	0.121	1.50	<0.2	61.70	<0.1
	RPD (%)		N/A	12.94	2.11	N/A	5.16	N/A	N/A	0.82	13.33	0.87	N/A	3.13	2.36	N/A	2.75	4.52	1.40	1.41	3.64	1.99	1.09	N/A	27.97	4.30	0.00	10.53	4.35	N/A	0.30	N/A	4.05	1.32	N/A	0.49
	Comments																																			
	Action																																			
	Result																																			
X5	8/24/2010	M	<0.03	7.00	0.40	<300	14.70	<0.05	<0.03	295.00	0.19	14.70	<0.5	0.90	513.00	<0.05	6.50	0.04	66.60	7650.00	0.70	20.20	19.40	2.72	361.00	0.30	<0.2	2380.00	<0.05	942.0	<3	0.690	1.32	<1	212.00	<0.5
X5	8/24/2010	SPLIT	<0.03	5.00	0.30	<300	14.60	<0.05	<0.03	297.00	0.15	15.30	<0.5	0.70	518.00	<0.05	6.60	0.04	68.90	7790.00	0.60	21.00	19.80	2.30	370.00	0.30	<0.2	2250.00	<0.05	936.0	<3	0.680	1.34	<1	218.00	<0.5
	RPD (%)		N/A	33.33	28.57	N/A	0.68	N/A	N/A	0.68	23.53	4.00	N/A	25.00	0.97	N/A	1.53	2.41	3.39	1.81	15.38	3.88	2.04	N/A	16.73	2.46	0.00	N/A	5.62	N/A	0.64	N/A	1.46	1.50	N/A	2.79
	Comments																																			
	Action																																			
	Result																																			
X14	8/31/2010	M	<0.005	6.90	0.48	<50	44.00	<0.01	<0.005	86.00	0.06	2.76	<0.1	0.46	441.00		2.06	0.01	19.70	1840.00	0.53	6.08	4.23	0.57	87.00	0.11	0.20	3870.00	<0.01	314.0	<0.5	0.119	1.19	<0.2	49.60	<0.1
X14	8/31/2010	SPLIT	<0.005	7.50	0.46	<50	45.10	<0.01	<0.005	88.40	0.05	2.71	<0.1	0.60	449.00		1.99	0.01	19.30	1790.00	0.55	5.98	4.26	0.58	85.00	0.11	0.21	3820.00	<0.01	323.0	<0.5	0.119	1.24	<0.2	48.60	<0.1
	RPD (%)		N/A	8.33	4.26	N/A	2.47	N/A	N/A	2.75	9.52	1.83	N/A	26.42	1.80	N/A	3.46	0.91	2.05	2.75	3.70	1.66	0.71	N/A	0.87	2.33	0.00	4.88	1.30	N/A	2.83	N/A	0.00	4.12	N/A	2.04
	Comments																																			
	Action																																			
	Result																																			
X3	9/2/2010	M	<0.005	8.50	0.50	<50	44.60	<0.01	<0.005	26.70	0.01	0.06	<0.1	0.46	171.00		0.68	0.00	5.52	24.00	0.57	2.11	0.45	0.41	<10	0.04	0.16	4410.00	<0.01	124.0	<0.5	<0.002	1.11	<0.2	8.70	<0.1
X3	9/2/2010	SPLIT	<0.005	7.60	0.48	<50	45.00	<0.01	<0.005	26.60	0.01	0.06	<0.1	0.43	170.00		0.68	0.00	5.63	24.20	0.42	2.17	0.42	0.23	<10	0.05	0.17	4410.00	<0.01	125.0	<0.5	<0.002	1.20	<0.2	6.90	<0.1
	RPD (%)		N/A	11.18	4.08	N/A	0.89	N/A	N/A	0.38	9.52	5.31	N/A	6.74	0.59	N/A	0.00	6.06	1.97	0.83	30.30	2.80	6.90	55.05	N/A	22.22	6.06	0.00	N/A	0.80	N/A	N/A	7.79	N/A	23.08	N/A
	Comments																							Both values > PQL and correctly entered into emLine.													
	Action																							Let Value Stand													
	Result																							Discrepancy between values remains.													
X7	10/6/2010	M	<0.5	2050.00	27.00	<5000	13.00	<1	<0.5	445.00	20.10	1340.00	<10	<5	1700000.00		13.00	0.14	867.00	101000.00	<5	57.00	1210.00	24.80	2930.00	<2	<4	19800.00	<1	4020.0	<50	0.300	5.00	<20	541000.00	<10
X7	10/6/2010	SPLIT	<0.5	2050.00	27.00	<5000	13.00	<1	<0.5	434.00	20.80	1360.00	<10	<5	1670000.00		14.00	0.14	889.00	102000.00	<5	58.00	1220.00	24.60	2820.00	<2	<4	18900.00	<1	4080.0	<50	0.400	4.60	<20	557000.00	<10
	RPD (%)		N/A	0.00	0.00	N/A	0.00	N/A	N/A	2.50	3.42	1.48	N/A	N/A	1.78	N/A	7.41	2.84	2.51	0.99	N/A	1.74	0.82	0.81	3.83	N/A	N/A	4.65	N/A	1.48	N/A	28.57	8.33	N/A	2.91	N/A
	Comments																																			
	Action																																			
	Result																																			

RPD > 50%
RPD > 100%

Denison Environmental Services

Table C-54: Rose Creek Drainage Water Quality
2010 QA/QC Splits - Total Metals

Faro Mine Closure

Station	Date	Sample Type	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
FCO	10/7/2010	M	<0.005	635.00	0.08	<50	36.10	0.15	<0.005	12.40	1.79	2.46	0.30	53.00	254.00		0.46	0.00	3.91	41.50	0.21	2.98	7.12	0.48	13.00	0.04	<0.04	7620.00	<0.01	64.8	<0.5	0.004	0.28	<0.2	1210.00	<0.1
FCO	10/7/2010	SPLIT	<0.005	637.00	0.08	<50	35.70	0.14	<0.005	12.20	1.73	2.45	0.30	54.70	255.00		0.45	0.00	3.90	40.50	0.08	2.99	7.23	0.53	13.00	0.04	<0.04	7510.00	<0.01	62.8	<0.5	0.005	0.29	<0.2	1240.00	<0.1
	RPD (%)		N/A	0.31	0.00	N/A	1.11	6.90	N/A	1.63	3.41	0.41	0.00	3.16	0.39	N/A	2.20	2.25	0.26	2.44	89.66	0.34	1.53	8.73	0.00	0.00	N/A	1.45	N/A	3.13	N/A	22.22	1.75	N/A	2.45	N/A
	Comments																				Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.																	
	Action																				Let Value Stand															
	Result																				Discrepancy between values remains.															
R9	10/19/2010	M	<0.005	8.50	0.58	<50	52.50	<0.01	<0.005	31.70	0.02	0.03	<0.1	0.39	172.00		0.73	0.00	7.00	19.60	0.60	2.42	0.30	0.22	<10	0.06	0.32	5620.00	<0.01	133.0	<0.5	<0.002	1.56	<0.2	1.90	<0.1
R9	10/19/2010	SPLIT	<0.005	8.40	0.62	<50	52.10	<0.01	<0.005	31.80	0.02	0.03	<0.1	0.46	171.00		0.72	0.00	6.71	19.50	0.59	2.35	0.34	0.82	<10	0.07	0.30	5600.00	<0.01	131.0	<0.5	<0.002	1.54	<0.2	2.80	<0.1
	RPD (%)		N/A	1.18	6.67	N/A	0.76	N/A	N/A	0.31	6.45	6.25	N/A	16.47	0.58	N/A	1.38	0.00	4.23	0.51	1.68	2.94	12.50	116.54	N/A	15.38	6.45	0.36	N/A	1.52	N/A	N/A	1.29	N/A	38.30	N/A
	Comments																							Both values > PQL and correctly entered into emLine.													
	Action																							Request Retest													
	Result																							Retest performed, see results below.													
R9 Retest	10/19/2010	M																						0.16												
R9 Retest	10/19/2010	SPLIT																						0.76												
	RPD (%)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	129.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Comments																							Retest for October 19 R9 sample and split. Both values > PQL and correctly entered into emLine.													
	Action																							Let Value Stand													
	Result																							New values entered into emLine.													
X14	11/18/2010	M	<0.005	49.40	0.64	<50	57.30	<0.01	<0.005	174.00	0.12	13.4000	<0.1	0.6900	1020.00		3.18	0.012	39.80	8780.000	0.60	12.70	19.500	0.9780	173.00	0	0.2300	6210.00	<0.01	516.00	1.60	0.07	3.1500	<0.2	135.000	<0.1
X14	11/18/2010	SPLIT	<0.005	51.40	0.69	<50	57.90	<0.01	<0.005	188.00	0.11	14.0000	<0.1	0.7000	1190.00		3.20	0.012	40.70	8950.000	0.57	13.00	20.200	1.0100	175.00	0	0.2700	6790.00	<0.01	529.00	2.00	0.07	3.1500	<0.2	137.000	<0.1
	RPD (%)		N/A	3.97	7.52	N/A	1.04	N/A	N/A	7.73	2.64	4.38	N/A	1.44	15.38	N/A	0.63	0.00	2.24	1.92	5.13	2.33	3.53	3.22	1.15	0.00	16.00	8.92	N/A	2.49	22.22	1.38	0.00	N/A	1.47	N/A
	Comments																																			
	Action																																			
	Result																																			
X5	11/25/2010	M	<0.03	4.00	0.20	<300	22.40	<0.05	<0.03	418.00	0.18	60.30	<0.5	1.00	497.00	<0.05	6.50	0.03	93.70	33400.00	0.40	28.90	83.90	0.90	503.00	<0.1	<0.2	7080.00	<0.05	1220.0	<3	0.220	4.62	<1	390.00	<0.5
X5	11/25/2010	SPLIT	<0.03	3.00	0.20	<300	23.60	<0.05	<0.03	453.00	0.22	62.60	<0.5	0.40	543.00	<0.05	6.70	0.03	97.10	34500.00	0.50	29.80	79.60	0.73	523.00	<0.1	<0.2	7430.00	<0.05	1270.0	<3	0.230	4.86	<1	399.00	<0.5
	RPD (%)		N/A	28.57	0.00	N/A	5.22	N/A	N/A	8.04	20.00	3.74	N/A	85.71	8.85	N/A	3.03	3.92	3.56	3.24	22.22	3.07	5.26	20.86	3.90	N/A	N/A	4.82	N/A	4.02	N/A	4.44	5.06	N/A	2.28	N/A
	Comments													Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.																							
	Action													Let Value Stand																							
	Result													Discrepancy between values remains.																							
X5	12/2/2010	M	<0.03	4.00	0.30	<300	23.80	<0.05	<0.03	458.00	0.15	65.80	<0.5	0.60	547.00	<0.05	6.90	0.02	101.00	35800.00	0.50	30.80	83.50	0.56	511.00	<0.1	<0.2	7770.00	<0.05	1260.0	<3	0.210	4.74	<1	395.00	<0.5
X5	12/2/2010	SPLIT	<0.03	3.00	0.20	<300	23.20	<0.05	<0.03	466.00	0.18	66.10	<0.5	0.50	558.00	<0.05	6.80	0.02	101.00	35900.00	<0.3	30.90	81.40	0.53	520.00	<0.1	<0.2	7920.00	<0.05	1240.0	4.00	0.220	4.72	<1	399.00	<0.5
	RPD (%)		N/A	28.57	40.00	N/A	2.55	N/A	N/A	1.73	18.18	0.45	N/A	18.18	1.99	N/A	1.46	0.00	0.00	0.28	N/A	0.32	2.55	5.50	1.75	N/A	N/A	1.91	N/A	1.60	N/A	4.65	0.42	N/A	1.01	N/A
	Comments																																			
	Action																																			
	Result																																			

RPD > 50%
RPD > 100%

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
A30	2/4/2010	275	250	9.52				6.9	6.2	0.7			
A30	2/24/2010	224	188	17.48				7	6.6	0.4			
A30	3/2/2010	213	209	1.90				7.1	6.82	0.28			
A30	3/28/2010	201	160	22.71	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.3	6.87	0.43			
A30	4/10/2010	202	160	23.20	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains. Multiple flagged conductivity values on April 11, 2010 suggests calibration on field meter may have been off.	7.3	6.76	0.54			
A30	4/19/2010	187	150	21.96	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.3	6.98	0.32			
A30	5/1/2010	1670	1610	3.66				3.6	3.77	0.17			
A30	5/18/2010	752	132	140.27	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.	4.9	5.22	0.32			
A30	6/2/2010	484	549	12.58				5	5.65	0.65			
A30	6/15/2010	320	296	7.79				6.7	6.16	0.54			
A30	7/7/2010	753	810	7.29				5.82	6.09	0.27			
A30	7/22/2010	410	371	9.99				6.53	7	0.47			
A30	8/5/2010	312	339	8.29				6.75	6.85	0.1			
A30	8/18/2010	238	260	8.84				6.8	7.68	0.88			
A30	9/1/2010	224	227	1.33				6.99	6.69	0.3			
A30	10/20/2010	223	208	6.96				7.36	6.56	0.8			
A30	11/4/2010	221	223	0.90				7.4	7.33	0.07			
A30	12/1/2010	197	80	84.48	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains. Multiple flagged conductivity values on December 1, 2010 suggests calibration on field meter may have been off.	7.17	6.86	0.31			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
ETA Combined	9/2/2010	7060	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			4.85	5.98	1.13	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
ETA Combined	10/20/2010	7510	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			4.89	6.3	1.41	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
ETA Combined	11/8/2010	7450	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			5.05	6.05	1	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
ETA Combined	12/1/2010	7360	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			5.29	6.24	0.95			
FAROCR	5/3/2010	50	78	43.75	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.3	7.54	0.24			
FAROCR	6/5/2010	29	21	32.00	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.2	7.84	0.64			
FAROCR	7/8/2010	48	42	13.33				7.5	8.16	0.66			
FAROCR	8/3/2010	81	79	2.50				7.79	7.33	0.46			
FAROCR	9/1/2010	85	80	6.06				7.69	7.75	0.06			
FAROCR	10/19/2010	77	244	104.05	Field and lab values correctly entered into emLine.	**Request Retest**	Retest performed, see results below.	7.67	7.26	0.41			
FAROCR Retest	10/19/2010	74	244	106.92	Retest for October 19 FAROCR EC. Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.67	7.26	0.41			
FCO	6/16/2010	118	122	3.33				7.1	7.85	0.75			
FCO	10/7/2010	123	70	54.92	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains.	7.2	7.52	0.32			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
FCS-4	9/2/2010	6080	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			5.28	6.34	1.06	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
FCS-4	10/20/2010	7180	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			4.61	6.5	1.89	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains.
FCS-4	11/10/2010	7160	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			5.06	6.63	1.57	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past sample hold time. Discrepancy between values remains.
FCS-4	12/2/2010	6890	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			4.73	6.67	1.94	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past sample hold time. Discrepancy between values remains.
GDHSECK	3/4/2010	1230	1110	10.26				8.1	7.56	0.54			
GDHSECK	6/16/2010	1230	1238	0.65				8.1	8.19	0.09			
GDHSECK	10/6/2010	1110	1234	10.58				8.07	7.05	1.02	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
NE1	6/1/2010	480	627	26.56	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.8	7.46	0.34			
NF1	2/23/2010	297	240	21.23	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains. Multiple flagged conductivity values on February 23, 2010 suggests calibration on field meter may have been off.	7.9	7.77	0.13			
NF1	3/10/2010	298	269	10.23				8	7.84	0.16			
NF1	4/11/2010	325	260	22.22	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains. Multiple flagged conductivity values on April 11, 2010 suggests calibration on field meter may have been off.	7.9	7.37	0.53			
NF1	5/3/2010	103	90	13.47				7.6	7.43	0.17			
NF1	6/5/2010	97	99	2.04				7.6	7.84	0.24			
NF1	7/8/2010	134	129	3.80				7.91	7.71	0.2			
NF1	8/3/2010	355	421	17.01				7.26	6.68	0.58			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
NF2	1/12/2010	286	266	7.25				7.7	6.86	0.84			
NF2	2/23/2010	295	230	24.76	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains. Multiple flagged conductivity values on February 23, 2010 suggests calibration on field meter may have been off.	8	7.71	0.29			
NF2	3/10/2010	298	267	10.97				8	7.62	0.38			
NF2	4/14/2010	308	270	13.15				8.2	7.48	0.72			
NF2	5/3/2010	107	97	9.80				7.6	7.29	0.31			
NF2	6/4/2010	87	81	7.14				7.6	7.86	0.26			
NF2	7/8/2010	136	154	12.41				7.91	8.18	0.27			
NF2	8/3/2010	196	193	1.54				8.01	7.5	0.51			
NF2	9/1/2010	203	222	8.94				7.92	8.1	0.18			
NF2	10/18/2010	215	200	7.23				7.9	7.46	0.44			
NF2	11/9/2010	258	252	2.35				8.06	8.08	0.02			
NF2	12/1/2010	262	120	74.35	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains. Multiple flagged conductivity values on December 1, 2010 suggests calibration on field meter may have been off.	7.93	7.41	0.52			
NFRC SC-1	1/12/2010	288	252	13.33				7.6	6.84	0.76			
NFRC SC-1	2/23/2010	298	250	17.52				8	7.75	0.25			
NFRC SC-1	3/10/2010	304	269	12.22				8	7.83	0.17			
NFRC SC-1	4/14/2010	304	260	15.60				8.1	7.19	0.91			
NFRC SC-1	5/3/2010	108	96	11.76				7.6	7.57	0.03			
NFRC SC-1	6/4/2010	88	84	4.65				7.6	7.65	0.05			
NFRC SC-1	7/8/2010	137	129	6.02				7.89	8.05	0.16			
NFRC SC-1	8/3/2010	197	192	2.57				8.04	7.64	0.4			
NFRC SC-1	10/18/2010	217	197	9.66				8.03	7.47	0.56			
NFRC SC-2	1/12/2010	287	250	13.78				7.6	6.95	0.65			
NFRC SC-2	2/23/2010	300	240	22.22	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.9	7.77	0.13			
NFRC SC-2	3/10/2010	301	269	11.23				8	7.61	0.39			
NFRC SC-2	4/14/2010	309	270	13.47				8.1	7.24	0.86			
NFRC SC-2	5/3/2010	109	99	9.62				7.6	7.72	0.12			
NFRC SC-2	6/4/2010	89	86	3.43				7.6	7.68	0.08			
NFRC SC-2	7/8/2010	135	129	4.55				7.82	7.97	0.15			
NFRC SC-2	8/3/2010	196	186	5.24				8.04	7.54	0.5			
NFRC SC-2	10/18/2010	219	198	10.07				8.03	7.47	0.56			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	Date	µmho/cm	µmho/cm	%									
NFRC SC-3	1/12/2010	288	257	11.38				7.8	7	0.8			
NFRC SC-3	2/23/2010	297	260	13.29				8	7.66	0.34			
NFRC SC-3	3/10/2010	304	270	11.85				8	7.68	0.32			
NFRC SC-3	4/14/2010	308	270	13.15				8.1	7.31	0.79			
NFRC SC-3	5/3/2010	109	96	12.68				7.6	7.46	0.14			
NFRC SC-3	6/4/2010	89	84	5.78				7.6	7.69	0.09			
NFRC SC-3	7/8/2010	136	130	4.51				7.9	7.97	0.07			
NFRC SC-3	8/3/2010	195	191	2.07				8.03	7.69	0.34			
NFRC SC-3	10/18/2010	218	197	10.12				8.04	7.56	0.48			
NFRC SC-4	1/11/2010	294	255	14.21				7.8	6.95	0.85			
NFRC SC-4	2/23/2010	303	260	15.28				7.9	7.49	0.41			
NFRC SC-4	3/10/2010	305	271	11.81				8	7.82	0.18			
NFRC SC-4	4/14/2010	316	270	15.70				8.1	7.47	0.63			
NFRC SC-4	5/3/2010	112	95	16.43				7.7	7.54	0.16			
NFRC SC-4	6/4/2010	89	86	3.43				7.6	7.71	0.11			
NFRC SC-4	7/8/2010	136	128	6.06				7.83	7.87	0.04			
NFRC SC-4	8/3/2010	196	203	3.51				8.06	7.88	0.18			
NFRC SC-4	10/18/2010	220	195	12.05				8.13	7.58	0.55			
NWID	2/22/2010	399	340	15.97				8.1	8.01	0.09			
NWID	3/10/2010	405	362	11.21				8.1	7.87	0.23			
NWID	4/15/2010	411	420	2.17				8.3	7.74	0.56			
NWID	5/3/2010	155	137	12.33				7.7	7.77	0.07			
NWID	6/4/2010	202	208	2.93				8	8.03	0.03			
NWID	7/10/2010	293	307	4.67				8.05	8.15	0.1			
NWID	8/3/2010	336	340	1.18				8.19	7.79	0.4			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
R10	1/11/2010	283	241	16.03				7.7	7.06	0.64			
R10	2/23/2010	292	235	21.63	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains. Multiple flagged conductivity values on February 23, 2010 suggests calibration on field meter may have been off.	8.1	7.87	0.23			
R10	3/10/2010	292	259	11.98				8	7.79	0.21			
R10	4/11/2010	298	240	21.56	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains. Multiple flagged conductivity values on April 11, 2010 suggests calibration on field meter may have been off.	7.9	7.43	0.47			
R10	5/3/2010	111	95	15.53				7.7	7.7	0			
R10	6/5/2010	98	103	4.98				7.7	7.93	0.23			
R10	7/8/2010	132	125	5.45				7.84	7.94	0.1			
R10	8/3/2010	190	188	1.06				8.11	7.46	0.65			
R10	9/1/2010	193	187	3.16				7.99	7.79	0.2			
R10	10/19/2010	213	207	2.86				7.95	7.65	0.3			
R10	11/10/2010	256	234	8.98				7.94	7.86	0.08			
R10	12/1/2010	258	350	30.26	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	8.03	7.58	0.45			
R7	1/11/2010	254	235	7.77				7.9	7.21	0.69			
R7	2/23/2010	266	260	2.28				8	7.95	0.05			
R7	3/10/2010	268	239	11.44				8.1	7.78	0.32			
R7	4/11/2010	275	240	13.59				8.1	7.78	0.32			
R7	5/3/2010	106	91	15.23				7.8	7.66	0.14			
R7	6/5/2010	101	97	4.04				7.7	7.85	0.15			
R7	7/8/2010	128	122	4.80				7.89	8.04	0.15			
R7	8/3/2010	180	183	1.65				8.13	7.37	0.76			
R7	9/1/2010	180	186	3.28				8.03	7.84	0.19			
R7	10/19/2010	198	198	0.00				7.98	7.2	0.78			
R7	11/10/2010	229	215	6.31				8.02	7.9	0.12			
R7	12/1/2010	239	100	82.01	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains. Multiple flagged conductivity values on December 1, 2010 suggests calibration on field meter may have been off.	8.04	7.12	0.92			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
R8	1/11/2010	256	221	14.68				7.9	6.91	0.99			
R8	2/23/2010	252	220	13.56				8.2	7.94	0.26			
R8	3/10/2010	271	244	10.49				8.1	7.84	0.26			
R8	4/11/2010	274	230	17.46				8.1	7.73	0.37			
R8	5/3/2010	101	87	14.89				7.7	7.51	0.19			
R8	6/5/2010	89	89	0.00				7.7	7.92	0.22			
R8	7/8/2010	123	121	1.64				7.99	8.09	0.1			
R8	8/3/2010	176	177	0.57				8.13	7.26	0.87			
R8	9/1/2010	172	172	0.00				8	7.66	0.34			
R8	10/19/2010	191	193	1.04				7.98	7.8	0.18			
R8	11/10/2010	229	195	16.04				8.03	7.76	0.27			
R8	12/1/2010	233	100	79.88	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains. Multiple flagged conductivity values on December 1, 2010 suggests calibration on field meter may have been off.	8.05	7.28	0.77			
R9	1/11/2010	279	272	2.54				7.8	7.11	0.69			
R9	2/23/2010	289	250	14.47				8.1	7.73	0.37			
R9	3/10/2010	293	262	11.17				8.1	7.88	0.22			
R9	4/11/2010	292	230	23.75	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains. Multiple flagged conductivity values on April 11, 2010 suggests calibration on field meter may have been off.	8.1	7.81	0.29			
R9	5/3/2010	108	95	12.81				7.7	7.78	0.08			
R9	6/5/2010	97	101	4.04				7.7	8.05	0.35			
R9	7/8/2010	1	127	196.88	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.	7.91	8.01	0.1			
R9	8/3/2010	190	194	2.08				8.15	7.47	0.68			
R9	9/1/2010	197	187	5.21				7.88	7.81	0.07			
R9	10/19/2010	213	211	0.94				7.99	7.6	0.39			
R9	11/10/2010	254	254	0.00				8.01	7.87	0.14			
R9	12/1/2010	260	120	73.68	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains. Multiple flagged conductivity values on December 1, 2010 suggests calibration on field meter may have been off.	7.86	7.46	0.4			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
RCSG#4	1/12/2010	313	310	0.96				7.9	7.23	0.67			
RCSG#4	3/10/2010	320	285	11.57				8	7.75	0.25			
RCSG#4	4/13/2010	331	300	9.83				7.8	7.35	0.45			
RCSG#4	5/3/2010	130	115	12.24				7.8	7.64	0.16			
RCSG#4	6/4/2010	92	92	0.00				7.6	7.84	0.24			
RCSG#4	7/8/2010	126	126	0.00				7.78	7.94	0.16			
RCSG#4	8/3/2010	200	207	3.44				8	7.5	0.5			
SP5-6	6/1/2010	1050	1172	10.98				8	7.45	0.55			
SP5-6	7/10/2010	1080	1049	2.91				7.65	7.5	0.15			
SP5-6	8/5/2010	1280	1216	5.13				7.87	7.49	0.38			
SP5-6	9/1/2010	1450	1439	0.76				7.91	7.63	0.28			
SP5-6	10/6/2010	1590	1786	11.61				8.02	6.84	1.18	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
W10	5/3/2010	77	109	34.41	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.7	7.71	0.01			
W10	6/5/2010	75	68	9.79				7.6	7.76	0.16			
W10	7/10/2010	103	101	1.96				7.67	8.08	0.41			
W5	6/1/2010	752	1680	76.32	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.	8.1	7.63	0.47			
W8	6/17/2010	116	106	9.01				7.8	7.72	0.08			
Weir 3	3/4/2010	1780	1730	2.85				7.8	6.97	0.83			
Weir 3	8/5/2010	1840	1870	1.62				7.61	6.96	0.65			
X10	1/11/2010	326	286	13.07				8	7.13	0.87			
X10	2/22/2010	329	280	16.09				8	7.46	0.54			
X10	3/10/2010	334	292	13.42				8.1	7.51	0.59			
X10	4/13/2010	340	310	9.23				7.9	7.55	0.35			
X10	5/3/2010	129	112	14.11				7.8	7.79	0.01			
X10	6/4/2010	99	111	11.43				7.8	8.05	0.25			
X10	7/8/2010	134	128	4.58				7.95	8.09	0.14			
X10	8/3/2010	205	205	0.00				8.18	8.01	0.17			
X10	9/2/2010	196	194	1.03				8.01	7.42	0.59			
X10	10/21/2010	257	244	5.19				8.16	7.93	0.23			
X10	11/9/2010	274	268	2.21				8.18	7.52	0.66			
X10	12/1/2010	275	240	13.59				8.03	7.87	0.16			
X11	3/4/2010	2650	2460	7.44				7.6	7.05	0.55			
X11	8/5/2010	2540	2289	10.40				7.37	6.91	0.46			
X12	3/4/2010	1560	1460	6.62				7.8	7.27	0.53			
X12	8/5/2010	1490	1243	18.08				7.65	7.3	0.35			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
X13	1/11/2010	1700	1430	17.25				7.9	6.08	1.82	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.
X13	2/17/2010	2220	2240	0.90				7.8	7.17	0.63			
X13	3/2/2010	2220	1780	22.00	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.7	7	0.7			
X13	4/15/2010	2100	2220	5.56				7.8	6.96	0.84			
X13	5/6/2010	2240	2229	0.49				7.6	7.13	0.47			
X13	6/10/2010	2030	1859	8.79				8.0	7.00	1	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X13	7/11/2010	2160	1999	7.74				7.49	7.38	0.11			
X13	8/5/2010	2110	1798	15.97				7.51	7.12	0.39			
X13	9/2/2010	2050	2164	5.41				7.6	7.2	0.4			
X13	10/7/2010	2170	1270	52.33	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains.	7.55	6.19	1.36	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X13	11/4/2010	2200	2165	1.60				7.8	7.17	0.63			
X13	12/2/2010	2310	2400	3.82				7.57	7.07	0.5			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
X14	1/11/2010	741	624	17.14				8	6.76	1.24	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X14	2/22/2010	765	720	6.06				8	6.91	1.09	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X14	3/10/2010	837	757	10.04				7.9	7.71	0.19			
X14	3/22/2010	894	749	17.65				8.2	7.49	0.71			
X14	3/30/2010	1130	1030	9.26				8	7.37	0.63			
X14	4/6/2010	1170	1100	6.17				8	7.4	0.6			
X14	4/13/2010	1160	1027	12.16				8	7.85	0.15			
X14	4/20/2010	873	1914	74.70	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.	8	7.44	0.56			
X14	4/27/2010	362	357	1.39				8	7.3	0.7			
X14	5/4/2010	563	506	10.66				8	7.53	0.47			
X14	5/11/2010	501	471	6.17				8	7.65	0.35			
X14	5/18/2010	382	360	5.93				7.8	8.02	0.22			
X14	5/25/2010	229	243	5.93				7.8	8.01	0.21			
X14	6/1/2010	309	345	11.01				7.3	8.14	0.84			
X14	6/8/2010	376	380	1.06				7.9	7.93	0.03			
X14	6/15/2010	446	420	6.00				8.1	7.87	0.23			
X14	6/22/2010	454	438	3.59				8.1	7.75	0.35			
X14	6/29/2010	511	501	1.98				7.95	7.35	0.6			
X14	7/6/2010	383	395	3.08				7.8	8.01	0.21			
X14	7/13/2010	500	456	9.21				7.78	8.19	0.41			
X14	7/20/2010	594	1693	96.11	Lab value correctly entered into emLine, but field value incorrectly entered.	**Change Value**	Field value changed; now correctly entered into emLine (see below).	7.99	7.76	0.23			
X14	7/20/2010	594	563	5.36	Lab value correctly entered into emLine, and incorrect field value amended (see above).	**Let Value Stand**	Discrepancy between lab and field values resolved.	7.99	7.76	0.23			
X14	7/27/2010	637	606	4.99				7.99	8.11	0.12			
X14	8/3/2010	311	338	8.32				8.08	7.99	0.09			
X14	8/10/2010	638	658	3.09				7.78	7.92	0.14			
X14	8/17/2010	660	614	7.22				8.11	7.92	0.19			
X14	8/24/2010	496	423	15.89				8.09	8.67	0.58			
X14	8/31/2010	610	650	6.35				8.17	7.96	0.21			
X14	9/7/2010	503	532	5.60				7.93	8.27	0.34			
X14	10/21/2010	471	426	10.03				8.14	7.8	0.34			
X14	11/9/2010	491	500	1.82				8.19	7.89	0.3			
X14	11/18/2010	1080	1010	6.70				8.05	7.75	0.3			
X14	11/25/2010	1020	1008	1.18				7.73	8.21	0.48			
X14	12/2/2010	984	1000	1.61				7.95	7.7	0.25			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
X2	1/11/2010	305	266	13.66				7.5	6.94	0.56			
X2	2/22/2010	322	288	11.15				7.8	7.31	0.49			
X2	3/10/2010	318	132	82.67	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of sample had been discarded.	7.8	7.27	0.53			
X2	4/14/2010	352	290	19.31				8.2	7.03	1.17	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X2	5/3/2010	113	188	49.83	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.7	7.46	0.24			
X2	6/4/2010	92	94	2.15				7.6	7.81	0.21			
X2	7/8/2010	139	131	5.93				7.91	7.82	0.09			
X2	8/3/2010	201	197	2.01				8.16	7.68	0.48			
X2	9/2/2010	208	189	9.57				7.96	7.37	0.59			
X2	10/18/2010	226	220	2.69				7.96	7.6	0.36			
X2	11/9/2010	268	258	3.80				8.05	7.98	0.07			
X2	12/1/2010	271	130	70.32	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains. Multiple flagged conductivity values on December 1, 2010 suggests calibration on field meter may have been off.	7.92	7.2	0.72			
X22b	1/11/2010	1360	1146	17.08				7.5	6.4	1.1	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X22b	2/22/2010	1290	1210	6.40				7.5	7.44	0.06			
X22b	3/10/2010	1270	1171	8.11				7.6	7.04	0.56			
X22b	4/13/2010	1280	1230	3.98				7.3	6.89	0.41			
X22b	5/3/2010	369	344	7.01				7.4	7.23	0.17			
X22b	6/4/2010	1200	1178	1.85				7.5	7.14	0.36			
X22b	7/10/2010	1230	1163	5.60				7.43	7.33	0.1			
X22b	8/3/2010	1240	1215	2.04				7.63	6.55	1.08	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X22b	9/1/2010	1270	1222	3.85				7.64	7.25	0.39			
X22b	10/20/2010	1310	1328	1.36				7.67	6.25	1.42	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X22b	11/8/2010	1340	1190	11.86				7.69	7.46	0.23			
X22b	12/1/2010	1350	1340	0.74				7.63	6.9	0.73			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
X23	1/12/2010	8450	7990	5.60				6.1	6.23	0.13			
X23	4/27/2010	7030	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			2.9	2.96	0.06			
X23	5/6/2010	7450	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.3	6.55	0.25			
X23	6/10/2010	7920	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			5.9	6.99	1.09	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X23	7/10/2010	8090	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			5.9	6.16	0.26			
X23	8/5/2010	7900	7450	5.86				6.28	7.12	0.84			
X23	9/2/2010	7900	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.32	6.18	0.14			
X23	10/7/2010	7610	4300	55.58	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains.	6.05	6.19	0.14			
X23	11/4/2010	7740	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.81	6.61	0.2			
X3	1/11/2010	303	266	13.01				7.6	6.92	0.68			
X3	2/22/2010	314	292	7.26				7.9	7.35	0.55			
X3	3/9/2010	316	260	19.44				7.9	7.39	0.51			
X3	4/14/2010	327	290	11.99				8.2	7.02	1.18	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X3	5/3/2010	117	114	2.60				7.4	7.74	0.34			
X3	6/4/2010	84	86	2.35				7.7	7.83	0.13			
X3	7/8/2010	118	111	6.11				7.85	7.91	0.06			
X3	8/3/2010	189	183	3.23				8.16	7.86	0.3			
X3	9/2/2010	186	205	9.72				7.99	7.34	0.65			
X3	10/21/2010	234	225	3.92				8.05	7.57	0.48			
X3	11/9/2010	258	256	0.78				8.1	7.92	0.18			
X3	12/1/2010	259	230	11.86				7.95	7.62	0.33			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
X3A	9/2/2010	206	192	7.04				7.99	7.5	0.49			
X3A	10/21/2010	244	268	9.38				8.11	7.84	0.27			
X3A	11/9/2010	264	266	0.75				8.14	7.97	0.17			
X3A	12/1/2010	263	240	9.15				7.99	7.75	0.24			
X4	1/11/2010	2210	1791	20.94	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	3.4	3.02	0.38			
X4	2/22/2010	1970	1820	7.92				4	4.82	0.82			
X4	3/9/2010	1390	1350	2.92				6.5	6.35	0.15			
X4	4/13/2010	1340	1350	0.74				6.1	6.36	0.26			
X4	5/3/2010	1010	877	14.10				4.7	4.51	0.19			
X4	6/4/2010	1940	1868	3.78				3.2	3.12	0.08			
X4	7/10/2010	1930	1871	3.10				3.32	3.12	0.2			
X4	8/3/2010	1950	2020	3.53				3.39	460	456.61	Lab value correctly entered into emLine, but field value incorrectly entered.	**Change Value**	Field value changed; now correctly entered into emLine (see below).
X4	8/3/2010	1950	2020	3.53				3.39	4.6	1.21	Lab value correctly entered into emLine, and incorrect field value amended (see above).	**Let Value Stand**	Large discrepancy between lab and field values resolved, but small discrepancy between values still remains.
X4	9/2/2010	1880	1752	7.05				3.48	4.69	1.21	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X4	10/20/2010	1590	1511	5.10				5.61	6.65	1.04	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X4	11/8/2010	1860	1632	13.06				3.73	4.49	0.76			
X4	12/1/2010	1310	1429	8.69				6.32	6.36	0.04			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

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Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
X5	3/22/2010	1810	1580	13.57				8.1	7.11	0.99			
X5	3/30/2010	1800	1700	5.71				7.9	7.02	0.88			
X5	4/6/2010	1880	1720	8.89				7.8	7	0.8			
X5	4/13/2010	1840	1561	16.41				7.6	7.41	0.19			
X5	4/20/2010	1820	1947	6.74				7.7	6.85	0.85			
X5	4/27/2010	1450	1399	3.58				7.9	7.19	0.71			
X5	5/4/2010	1620	1433	12.25				7.9	7.06	0.84			
X5	5/11/2010	1490	1390	6.94				7.9	7.45	0.45			
X5	5/18/2010	1350	1310	3.01				8	7.37	0.63			
X5	5/25/2010	1430	1441	0.77				7.9	7.51	0.39			
X5	6/1/2010	1670	1740	4.11				8.1	7.51	0.59			
X5	6/8/2010	1740	1664	4.47				7.9	7.49	0.41			
X5	6/15/2010	1760	1670	5.25				8.2	7.48	0.72			
X5	6/22/2010	1710	1605	6.33				8.2	7.63	0.57			
X5	6/29/2010	1770	1725	2.58				7.82	6.80	1.02	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X5	7/6/2010	2280	1705	28.86	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.89	7.57	0.32			
X5	7/13/2010	1810	1567	14.39				7.97	7.85	0.12			
X5	7/20/2010	1830	1674	8.90				7.85	7.69	0.16			
X5	7/27/2010	1780	1589	11.34				7.92	7.83	0.09			
X5	8/10/2010	1780	1806	1.45				7.76	8.02	0.26			
X5	8/17/2010	1750	1594	9.33				7.99	7.74	0.25			
X5	8/24/2010	1740	1266	31.54	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	8.01	7.98	0.03			
X5	8/31/2010	1770	1860	4.96				7.84	7.64	0.2			
X5	9/7/2010	1840	1708	7.44				7.84	7.65	0.19			
X5	11/18/2010	2360	2219	6.16				7.94	7.3	0.64			
X5	11/25/2010	2500	2414	3.50				7.43	7.57	0.14			
X5	12/2/2010	2470	2590	4.74				7.73	6.88	0.85			
X5P	1/11/2010	1860	1559	17.61				7.6	6.63	0.97			
X5P	2/22/2010	1740	1569	10.34				7.7	7.21	0.49			
X5P	3/2/2010	1750	1420	20.82	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.7	7.03	0.67			
X5P	4/13/2010	1780	1488	17.87				7.5	7.84	0.34			
X5P	5/3/2010	877	744	16.41				7.8	7.75	0.05			
X5P	6/4/2010	1740	1682	3.39				7.7	7.13	0.57			
X5P	7/10/2010	1780	1680	5.78				7.79	7.64	0.15			
X5P	8/3/2010	1800	1665	7.79				8	7.17	0.83			
X5P	9/2/2010	1760	1687	4.24				7.75	7.53	0.22			
X5P	10/20/2010	2070	1955	5.71				8.06	7.38	0.68			
X5P	11/8/2010	2150	1918	11.41				7.92	7.84	0.08			
X5P	12/1/2010	2130	2204	3.41				7.95	7.45	0.5			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

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Table C-55: Rose Creek Drainage Water Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
X7	6/1/2010	8550	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			5.4	5.59	0.19			
X7	10/6/2010	8490	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			5.18	5.42	0.24			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Table C-56: Rose Creek Drainage Groundwater Quality
2010 QA/QC Field Blanks - General Parameters

Station	Date	Sample Type	Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Cl-d	CO3	Colour	COND	DOC	HCO3	NH3	OH	pH	SO4-d	TDS	TOC	TSS	TURB
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	NTU
P03-06-3	6/14/2010	FIELD BLANK	<0.5	4	<0.5	<0.5		<0.5		<0.5		6.0		0.60		<0.5	5.10	<0.5			<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			1	8.4	1	1	0	1	0	1	0	6	0	1.2	0	1	0.85	1	0	0	0.25	0
Comments				Blank concentration > PQL and correctly entered into emLine.								Blank concentration > PQL and correctly entered into emLine.										
Action				Let Value Stand								Let Value Stand										
Result				High blank value remains.								High blank value remains.										
SRK08-SP7B	7/25/2010	FIELD BLANK	<0.5	1	1.10	<0.5		1	<0.5	<0.5		<1		1.40		<0.5	5.67	<0.5			<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			1	2	2.2	1	0	1.8	1	1	0	1	0	2.8	0	1	0.28	1	0	0	0.25	0
Comments																						
Action																						
Result																						
X26	9/1/2010	FIELD BLANK	<0.5	<0.5	1.00	<0.5		1	<0.5	<0.5		4.0		1.30		<0.5	5.42	<0.5			<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			1	1	2	1	0	1.8	1	1	0	4	0	2.6	0	1	0.53	1	0	0	0.25	0
Comments																						
Action																						
Result																						
P01-01A	9/8/2010	FIELD BLANK	<0.5	1	1.50	<0.5		1	<0.5	<0.5		2.0		1.80		<0.5	6.07	<0.5			<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			1	2.2	3	1	0	2.4	1	1	0	2	0	3.6	0	1	0.12	1	0	0	0.25	0
Comments																						
Action																						
Result																						
X16B	9/8/2010	FIELD BLANK	<0.5	1	<0.5	<0.5		1	<0.5	<0.5		2.0		<0.5		<0.5	5.72	<0.5			<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			1	1.6	1	1	0	2.2	1	1	0	2	0	1	0	1	0.23	1	0	0	0.25	0
Comments																						
Action																						
Result																						
X24-96D	9/9/2010	FIELD BLANK	<0.5	1	1.50	<0.5		<0.5	<0.5	<0.5		2.0		1.80		<0.5	5.97	<0.5			<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			1	2.4	3	1	0	1	1	1	0	2	0	3.6	0	1	0.02	1	0	0	0.25	0
Comments																						
Action																						
Result																						
SRK08-SP7A	11/2/2010	FIELD BLANK	<0.5	<0.5	0.90	<0.5		<0.5	<0.5	<0.5		2.0		1.00		<0.5	5.65	<0.5			<1	
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			1	1	1.8	1	0	1	1	1	0	2	0	2	0	1	0.30	1	0	0	0.25	0
Comments																						
Action																						
Result																						

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit, or >1 pH unit difference from DI Water)

Table C-57: Rose Creek Drainage Groundwater Quality
2010 QA/QC Field Blanks - Dissolved Metals

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L
P03-06-3	6/14/2010	FIELD BLANK	<0.02	<3	<0.1	2.000	<50	<0.1	<1	<0.05	<0.01	<0.5	<1	<0.2	31.00	<0.05	<0.005	<0.05	3.000	<1
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			4	15	5	100	1	10	200	1	2	100	10	4	31	1	0.01	1	60	20
Comments				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration > PQL and correctly entered into emLine.				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
Action				Let Value Stand	Let Value Stand	Let Value Stand		Let Value Stand	Let Value Stand			Let Value Stand	Let Value Stand		Request Retest				Let Value Stand	Let Value Stand
Result						High blank value remains.									Retest performed, see results below.				High blank value remains.	
P03-06-3 Retest	6/14/2010	FIELD BLANK													152.00					
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	152	0	0	0	0	0
Comments															Retest for June 14 P03-06-3 blank. Blank concentration > PQL and correctly entered into emLine.					
Action															Let Value Stand					
Result															New blank value entered into emLine.					
SRK08-SP7B	7/25/2010	FIELD BLANK	<0.02	4.00	<0.1	<1	<50	<0.1	<1	0.10	0.05	<0.5	<1	<0.2	9.00	<0.05	<0.005	0.16	12.000	<1
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			4	20	5	50	1	10	200	2	10	100	10	4	9	1	0.01	3.2	240	20
Comments				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration equal to PQL (detection limit for field blank higher than that used for DI water) and correctly entered into emLine.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration > PQL and correctly entered into emLine.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
Action				Let Value Stand	Let Value Stand	Let Value Stand		Let Value Stand	Let Value Stand		Let Value Stand	Let Value Stand	Let Value Stand		Let Value Stand				Request Retest	Let Value Stand
Result				High blank value remains.							Blank value remains.				Blank value remains.				Retest performed, see results below.	
SRK08-SP7B Retest	7/25/2010	FIELD BLANK																	<1	
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0
Comments																			Retest for July 25 SRK08-SP7B blank. Blank value correctly entered into emLine. However concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	
Action																			Let Value Stand	
Result																			New blank value entered into emLine.	
X26	9/1/2010	FIELD BLANK	<0.02	<3	<0.1	<1	<50	<0.1	<1	0.14	<0.01	<0.5	<1	0.5000	22.00	<0.05	<0.005	0.12	6.000	<1
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			4	15	5	50	1	10	200	2.8	2	100	10	10	22	1	0.01	2.4	120	20
Comments				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank value correctly entered into emLine. However, blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank value correctly entered into emLine. However, blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.				Blank concentration > PQL and correctly entered into emLine.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
Action				Let Value Stand	Let Value Stand	Let Value Stand		Let Value Stand	Let Value Stand			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand				Request Retest	Let Value Stand
Result														Blank value remains.	Blank value remains.				Retest performed, see results below.	

Blank value < PQL
Blank value is a detection limit higher than that of DI water
Blank value > PQL and < retest limit
Blank value > retest limit (20X DI Water Detection Limit)

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Table C-57: Rose Creek Drainage Groundwater Quality
2010 QA/QC Field Blanks - Dissolved Metals

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L
X26 Retest	9/1/2010	FIELD BLANK																	4.000	
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0
Comments																			Retest for September 1 X26 field blank. Blank value correctly entered into emLine. However concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	
Action																			Let Value Stand	
Result																			New blank value entered into emLine.	
P01-01A	9/8/2010	FIELD BLANK	<0.005	2.00	<0.02	0.810	<50	<0.01	<0.005	0.35	<0.005	0.0160	<0.1	0.1600	4.00	0.17	<0.0005	0.07	2.430	<0.05
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			1	10	1	40.5	1	1	1	7	1	3.2	1	3.2	4	3.4	0.001	1.4	48.6	1
Comments				Blank concentration > PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.									Blank concentration > PQL and correctly entered into emLine.	
Action				Let Value Stand		Request Retest				Let Value Stand									Request Retest	
Result				High blank value remains.		Retest performed, see results below.				High blank value remains.									Retest performed, see results below.	
P01-01A Retest	9/8/2010	FIELD BLANK				0.810													2.250	
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			0	0	0	40.5	0	0	0	0	0	0	0	0	0	0	0	0	45	0
Comments						Retest for September 8 P01-01A blank. Blank concentration > PQL and correctly entered into emLine.													Retest for September 8 P01-01A blank. Blank concentration > PQL and correctly entered into emLine.	
Action						Let Value Stand													Let Value Stand	
Result						New blank value entered into emLine.													New blank value entered into emLine.	
X16B	9/8/2010	FIELD BLANK	<0.005	1.40	<0.02	0.330	<50	<0.01	<0.005	0.32	<0.005	0.0060	<0.1	0.1400	2.00	0.09	<0.0005	0.06	1.760	<0.05
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			1	7	1	16.5	1	1	1	6.4	1	1.2	1	2.8	2	1.8	0.001	1.2	35.2	1
Comments				Blank concentration > PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine.				Blank concentration > PQL and correctly entered into emLine.									Blank concentration > PQL and correctly entered into emLine.	
Action				Let Value Stand		Let Value Stand				Let Value Stand									Request Retest	
Result				High blank value remains.		High blank value remains.				High blank value remains.									Retest performed, see results below.	
X16B Retest	9/8/2010	FIELD BLANK																	1.610	
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.2	0
Comments																			Retest for September 8 X16B blank. Blank concentration > PQL and correctly entered into emLine.	
Action																			Let Value Stand	
Result																			New blank value entered into emLine.	
X24-96D	9/9/2010	FIELD BLANK	<0.02	<3	<0.1	<1	<50	<0.1	<1	0.14	<0.01	<0.5	<1	<0.2	<5	0.22	<0.005	<0.05	<1	<1
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			4	15	5	50	1	10	200	2.8	2	100	10	4	5	4.4	0.01	1	20	20
Comments				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
Action				Let Value Stand	Let Value Stand	Let Value Stand		Let Value Stand	Let Value Stand			Let Value Stand	Let Value Stand		Let Value Stand				Let Value Stand	Let Value Stand
Result																				
X24-96D Retest	9/9/2010	FIELD BLANK																		
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Comments																				
Action																				
Result																				

Blank value < PQL
Blank value is a detection limit higher than that of DI water
Blank value > PQL and < retest limit
Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-57: Rose Creek Drainage Groundwater Quality
2010 QA/QC Field Blanks - Dissolved Metals

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L
SRK08-SP7A	11/2/2010	FIELD BLANK	<0.02	<3	<0.1	<1	<50	<0.1	<1	0.07	<0.01	<0.5	<1	<0.2	18.00	<0.05	<0.005	<0.05	3.000	<1
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05
Times greater than DI water			4	15	5	50	1	10	200	1.4	2	100	10	4	18	1	0.01	1	60	20
Comments				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.		Blank value correctly entered into emLine. However concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.				Blank value correctly entered into emLine. However concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
Action				Let Value Stand	Let Value Stand	Let Value Stand		Let Value Stand	Let Value Stand			Let Value Stand	Let Value Stand		Let Value Stand				Let Value Stand	Let Value Stand
Result															High blank value remains.				High blank value remains.	

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit)

Table C-57: Rose Creek Drainage Groundwater Quality
2010 QA/QC Field Blanks - Dissolved Metals

Denison Environmental Services

			Na-d	Ni-d	Pb-d	Sb-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
Station	Date	Sample Type	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
P03-06-3	6/14/2010	FIELD BLANK	<0.05	<1	2.4000	<0.5	<0.1	<100	<5	<1	<5	<0.05	<0.1	<5	<5	<0.5
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1	50	480	25	2.5	1	500	20	10	25	50	25	50	5
Comments				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration > PQL and correctly entered into emLine.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
Action				Let Value Stand	Request Retest	Let Value Stand			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand
Result					Retest performed, see results below.											
P03-06-3 Retest	6/14/2010	FIELD BLANK			12.6000											
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			0	0	2520	0	0	0	0	0	0	0	0	0	0	0
Comments					Retest for June 14 P03-06-3 blank. Blank concentration > PQL and correctly entered into emLine.											
Action					Let Value Stand											
Result					New blank value entered into emLine.											
SRK08-SP7B	7/25/2010	FIELD BLANK	<0.05	<1	0.4000	<0.5	<0.1	<100	<5	<1	<5	<0.05	<0.1	<5	68.000	<0.5
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1	50	80	25	2.5	1	500	20	10	25	50	25	680	5
Comments				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank value correctly entered into emLine. However concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration > PQL and correctly entered into emLine.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
Action				Let Value Stand	Let Value Stand	Let Value Stand			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Request Retest	Let Value Stand
Result					High blank value remains.											
SRK08-SP7B Retest	7/25/2010	FIELD BLANK													<5	
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	50	0
Comments															Retest for July 25 SRK08-SP7B blank. Blank value correctly entered into emLine. However concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	
Action															Let Value Stand	
Result															New blank value entered into emLine.	
X26	9/1/2010	FIELD BLANK	<0.05	<1	0.3000	<0.5	<0.1	<100	<5	<1	<5	<0.05	<0.1	<5	27.000	<0.5
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1	50	60	25	2.5	1	500	20	10	25	50	25	270	5
Comments				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank value correctly entered into emLine. However, blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration > PQL and correctly entered into emLine.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
Action				Let Value Stand	Let Value Stand	Let Value Stand			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Request Retest	Let Value Stand
Result					Blank value remains.										Retest performed, see results below.	

Blank value < PQL
Blank value is a detection limit higher than that of DI water
Blank value > PQL and < retest limit
Blank value > retest limit (20X DI Water Detection Limit)

Table C-57: Rose Creek Drainage Groundwater Quality
2010 QA/QC Field Blanks - Dissolved Metals

			Na-d	Ni-d	Pb-d	Sb-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
Station	Date	Sample Type	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X26 Retest	9/1/2010	FIELD BLANK													17.000	
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			0	0	0	0	0	0	0	0	0	0	0	0	170	0
Comments															Retest for September 1 X26 field blank. Blank value correctly entered into emLine. However concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	
Action															Let Value Stand	
Result															New blank value entered into emLine.	
P01-01A	9/8/2010	FIELD BLANK	0.08	0.070	0.5150	<0.02	<0.04	<100	<0.01	0.92	<0.5	<0.002	0.0350	<0.2	2.400	<0.1
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1.6	3.5	103	1	1	1	1	18.4	1	1	17.5	1	24	1
Comments					Blank concentration > PQL and correctly entered into emLine.					Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine.	
Action					Request Retest					Let Value Stand			Let Value Stand		Request Retest	
Result					Retest performed, see results below.					High blank value remains.			High blank value remains.		Retest performed, see results below.	
P01-01A Retest	9/8/2010	FIELD BLANK			0.5720										2.400	
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			0	0	114.4	0	0	0	0	0	0	0	0	0	24	0
Comments					Retest for September 8 P01-01A blank. Blank concentration > PQL and correctly entered into emLine.										Retest for September 8 P01-01A blank. Blank concentration > PQL and correctly entered into emLine.	
Action					Let Value Stand										Let Value Stand	
Result					New blank value entered into emLine.										New blank value entered into emLine.	
X16B	9/8/2010	FIELD BLANK	0.09	0.040	0.3280	<0.02	<0.04	<100	<0.01	0.82	<0.5	<0.002	0.0190	<0.2	5.400	<0.1
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1.8	2	65.6	1	1	1	1	16.4	1	1	9.5	1	54	1
Comments					Blank concentration > PQL and correctly entered into emLine.					Blank concentration > PQL and correctly entered into emLine.			Blank concentration > PQL and correctly entered into emLine.		Blank concentration > PQL and correctly entered into emLine.	
Action					Request Retest					Let Value Stand			Let Value Stand		Request Retest	
Result					Retest performed, see results below.					High blank value remains.			High blank value remains.		Retest performed, see results below.	
X16B Retest	9/8/2010	FIELD BLANK			0.3340										5.400	
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			0	0	66.8	0	0	0	0	0	0	0	0	0	54	0
Comments					Retest for September 8 X16B blank. Blank concentration > PQL and correctly entered into emLine.										Retest for September 8 X16B blank. Blank concentration > PQL and correctly entered into emLine.	
Action					Let Value Stand										Let Value Stand	
Result					New blank value entered into emLine.										New blank value entered into emLine.	
X24-96D	9/9/2010	FIELD BLANK	1.26	<1	<0.2	<0.5	<0.1	<100	<5	<1	<5	<0.05	<0.1	<5	<5	<0.5
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			25.2	50	40	25	2.5	1	500	20	10	25	50	25	50	5
Comments			Blank concentration > PQL and correctly entered into emLine.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
Action			Request Retest	Let Value Stand	Let Value Stand	Let Value Stand			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand
Result			Retest performed, see results below.													
X24-96D Retest	9/9/2010	FIELD BLANK	1.31													
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			26.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Comments			Retest for September X24-96D blank. Blank concentration > PQL and correctly entered into emLine.													
Action			Let Value Stand													
Result			New blank value entered into emLine.													

Legend	
(no shading)	Blank value < PQL
(grey)	Blank value is a detection limit higher than that of DI water
(yellow)	Blank value > PQL and < retest limit
(red)	Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-57: Rose Creek Drainage Groundwater Quality
2010 QA/QC Field Blanks - Dissolved Metals

Station	Date	Sample Type	Na-d	Ni-d	Pb-d	Sb-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SRK08-SP7A	11/2/2010	FIELD BLANK	<0.05	<1	<0.2	<0.5	<0.1	<100	<5	<1	<5	<0.05	<0.1	<5	9.000	<0.5
Deionized Water			<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1	50	40	25	2.5	1	500	20	10	25	50	25	90	5
Comments				Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.			Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank value correctly entered into emLine. However concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.	Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.
Action				Let Value Stand	Let Value Stand	Let Value Stand			Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand	Let Value Stand
Result															High blank value remains.	

Blank value < PQL

Blank value is a detection limit higher than that of DI water

Blank value > PQL and < retest limit

Blank value > retest limit (20X DI Water Detection Limit)

Denison Environmental Services

Table C-58: Rose Creek Drainage Groundwater Quality
2010 QA/QC Duplicates - General Parameters

Faro Mine Closure

Station	Date	Sample Type	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	OH mg/L	pH (blank)	SO4-d mg/L	TDS mg/L	TOC mg/L	TSS mg/L	TURB NTU
X26	6/13/2010	M	<0.5	288	340	<0.5		3040	4			<0.5		4190		410		<0.5	6.4	3000			21	
X26	6/13/2010	DUPLICATE	<0.5	276	350	<0.5		3020	4.2			<0.5		4200		420		<0.5	6.5	3000			34	
RPD (%)			N/A	4.26	2.90	N/A	N/A	0.66	4.88	N/A	N/A	N/A	N/A	0.24	N/A	2.41	N/A	N/A	0.10	0.00	N/A	N/A	47.27	N/A
Comments																								
Action																								
Result																								
P03-06-2	6/14/2010	M	71.2	731	<0.5	<0.5		1980	2.9			<0.5		4000		<0.5		<0.5	4.2	3200			910	
P03-06-2	6/14/2010	DUPLICATE	<0.5	2140	<0.5	<0.5		1650	4.5			<0.5		4500		<0.5		<0.5	4.4	3900			2300	
RPD (%)			N/A	98.15	N/A	N/A	N/A	18.18	43.24	N/A	N/A	N/A	N/A	11.76	N/A	N/A	N/A	N/A	0.20	19.72	N/A	N/A	86.60	N/A
Comments				Both values > PQL and correctly entered into emLine.																			Both values > PQL and correctly entered into emLine.	
Action				**Request Retest**																			**Let Value Stand**	
Result				Retest performed, see results below.																			Discrepancy between values remains. Retest not carried out because remainder of samples had been discarded.	
P03-06-2 Retest	6/14/2010	M		700.00																				
P03-06-2 REtest	6/14/2010	DUPLICATE		2140.00																				
RPD (%)			N/A	101.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	N/A	N/A	N/A	N/A	N/A
Comments				Main sample retested but request for retest on duplicate sample submitted too late. Remainder of sample had been discarded.																				
Action				**Let Value Stand**																				
Result				New value entered into emLine.																				
P96-6	6/15/2010	M	<0.5	43.5	320	<0.5		724	0.7			<0.5		1170		390		<0.5	7.6	350			300	
P96-6	6/15/2010	DUPLICATE	<0.5	37.4	320	<0.5		703	0.7			<0.5		1190		390		<0.5	7.5	350			410	
RPD (%)			N/A	15.08	0.00	N/A	N/A	2.94	0.00	N/A	N/A	N/A	N/A	1.69	N/A	0.00	N/A	N/A	0.10	0.00	N/A	N/A	30.99	N/A
Comments																								
Action																								
Result																								
P09-SIS3	7/24/2010	M	<0.5	860.00	170.00	<0.5		5820.00	4.90			<0.5		7720.00		210.00		<0.5	6.65	7200.00			1600.00	
P09-SIS3	7/24/2010	DUPLICATE	<0.5	862.00	170.00	<0.5		5930.00	4.80			<0.5		7760.00		210.00		<0.5	6.60	7700.00			840.00	
RPD (%)			N/A	0.23	0.00	N/A	N/A	1.87	2.06	N/A	N/A	N/A	N/A	0.52	N/A	0.00	N/A	N/A	0.05	6.71	N/A	N/A	62.30	N/A
Comments																							Both values > PQL and correctly entered into emLine.	
Action																							**Let Value Stand**	
Result																							Discrepancy between values remains. Retest not carried out because remainder of samples had been discarded.	
P01-02A	9/8/2010	M	<0.5	14.80	260.00	<0.5		423.00	<0.5			<0.5		794.00		310.00		<0.5	7.95	180.00			24.00	
P01-02A	9/8/2010	DUPLICATE	<0.5	8.10	260.00	<0.5		418.00	<0.5			<0.5		803.00		310.00		<0.5	7.81	160.00			39.00	
RPD (%)			N/A	58.52	0.00	N/A	N/A	1.19	N/A	N/A	N/A	N/A	N/A	1.13	N/A	0.00	N/A	N/A	0.14	11.76	N/A	N/A	47.62	N/A
Comments				Both values > PQL and correctly entered into emLine.																				
Action				**Request Retest**																				
Result				Retest performed, see results below.																				

RPD > 50%

Table C-58: Rose Creek Drainage Groundwater Quality
2010 QA/QC Duplicates - General Parameters

Station	Date	Sample Type	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	OH mg/L	pH (blank)	SO4-d mg/L	TDS mg/L	TOC mg/L	TSS mg/L	TURB NTU
P01-02A Retest	9/8/2010	M		3.20																				
P01-02A Retest	9/8/2010	DUPLICATE		3.40																				
RPD (%)			N/A	6.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	N/A	N/A	N/A	N/A	N/A
Comments				Retest for September 8 P01-02A sample and duplicate. Both values > PQL and correctly entered into emLine.																				
Action				**Let Value Stand**																				
Result				New values entered into emLine.																				
P03-04-6	9/20/2010	M	<0.5	2900.00	85.00	<0.5		1760.00	0.60			<0.5		5440.00		100.00		<0.5	6.22	5200.00			130.00	
P03-04-6	9/20/2010	DUPLICATE	<0.5	2850.00	31.00	<0.5		1730.00	0.90			<0.5		5370.00		38.00		<0.5	5.89	5100.00			110.00	
RPD (%)			N/A	1.74	93.10	N/A	N/A	1.72	40.00	N/A	N/A	N/A	N/A	1.30	N/A	89.86	N/A	N/A	0.33	1.94	N/A	N/A	16.67	N/A
Comments					Both values > PQL and correctly entered into emLine.											Both values > PQL and correctly entered into emLine.								
Action					**Request Retest**											**Request Retest**								
Result					Retest performed, see results below.											Retest performed, see results below.								
P03-04-6 Retest	9/20/2010	M			<0.5											<0.5								
P03-04-6 Retest	9/20/2010	DUPLICATE			<0.5											<0.5								
RPD (%)			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	N/A	N/A	N/A	N/A	N/A
Comments					Retest for September 20 P03-04-6 sample and duplicate. Both values > PQL and correctly entered into emLine.											Retest for September 20 P03-04-6 sample and duplicate. Both values > PQL and correctly entered into emLine.								
Action					**Let Value Stand**											**Let Value Stand**								
Result					New values entered into emLine.											New values entered into emLine.								
P09-SIS2	11/2/2010	M	<0.5	917.00	190.00	<0.5		7270.00	6.40			<0.5		9340.00		230.00		<0.5	6.93	8800.00			1500.00	
P09-SIS2	11/2/2010	DUPLICATE	<0.5	936.00	190.00	<0.5		7280.00	6.20			<0.5		9300.00		240.00		<0.5	6.92	9500.00			1300.00	
RPD (%)			N/A	2.05	0.00	N/A	N/A	0.14	3.17	N/A	N/A	N/A	N/A	0.43	N/A	4.26	N/A	N/A	0.01	7.65	N/A	N/A	14.29	N/A
Comments																								
Action																								
Result																								

RPD > 50%

Denison Environmental Services

Table C-59: Rose Creek Drainage Groundwater Quality
2010 QA/QC Duplicates - Dissolved Metals

Station	Date	Sample Type	Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	Hg-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	S-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X26	6/13/2010	M	0.08	13	3.4	7	<100	0.3	<2	563	27	504	<2	0.9	85700		16.2	0.274	397	14600	<2	63.9	1380	59	<1	1030	<0.2	7050	<10	3410	<10	1.5	14.8	<10	92900	<1
X26	6/13/2010	DUPLICATE	0.05	7	3.4	7	<50	0.3	<1	551	25.8	516	<1	1.1	84000		17.1	0.267	399	14600	<1	64.7	1360	55.8	0.9	1040	<0.1	6740	<5	3420	<5	1.57	14.8	<5	85500	<0.5
RPD (%)			46.15	60.00	0.00	0.00	N/A	0.00	N/A	2.15	4.55	2.35	N/A	20.00	2.00	N/A	5.41	2.59	0.50	0.00	N/A	1.24	1.46	5.57	N/A	0.97	N/A	4.50	N/A	0.29	N/A	4.56	0.00	N/A	8.30	N/A
Comments				Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.																																	
Action				Let Value Stand																																	
Result				Discrepancy between values remains.																																	
P03-06-2	6/14/2010	M	<0.04	128	0.4	14	<100	0.3	<2	529	20.2	863	<2	0.7	444000		5.7	0.049	161	105000	3	33.2	1000	2.8	<1	1090	<0.2	19700	<10	1760	<10	<0.1	1.6	<10	8010	<1
P03-06-2	6/14/2010	DUPLICATE	<0.08	451	<0.4	11	<200	1	<4	412	47.6	838	<4	<0.8	986000		6.5	0.079	152	87800	<4	19.7	861	1.7	<2	1270	<0.4	21600	<20	1520	<20	<0.2	2.3	<20	13900	<2
RPD (%)			N/A	111.57	N/A	24.00	N/A	107.69	N/A	24.87	80.83	2.94	N/A	N/A	75.80	N/A	13.11	46.88	5.75	17.84	N/A	51.04	14.94	48.89	N/A	15.25	N/A	9.20	N/A	14.63	N/A	N/A	35.90	N/A	53.77	N/A
Comments				Both values > PQL and correctly entered into emLine.				Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.			Both values > PQL and correctly entered into emLine.				Both values > PQL and correctly entered into emLine.							Both values > PQL and correctly entered into emLine.													Both values > PQL and correctly entered into emLine.	
Action				Request Retest				Let Value Stand			Let Value Stand				Let Value Stand							Let Value Stand													Let Value Stand	
Result				Retest performed, see results below.				Discrepancy between values remains.			Discrepancy between values remains.				Discrepancy between values remains.							Discrepancy between values remains.													Discrepancy between values remains.	
P03-06-2 Retest	6/14/2010	M		201.00																															
P03-06-2 Retest	6/14/2010	DUPLICATE		483.00																															
RPD (%)			N/A	82.46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments				Retest for June 14 P03-06-2 sample and duplicate. Both values > PQL and correctly entered into emLine.																																	
Action				Let Value Stand																																	
Result				New values entered into emLine.																																	
P96-6	6/15/2010	M	<0.005	2.6	0.11	18.7	<50	0.07	<0.005	188	0.219	0.023	<0.1	0.65	7		4.55	0.0374	61.5	2.24	<0.05	7.62	13.9	0.132	<0.02	153	2.89	10600	<0.01	619	<0.5	0.003	26.1	<0.2	419	<0.1
P96-6	6/15/2010	DUPLICATE	<0.005	2.8	0.09	18.2	<50	0.07	<0.005	185	0.228	0.017	<0.1	0.6	8		4.42	0.0364	58.9	2.04	<0.05	7.26	13	0.204	<0.02	147	2.84	10100	<0.01	610	<0.5	0.003	25.5	<0.2	400	<0.1
RPD (%)			N/A	7.41	20.00	2.71	N/A	0.00	N/A	1.61	4.03	30.00	N/A	8.00	13.33	N/A	2.90	2.71	4.32	9.35	N/A	4.84	6.69	42.86	N/A	4.00	1.75	4.83	N/A	1.46	N/A	0.00	2.33	N/A	4.64	N/A
Comments																																			
Action																																			
Result																																			
P09-SIS3	7/24/2010	M	0.40	205.00	2.00	24.00	<500	<1	<10	341.00	141.00	305.00	<10	17.00	266.00		15.00	0.20	1210.00	101000.00	<10	41.40	2900.00	<2	<5	2350.00	<1	12100.00	<50	1980.0	<50	<0.5	3.00	<50	493000.00	<5
P09-SIS3	7/24/2010	DUPLICATE	0.40	348.00	<1	24.00	<500	<1	<10	384.00	139.00	292.00	<10	18.00	480.00		15.10	0.20	1210.00	99100.00	<10	41.60	2920.00	3.00	<5	2370.00	<1	13700.00	<50	1930.0	<50	<0.5	3.00	<50	494000.00	<5
RPD (%)			0.00	51.72	N/A	0.00	N/A	N/A	N/A	11.86	1.43	4.36	N/A	5.71	57.37	N/A	0.66	1.50	0.00	1.90	N/A	0.48	0.69	N/A	N/A	0.85	N/A	12.40	N/A	2.56	N/A	N/A	0.00	N/A	0.20	N/A
Comments				Both values > PQL and correctly entered into emLine.											Both values > PQL and correctly entered into emLine.																					
Action				Let Value Stand											Let Value Stand																					
Result				Discrepancy between values remains.											Discrepancy between values remains.																					
P01-02A	9/8/2010	M	<0.005	1.80	0.60	67.20	<50	<0.01	<0.005	117.00	0.09	0.70	<0.1	0.46	22.00		3.12	0.01	31.50	1300.00	1.48	9.07	2.56	0.10	0.04	61.00	<0.04	4950.00	<0.01	345.0	<0.5	0.012	2.96	<0.2	5.10	<0.1
P01-02A	9/8/2010	DUPLICATE	<0.005	1.90	0.64	68.70	<50	<0.01	<0.005	118.00	0.10	0.70	<0.1	0.44	23.00		3.13	0.01	30.10	1340.00	1.55	8.86	2.53	0.09	0.04	65.00	<0.04	4990.00	<0.01	347.0	<0.5	0.012	2.97	<0.2	4.80	<0.1
RPD (%)			N/A	5.41	6.45	2.21	N/A	N/A	N/A	0.85	8.42	0.00	N/A	4.44	4.44	N/A	0.32	1.36	4.55	3.03	4.62	2.34	1.18	5.41	0.00	6.35	N/A	0.80	N/A	0.58	N/A	0.00	0.34	N/A	6.06	N/A
Comments																																			
Action																																			
Result																																			
P03-04-6	9/20/2010	M	<0.2	<30.0	15.00	<10.0	<500.0	<1.0	<10.0	500.00	<0.1	53.00	12.00	<2.0	1650000.00		10.60	<0.05	124.00	14900.00	<10.0	87.60	133.00	<2.0	<5.0	1630.00	<1.0	12000.00	<50.0	3060.0	<50.0	<0.5	3.00	<50.0	1970.00	<5.0
P03-04-6	9/20/2010	DUPLICATE	<0.2	<30.0	16.00	<10.0	<500.0	<1.0	<10.0	491.00	<0.1	52.00	<10.0	<2.0	1620000.00		10.40	<0.05	123.00	14700.00	<10.0	89.40	122.00	<2.0	<5.0	1600.00	<1.0	11700.00	<50.0	3070.0	<50.0	<0.5	3.00	<50.0	1840.00	<5.0
RPD (%)			N/A	N/A	6.45	N/A	N/A	N/A	N/A	1.82	N/A	1.90	N/A	N/A	1.83	N/A	1.90	N/A	0.81	1.35	N/A	2.03	8.63	N/A	N/A	1.86	N/A	2.53	N/A	0.33	N/A	N/A	0.00	N/A	6.82	N/A
Comments																																			
Action																																			
Result																																			
P09-SIS2	11/2/2010	M	0.60	<60	<2	28.00	<1000	<2	<20	459.00	249.00	1180.00	<20	7.00	1130.00		15.00	0.18	1490.00	149000.00	<20	44.00	3560.00	<4	<10	3190.00	<2	12900.00	<100	2110.0	<100	<1	6.00	<100	667000.00	<10
P09-SIS2	11/2/2010	DUPLICATE	0.50	<60	<2	21.00	<1000	<2	<20	441.00	244.00	1170.00	<20	5.00	1030.00		15.00	0.18	1500.00	150000.00	<20	44.00	3570.00	<4	<10	2980.00	<2	12300.00	<100	2070.0	<100	<1	6.00	<100	666000.00	<10
RPD (%)			18.18	N/A	N/A	28.57	N/A	N/A	N/A	4.00	2.03	0.85	N/A	33.33	9.26	N/A	0.00	2.75	0.67	0.67	N/A	0.00	0.28	N/A	N/A	6.81	N/A	4.76	N/A	1.91	N/A	N/A	0.00	N/A	0.15	N/A
Comments																																			
Action																																			
Result																																			

RPD > 50%

RPD > 100%

Table C-60: Rose Creek Drainage Groundwater Quality
2010 QA/QC Splits - General Parameters

Station	Date	Sample Type	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	OH mg/L	pH (blank)	SO4-d mg/L	TDS mg/L	TOC mg/L	TSS mg/L	TURB NTU
X17A	9/8/2010	M	<0.5	6.60	230.00	<0.5		280.00	<0.5			<0.5		517.0000		280.00		<0.5	7.80	39.000			32.000	
X17A	9/8/2010	SPLIT	<0.5	5.50	230.00	<0.5		263.00	<0.5			<0.5		519.0000		280.00		<0.5	7.81	36.000			35.000	
RPD (%)			N/A	18.18	0.00	N/A	N/A	6.26	N/A	N/A	N/A	N/A	N/A	0.39	N/A	0.00	N/A	N/A	0.01	8.00	N/A	N/A	8.96	N/A
Comments																								
Action																								
Result																								
X18B	9/8/2010	M	<0.5	17.90	250.00	<0.5		1000.00	1.00			<0.5		1650.00		300.00		<0.5	7.45	710.00			<1	
X18B	9/8/2010	SPLIT	<0.5	17.70	250.00	<0.5		980.00	1.00			<0.5		1630.00		300.00		<0.5	7.50	690.00			<1	
RPD (%)			N/A	1.12	0.00	N/A	N/A	2.02	0.00	N/A	N/A	N/A	N/A	1.22	N/A	0.00	N/A	N/A	0.05	2.86	N/A	N/A	N/A	N/A
Comments																								
Action																								
Result																								
P01-11	9/8/2010	M	<0.5	52.60	350.00	<0.5		1750.00	2.70			<0.5		2880.00		430.00		<0.5	7.24	1500.00			190.00	
P01-11	9/8/2010	SPLIT	<0.5	55.80	350.00	<0.5		1760.00	2.60			<0.5		2900.00		430.00		<0.5	7.15	1500.00			200.00	
RPD (%)			N/A	5.90	0.00	N/A	N/A	0.57	3.77	N/A	N/A	N/A	N/A	0.69	N/A	0.00	N/A	N/A	0.09	0.00	N/A	N/A	5.13	N/A
Comments																								
Action																								
Result																								
BH6	9/16/2010	M	<0.5	31.40	110.00	<0.5		181.00	<0.5			<0.5		413.00		140.00		<0.5	7.15	95.00			290.00	
BH6	9/16/2010	SPLIT	<0.5	30.00	110.00	<0.5		185.00	<0.5			<0.5		413.00		140.00		<0.5	7.16	94.00			220.00	
RPD (%)			N/A	4.56	0.00	N/A	N/A	2.19	N/A	N/A	N/A	N/A	N/A	0.00	N/A	0.00	N/A	N/A	0.01	1.06	N/A	N/A	27.45	N/A
Comments																								
Action																								
Result																								
P03-08-2	9/20/2010		<0.5	22.80	250.00	<0.5		347.00	<0.5			<0.5		678.00		300.00		<0.5	7.70	110.00			8.00	
P03-08-2	9/20/2010		<0.5	31.70	250.00	<0.5		338.00	<0.5			<0.5		669.00		300.00		<0.5	7.72	130.00			11.00	
RPD (%)			N/A	32.66	0.00	N/A	N/A	2.63	N/A	N/A	N/A	N/A	N/A	1.34	N/A	0.00	N/A	N/A	0.02	16.67	N/A	N/A	31.58	N/A
Comments																								
Action																								
Result																								
P03-01-2	9/21/2010	M	<0.5	3.30	210.00	3.40		214.00	<0.5			4.10		409.00		240.00		<0.5	8.36	22.00			2.00	
P03-01-2	9/21/2010	SPLIT	<0.5	24.80	210.00	<0.5		207.00	<0.5			<0.5		423.00		260.00		<0.5	8.08	23.00			2.00	
RPD (%)			N/A	153.02	0.00	N/A	N/A	3.33	N/A	N/A	N/A	N/A	N/A	3.37	N/A	8.00	N/A	N/A	0.28	4.44	N/A	N/A	0.00	N/A
Comments				Both values > PQL and correctly entered into emLine.																				
Action				**Request Retest**																				
Result				Retest performed, see results below.																				

RPD > 50%

Table C-60: Rose Creek Drainage Groundwater Quality
2010 QA/QC Splits - General Parameters

Station	Date	Sample Type	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN(wad) mg/L	CNTHIO mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	DOC mg/L	HCO3 mg/L	NH3 mg/L	OH mg/L	pH (blank)	SO4-d mg/L	TDS mg/L	TOC mg/L	TSS mg/L	TURB NTU
P03-01-2 Retest	9/21/2010	M		1.50																				
P03-01-2 Retest	9/21/2010	SPLIT		1.70																				
RPD (%)			N/A	12.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00	N/A	N/A	N/A	N/A	N/A
Comments				Retest for September 21 P03-01-2 sample and split. Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.																				
Action				**Let Value Stand**																				
Result				New values entered into emLine.																				
P03-05-2	9/22/2010	M	<0.5	90.80	90.00	<0.5		758.00	3.50			<0.5		1480.00		110.00		<0.5	6.89	860.00			11.00	
P03-05-2	9/22/2010	SPLIT	<0.5	96.90	89.00	<0.5		771.00	3.10			<0.5		1480.00		110.00		<0.5	6.92	800.00			13.00	
RPD (%)			N/A	6.50	1.12	N/A	N/A	1.70	12.12	N/A	N/A	N/A	N/A	0.00	N/A	0.00	N/A	N/A	0.03	7.23	N/A	N/A	16.67	N/A
Comments																								
Action																								
Result																								
SRK08-SPW2	12/1/2010	M	<0.5	279.00	210.00	<0.5		2760.00	3.00			<0.5		4130.00		250.00		<0.5	6.91	3000.00			2.00	
SRK08-SPW2	12/1/2010	SPLIT	<0.5	279.00	210.00	<0.5		2730.00	3.00			<0.5		4130.00		250.00		<0.5	6.87	3200.00			<1	
RPD (%)			N/A	0.00	0.00	N/A	N/A	1.09	0.00	N/A	N/A	N/A	N/A	0.00	N/A	0.00	N/A	N/A	0.04	6.45	N/A	N/A	N/A	N/A
Comments																								
Action																								
Result																								

RPD > 50%

Denison Environmental Services

Table C-61: Rose Creek Drainage Groundwater Quality
2010 QA/QC Splits - Dissolved Metals

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
X17A	9/8/2010	M	<0.005	3.30	0.45	156.000	<50	<0.01	<0.005	75.80	0.04	0.0470	<0.1	0.2400	14.00		1.51	0.004	22.00	24.300	1.15	3.29	0.520	0.4610	0.06	16	0.8700	4930.00	0.12	210.00	<0.5	<0.002	2.4400	<0.2	8.100	<0.1
X17A	9/8/2010	SPLIT	<0.005	3.80	0.47	153.000	<50	<0.01	<0.005	71.40	0.04	0.0930	<0.1	0.5600	15.00		2.10	0.004	20.70	33.200	1.15	3.22	0.620	0.9550	0.09	16	0.9200	4650.00	0.32	215.00	<0.5	0.01	2.5000	<0.2	18.800	0.20
RPD (%)			N/A	14.08	4.35	1.94	N/A	N/A	N/A	5.98	7.79	65.71	N/A	80.00	6.90	N/A	32.69	7.41	6.09	30.96	0.00	2.15	17.54	69.77	40.00	0.00	5.59	5.85	90.91	2.35	N/A	N/A	2.43	N/A	79.55	N/A
Comments												Both values > PQL and correctly entered into emLine.		Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.										Both values > PQL and correctly entered into emLine.					Both values > PQL and correctly entered into emLine.						Both values > PQL and correctly entered into emLine.	
Action												Let Value Stand		Let Value Stand										Let Value Stand					Let Value Stand						Let Value Stand	
Result												Discrepancy between values remains.		Discrepancy between values remains.										Discrepancy between values remains.					Discrepancy between values remains.						Discrepancy between values remains.	
X18B	9/8/2010	M	<0.005	3.20	0.19	77.20	<50	<0.01	<0.005	288.00	0.32	0.61	<0.1	0.47	43.00		6.70	0.01	69.10	1280.00	0.58	21.30	13.80	0.13	0.05	287.00	0.05	6030.00	<0.01	960.0	<0.5	0.007	11.90	<0.2	7.00	<0.1
X18B	9/8/2010	SPLIT	<0.005	3.00	0.18	76.60	<50	<0.01	<0.005	281.00	0.32	0.61	<0.1	0.49	37.00		6.56	0.01	67.50	1250.00	0.57	20.50	14.00	0.15	0.05	282.00	<0.04	5790.00	<0.01	939.0	<0.5	0.007	11.60	<0.2	6.30	<0.1
RPD (%)			N/A	6.45	5.41	0.78	N/A	N/A	N/A	2.46	0.31	1.48	N/A	4.17	15.00	N/A	2.11	6.30	2.34	2.37	1.74	3.83	1.44	11.68	0.00	1.76	N/A	4.06	N/A	2.21	N/A	0.00	2.55	N/A	10.53	N/A
Comments																																				
Action																																				
Result																																				
P01-11	9/8/2010	M	<0.05	3.00	36.50	34.50	<500	<0.1	<0.05	505.00	<0.05	5.82	<1	<0.5	42400.00		8.30	0.02	120.00	26300.00	1.00	46.80	12.60	0.39	<0.2	556.00	<0.4	9270.00	<0.1	1310.0	<5	<0.02	9.44	<2	15.00	<1
P01-11	9/8/2010	SPLIT	<0.05	3.00	35.00	33.90	<500	<0.1	<0.05	518.00	<0.05	5.45	<1	<0.5	43000.00		7.50	0.02	113.00	25000.00	0.90	44.20	10.60	0.27	<0.2	516.00	<0.4	9850.00	<0.1	1290.0	<5	<0.02	10.00	<2	15.00	<1
RPD (%)			N/A	0.00	4.20	1.75	N/A	N/A	N/A	2.54	N/A	6.57	N/A	N/A	1.41	N/A	10.13	11.76	6.01	5.07	10.53	5.71	17.24	36.36	N/A	7.46	N/A	6.07	N/A	1.54	N/A	N/A	5.76	N/A	0.00	N/A
Comments																																				
Action																																				
Result																																				
BH6	9/16/2010	M	<0.005	40.60	0.10	34.40	<50	0.08	<0.005	50.50	1.32	28.60	<0.1	0.32	3950.00		1.75	0.02	13.30	1100.00	0.09	4.33	25.80	1.86	<0.02	32.00	<0.04	7620.00	0.02	258.0	<0.5	0.044	1.14	<0.2	3200.00	<0.1
BH6	9/16/2010	SPLIT	<0.005	40.20	0.09	34.30	<50	0.07	0.01	52.90	1.27	27.60	<0.1	0.27	4100.00		1.69	0.02	12.90	1080.00	0.09	4.21	25.30	1.69	<0.02	31.00	<0.04	7810.00	<0.01	265.0	0.80	0.044	1.18	<0.2	3130.00	<0.1
RPD (%)			N/A	0.99	10.53	0.29	N/A	13.33	N/A	4.64	3.86	3.56	N/A	16.95	3.73	N/A	3.49	2.09	3.05	1.83	0.00	2.81	1.96	9.58	N/A	3.17	N/A	2.46	N/A	2.68	N/A	0.00	3.45	N/A	2.21	N/A
Comments																																				
Action																																				
Result																																				
P03-08-2	9/20/2010	M	<0.02	8.00	0.30	184.00	<50	<0.1	<1	95.20	0.04	0.90	<1	1.40	15.00		1.23	<0.005	26.40	2950.00	<1	6.24	16.00	0.30	<0.5	43.00	<0.1	4250.00	<5	319.0	<5	<0.05	3.00	<5	<5	<0.5
P03-08-2	9/20/2010	SPLIT	<0.02	8.00	0.50	174.00	<50	<0.1	<1	91.10	0.04	0.90	<1	1.20	15.00		1.27	<0.005	26.80	2980.00	<1	6.25	16.00	0.30	<0.5	43.00	<0.1	4050.00	<5	302.0	<5	<0.05	2.80	<5	<5	<0.5
RPD (%)			N/A	0.00	50.00	5.59	N/A	N/A	N/A	4.40	0.00	0.00	N/A	15.38	0.00	N/A	3.20	N/A	1.50	1.01	N/A	0.16	0.00	0.00	N/A	0.00	N/A	4.82	N/A	5.48	N/A	N/A	6.90	N/A	N/A	N/A
Comments					Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.																																	
Action					Let Value Stand																																	
Result					Discrepancy between values remains.																																	
P03-01-2	9/21/2010	M	<0.02	4.00	0.80	102.00	<50	<0.1	<1	66.60	<0.01	0.90	<1	<0.2	251.00		2.67	<0.005	11.70	641.00	5.00	5.53	<1	<0.2	<0.5	8.00	<0.1	4910.00	<5	273.0	<5	<0.05	3.00	<5	<5	<0.5
P03-01-2	9/21/2010	SPLIT	<0.02	<3	0.80	107.00	<50	<0.1	<1	64.50	<0.01	0.80	<1	<0.2	265.00		2.50	<0.005	11.10	648.00	5.00	5.38	<1	<0.2	<0.5	8.00	<0.1	5000.00	<5	278.0	<5	<0.05	3.00	<5	6.00	<0.5
RPD (%)			N/A	N/A	0.00	4.78	N/A	N/A	N/A	3.20	N/A	11.76	N/A	N/A	5.43	N/A	6.58	N/A	5.26	1.09	0.00	2.75	N/A	N/A	N/A	0.00	N/A	1.82	N/A	1.81	N/A	N/A	0.00	N/A	N/A	N/A
Comments																																				
Action																																				
Result																																				
P03-05-2	9/22/2010	M	<0.03	6.00	7.10	84.00	<300	<0.05	<0.03	233.00	<0.03	211.00	<0.5	<0.3	27500.00		3.40	0.05	42.80	38200.00	0.50	12.50	226.00	0.37	<0.1	296.00	<0.2	12300.00	<0.05	688.0	<3	<0.01	2.29	<1	1510.00	<0.5
P03-05-2	9/22/2010	SPLIT	<0.03	6.00	6.70	81.10	<300	<0.05	<0.03	239.00	<0.03	208.00	<0.5	<0.3	28300.00		3.40	0.05	42.10	37600.00	0.50	12.50	226.00	0.78	<0.1	278.00	<0.2	12100.00	<0.05	690.0	<3	<0.01	2.12	<1	1470.00	<0.5
RPD (%)			N/A	0.00	5.80	3.51	N/A	N/A	N/A	2.54	N/A	1.43	N/A	N/A	2.87	N/A	0.00	0.00	1.65	1.58	0.00	0.00	0.00	71.30	N/A	6.27	N/A	1.64	N/A	0.29	N/A	N/A	7.71	N/A	2.68	N/A
Comments																								Both values > PQL and correctly entered into emLine.												
Action																								Let Value Stand												
Result																								Discrepancy between values remains.												
SRK08-SPW2	12/1/2010	M	0.13	18.00	<0.4	18.00	<200	<0.4	<4	268.00	32.10	242.00	<4	4.50	2470.00		8.60	0.11	508.00	39400.00	<4	21.50	927.00	<0.8	<2	1020.00	<0.4	11200.00	<20	1120.0	<20	<0.2	4.00	<20	153000.00	<2
SRK08-SPW2	12/1/2010	SPLIT	0.10	15.00	0.80	20.00	<200	<0.4	<4	269.00	32.30	241.00	<4	3.00	2470.00		8.40	0.11	499.00	39700.00	<4	21.20	918.00	<0.8	<2	984.00	<0.4	11100.00	<20	1120.0	<20	<0.2	4.10	<20	152000.00	<2
RPD (%)			26.09	18.18	N/A	10.53	N/A	N/A	N/A	0.37	0.62	0.41	N/A	40.00	0.00	N/A	2.35	0.00	1.79	0.76	N/A	1.41	0.98	N/A	N/A	3.59	N/A	0.90	N/A	0.00	N/A	N/A	2.47	N/A	0.66	N/A
Comments																																				
Action																																				
Result																																				

RPD > 50%
RPD > 100%

Denison Environmental Services

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
BH10A	9/16/2010	795	826.3	3.86				6.42	5.74	0.68			
BH10B	9/16/2010	1070	1010	5.77				6.31	5.53	0.78			
BH13B	9/21/2010	1290	984	26.91	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.47	8.26	0.79			
BH14A	6/11/2010	4000	3413	15.84				7.8	6.78	1.02	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
BH14A	9/21/2010	3880	2594	39.73	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.58	7.04	0.54			
BH14B	6/11/2010	4010	3508	13.35				7.6	6.81	0.79			
BH14B	9/21/2010	4020	2702	39.21	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.61	7.25	0.36			
BH5	9/16/2010	667	710.2	6.27				6.23	5.63	0.6			
BH6	9/16/2010	413	450.8	8.75				7.15	6.12	1.03	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
BH8	9/18/2010	3830	3828	0.05				4.14	4.43	0.29			
P01-01A	6/6/2010	1700	1019	50.09	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.	8.0	6.41	1.59	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.
P01-01A	9/8/2010	1960	1660	16.57				7.52	8.16	0.64			
P01-01B	6/6/2010	1230	920	28.84	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	8.1	6.38	1.72	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.
P01-01B	9/8/2010	1340	1131	16.92				7.58	7.3	0.28			
P01-02A	6/6/2010	697	817	15.85				8	7.42	0.58			
P01-02A	9/8/2010	794	830	4.43				7.95	7.37	0.58			
P01-02B	6/6/2010	512	530	3.45				8.2	7.5	0.7			
P01-02B	9/8/2010	562	610	8.19				7.9	7.53	0.37			
P01-03	6/7/2010	3620	3450	4.81				7.4	6.35	1.05	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P01-03	9/9/2010	3680	622	142.17	Lab value correctly entered into emLine, but field value incorrectly entered.	**Change Value**	Field value changed; now correctly entered into emLine (see correct result below).	6.7	6.22	0.48			
P01-03	9/9/2010	3680	3890	5.55	Lab value correctly entered into emLine, and incorrect field value emended (see above)	**Let Value Stand**	Correct value entered into emLine.	6.7	6.22	0.48			
P01-04A	6/7/2010	1050	1010	3.88				7.8	6.77	1.03	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P01-04A	9/9/2010	1140	1230	7.59				7.26	7.03	0.23			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
P01-04B	9/9/2010	2060	2200	6.57				7.29	6.88	0.41			
P01-11	6/6/2010	2760	3020	9.00				7.6	6.89	0.71			
P01-11	9/8/2010	2880	3280	12.99				7.24	6.72	0.52			
P03-01-2	9/21/2010	409	441.4	7.62				8.36	7.34	1.02	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P03-01-4	9/21/2010	167	175.7	5.08				6.92	6.93	0.01			
P03-01-6	9/21/2010	1110	1157	4.15				5.76	6.6	0.84			
P03-01-8	9/21/2010	22100	15510	35.04	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	3.46	6.11	2.65	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past sample hold time. Discrepancy between values remains.
P03-03-2	9/21/2010	2750	2595	5.80				4.17	5.36	1.19	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P03-03-4	9/21/2010	1650	1664	0.84				6.2	6.11	0.09			
P03-03-6	9/21/2010	6410	28.71	198.22	Lab value correctly entered into emLine. Field value undergoing investigation.	**Let Value Stand**	Retest request would be filed past sample hold time. Discrepancy between values remains.	4.82	6.4	1.58	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past sample hold time. Discrepancy between values remains.
P03-04-2	9/20/2010	1510	1294	15.41				7.15	6.82	0.33			
P03-04-4	9/20/2010	1300	1249	4.00				7.44	7.4	0.04			
P03-04-6	9/20/2010	5440	5926	8.55				6.22	7	0.78			
P03-04-8	9/20/2010	8100	8162	0.76				3.9	6.32	2.42	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past sample hold time. Discrepancy between values remains.
P03-05-2	9/22/2010	1480	1563	5.46				6.89	6.75	0.14			
P03-05-4	9/22/2010	1250	1258	0.64				7.26	7.02	0.24			
P03-05-6	9/22/2010	4790	4428	7.85				4.59	6.73	2.14	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past sample hold time. Discrepancy between values remains.

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
P03-06-1	6/14/2010	3850	38750	163.85	Lab value correctly entered into emLine, but field value incorrectly entered.	**Change Value**	Field value changed; now correctly entered into emLine (see below).	6.2	5.35	0.85			
P03-06-1	6/14/2010	3850	3875	0.65	Lab value correctly entered into emLine, and incorrect field value amended (see above).	**Let Value Stand**	Discrepancy between lab and field values resolved.	6.2	5.35	0.85			
P03-06-1	9/22/2010	3900	3352	15.11				6.06	6.17	0.11			
P03-06-2	6/14/2010	4000	41050	164.48	Lab value correctly entered into emLine, but field value incorrectly entered.	**Change Value**	Field value changed; now correctly entered into emLine (see below).	4.2	5.3	1.1	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P03-06-2	6/14/2010	4000	4105	2.59	Lab value correctly entered into emLine, and incorrect field value amended (see above).	**Let Value Stand**	Discrepancy between lab and field values resolved.	4.2	5.3	1.1	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P03-06-2	9/22/2010	3910	3365	14.98				5.77	6.11	0.34			
P03-06-3	6/14/2010	4530	46110	164.22	Lab value correctly entered into emLine, but field value incorrectly entered.	**Change Value**	Field value changed; now correctly entered into emLine (see below).	4.3	5.35	1.05	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P03-06-3	6/14/2010	4530	4611	1.77	Lab value correctly entered into emLine, and incorrect field value amended (see above).	**Let Value Stand**	Discrepancy between lab and field values resolved.	4.3	5.35	1.05	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P03-06-3	9/22/2010	4640	3824	19.28				5.49	6.24	0.75			
P03-06-4	6/14/2010	2210	25150	167.69	Lab value correctly entered into emLine, but field value incorrectly entered.	**Change Value**	Field value changed; now correctly entered into emLine (see below).	5.6	6.18	0.58			
P03-06-4	6/14/2010	2210	2515	12.91	Lab value correctly entered into emLine, and incorrect field value amended (see above).	**Let Value Stand**	Discrepancy between lab and field values resolved.	5.6	6.18	0.58			
P03-06-4	9/22/2010	2600	2516	3.28				6.2	6.65	0.45			
P03-06-5	6/14/2010	1370	17610	171.13	Lab value correctly entered into emLine, but field value incorrectly entered.	**Change Value**	Field value changed; now correctly entered into emLine (see below).	5.2	6.42	1.22	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P03-06-5	6/14/2010	1370	1761	24.98	Lab value correctly entered into emLine, and incorrect field value amended (see above).	**Let Value Stand**	Large discrepancy between lab and field values resolved, but small discrepancy between values still remains.	5.2	6.42	1.22	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P03-06-5	9/22/2010	3570	2933	19.59				6.01	6.89	0.88			
P03-08-2	9/20/2010	678	732	7.66				7.7	8.17	0.47			
P03-08-4	9/20/2010	1260	1327	5.18				7.36	7.1	0.26			
P03-08-6	9/20/2010	948	924	2.56				7.23	7.45	0.22			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

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Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
P03-08-7	9/20/2010	612	569	7.28				7.92	7.85	0.07			
P03-08-8	9/20/2010			#DIV/0!						0			
P03-09-2	9/13/2010	1300	1430	9.52				7.85	7.01	0.84			
P03-09-4	9/13/2010	1550	1670	7.45				7.83	7	0.83			
P03-09-6	9/13/2010	1670	1822	8.71				7.83	6.91	0.92			
P03-09-8	9/13/2010	1700	1748	2.78				7.81	6.95	0.86			
P03-09-9	9/13/2010	1670	1811	8.10				7.82	6.91	0.91			
P05-01-1	9/9/2010	2790	2990	6.92				7	6.6	0.4			
P05-01-2	9/9/2010	2820	3103	9.56				7.04	6.65	0.39			
P05-01-3	9/9/2010	2790	3063	9.33				7.03	6.64	0.39			
P05-01-4	9/9/2010	2770	2972	7.04				7.02	6.64	0.38			
P05-01-5	9/9/2010	2400	2586	7.46				7.09	6.66	0.43			
P05-01-6	9/9/2010	2510	2655	5.61				7.14	6.58	0.56			
P05-02	6/6/2010	2720	2552	6.37				7.5	6.49	1.01	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P05-02	9/8/2010	2630	2910	10.11				7.05	6.6	0.45			
P05-03	6/8/2010	1610	1598	0.75				8.1	6.92	1.18	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P05-03	9/8/2010	1520	1640	7.59				7.41	7.04	0.37			
P05-04	9/16/2010	383	366.9	4.29				7.36	6.12	1.24	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P09-C1	6/7/2010	2510	2609	3.87				7.6	6.62	0.98			
P09-C1	9/15/2010	2630	2560	2.70				7.77	6.57	1.2	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P09-C2	6/8/2010	2670	2620	1.89				7	6.28	0.72			
P09-C2	9/15/2010	2770	2726	1.60				7.12	6.06	1.06	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P09-C3	6/8/2010	1070	1087	1.58				7.8	6.49	1.31	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P09-C3	9/15/2010	1070	1070	0.00				7.81	6.52	1.29	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P09-ETA1	9/16/2010	421	440.2	4.46				7.9	7.56	0.34			
P09-ETA2	9/15/2010	5190	5390	3.78				6.7	6.34	0.36			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

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Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
P09-SIS1	7/25/2010	9670	9050	6.62				6.69	6.16	0.53			
P09-SIS1	11/2/2010	8110	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			7.23	6.33	0.9			
P09-SIS1	11/2/2010	8110	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			7.23	6.33	0.9			
P09-SIS2	6/9/2010	9950	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.9	5.8	1.1	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P09-SIS2	7/24/2010	8730	9180	5.03				6.64	6.19	0.45			
P09-SIS2	9/13/2010	9190	9480	3.11				6.97	5.83	1.14	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P09-SIS2	11/2/2010	9340	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.93	6.1	0.83			
P09-SIS2	11/2/2010	9340	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.93	6.1	0.83			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
P09-SIS3	6/9/2010	10000	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.9	6.04	0.86			
P09-SIS3	7/24/2010	7720	4160	59.93	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.	6.65	8.34	1.69	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.
P09-SIS3	9/14/2010	9500	9580	0.84				7	6.05	0.95			
P09-SIS3	11/2/2010	9020	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			7	6.21	0.79			
P09-SIS3	11/2/2010	9020	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			7	6.21	0.79			
P96-6	6/15/2010	1170	1140	2.60				7.6	6.35	1.25	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P96-6	9/21/2010	1350	1010	28.81	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.27	7.08	0.19			
P96-7	6/11/2010	3090	2644	15.56				7.9	7.47	0.43			
P96-7	9/14/2010	3310	3570	7.56				7.82	7.24	0.58			
P96-8A	6/9/2010	7780	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			5.9	5.14	0.76			
P96-8A	9/14/2010	7780	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.29	5.14	1.15			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
P96-8B	6/9/2010	7380	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			4.8	4.31	0.49			
P96-8B	9/15/2010	7540	7630	1.19				4.71	4.55	0.16			
P96-9A	6/12/2010	3550	3066	14.63				7.8	6.77	1.03	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
P96-9A	9/20/2010	3840	3943	2.65				7.61	6.78	0.83			
S1A	6/9/2010	656	561	15.61				6.9	6.46	0.44			
S1A	9/14/2010	332		200.00	Lab value correctly entered into emLine, but field value not entered.	**Change Value**	Field value entered; now correctly entered into emLine (see correct result below).	7.12		7.12	Lab value correctly entered into emLine, but field value not entered.	**Change Value**	Field value entered; now correctly entered into emLine (see correct result below).
S1A	9/14/2010	332	302	9.46	Lab value correctly entered into emLine, but field value not entered.	**Let Value Stand**	Correct value entered into emLine.	7.12	7.29	0.17	Lab value correctly entered into emLine, but field value not entered.	**Let Value Stand**	Correct value entered into emLine.
S1B	9/14/2010			#DIV/0!	Sample not collected. Samplers noted "Well completely dry."					0	Sample not collected. Samplers noted "Well completely dry."		
S2A	6/9/2010	1470	1238	17.13				7	5.78	1.22	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
S2A	9/14/2010	1370	1226	11.09				6.73	6.05	0.68			
S2B	9/14/2010	8000	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.94	6.07	0.87			
SRK04-3A	9/22/2010	8130	8172	0.52				5.68	5.21	0.47			
SRK05-ETA-BR1	9/22/2010	7370	7350	0.27				5.76	5.17	0.59			
SRK05-ETA-BR2	9/22/2010	2660	2845	6.72				6.78	6.5	0.28			
SRK05-SP1A	9/14/2010	1700	1790	5.16				6.34	5.54	0.8			
SRK05-SP1B	9/14/2010	996	1050	5.28				7.37	6.31	1.06	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK05-SP2	9/14/2010	379	370	2.40				7.19	6.4	0.79			
SRK05-SP3A	9/14/2010	1410	1430	1.41				6.62	5.7	0.92			
SRK05-SP3B	9/14/2010	1190	1330	11.11				6.45	5.99	0.46			
SRK05-SP4A	6/9/2010	1040	872	17.57				6.7	5.66	1.04	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK05-SP4A	9/13/2010	1080	119	160.30	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past sample hold time. Discrepancy between values remains.	6.65	5.91	0.74			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
SRK05-SP5	9/14/2010	6260	6060	3.25				6.75	5.89	0.86			
SRK05-SP6	9/14/2010			#DIV/0!	Sample not collected. Samplers noted "not enough water for purge volume. Well too deep to get water out."					0	Sample not collected. Samplers noted "not enough water for purge volume. Well too deep to get water out."		
SRK08-P10A	6/9/2010	3630	3012	18.61				7.4	6.34	1.06	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-P10A	9/16/2010			#DIV/0!	Sample not collected. Samplers noted "Dry @ 12L."					0	Sample not collected. Samplers noted "Dry @ 12L."		
SRK08-P11A	6/9/2010	764	623	20.33	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.9	7.14	0.76			
SRK08-P11A	9/15/2010	770	860	11.04				7.91	6.83	1.08	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-P11B	6/9/2010	928	767	19.00				8.1	6.87	1.23	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-P11B	9/15/2010	1180	1370	14.90				7.81	6.52	1.29	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-P12A	9/16/2010	1240	1135	8.84				6.47	5.69	0.78			
SRK08-P12B	9/16/2010	889	965.7	8.27				6.43	5.69	0.74			
SRK08-P14	9/16/2010	1990	2080	4.42				7.9	7.38	0.52			
SRK08-P15	9/16/2010	1930	2030	5.05				7.88	7.66	0.22			
SRK08-SBR2	9/14/2010	1440	1510	4.75				6.75	5.9	0.85			
SRK08-SBR3	9/14/2010	2940	2407	19.94				7.63	6.96	0.67			
SRK08-SBR4	9/14/2010	2440	2288	6.43				7.16	6.44	0.72			
SRK08-SP7A	6/9/2010	2720	2755	1.28				6.5	5.86	0.64			
SRK08-SP7A	7/25/2010	2390	2290	4.27				6.53	6.48	0.05			
SRK08-SP7A	9/13/2010	2170	2380	9.23				6.83	6.11	0.72			
SRK08-SP7A	11/2/2010	1900	1614	16.28				6.86	6.39	0.47			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
SRK08-SP7B	6/9/2010	367	356	3.04				7.3	7.04	0.26			
SRK08-SP7B	7/25/2010	196	5.9	188.31	Lab value correctly entered into emLine, but field value incorrectly entered.	**Change Value**	Field value changed; now correctly entered into emLine (see below).	6.94	7.36	0.42			
SRK08-SP7B	7/25/2010	196	170	14.21	Lab value correctly entered into emLine, and incorrect field value amended (see above).	**Let Value Stand**	Discrepancy between lab and field values resolved.	6.94	7.36	0.42			
SRK08-SP7B	9/13/2010	211	250	16.92				7.23	6.79	0.44			
SRK08-SP7B	11/2/2010	249	246	1.21				7.26	6.83	0.43			
SRK08-SP8A	9/13/2010	1950	2250	14.29				6.97	6.17	0.8			
SRK08-SP8B	9/13/2010	1560	1770	12.61				6.92	6.25	0.67			
SRK08-SPW1	1/6/2010	1240	1115	10.62				6.6	5.82	0.78			
SRK08-SPW1	2/17/2010	1150	1070	7.21				7.1	6.15	0.95			
SRK08-SPW1	3/9/2010	1050	1090	3.74				7.3	5.98	1.32	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-SPW1	4/13/2010	1080	1040	3.77				6.8	6.08	0.72			
SRK08-SPW1	5/3/2010	1040	945	9.57				7.1	6	1.1	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-SPW1	6/13/2010	1070	1125	5.01				6.5	7.62	1.12	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-SPW1	7/10/2010	1100	1220	10.34				6.43	5.95	0.48			
SRK08-SPW1	8/3/2010	1080	1150	6.28				6.43	6.36	0.07			
SRK08-SPW1	9/1/2010	1090	1360	22.04	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	6.96	6.66	0.3			
SRK08-SPW1	10/7/2010	1060	760	32.97	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	6.72	6.54	0.18			
SRK08-SPW1	11/8/2010	1050	986	6.29				6.84	5.96	0.88			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

Station	Date	COND µmho/cm	CONDF µmho/cm	RPD %	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
SRK08-SPW2	1/6/2010	5140	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.7	5.8	0.9			
SRK08-SPW2	2/17/2010	4840	4310	11.58				7.2	5.97	1.23	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-SPW2	3/9/2010	4370	3970	9.59				7.3	6.07	1.23	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-SPW2	4/13/2010	4150	3960	4.69				6.8	6.1	0.7			
SRK08-SPW2	5/3/2010	4340	3676	16.57				7	6.26	0.74			
SRK08-SPW2	6/13/2010	3900	3794	2.76				6.7	8.01	1.31	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-SPW2	7/10/2010	3840	3587	6.81				6.66	6.11	0.55			
SRK08-SPW2	8/3/2010	3910	4390	11.57				7.01	6.34	0.67			
SRK08-SPW2	9/1/2010	3890	4160	6.71				7.15	6.28	0.87			
SRK08-SPW2	10/7/2010	3830	2250	51.97	Field and lab values correctly entered into emLine.	**Let Value Stand**	Retest request would be filed past hold time. Discrepancy between values remains.	6.85	6.3	0.55			
SRK08-SPW2	11/8/2010	4000	3304	19.06				6.87	6.16	0.71			
SRK08-SPW2	12/1/2010	4130	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.91	6.35	0.56			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
SRK08-SPW3	1/6/2010	5390	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.7	5.69	1.01	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-SPW3	2/17/2010	6620	5800	13.20				7.2	5.93	1.27	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-SPW3	3/9/2010	5690	4820	16.56				6.9	6.1	0.8			
SRK08-SPW3	4/13/2010	6210	5860	5.80				6.9	6.17	0.73			
SRK08-SPW3	5/3/2010	3360	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			7.3	6.24	1.06	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-SPW3	6/13/2010	5440	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.8	7.77	0.97			
SRK08-SPW3	7/10/2010	4160	3890	6.71				6.45	5.93	0.52			
SRK08-SPW3	8/3/2010	5510	5830	5.64				6.83	6.05	0.78			
SRK08-SPW3	9/1/2010	4220	4450	5.31				7.02	6.16	0.86			
SRK08-SPW3	10/7/2010	5540	3360	48.99	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	6.97	6.19	0.78			
SRK08-SPW3	11/8/2010	5520	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.75	5.74	1.01	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
SRK08-SPW3	12/1/2010	5440	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.6	6.12	0.48			
TH86-17	9/9/2010	181	190	4.85				7.55	7.1	0.45			
TH86-2	9/13/2010	289	187	42.86	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.	7.94	8.39	0.45			
TH86-5	9/9/2010	795	836	5.03				7.26	6.94	0.32			
X16A	6/7/2010	356	340	4.60				8.3	7.61	0.69			
X16A	9/8/2010	365	337	7.98				7.78	7.36	0.42			
X16B	6/7/2010	399	390	2.28				8.2	7.84	0.36			
X16B	9/8/2010	432	392	9.71				7.9	7.52	0.38			
X17A	6/8/2010	573	633	9.95				8.1	7.36	0.74			
X17A	9/8/2010	517	519	0.39				7.8	7.5	0.3			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
X17B	6/8/2010	1090	1110	1.82				7.7	6.94	0.76			
X17B	9/8/2010	899	801	11.53				7.47	6.9	0.57			
X18A	6/7/2010	1700	1807	6.10				8.0	6.93	1.07	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X18A	9/8/2010	1500	1351	10.45				7.22	6.92	0.3			
X18B	6/7/2010	1730	1727	0.17				8.1	6.85	1.25	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X18B	9/8/2010	1650	1399	16.46				7.45	6.98	0.47			
X21-96A	6/11/2010	17500	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			3.6	5.38	1.78	Field and lab values correctly entered into emLine.	**Request Retest**	Retest not possible because was requested too late. Remainder of samples had been discarded. Discrepancy between values remains.
X21-96A	9/22/2010	17900	17530	2.09				3.67	5.05	1.38	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X21-96B	6/11/2010	2360	2274	3.71				5.9	6.61	0.71			
X21-96B	9/22/2010	2810	3008	6.81				6.31	6.26	0.05			
X24-96D	6/7/2010	3910	3660	6.61				7.4	6.4	1	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X24-96D	9/9/2010	3950	4370	10.10				6.85	6.27	0.58			
X25-96A	6/7/2010	1420	1390	2.14				8	7.18	0.82			
X25-96A	9/9/2010	1550	1710	9.82				7.43	7.01	0.42			
X25-96B	6/7/2010	1270	1270	0.00				8.1	7.52	0.58			
X25-96B	9/9/2010	1370	1430	4.29				7.83	7.38	0.45			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Denison Environmental Services

Table C-62: Rose Creek Drainage Groundwater Quality
2010 QA/QC Lab vs. Field Comparison

Faro Mine Closure

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	**Date**	**µmho/cm**	**µmho/cm**	**%**									
X26	5/5/2010	5300	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.5	6.28	0.22			
X26	6/13/2010	4190	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.4	7.61	1.21	Field and lab values correctly entered into emLine.	**Let Value Stand**	Discrepancy between lab and field values remains.
X26	7/10/2010	4120	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.55	6.33	0.22			
X26	8/3/2010	4620	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.4	6.22	0.18			
X26	9/1/2010	5060	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.71	6.06	0.65			
X26	10/19/2010	4540	>3999	#VALUE!	Field and lab values not comparable because conductivity greater than maximum measurable level for field meter used.			6.52	5.97	0.55			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

Table C-63: Rose Creek Drainage Water Quality
2010 - Ion Charge Balance

Station	Date	Surface
ETA Combined	9/2/2010	0.95
ETA Combined	10/20/2010	0.99
ETA Combined	11/8/2010	0.95
ETA Combined	12/1/2010	
FAROCR	5/3/2010	
FAROCR	6/5/2010	1.00
FAROCR	7/8/2010	
FAROCR	8/3/2010	1.00
FAROCR	9/1/2010	1.00
FAROCR	10/19/2010	1.00
FCO	6/16/2010	1.00
FCO	9/1/2010	
FCO	10/7/2010	1.00
FCO	11/4/2010	
FCS-4	9/2/2010	0.89
FCS-4	10/20/2010	0.89
FCS-4	11/10/2010	
FCS-4	12/2/2010	
GDHSECK	3/4/2010	
GDHSECK	6/16/2010	0.99
GDHSECK	10/6/2010	1.00
NF1	2/23/2010	
NF1	3/10/2010	
NF1	4/11/2010	
NF1	5/3/2010	
NF1	6/5/2010	1.00
NF1	7/8/2010	
NF1	8/3/2010	0.99
NF2	1/12/2010	
NF2	2/23/2010	
NF2	3/10/2010	
NF2	4/14/2010	
NF2	5/3/2010	
NF2	6/4/2010	1.00
NF2	7/8/2010	
NF2	8/3/2010	1.00
NF2	9/1/2010	1.00
NF2	10/18/2010	1.00
NF2	11/9/2010	1.00
NF2	12/1/2010	
NFRC SC-1	1/12/2010	
NFRC SC-1	2/23/2010	
NFRC SC-1	3/10/2010	
NFRC SC-1	4/14/2010	
NFRC SC-1	5/3/2010	
NFRC SC-1	6/4/2010	1.00
NFRC SC-1	7/8/2010	
NFRC SC-1	8/3/2010	1.00
NFRC SC-1	10/18/2010	1.00
NFRC SC-2	1/12/2010	
NFRC SC-2	2/23/2010	
NFRC SC-2	3/10/2010	
NFRC SC-2	4/14/2010	
NFRC SC-2	5/3/2010	
NFRC SC-2	6/4/2010	1.00
NFRC SC-2	7/8/2010	
NFRC SC-2	8/3/2010	1.00
NFRC SC-2	10/18/2010	1
NFRC SC-3	1/12/2010	
NFRC SC-3	2/23/2010	
NFRC SC-3	3/10/2010	
NFRC SC-3	4/14/2010	
NFRC SC-3	5/3/2010	
NFRC SC-3	6/4/2010	1
NFRC SC-3	7/8/2010	
NFRC SC-3	8/3/2010	1.00
NFRC SC-3	10/18/2010	1.00
NFRC SC-4	1/11/2010	
NFRC SC-4	2/23/2010	
NFRC SC-4	3/10/2010	
NFRC SC-4	4/14/2010	
NFRC SC-4	5/3/2010	
NFRC SC-4	6/4/2010	1.00
NFRC SC-4	7/8/2010	
NFRC SC-4	8/3/2010	1.00
NFRC SC-4	10/18/2010	1.00
NWID	2/22/2010	
NWID	3/10/2010	
NWID	4/15/2010	
NWID	5/3/2010	
NWID	6/4/2010	1.00
NWID	7/10/2010	1.00
NWID	8/3/2010	0.90
R10	1/11/2010	
R10	2/23/2010	
R10	3/10/2010	
R10	4/11/2010	
R10	5/3/2010	
R10	6/5/2010	1.00
R10	7/8/2010	
R10	8/3/2010	1.00
R10	9/1/2010	
R10	10/19/2010	1.00
R10	11/10/2010	
R10	12/1/2010	

Station	Date	Surface
R7	1/11/2010	
R7	2/23/2010	
R7	3/10/2010	
R7	4/11/2010	
R7	5/3/2010	
R7	6/5/2010	1.00
R7	7/8/2010	
R7	8/3/2010	1.00
R7	9/1/2010	1.00
R7	10/19/2010	1.00
R7	11/10/2010	
R7	12/1/2010	
R8	3/10/2010	
R8	4/11/2010	
R8	5/3/2010	
R8	6/5/2010	1.00
R8	7/8/2010	
R8	8/3/2010	1.00
R8	9/1/2010	1.00
R8	10/19/2010	1.00
R8	11/10/2010	
R8	12/1/2010	
R9	1/11/2010	
R9	2/23/2010	
R9	3/10/2010	
R9	4/11/2010	
R9	5/3/2010	
R9	6/5/2010	1.00
R9	7/8/2010	
R9	8/3/2010	1.00
R9	9/1/2010	1.00
R9	10/19/2010	1.00
R9	11/10/2010	
R9	12/1/2010	
RCSG#4	1/12/2010	
RCSG#4	3/10/2010	
RCSG#4	4/13/2010	
RCSG#4	5/3/2010	
RCSG#4	6/4/2010	1.00
RCSG#4	7/8/2010	
RCSG#4	8/3/2010	1.00
W10	5/3/2010	
W10	6/5/2010	1
W10	7/10/2010	1.00
W8	6/17/2010	1.00
X10	1/11/2010	
X10	2/22/2010	
X10	3/10/2010	
X10	4/13/2010	
X10	5/3/2010	
X10	6/4/2010	1.00
X10	7/8/2010	
X10	8/3/2010	1.00
X10	9/2/2010	1.00
X10	10/21/2010	1.00
X10	11/9/2010	1.00
X10	12/1/2010	
X14	1/11/2010	
X14	2/22/2010	
X14	3/10/2010	
X14	3/22/2010	
X14	3/30/2010	
X14	4/6/2010	
X14	4/13/2010	
X14	4/20/2010	
X14	4/27/2010	
X14	5/4/2010	
X14	5/11/2010	
X14	5/18/2010	
X14	5/25/2010	
X14	6/1/2010	
X14	6/8/2010	0.94
X14	6/15/2010	0.93
X14	6/22/2010	0.90
X14	6/29/2010	1.00
X14	6/29/2010	1.00
X14	7/6/2010	1
X14	7/13/2010	1.00
X14	7/20/2010	1.00
X14	7/27/2010	
X14	8/3/2010	0.98
X14	8/10/2010	
X14	8/17/2010	0.94
X14	8/24/2010	0.99
X14	8/31/2010	1.00
X14	9/7/2010	1
X14	10/21/2010	0.97
X14	11/9/2010	0.97
X14	11/18/2010	1.10
X14	11/25/2010	
X14	12/2/2010	1.00

Station	Date	Surface
X2	1/11/2010	
X2	2/22/2010	
X2	3/10/2010	
X2	4/14/2010	
X2	5/3/2010	
X2	6/4/2010	1.00
X2	7/8/2010	
X2	8/3/2010	1.00
X2	9/2/2010	1.00
X2	10/18/2010	1.00
X2	11/9/2010	1.00
X2	12/1/2010	
X22b	1/11/2010	
X22b	2/22/2010	
X22b	3/10/2010	
X22b	4/13/2010	
X22b	5/3/2010	
X22b	6/4/2010	1.10
X22b	7/10/2010	1.00
X22b	8/3/2010	1.10
X22b	9/1/2010	0.90
X22b	10/20/2010	0.98
X22b	11/8/2010	0.94
X22b	12/1/2010	
X3	1/11/2010	
X3	2/22/2010	
X3	3/9/2010	
X3	4/14/2010	
X3	5/3/2010	
X3	6/4/2010	1.00
X3	7/8/2010	
X3	8/3/2010	1.00
X3	9/2/2010	1.00
X3	10/21/2010	1.00
X3	11/9/2010	1.00
X3	12/1/2010	
X3A	9/2/2010	1.00
X3A	10/21/2010	1.00
X3A	11/9/2010	1.00
X3A	12/1/2010	
X4	1/11/2010	
X4	2/22/2010	
X4	3/9/2010	
X4	4/13/2010	
X4	5/3/2010	
X4	6/4/2010	1.00
X4	7/10/2010	1.00
X4	8/3/2010	0.90
X4	9/2/2010	0.94
X4	10/20/2010	0.93
X4	11/8/2010	1
X4	12/1/2010	
X5	3/22/2010	
X5	3/30/2010	
X5	4/6/2010	
X5	4/13/2010	
X5	4/20/2010	
X5	4/27/2010	
X5	5/4/2010	
X5	5/11/2010	
X5	5/18/2010	
X5	5/25/2010	
X5	6/1/2010	
X5	6/8/2010	1
X5	6/15/2010	0.96
X5	6/15/2010	
X5	6/22/2010	0.90
X5	6/29/2010	0.99
X5	7/6/2010	0.86
X5	7/13/2010	1.10
X5	7/20/2010	0.96
X5	7/27/2010	
X5	8/10/2010	
X5	8/17/2010	0.99
X5	8/24/2010	1.00
X5	8/31/2010	0.91
X5	9/7/2010	0.89
X5	9/7/2010	
X5	11/18/2010	1.00
X5	11/25/2010	
X5	12/2/2010	
X5	12/2/2010	0.98
X5P	1/11/2010	
X5P	2/22/2010	
X5P	3/2/2010	
X5P	4/13/2010	
X5P	5/3/2010	
X5P	6/4/2010	1.10
X5P	7/10/2010	0.96
X5P	8/3/2010	0.97
X5P	9/2/2010	0.97
X5P	10/20/2010	0.92
X5P	11/8/2010	0.95
X5P	12/1/2010	

Table C-63: Rose Creek Drainage Water Quality
2010 - Ion Charge Balance

Station	Date	Surface
X7	6/1/2010	
X7	10/6/2010	0.90

Station	Date	Seepage
A25	5/31/2010	
A30	2/4/2010	
A30	2/24/2010	
A30	3/2/2010	
A30	3/28/2010	
A30	4/10/2010	
A30	4/19/2010	
A30	5/1/2010	
A30	5/18/2010	
A30	6/2/2010	
A30	6/15/2010	0.84
A30	7/7/2010	0.86
A30	7/22/2010	0.93
A30	8/5/2010	1.00
A30	8/18/2010	1.00
A30	9/1/2010	1.00
A30	10/20/2010	1.00
A30	11/4/2010	1.00
A30	12/1/2010	
NE1	6/1/2010	
SP5-6	6/1/2010	
SP5-6	7/10/2010	1.00
SP5-6	8/5/2010	1.10
SP5-6	9/1/2010	1.00
SP5-6	10/6/2010	1.00
W5	6/1/2010	
Weir 3	3/4/2010	
Weir 3	8/5/2010	0.96
Weir 3	11/4/2010	
X11	3/4/2010	
X11	8/5/2010	1.00
X11	11/4/2010	
X12	3/4/2010	
X12	8/5/2010	0.98
X12	11/4/2010	
X13	1/11/2010	
X13	2/17/2010	
X13	3/2/2010	
X13	4/15/2010	
X13	5/6/2010	
X13	6/10/2010	1.10
X13	7/11/2010	0.99
X13	8/5/2010	1.00
X13	9/2/2010	1.10
X13	10/7/2010	1.00
X13	11/4/2010	1.00
X13	12/2/2010	
X23	1/12/2010	
X23	4/27/2010	
X23	5/6/2010	
X23	6/10/2010	0.80
X23	7/10/2010	0.86
X23	8/5/2010	0.95
X23	9/2/2010	0.95
X23	10/7/2010	0.94
X23	11/4/2010	0.94

Station	Date	Groundwater
BH10A	9/16/2010	1.10
BH10B	9/16/2010	1.10
BH13B	9/21/2010	1.10
BH14A	6/11/2010	0.96
BH14A	9/21/2010	1.00
BH14B	6/11/2010	0.97
BH14B	9/21/2010	1.00
BH5	9/16/2010	1.00
BH6	9/16/2010	0.95
BH8	9/18/2010	0.90
P01-01A	6/6/2010	1.10
P01-01A	9/8/2010	0.97
P01-01B	6/6/2010	1.10
P01-01B	9/8/2010	1.10
P01-02A	6/6/2010	1.20
P01-02A	9/8/2010	1.00
P01-02B	6/6/2010	1.10
P01-02B	9/8/2010	1.00
P01-03	6/7/2010	0.89
P01-03	9/9/2010	1.10
P01-04A	6/7/2010	1.00
P01-04A	9/9/2010	0.93
P01-04B	9/9/2010	0.98
P01-11	6/6/2010	1.20
P01-11	9/8/2010	1.10
P03-01-2	9/21/2010	1.00
P03-01-4	9/21/2010	1.00
P03-01-6	9/21/2010	1.00
P03-01-8	9/21/2010	0.84
P03-03-2	9/21/2010	1.00
P03-03-4	9/21/2010	1.10
P03-03-6	9/21/2010	0.78
P03-04-2	9/20/2010	1.00
P03-04-4	9/20/2010	1.10
P03-04-6	9/20/2010	0.90
P03-04-8	9/20/2010	0.88
P03-05-2	9/22/2010	0.92
P03-05-4	9/22/2010	0.92
P03-05-6	9/22/2010	0.96
P03-06-1	6/14/2010	0.87
P03-06-1	9/22/2010	1.00
P03-06-2	6/14/2010	0.91
P03-06-2	9/22/2010	0.99
P03-06-3	6/14/2010	0.85
P03-06-3	9/22/2010	0.95
P03-06-4	6/14/2010	1.10
P03-06-4	9/22/2010	1.00
P03-06-5	6/14/2010	1.00
P03-06-5	9/22/2010	1.20
P03-08-2	9/20/2010	1.00
P03-08-4	9/20/2010	1.10
P03-08-6	9/20/2010	1.10
P03-08-7	9/20/2010	0.96
P03-09-2	9/13/2010	
P03-09-4	9/13/2010	
P03-09-6	9/13/2010	
P03-09-8	9/13/2010	
P03-09-9	9/13/2010	
P05-01-1	9/9/2010	1.00
P05-01-2	9/9/2010	1.00
P05-01-3	9/9/2010	1.00
P05-01-4	9/9/2010	1.00
P05-01-5	9/9/2010	0.95
P05-01-6	9/9/2010	0.99
P05-02	6/6/2010	
P05-02	9/8/2010	0.94
P05-03	6/8/2010	1.00
P05-03	9/8/2010	0.95
P05-04	9/16/2010	0.99
P09-C1	6/7/2010	1.10
P09-C1	9/15/2010	0.95
P09-C2	6/8/2010	1.00
P09-C2	9/15/2010	0.98
P09-C3	6/8/2010	0.99
P09-C3	9/15/2010	1.10
P09-ETA1	9/16/2010	1.00
P09-ETA2	9/15/2010	0.89
P09-SIS1	7/25/2010	0.87
P09-SIS1	11/2/2010	
P09-SIS2	6/9/2010	0.85
P09-SIS2	7/24/2010	0.93
P09-SIS2	9/13/2010	0.90
P09-SIS2	11/2/2010	
P09-SIS3	6/9/2010	0.76
P09-SIS3	7/24/2010	0.89
P09-SIS3	9/14/2010	0.93
P09-SIS3	11/2/2010	
P96-6	6/15/2010	1.10
P96-6	9/21/2010	1.10
P96-7	6/11/2010	1.10
P96-7	9/14/2010	0.95
P96-8A	6/9/2010	0.88
P96-8A	9/14/2010	0.91
P96-8B	6/9/2010	0.84
P96-8B	9/15/2010	0.92
S1A	6/9/2010	1.10
S1A	9/14/2010	0.85

Station	Date	Groundwater
S2A	6/9/2010	0.95
S2A	9/14/2010	1.10
S2B	9/14/2010	0.85
SRK04-3A	9/22/2010	0.82
SRK05-ETA-BR1	9/22/2010	0.87
SRK05-ETA-BR2	9/22/2010	0.97
SRK05-SP1A	9/14/2010	
SRK05-SP1B	9/14/2010	
SRK05-SP2	9/14/2010	
SRK05-SP3A	9/14/2010	
SRK05-SP3B	9/14/2010	
SRK05-SP4A	6/9/2010	1.00
SRK05-SP4A	9/13/2010	1.10
SRK05-SP5	9/14/2010	0.92
SRK08-P10A	6/9/2010	1.00
SRK08-P11A	6/9/2010	0.99
SRK08-P11A	9/15/2010	1.10
SRK08-P11B	6/9/2010	1.00
SRK08-P11B	9/15/2010	1.00
SRK08-P12A	9/16/2010	1.00
SRK08-P12B	9/16/2010	1.10
SRK08-SBR2	9/14/2010	
SRK08-SBR3	9/14/2010	
SRK08-SBR4	9/14/2010	
SRK08-SP7A	6/9/2010	0.96
SRK08-SP7A	7/25/2010	0.92
SRK08-SP7A	9/13/2010	1.10
SRK08-SP7A	11/2/2010	
SRK08-SP7B	6/9/2010	0.96
SRK08-SP7B	7/25/2010	1.00
SRK08-SP7B	9/13/2010	1.00
SRK08-SP7B	11/2/2010	
SRK08-SP8A	9/13/2010	1.10
SRK08-SP8B	9/13/2010	1.00
SRK08-SPW1	1/6/2010	
SRK08-SPW1	2/17/2010	
SRK08-SPW1	3/9/2010	
SRK08-SPW1	4/13/2010	
SRK08-SPW1	5/3/2010	
SRK08-SPW1	6/13/2010	1.20
SRK08-SPW1	7/10/2010	1.10
SRK08-SPW1	8/3/2010	1.00
SRK08-SPW1	9/1/2010	1.00
SRK08-SPW1	10/7/2010	1.10
SRK08-SPW1	11/8/2010	1.10
SRK08-SPW2	1/6/2010	
SRK08-SPW2	2/17/2010	
SRK08-SPW2	3/9/2010	
SRK08-SPW2	4/13/2010	
SRK08-SPW2	5/3/2010	
SRK08-SPW2	6/13/2010	0.95
SRK08-SPW2	7/10/2010	0.92
SRK08-SPW2	8/3/2010	0.85
SRK08-SPW2	9/1/2010	0.94
SRK08-SPW2	10/7/2010	1.00
SRK08-SPW2	11/8/2010	0.91
SRK08-SPW2	12/1/2010	0.93
SRK08-SPW3	1/6/2010	
SRK08-SPW3	2/17/2010	
SRK08-SPW3	3/9/2010	
SRK08-SPW3	4/13/2010	
SRK08-SPW3	5/3/2010	
SRK08-SPW3	6/13/2010	0.80
SRK08-SPW3	7/10/2010	0.95
SRK08-SPW3	8/3/2010	0.87
SRK08-SPW3	9/1/2010	0.93
SRK08-SPW3	10/7/2010	0.96
SRK08-SPW3	11/8/2010	0.80
SRK08-SPW3	12/1/2010	0.95
TH86-17	9/9/2010	1.00
TH86-2	9/13/2010	
TH86-5	9/9/2010	1.00
X16A	6/7/2010	1.00
X16A	9/8/2010	0.89
X16B	6/7/2010	1.10
X16B	9/8/2010	1.00
X17A	6/8/2010	1.10
X17A	9/8/2010	1.10
X17B	6/8/2010	1.00
X17B	9/8/2010	1.00
X18A	6/7/2010	1.10
X18A	9/8/2010	1.10
X18B	6/7/2010	1.10
X18B	9/8/2010	1.10
X21-96A	6/11/2010	1.00
X21-96A	9/22/2010	1.10
X21-96B	6/11/2010	1.10
X21-96B	9/22/2010	1.00
X24-96D	6/7/2010	0.93
X24-96D	9/9/2010	0.87
X25-96A	6/7/2010	1.00
X25-96A	9/9/2010	0.96
X25-96B	6/7/2010	1.10
X25-96B	9/9/2010	0.96

Table C-63: Rose Creek Drainage Water Quality
2010 - Ion Charge Balance

Denison Environmental Services

Faro Mine Closure

Station	Date	Groundwater
X26	5/5/2010	
X26	6/13/2010	0.98
X26	7/10/2010	0.95
X26	8/3/2010	0.85
X26	9/1/2010	0.89
X26	10/19/2010	1.10

Station	Date	Pit Lakes
FL-1	4/30/2010	
	6/16/2010	
	7/14/2010	1.00
	8/12/2010	
	9/8/2010	0.90
FL-15	4/30/2010	
	6/16/2010	
	7/14/2010	
	8/12/2010	
	9/8/2010	0.92
FL-3	4/30/2010	
	6/16/2010	
	7/14/2010	1.10
	8/12/2010	
	9/8/2010	0.92
FL-30	4/30/2010	
	6/16/2010	
	7/14/2010	1.00
	8/12/2010	
	9/8/2010	1.00
FL-5	4/30/2010	
	6/16/2010	
	7/14/2010	1.00
	8/12/2010	
	9/8/2010	0.95
FL-60	4/30/2010	
	6/16/2010	
	7/14/2010	0.99
	8/12/2010	
	9/8/2010	1.10
FL-80	4/30/2010	
	6/16/2010	
	7/14/2010	1.10
	8/12/2010	
	9/8/2010	1.00

Denison Environmental Services

Table C-64: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - Pit Lakes - General Parameters

Faro Mine Closure

Station	Date	Sample Type	Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Cl-d	CO3	COND	HCO3	NH3	NO2	NO2/3	NO3	OH	oPO4	P	pH	SO4-d	TDS	TSS
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L
FL-1	7/14/2010	M	<0.5	41.80	74.00	<0.5	612.00	674.00	1.40	<0.5	1250.00	90.00	0.91	0.01	0.51	0.50	<0.5	<0.005	<0.005	7.57	600.00	970.00	<1
FL-1	7/14/2010	DUP	<0.5	34.30	80.00	<0.5	619.00	680.00	1.20	<0.5	1260.00	97.00	1.00	0.01	0.49	0.48	<0.5	<0.005	<0.005	7.64	620.00	1000.00	2.00
RPD (%)			N/A	19.71	7.79	N/A	1.14	0.89	15.38	N/A	0.80	7.49	9.42	10.53	4.00	4.08	N/A	N/A	N/A	0.07	3.28	3.05	N/A
Comments																							
Action																							
Result																							
FL-3	9/8/2010	M	<0.5	34.70	81.00	<0.5	641.00	681.00	1.50	<0.5	1320.00	99.00	1.10	0.01	0.51	0.50	<0.5	<0.005	<0.005	7.72	690.00	1100.00	<1
FL-3	9/8/2010	DUP	<0.5	31.20	78.00	<0.5	652.00	667.00	1.40	<0.5	1310.00	95.00	1.30	0.01	0.50	0.49	<0.5	<0.005	<0.005	7.74	660.00	1100.00	<1
RPD (%)			N/A	10.62	3.77	N/A	1.70	2.08	6.90	N/A	0.76	4.12	16.67	9.52	1.98	2.02	N/A	N/A	N/A	0.02	4.44	0.00	N/A
Comments																							
Action																							
Result																							

RPD > 50%

Denison Environmental Services

Table C-65: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - Pit Lakes - Dissolved Metals

Faro Mine Closure

Station	Date	Sample Type	Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	S-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
FL-1	**7/14/2010**	**M**	0.02	3.80	0.20	16.30	<50	0.04	<0.005	146.00	16.00	53.40	<0.1	6.54	35.00	8.01	0.05	75.40	2990.00	0.56	19.00	129.00	2.75	0.26	249.00	0.13	3960.00	<0.01	620.00	<0.5	0.43	1.220	<0.2	18000.00	<0.1
FL-1	**7/14/2010**	**DUP**	0.02	1.90	0.16	15.80	<50	0.04	<0.005	146.00	15.80	55.70	<0.1	6.71	23.00	7.69	0.05	76.40	2950.00	0.54	19.20	136.00	0.29	0.26	252.00	0.14	4000.00	<0.01	603.00	<0.5	0.44	1.210	<0.2	18400.00	<0.1
RPD (%)			6.06	66.67	22.22	3.12	N/A	0.00	N/A	0.00	1.26	4.22	N/A	2.57	41.38	4.08	0.18	1.32	1.35	3.64	1.05	5.28	162.44	0.00	1.20	7.41	1.01	N/A	2.78	N/A	2.07	0.82	N/A	2.20	N/A
Comments				Both values > PQL and correctly entered into emLine.																			Both values > PQL and correctly entered into emLine.												
Action				**Let Value Stand**																			**Request Retest**												
Result				Discrepancy between values remains.																			Retest performed, see results below.												
FL-1 Retest	**7/14/2010**	**M**																					3.94												
FL-1 Retest	**7/14/2010**	**DUP**																					0.33												
RPD (%)			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	169.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments																							Retest for July 14 FL-1 sample and duplicate. Both values > PQL and correctly entered into emLine.												
Action																							**Let Value Stand**												
Result																							New values entered into emLine.												
FL-3	**9/8/2010**	**M**	<0.03	4.00	<0.1	14.90	<300	0.07	<0.03	143.00	15.70	51.60	<0.5	5.40	15.00	7.80	0.06	78.60	3060.00	0.60	18.70	136.00	0.22	0.20	238.00	<0.2	4050.00	<0.05	584.00	<3	0.41	0.970	<1	22200.00	<0.5
FL-3	**9/8/2010**	**DUP**	<0.03	9.00	0.20	17.20	<300	<0.05	<0.03	142.00	16.40	51.60	<0.5	6.50	29.00	7.60	0.06	75.90	3040.00	0.50	18.20	131.00	1.23	0.30	233.00	<0.2	4010.00	<0.05	583.00	<3	0.44	0.910	<1	21800.00	<0.5
RPD (%)			N/A	76.92	N/A	14.33	N/A	N/A	N/A	0.70	4.36	0.00	N/A	18.49	63.64	2.60	5.31	3.50	0.66	18.18	2.71	3.75	139.31	40.00	2.12	N/A	0.99	N/A	0.17	N/A	7.06	6.38	N/A	1.82	N/A
Comments				Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.											Both values correctly entered into emLine; however, main sample value not > PQL. Therefore, RPD analysis not valid in this case.								Both values > PQL and correctly entered into emLine.												
Action				**Let Value Stand**											**Let Value Stand**								**Request Retest**												
Result				Discrepancy between values remains.											Discrepancy between values remains.								Retest performed, see results below.												
FL-3 Retest	**9/8/2010**	**M**																					0.28												
FL-3 Retest	**9/8/2010**	**DUP**																					1.43												
RPD (%)			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	134.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments																							Retest for September 8 FL-3 sample and duplicate. Both values > PQL and correctly entered into emLine.												
Action																							**Let Value Stand**												
Result																							New values entered into emLine.												

RPD > 50%

RPD > 100%

Denison Environmental Services

Table C-66: Rose Creek Drainage Water Quality
2010 QA/QC Duplicates - Pit Lakes - Total Metals

Faro Mine Closure

			Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Station	**Date**	**Sample Type**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**	**µg/L**	**ug/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
FL-1	**7/14/2010**	**M**	0.01	11.60	0.22	<50	16.60	0.06	<0.005	121.00	16.30	52.20	<0.1	12.70	155.00	7.71	0.06	75.50	2920.00	0.48	18.30	129.00	1.67	239.00	0.25	0.12	3460.00	0.02	592.00	<0.5	0.42	1.260	<0.2	18200.00	<0.1
FL-1	**7/14/2010**	**DUP**	0.02	12.10	0.22	<50	16.90	0.06	<0.005	123.00	16.20	53.50	<0.1	9.16	149.00	7.74	0.06	75.80	2920.00	0.52	18.50	132.00	1.65	240.00	0.26	0.14	3630.00	<0.01	597.00	<0.5	0.44	1.260	<0.2	18400.00	<0.1
RPD (%)			6.90	4.22	0.00	N/A	1.79	0.00	N/A	1.64	0.62	2.46	N/A	32.39	3.95	0.39	0.72	0.40	0.00	8.00	1.09	2.30	1.20	0.42	3.92	15.38	4.80	N/A	0.84	N/A	4.41	0.00	N/A	1.09	N/A
Comments																																			
Action																																			
Result																																			
FL-3	**9/8/2010**	**M**	<0.03	11.00	0.20	<300	15.60	<0.05	<0.03	139.00	17.10	48.20	<0.5	6.60	172.00	7.50	0.06	71.20	2850.00	0.60	17.50	121.00	1.70	221.00	0.90	<0.2	3640.00	<0.05	585.00	8.0	0.43	1.120	<1	19700.00	<0.5
FL-3	**9/8/2010**	**DUP**	<0.03	12.00	0.20	<300	16.30	<0.05	<0.03	137.00	17.30	50.80	<0.5	6.80	169.00	7.90	0.06	75.40	2970.00	0.60	18.60	130.00	1.84	254.00	0.30	<0.2	3830.00	<0.05	597.00	10.0	0.47	1.090	2.00	20300.00	<0.5
RPD (%)			N/A	8.70	0.00	N/A	4.39	N/A	N/A	1.45	1.16	5.25	N/A	2.99	1.76	5.19	3.57	5.73	4.12	0.00	6.09	7.17	7.91	13.89	100.00	N/A	5.09	N/A	2.03	22.22	8.89	2.71	N/A	3.00	N/A
Comments																									Both values > PQL and correctly entered into emLine.										
Action																									**Let Value Stand**										
Result																									Discrepancy between values remains.										

RPD > 50%

RPD > 100%

Table C-67: Rose Creek Drainage Water Quality
2010 QA/QC Splits - Pit Lakes - General Parameters

			Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Cl-d	CO3	COND	HCO3	NH3	NO2	NO2/3	NO3	OH	oPO4	P	pH	SO4-d	TDS	TSS
Station	**Date**	**Sample Type**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µmho/cm**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**		**mg/L**	**mg/L**	**mg/L**
FL-1	**8/12/2010**	**M**	<0.5	28.80	77.00	<0.5	695.00	590.00	1.60	<0.5	1250.00	94.00	1.10	0.01	0.50	0.50	<0.5	<0.005	<0.005	7.60	610.00	1000.00	<1
FL-1	**8/12/2010**	**SPLIT**	<0.5	20.60	76.00	<0.5	690.00	598.00	1.10	<0.5	1190.00	93.00	1.00	0.01	0.51	0.50	<0.5	<0.005	<0.005	7.63	650.00	1000.00	<1
RPD (%)			N/A	33.20	1.31	N/A	0.72	1.35	37.04	N/A	4.92	1.07	9.52	75.00	1.98	0.00	N/A	N/A	N/A	0.03	6.35	0.00	N/A
Comments														Both values correctly entered into emLine; however, neither value > PQL. Therefore RPD analysis not valid in this case. In addition, lab noted that "Samples arrived to laboratory past recommended hold time."									
Action														**Let Value Stand**									
Result														Discrepancy between values remains.									

RPD > 50%

Denison Environmental Services

Table C-68: Rose Creek Drainage Water Quality
2010 QA/QC Splits - Pit Lakes - Dissolved Metals

Faro Mine Closure

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
FL-1	8/12/2010	M	<0.03	3.00	0.20	16.30	<300	<0.05	<0.03	127.00	16.60	50.80	<0.5	5.60	10.00	7.10	0.06	66.30	2940.00	0.50	16.20	131.00	0.41	0.30	212.00	<0.2	2880.00	<0.05	570.00	<3	0.45	1.100	<1	20600.00	<0.5
FL-1	8/12/2010	SPLIT	<0.03	3.00	0.30	16.20	<300	<0.05	<0.03	129.00	15.90	50.50	<0.5	5.50	13.00	7.10	0.06	67.40	2950.00	0.50	16.60	129.00	0.53	0.20	226.00	<0.2	2750.00	<0.05	557.00	<3	0.47	1.100	<1	20700.00	<0.5
RPD (%)			N/A	0.00	40.00	0.62	N/A	N/A	N/A	1.56	4.31	0.59	N/A	1.80	26.09	0.00	1.71	1.65	0.34	0.00	2.44	1.54	25.53	40.00	6.39	N/A	4.62	N/A	2.31	N/A	4.35	0.00	N/A	0.48	N/A
Comments																																			
Action																																			
Result																																			

RPD > 50%

RPD > 100%

Table C-69: Rose Creek Drainage Water Quality
2010 QA/QC Splits - Pit Lakes - Total Metals

			Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Station	**Date**	**Sample Type**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**	**µg/L**	**ug/L**	**µg/L**	**µg/L**	**µg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
FL-1	8/12/2010	M	<0.03	10.00	<0.1	<300	17.40	<0.05	<0.03	148.00	18.20	53.10	<0.5	7.40	47.00	8.20	0.06	79.10	3150.00	0.50	19.10	138.00	0.85	260.00	0.20	<0.2	4530.00	<0.05	631.00	<3	0.47	0.920	<1	21900.00	<0.5
FL-1	8/12/2010	SPLIT	<0.03	8.00	<0.1	<300	17.30	0.06	<0.03	148.00	17.50	52.60	<0.5	7.30	51.00	8.10	0.06	77.70	3050.00	0.50	18.70	135.00	0.80	252.00	0.20	<0.2	4580.00	<0.05	627.00	<3	0.50	0.950	<1	21700.00	<0.5
RPD (%)			N/A	22.22	N/A	N/A	0.58	N/A	N/A	0.00	3.92	0.95	N/A	1.36	8.16	1.23	1.57	1.79	3.23	0.00	2.12	2.20	6.06	3.13	0.00	N/A	1.10	N/A	0.64	N/A	6.19	3.21	N/A	0.92	N/A
Comments																																			
Action																																			
Result																																			

RPD > 50%

RPD > 100%

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Figure C-1: Sulphate at FCO, FAROCR, W10 and R7

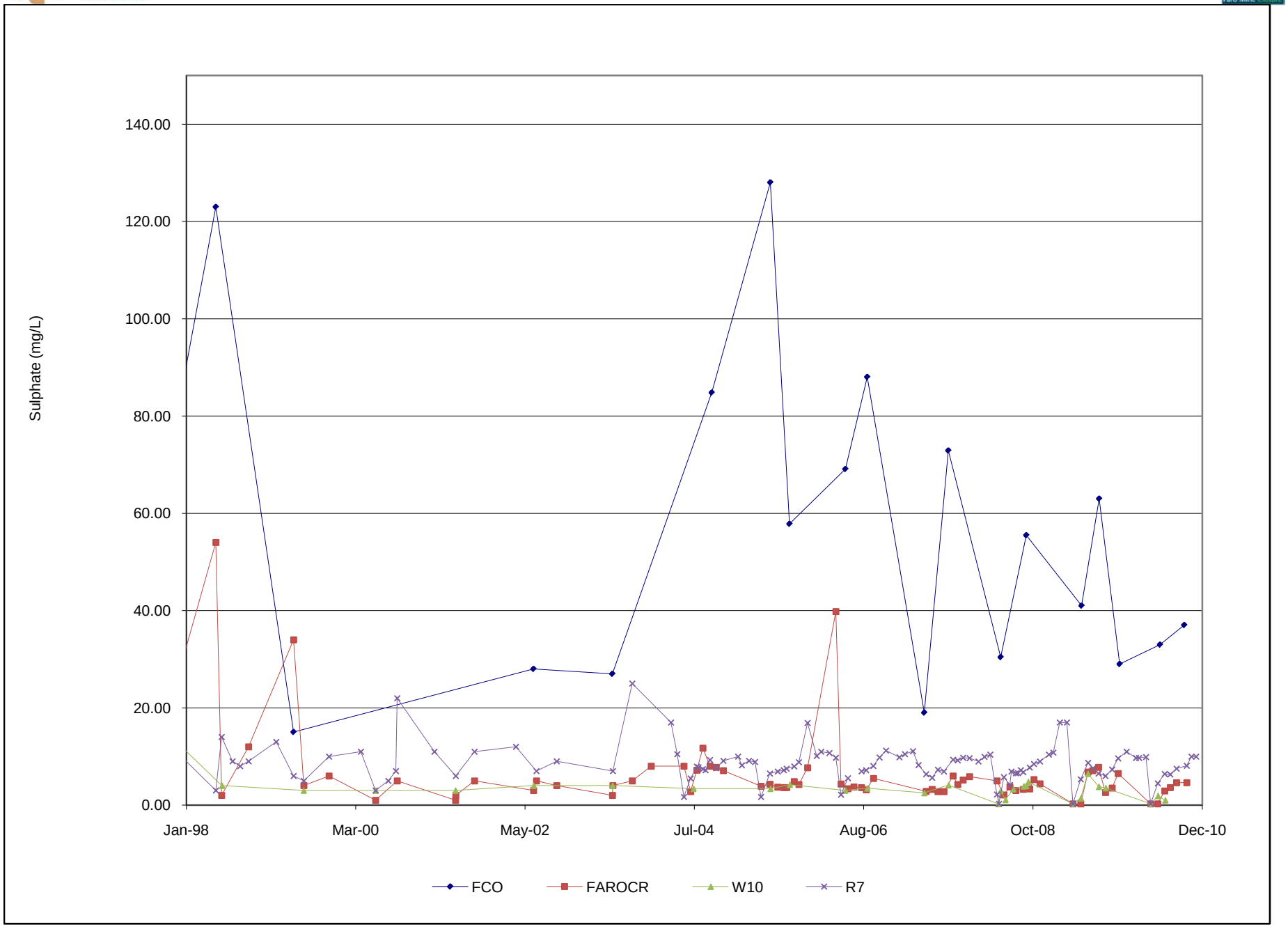

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Figure C-2: Total Zinc at FCO, FAROCR, W10 and R7

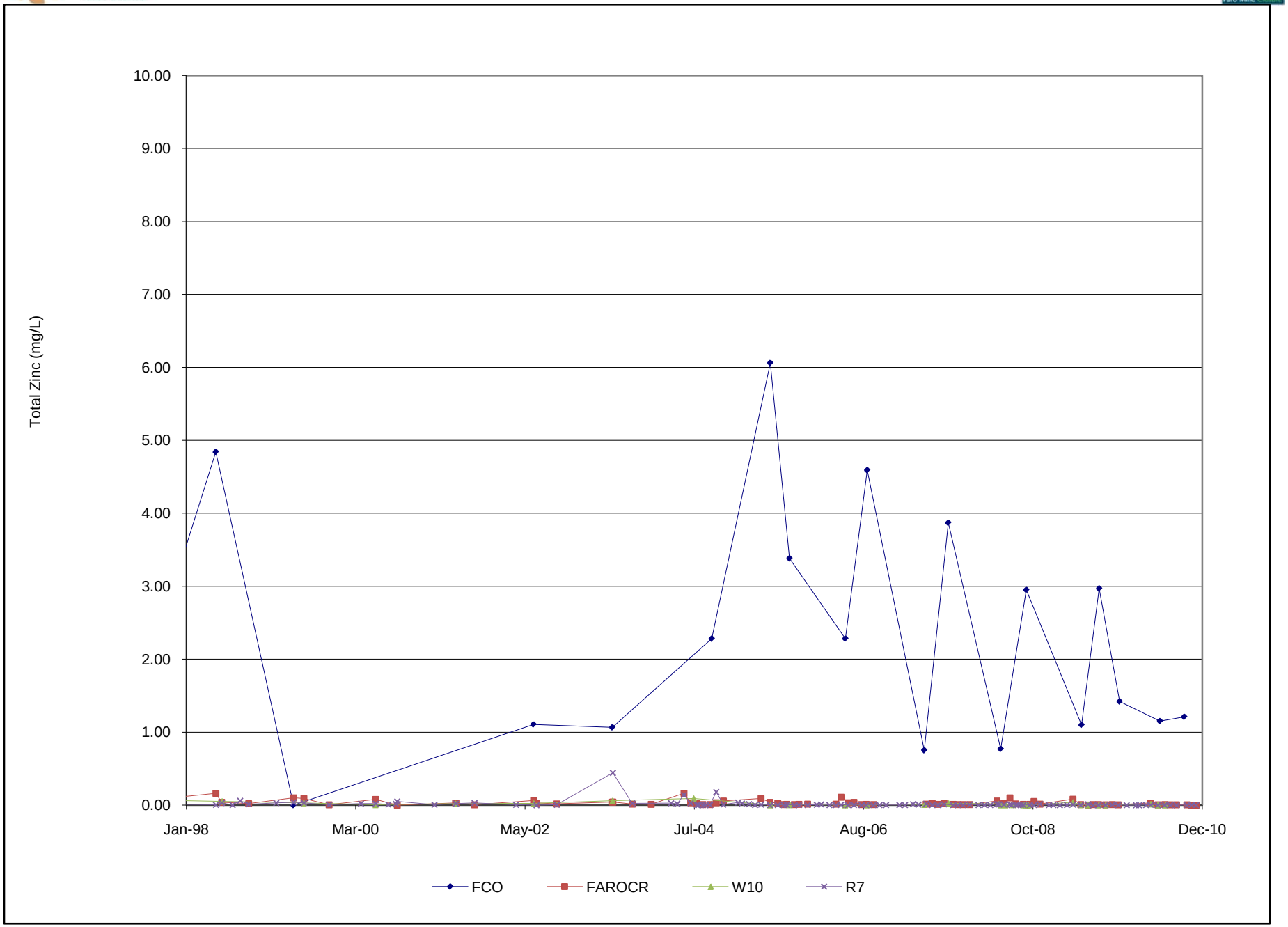

Figure C-3: Total Copper at FCO, FAROCR, W10 and R7

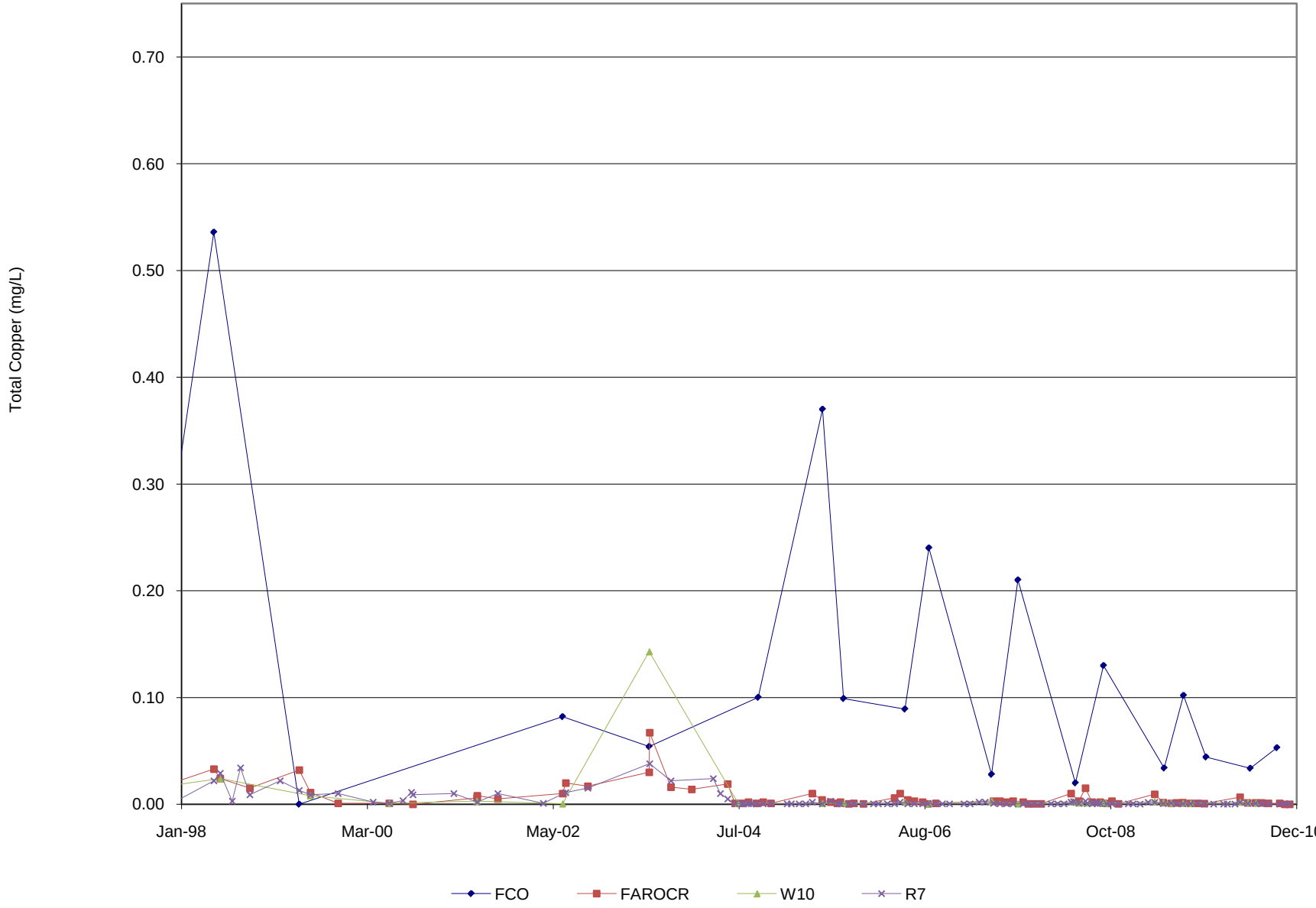

Figure C-4: Total Cadmium at FCO, FAROCR, W10 and R7

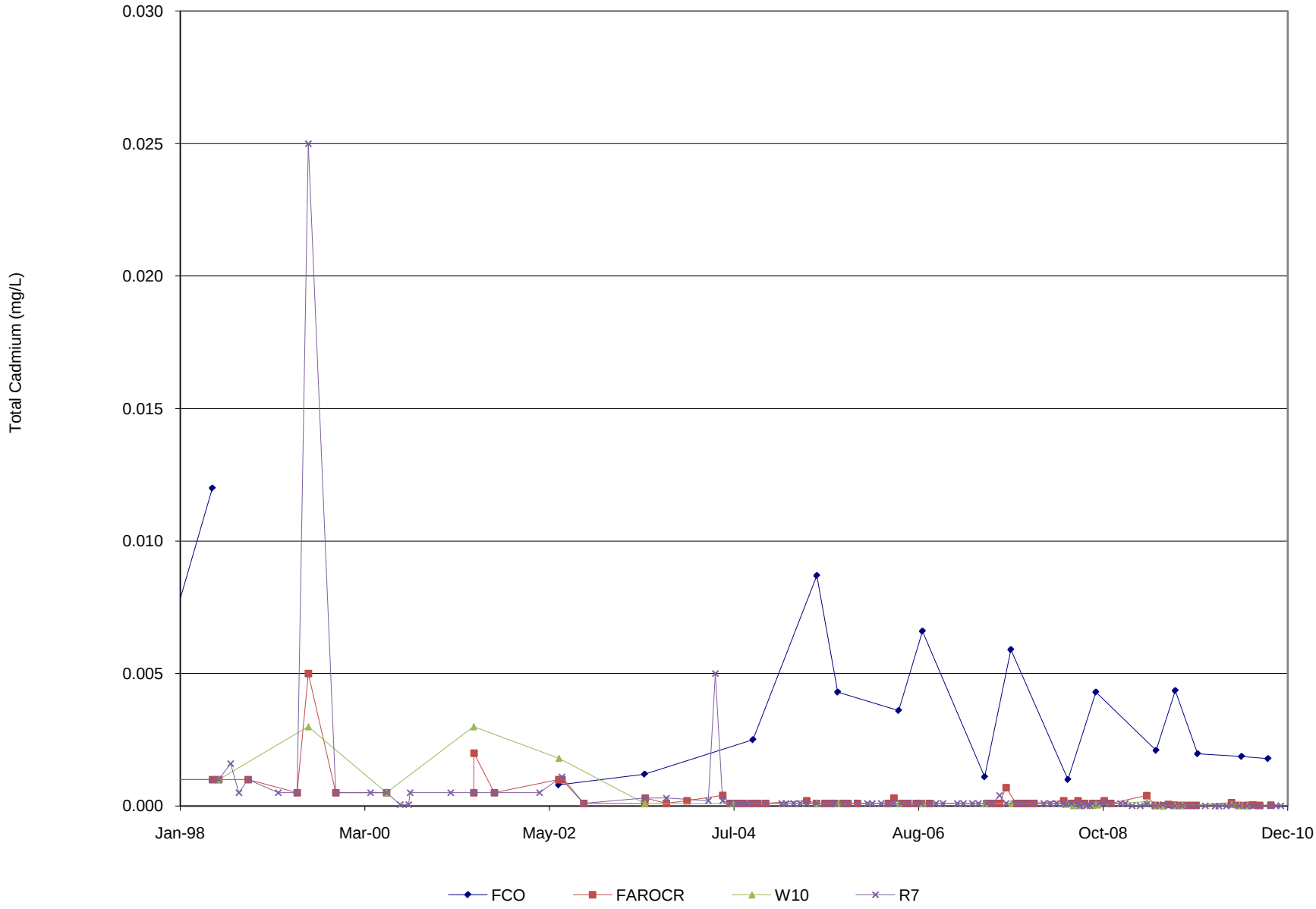

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Figure C-5: Faro Pit Zinc (Total and Dissolved)

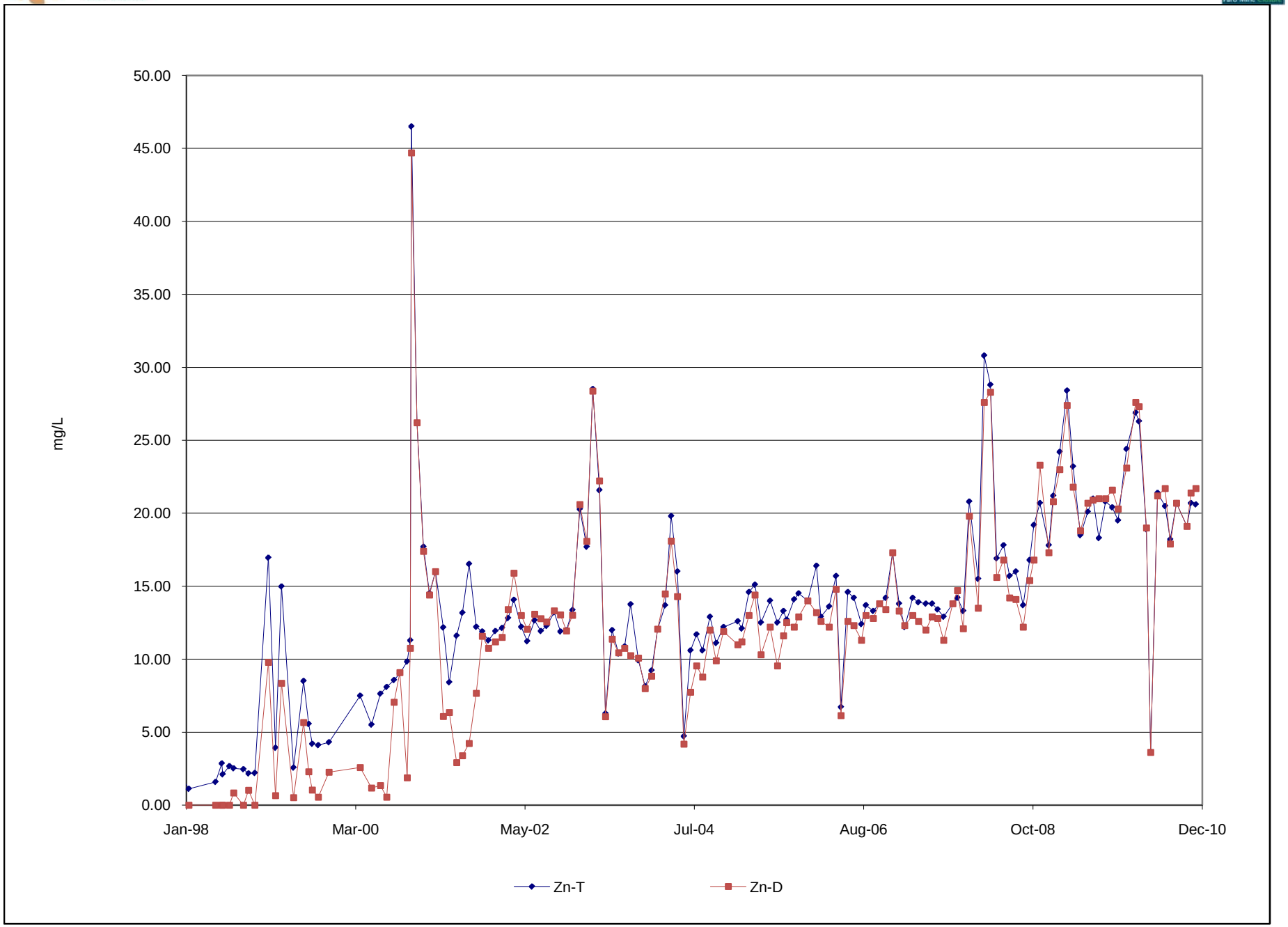

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Figure C-6: Sulphate at the Faro Pit, Faro Pit Seeps, Zone II Pit and S-Wells Trench Interception

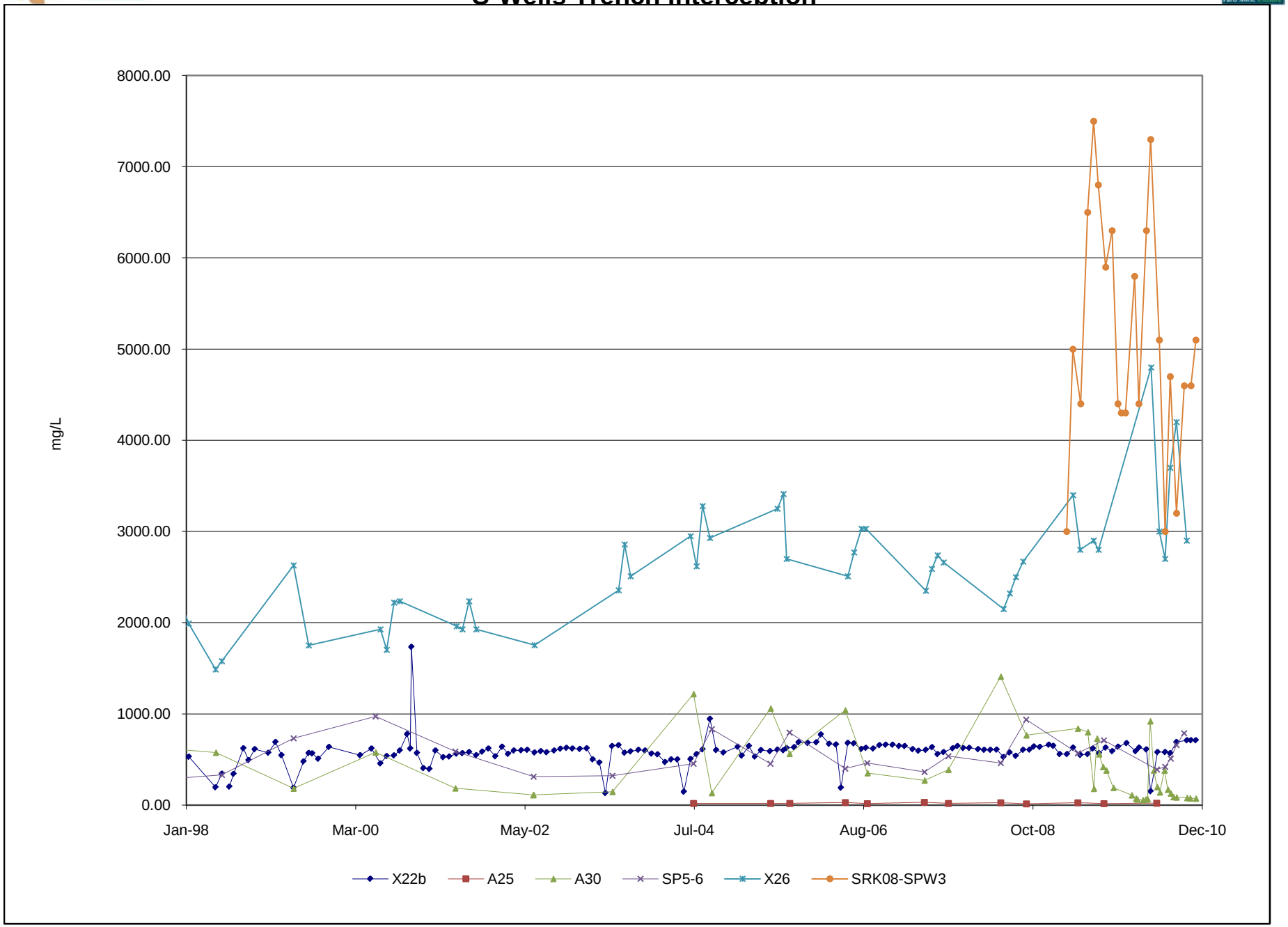

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Figure C-7: Faro Pit Lead (Total and Dissolved)

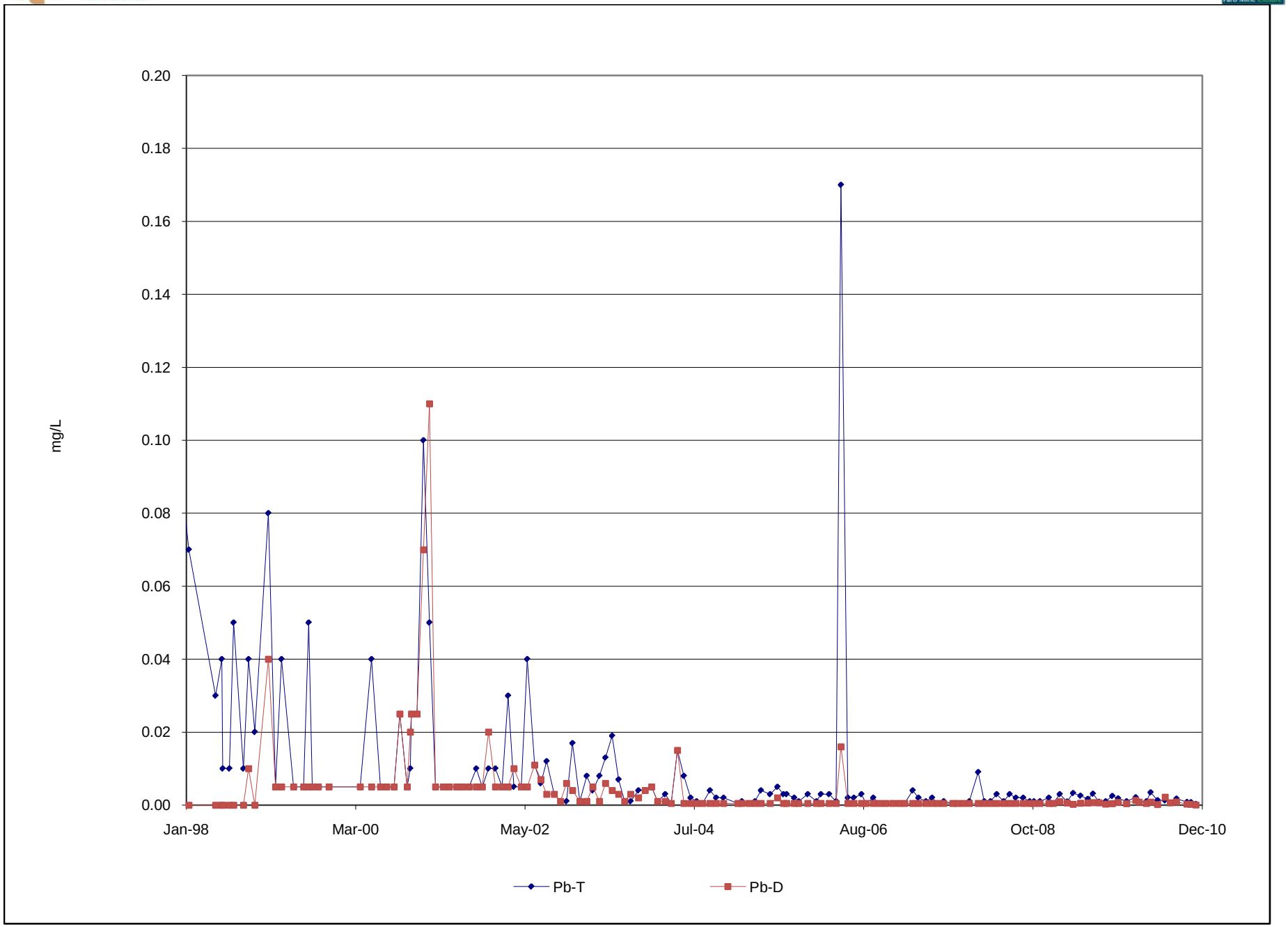

Figure C-8: Faro Pit Cadmium (Total and Dissolved)

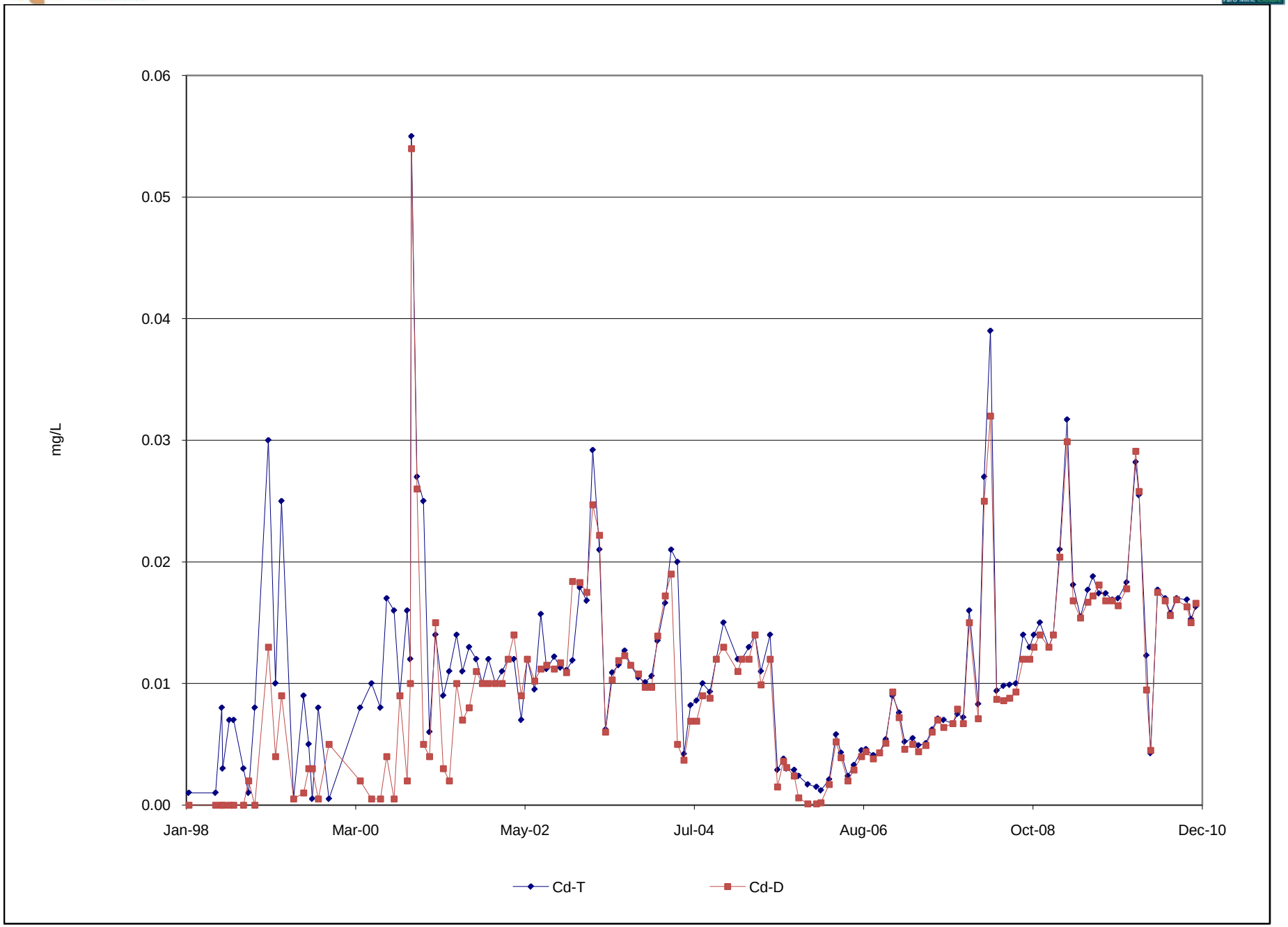

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Figure C-9: Zinc (Dissolved) at the Faro Pit, Faro Pit Seeps, Zone II Pit and S-Wells Trench Interception

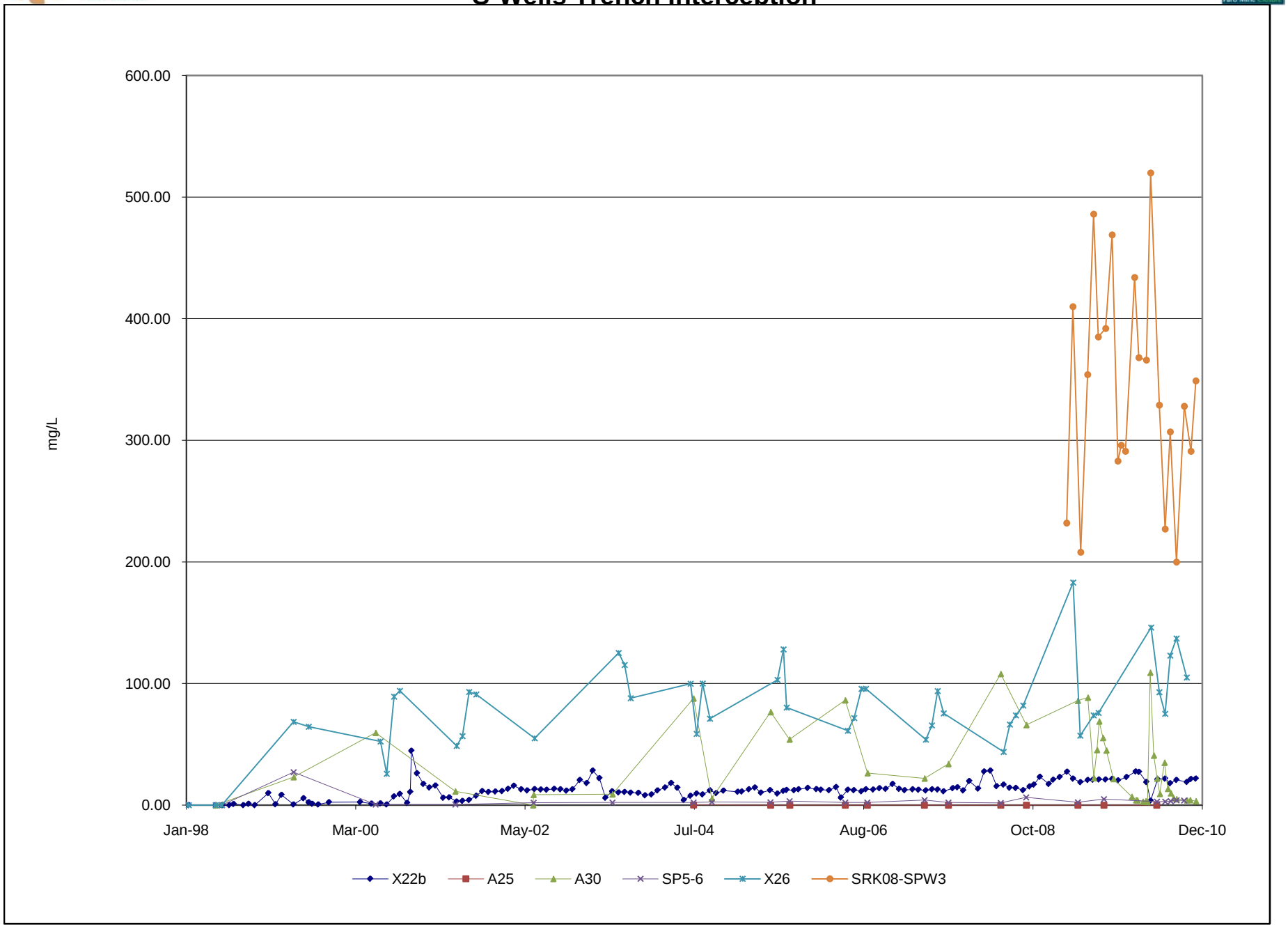

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Figure C-10: Lead (Dissolved) at the Faro Pit, Faro Pit Seeps, Zone II Pit and S-Wells Trench Interception

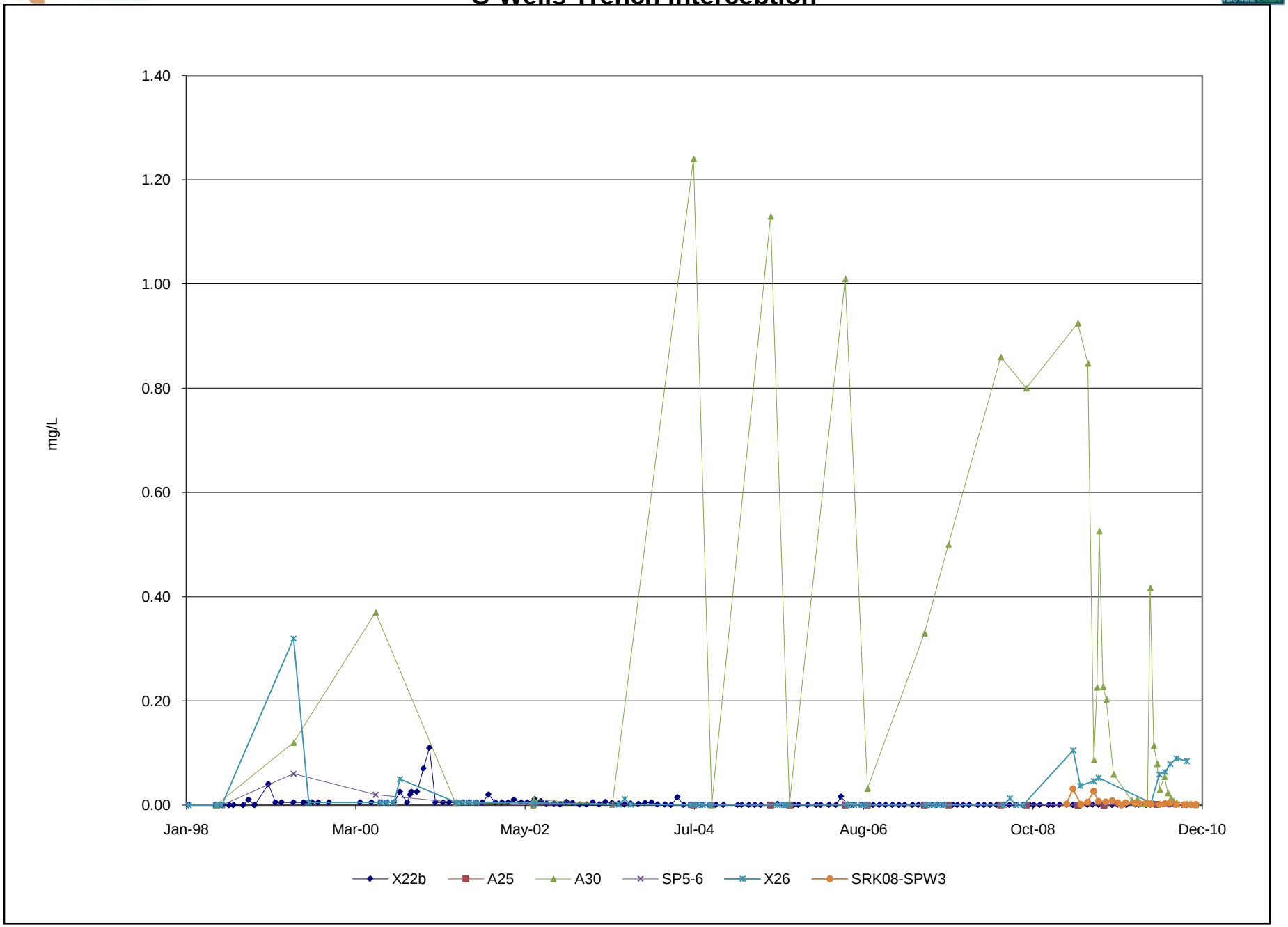

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Figure C-11: Cadmium (Dissolved) at the Faro Pit, Faro Pit Seeps, Zone II Pit and S-Wells Trench Interception

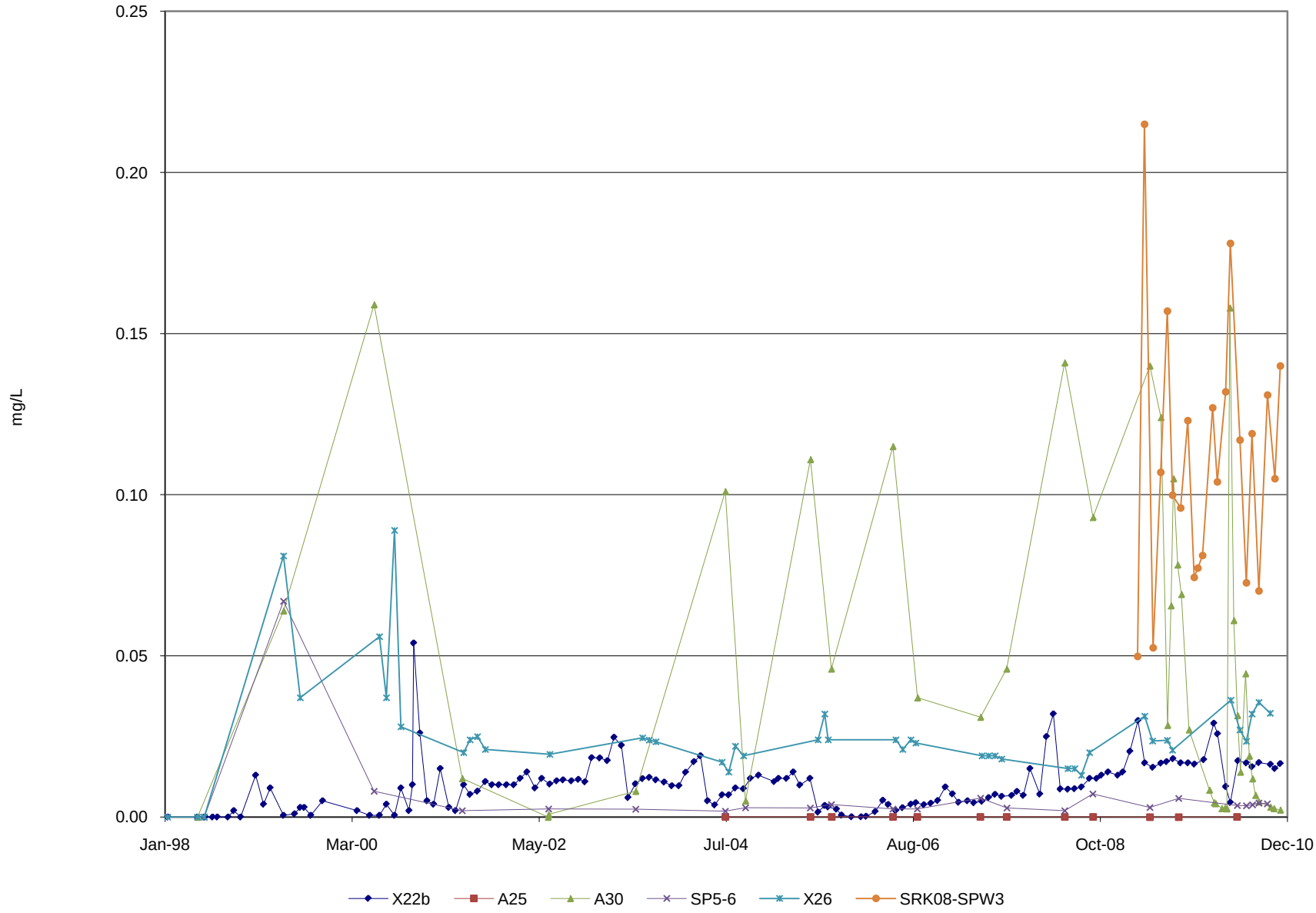

Figure C-12: Sulphate at NE1, NE2, NE3 and W5

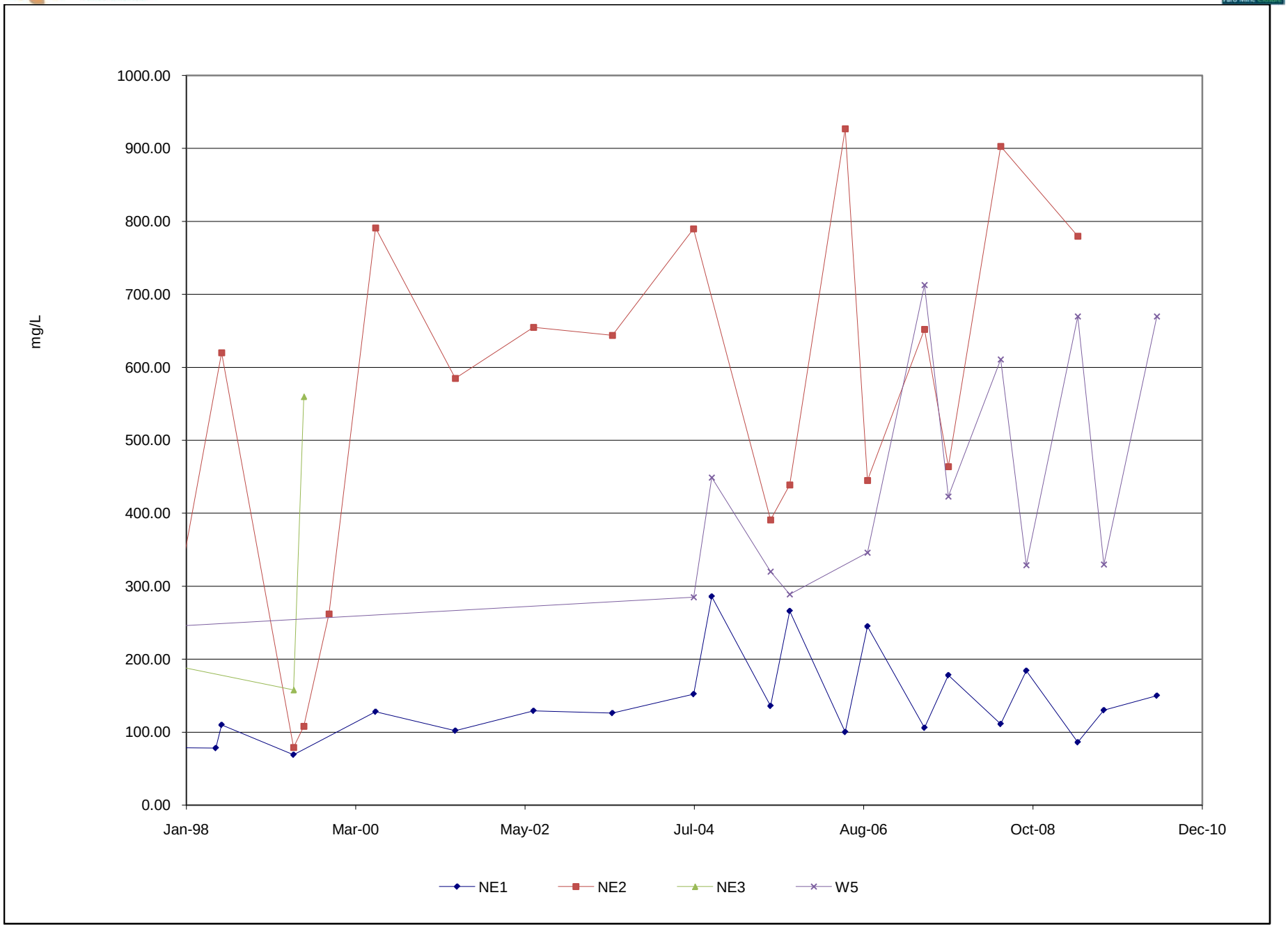

Figure C-13: Zinc (Dissolved) at NE1, NE2, NE3 and W5

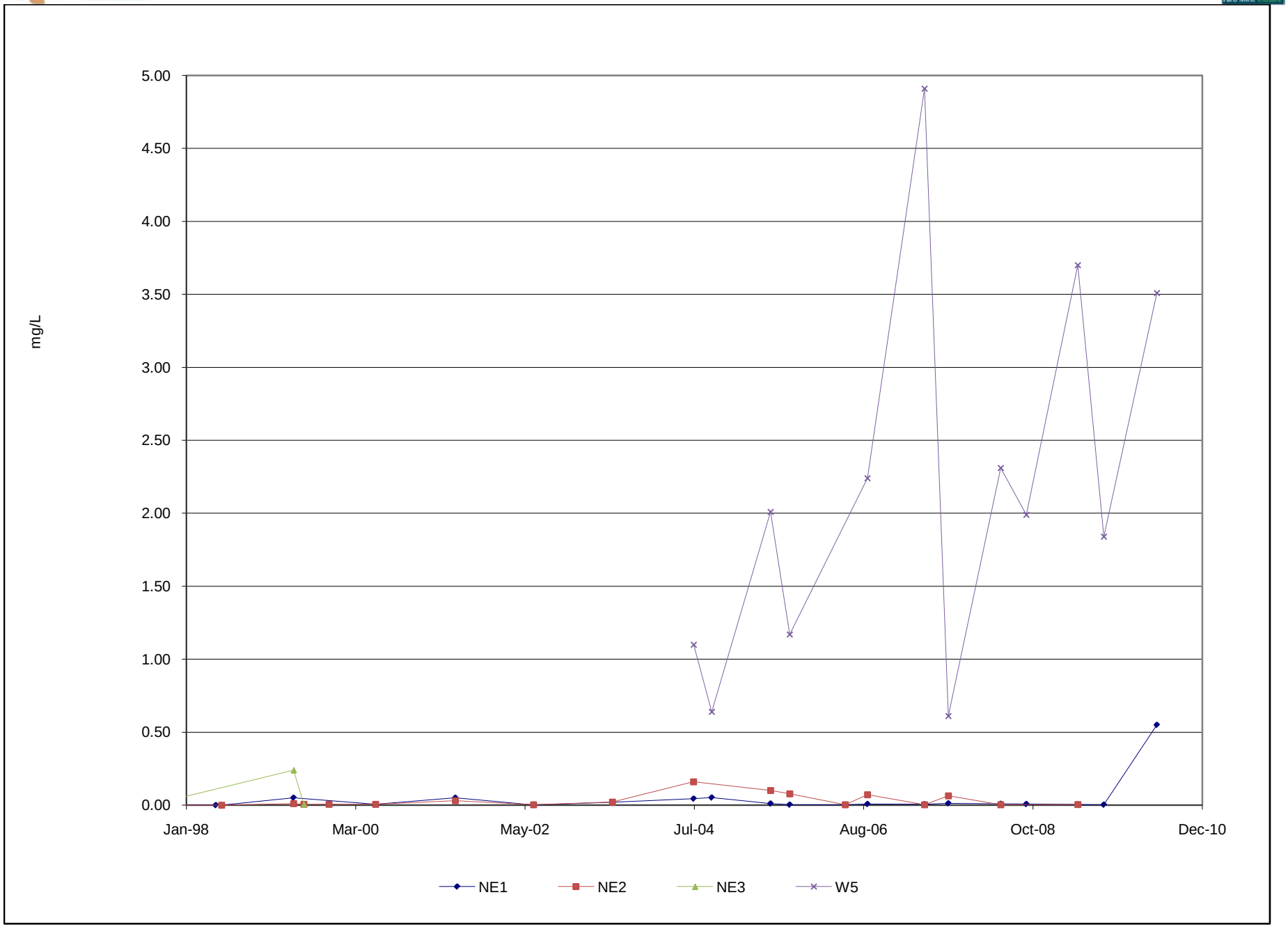

Figure C-14: Iron (Dissolved) at NE1, NE2, NE3 and W5

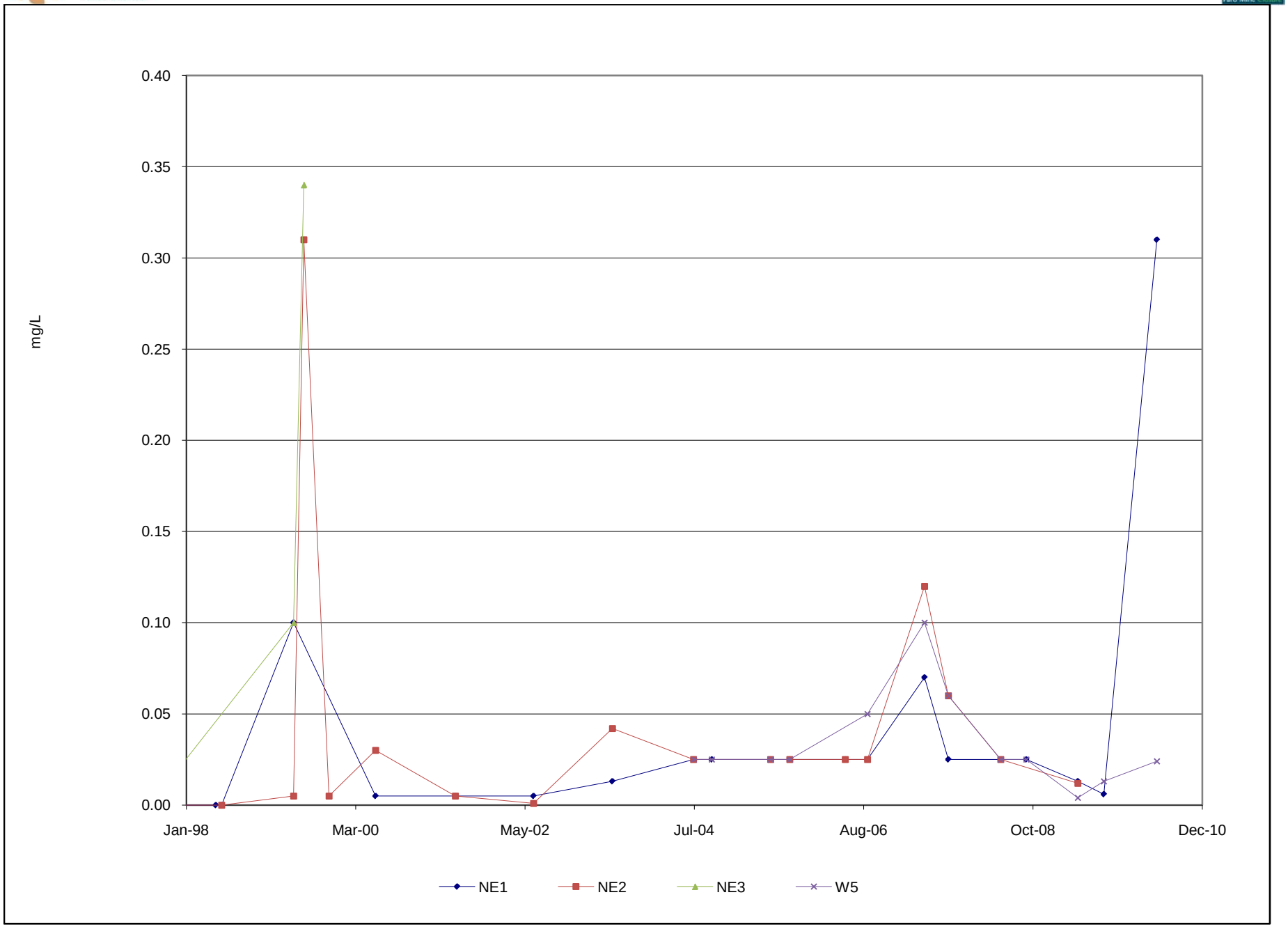

Figure C-15: Lead (Dissolved) at NE1, NE2, NE3 and W5

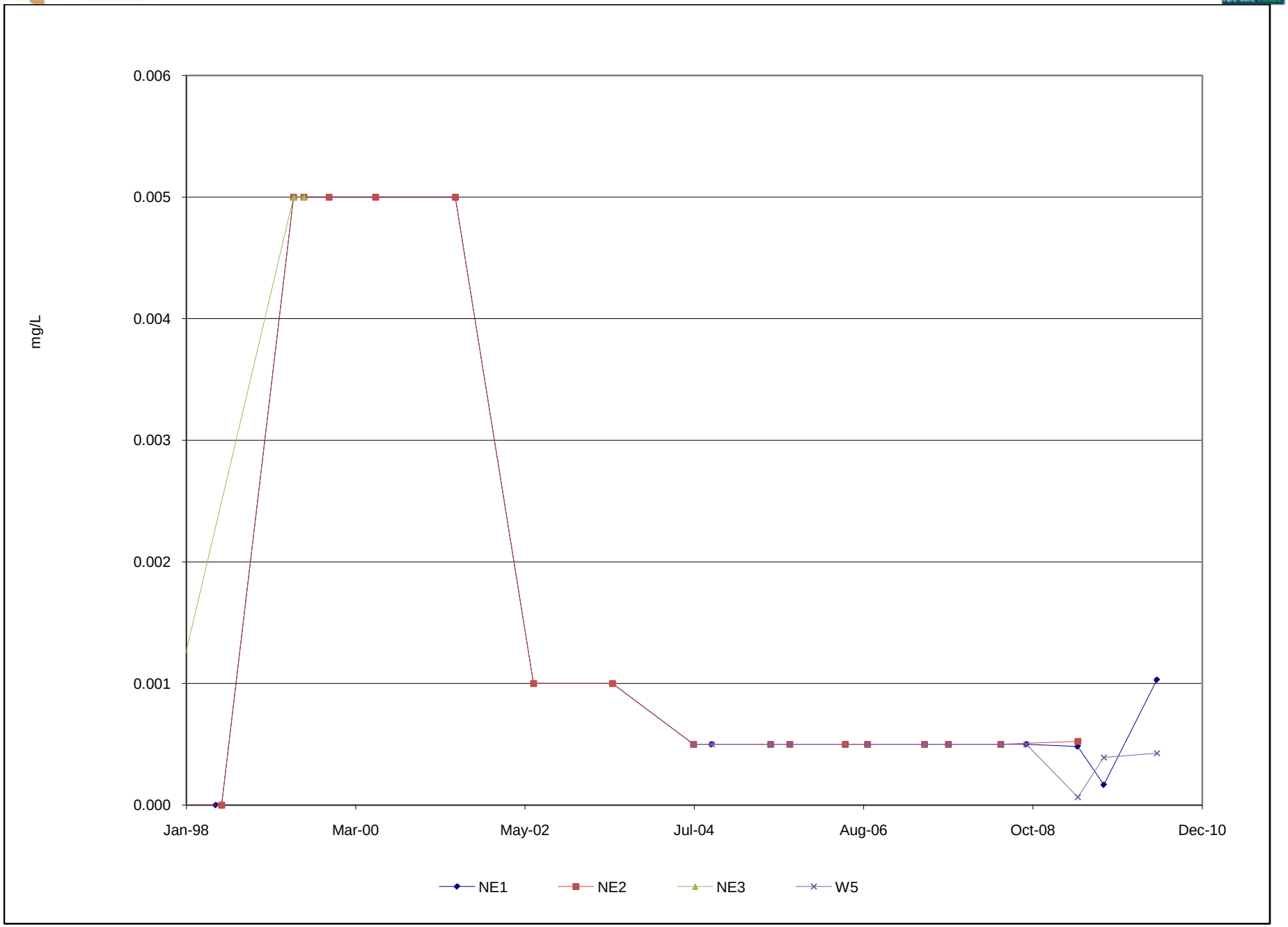

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Figure C-16: Sulphate in the North Fork of Rose Creek, Upstream of the Rock Drain

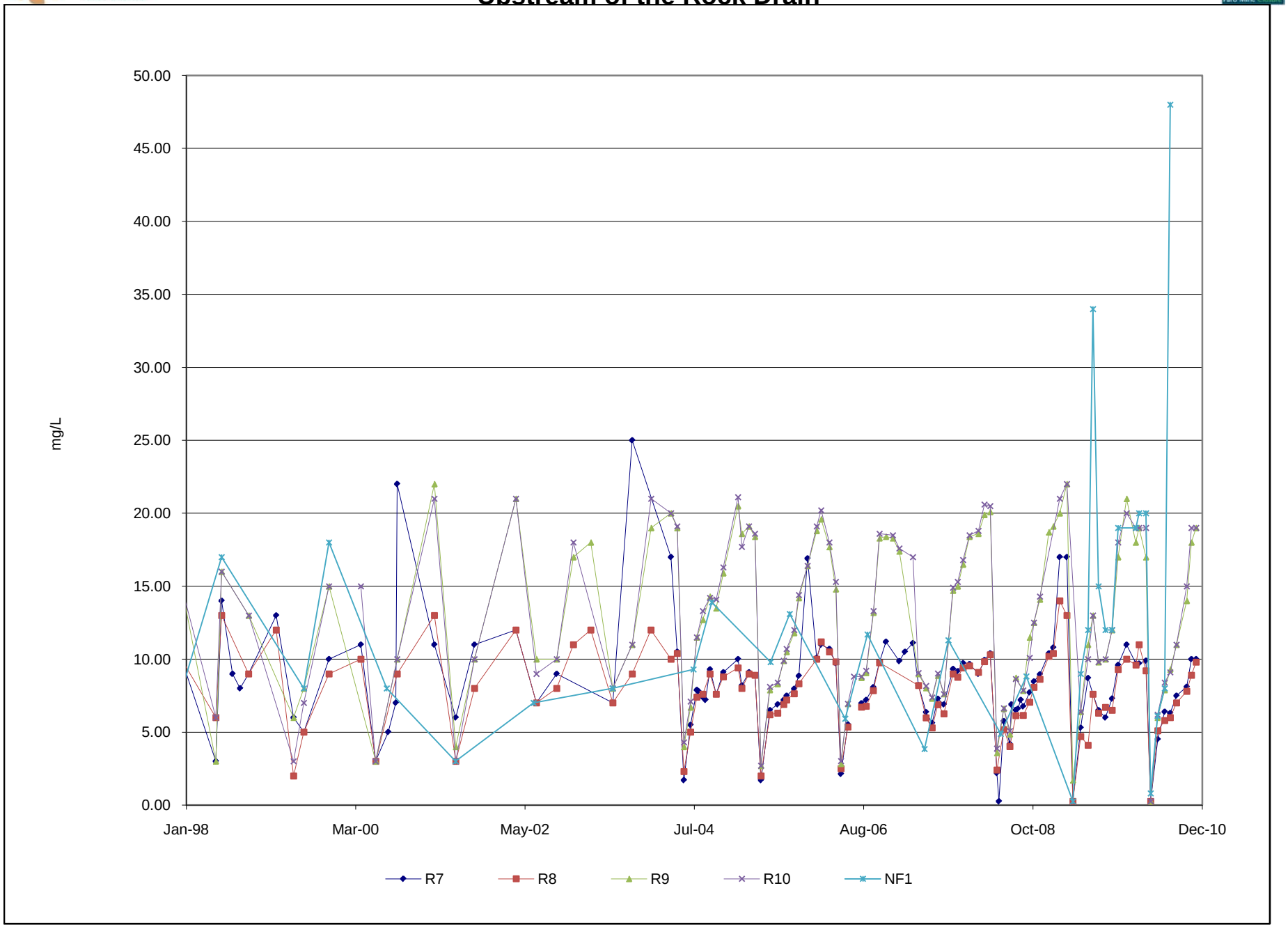

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Figure C-17: Zinc (Total) in the North Fork of Rose Creek, Upstream of the Rock Drain

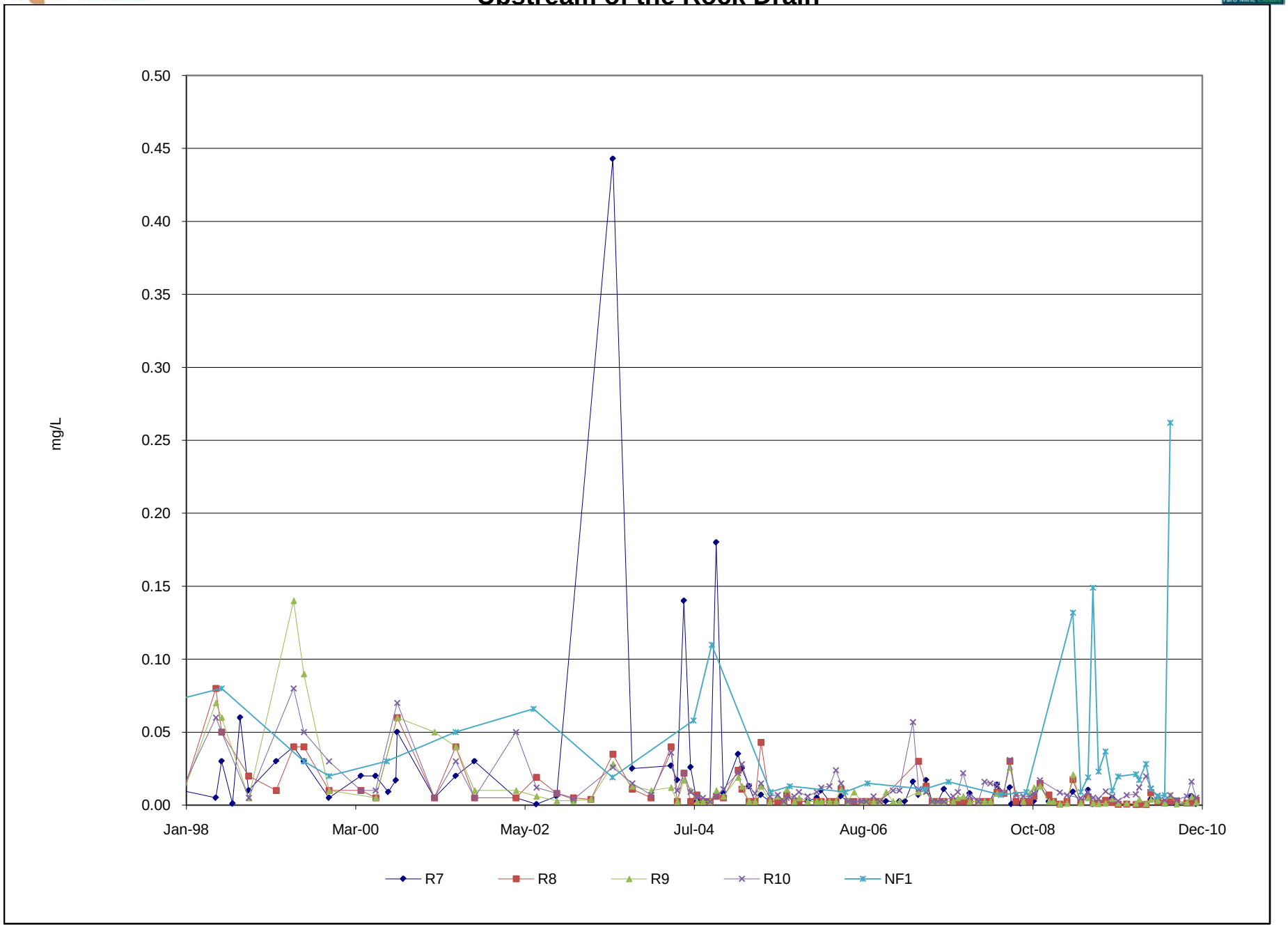

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Figure C-18: Iron (Total) in the North Fork of Rose Creek, Upstream of the Rock Drain

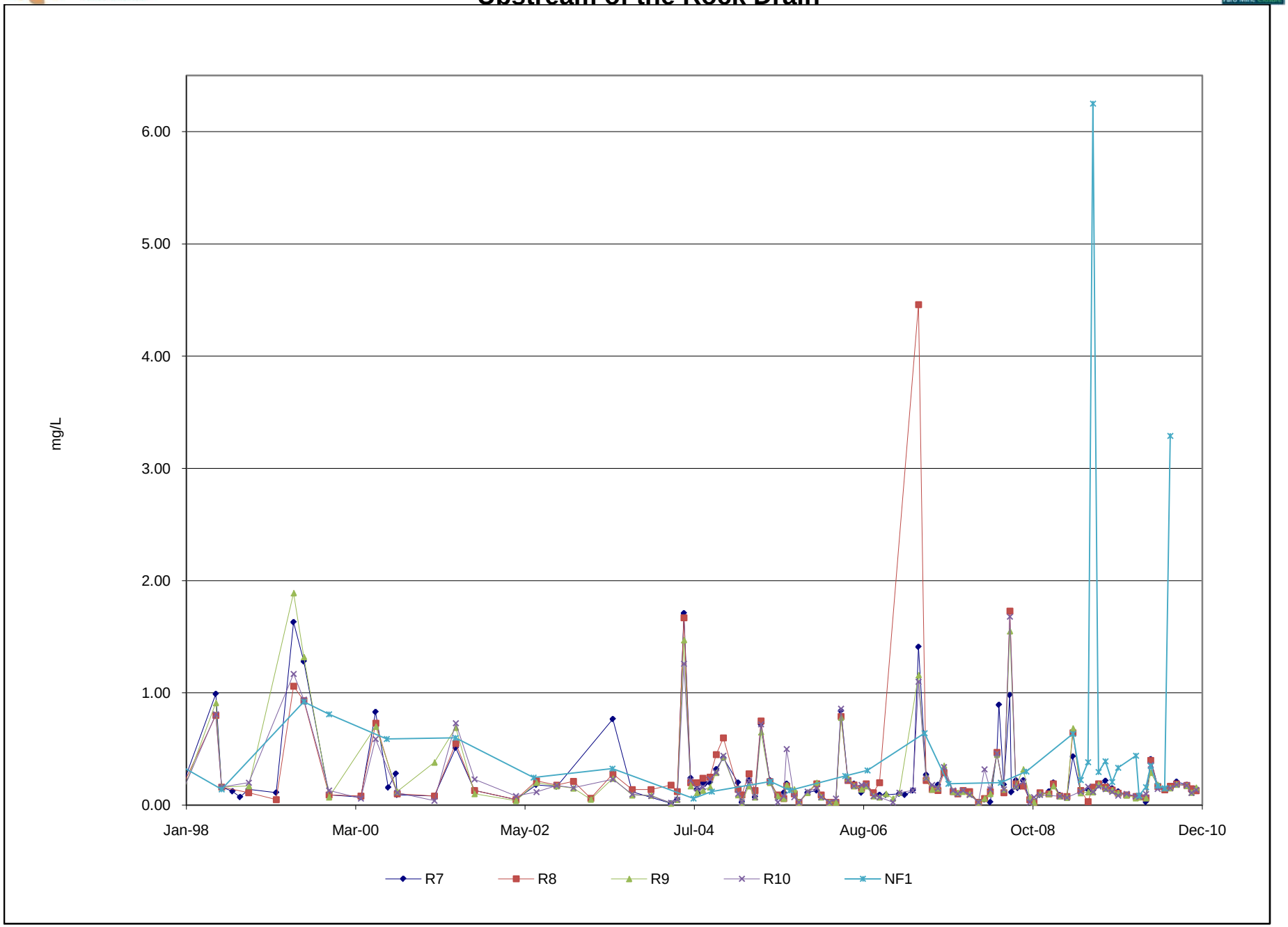

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Figure C-19: Lead (Total) in the North Fork of Rose Creek, Upstream of the Rock Drain

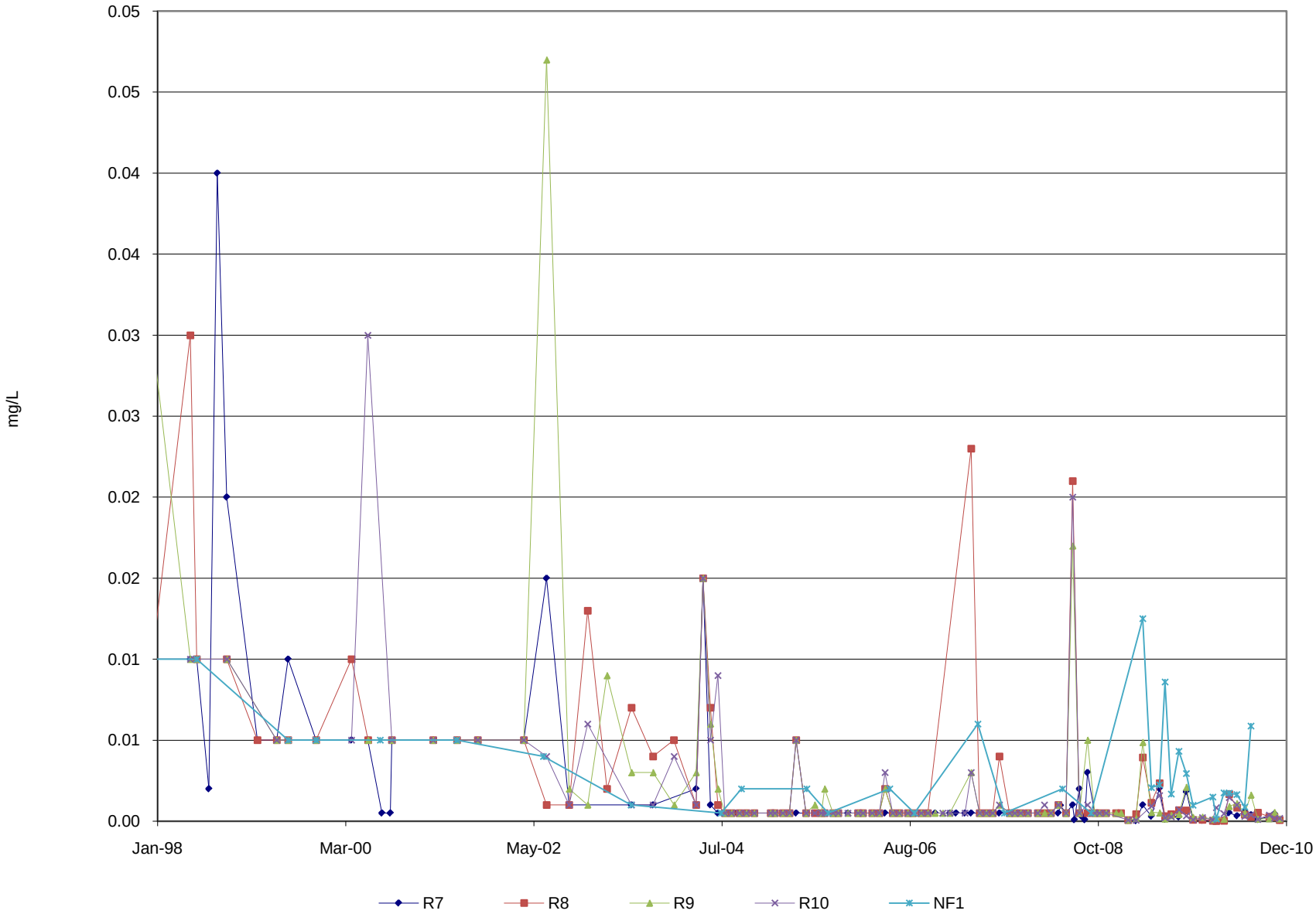

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Figure C-20: Sulphate in the North Fork of Rose Creek, Upstream and Downstream of the Rock Drain

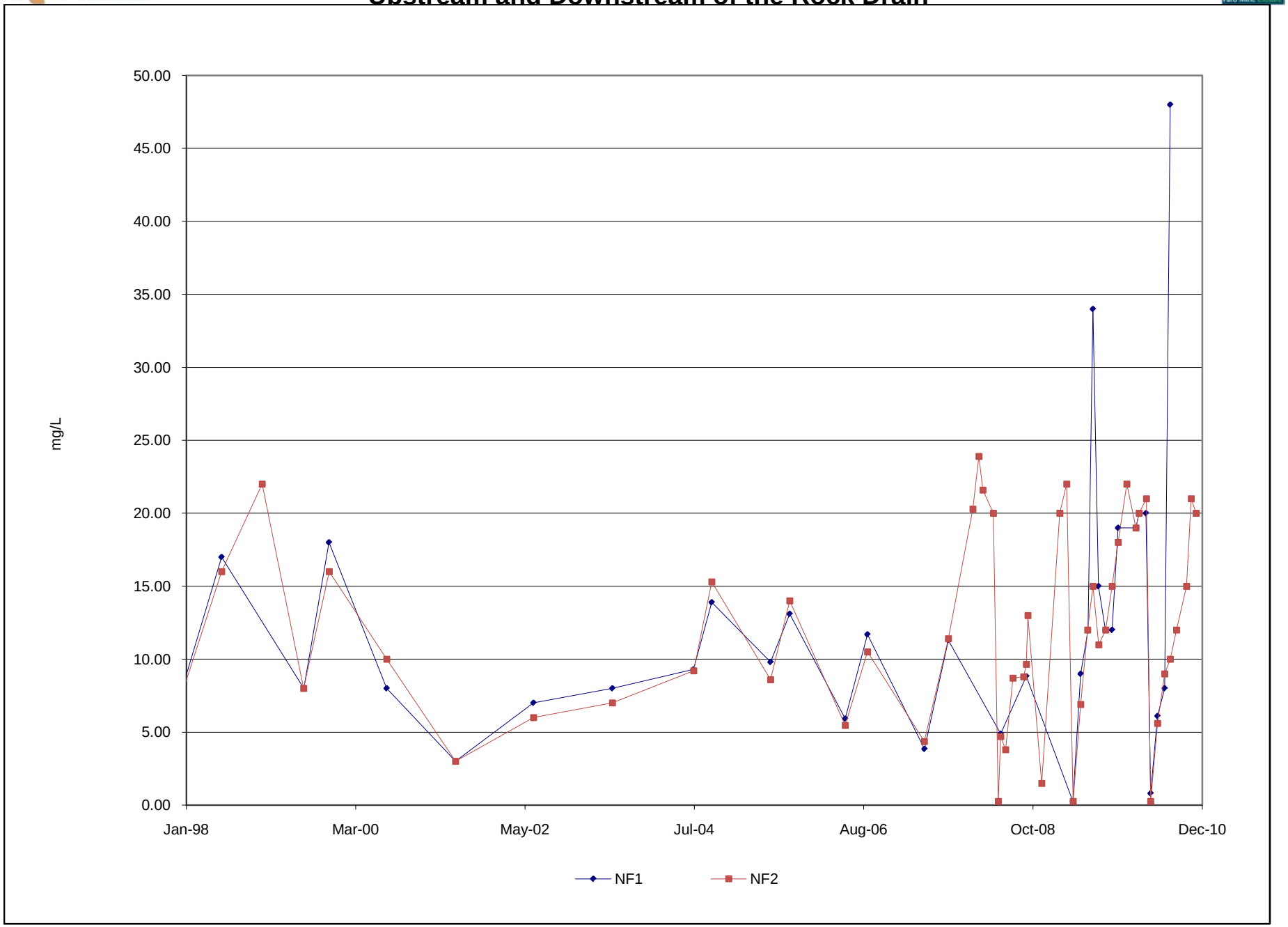

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Figure C-21: Zinc (Total) in the North Fork of Rose Creek, Upstream and Downstream of the Rock Drain

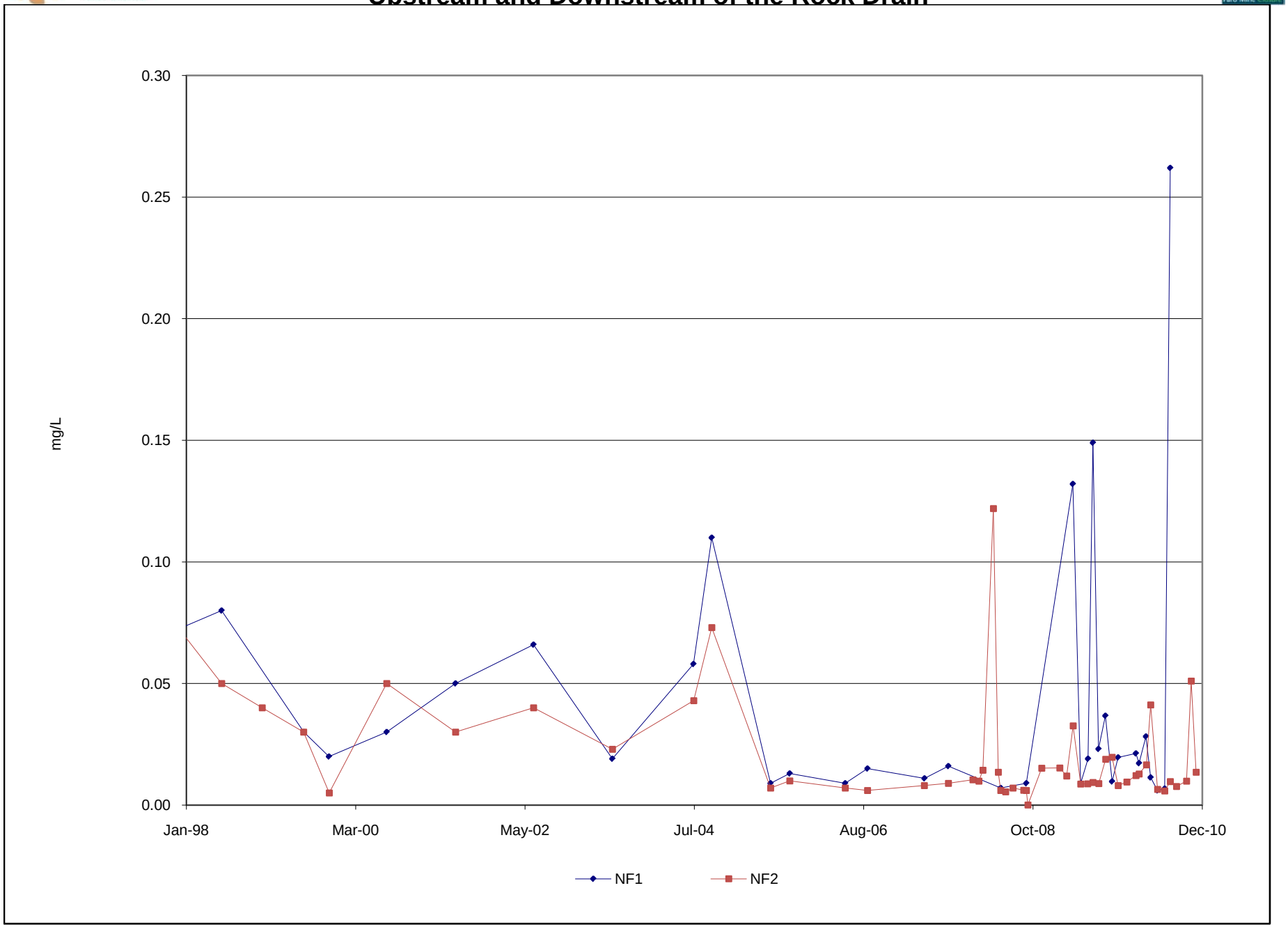

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Figure C-22: Sulphate in the North Fork of Rose Creek, Downstream of the Rock Drain and Along the S-Wells Reach

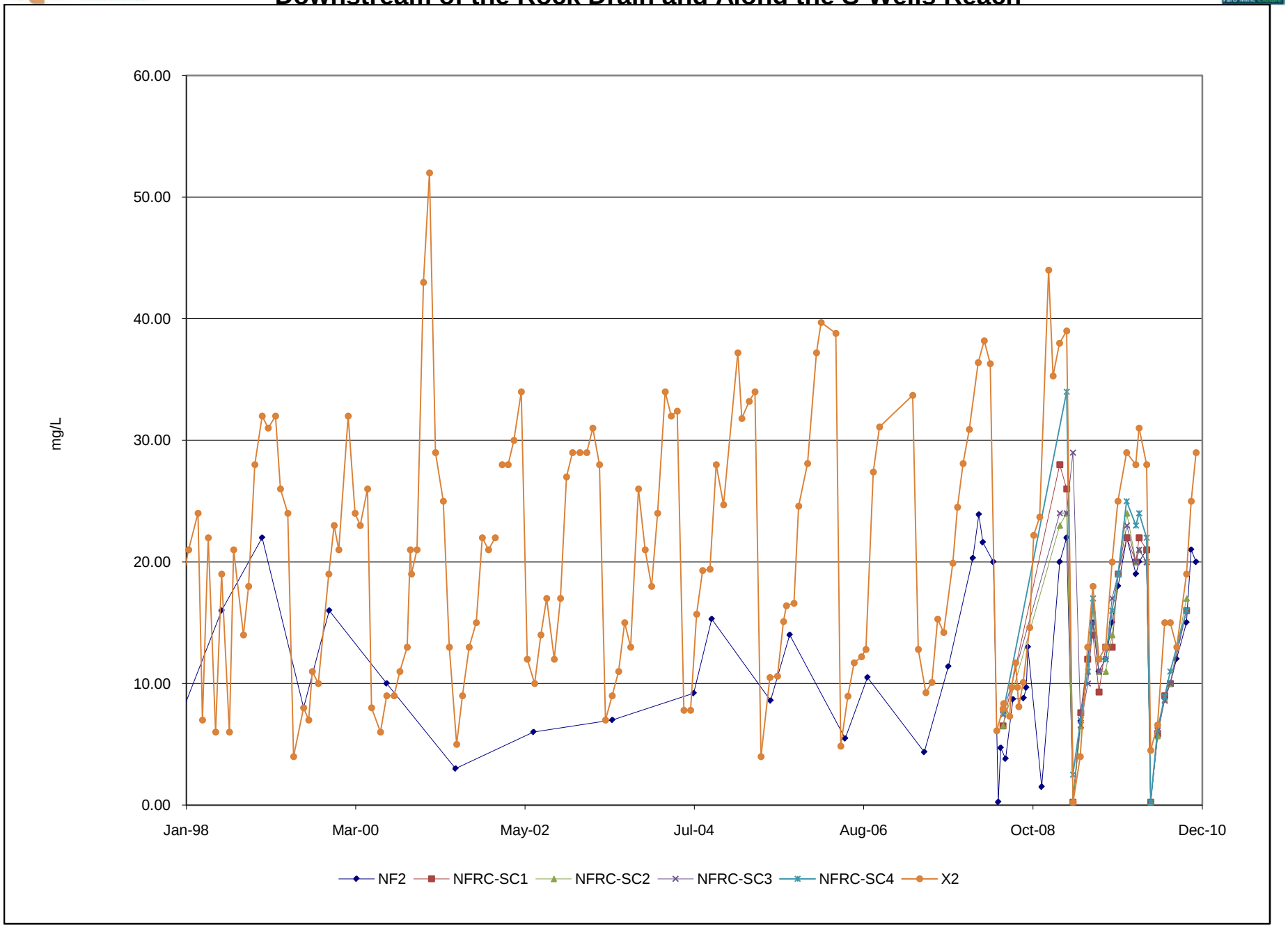

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Figure C-23: Zinc (Total) in the North Fork of Rose Creek, Downstream of the Rock Drain and Along the S-Wells Reach

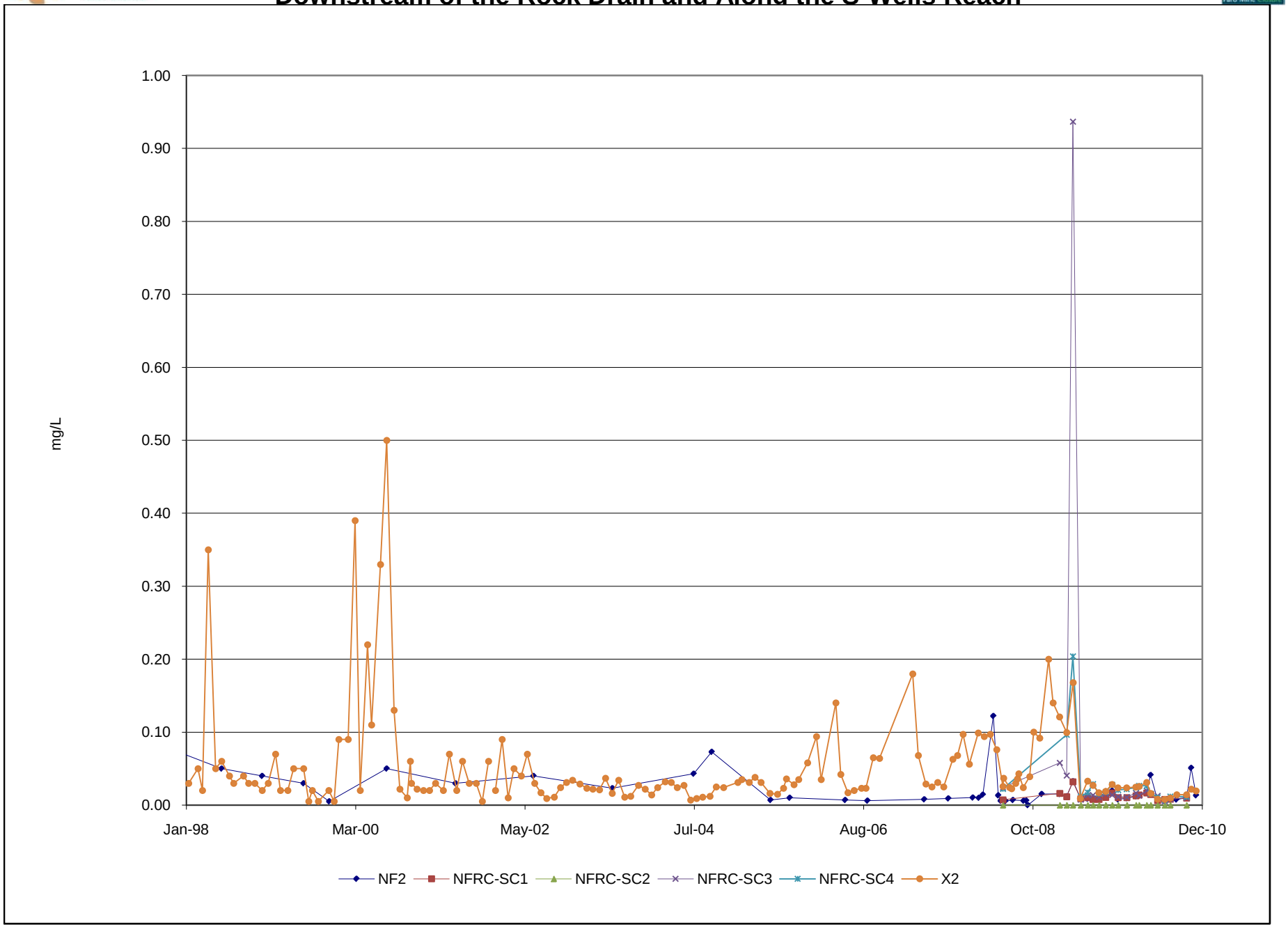

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Figure C-24: Lead (Total) in the North Fork of Rose Creek, Downstream of the Rock Drain and Along the S-Wells Reach

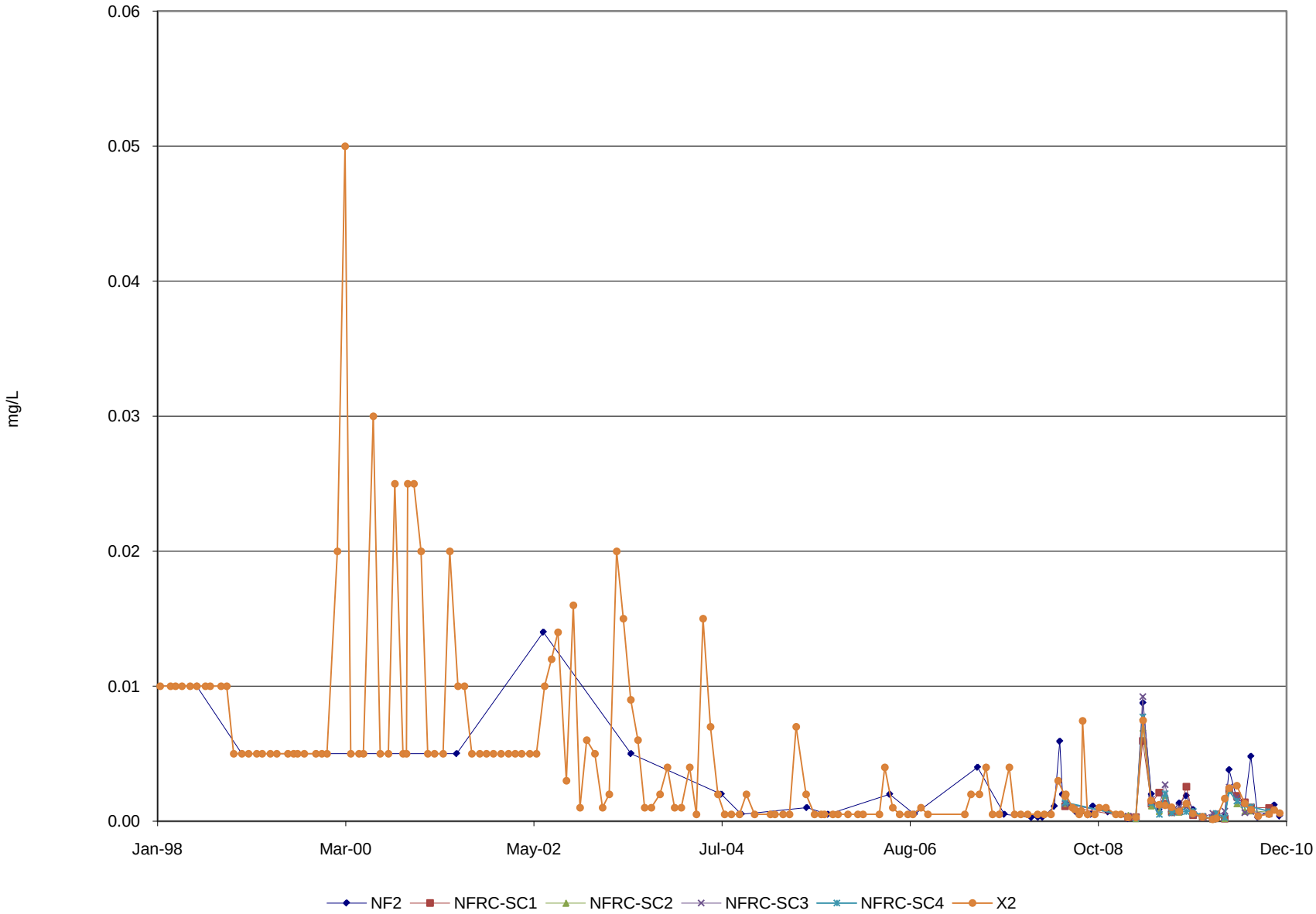

Figure C-25: Sulphate at Faro Dump Toe and ETA

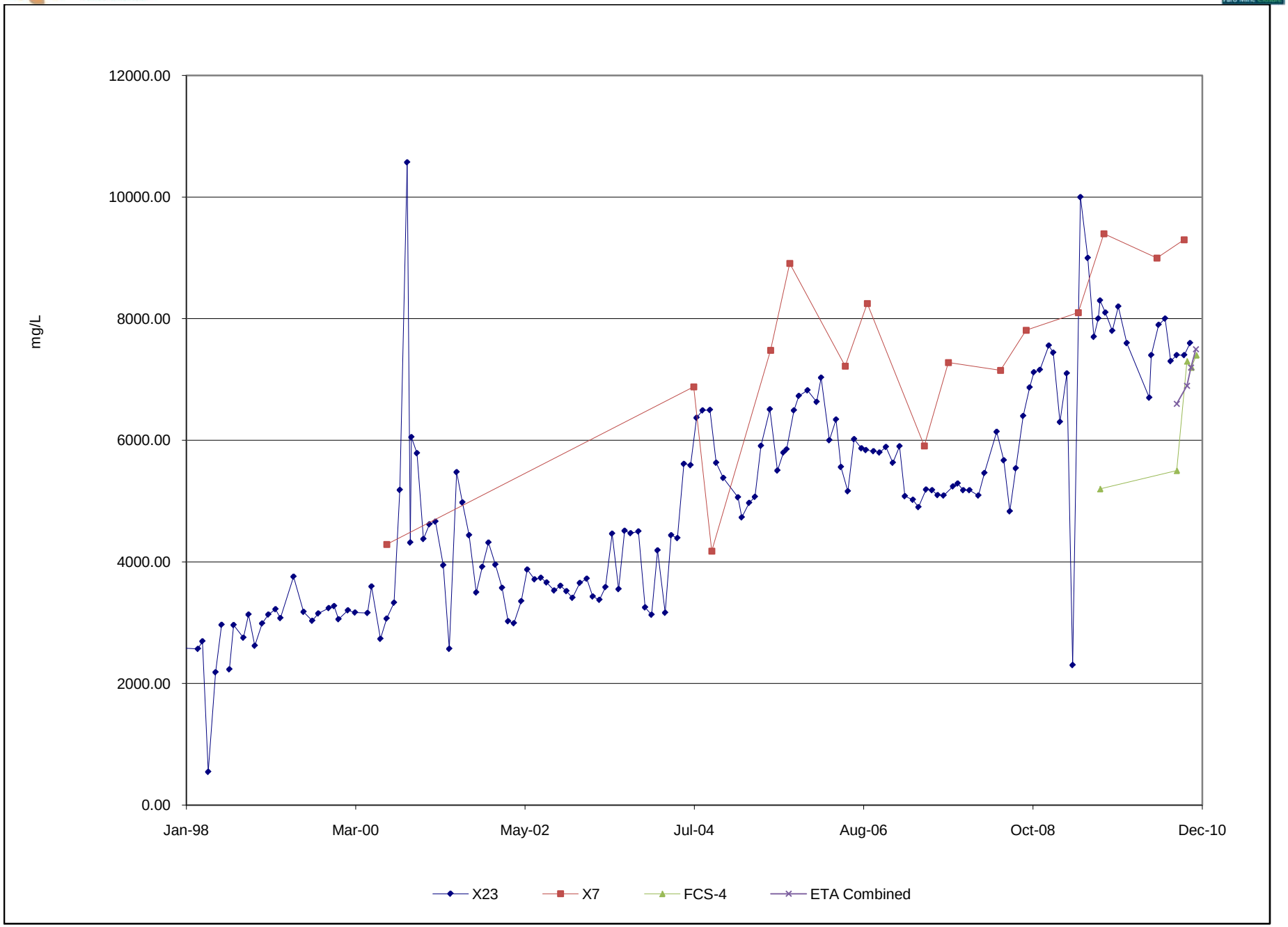

Figure C-26: Zinc at Faro Dump Toe and ETA

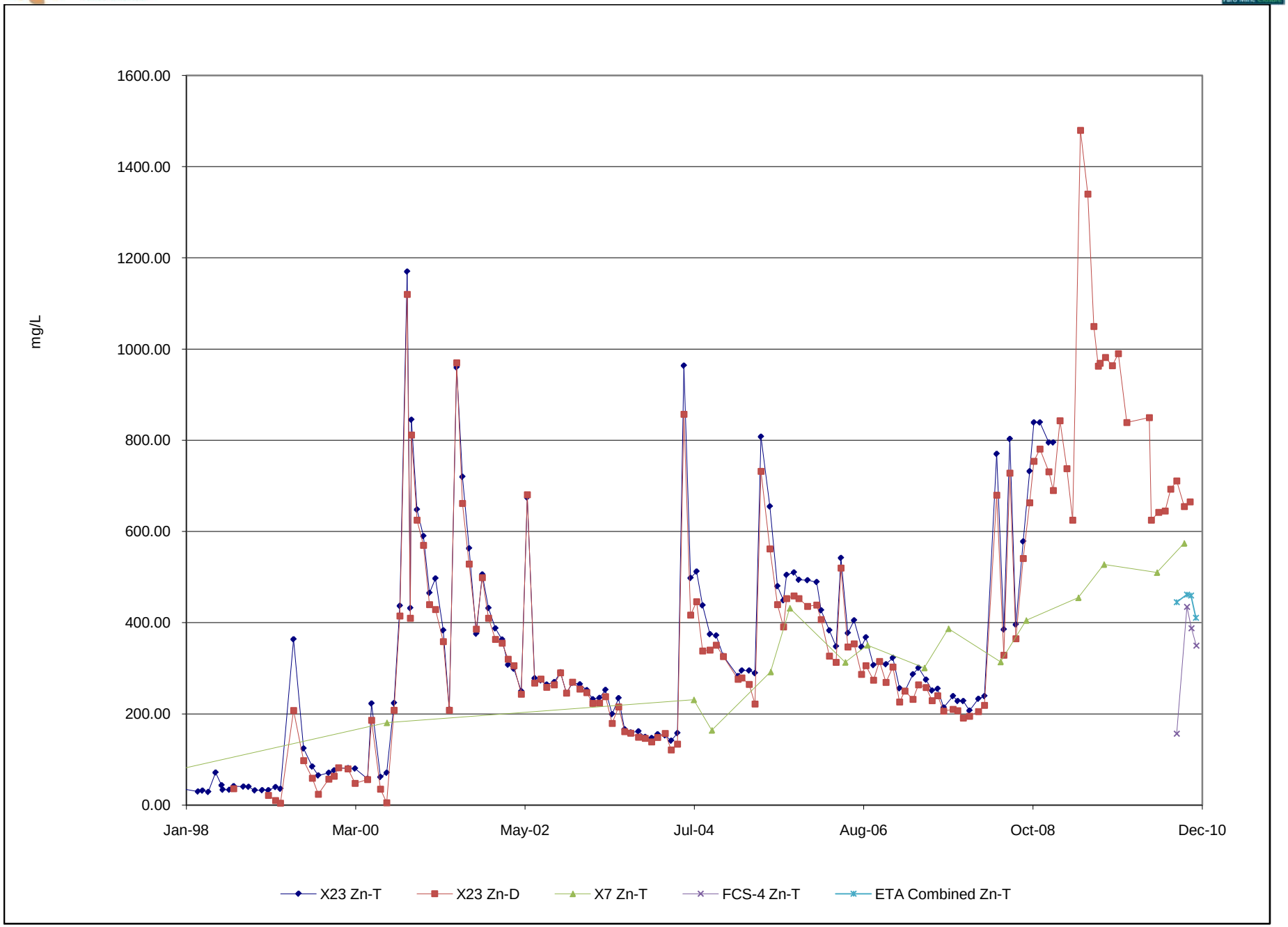

Figure C-27: Intermediate Pond pH

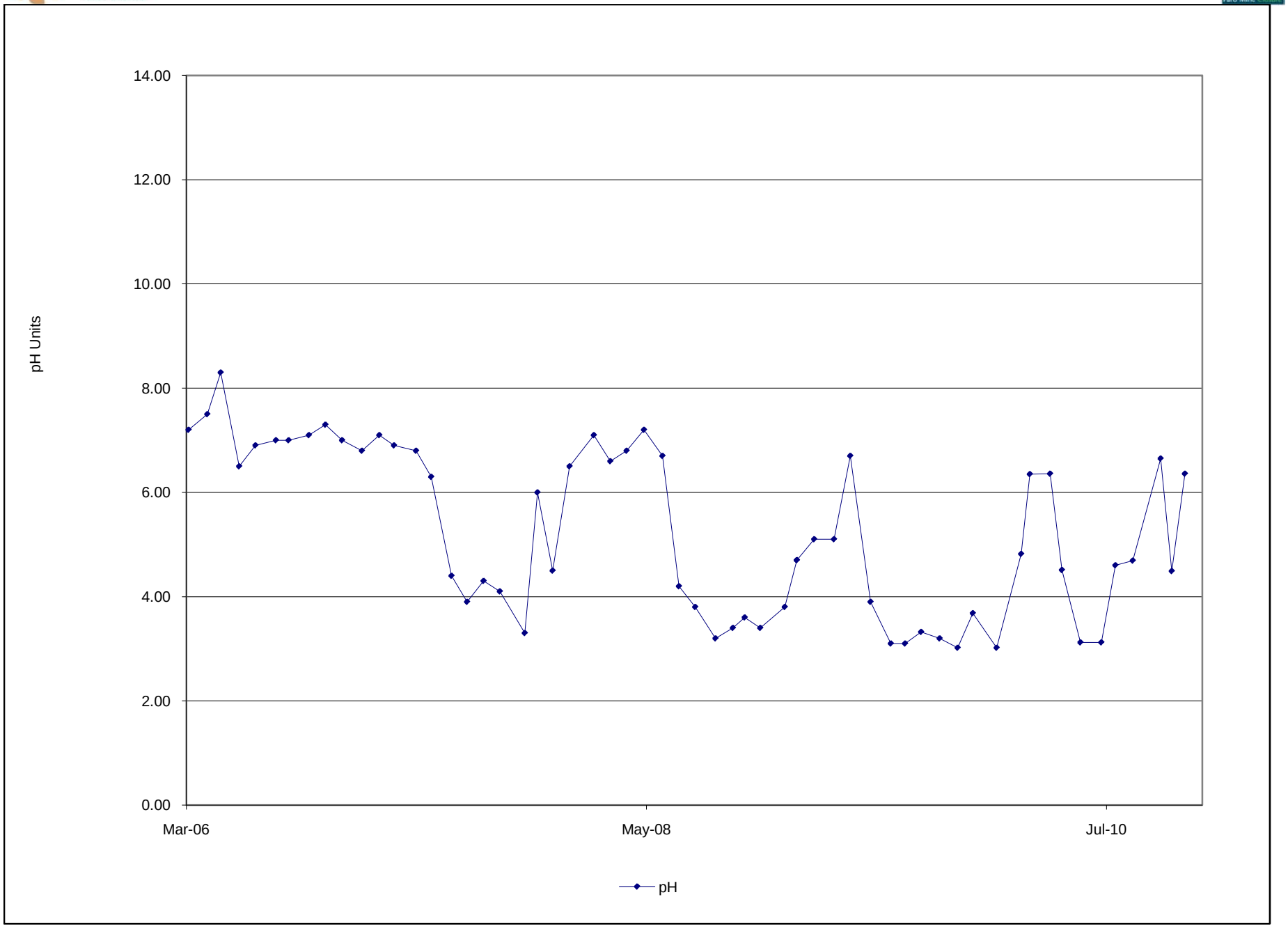

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Figure C-28: Zinc (Total and Dissolved) in the Intermediate Pond

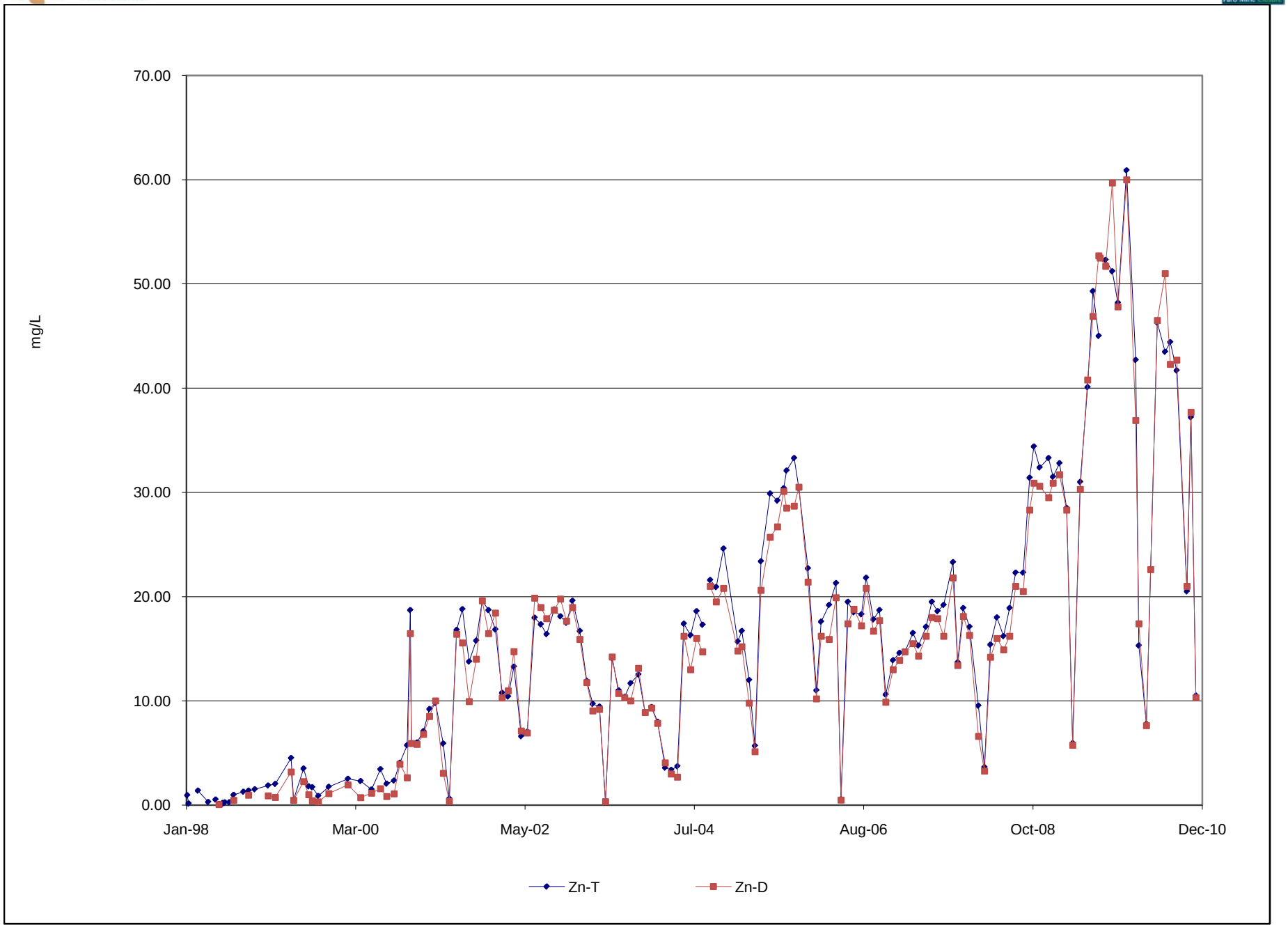

Figure C-29: Sulphate in the Intermediate Pond

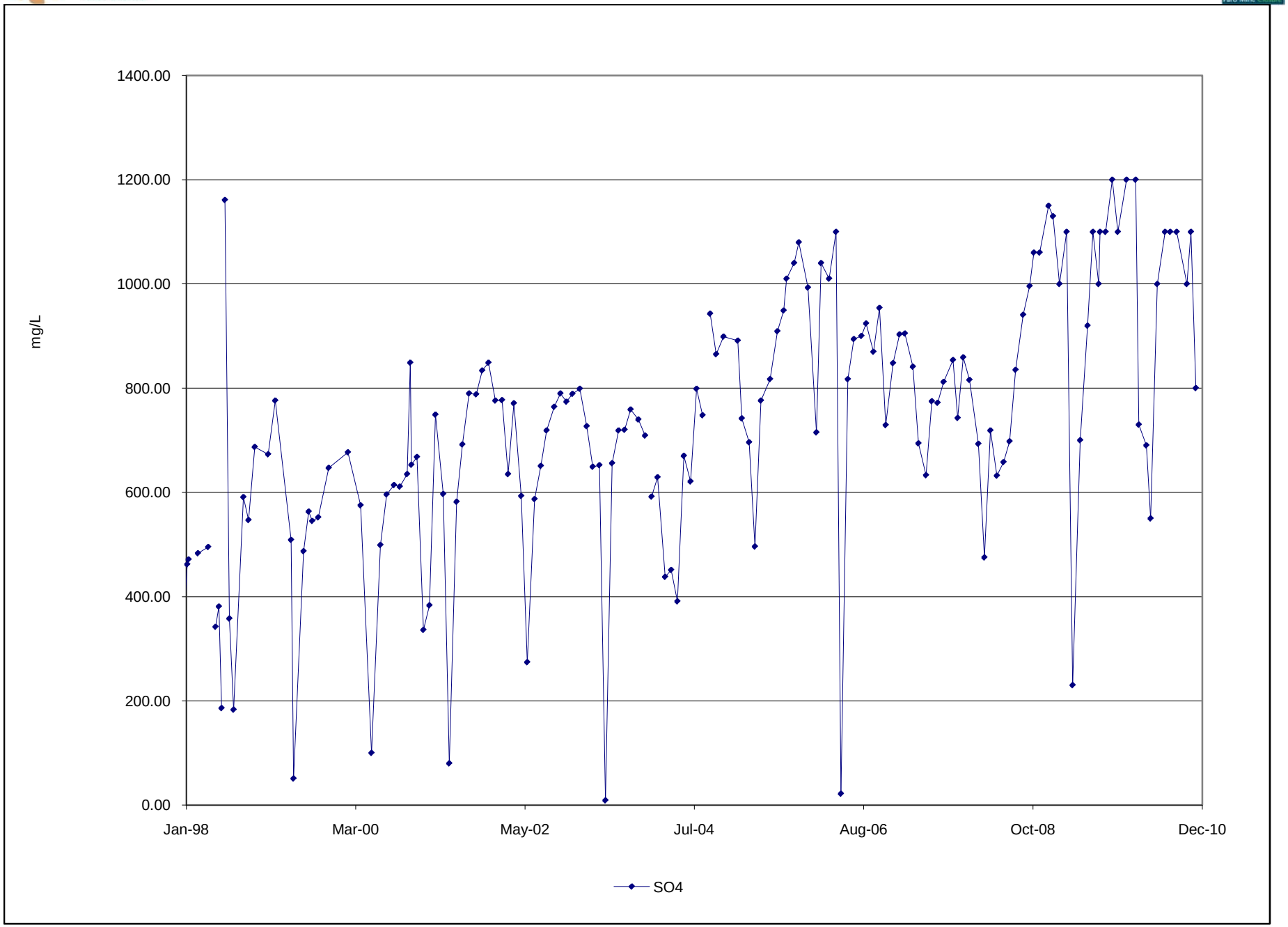

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Figure C-30: Iron (Total and Dissolved) in the Intermediate Pond

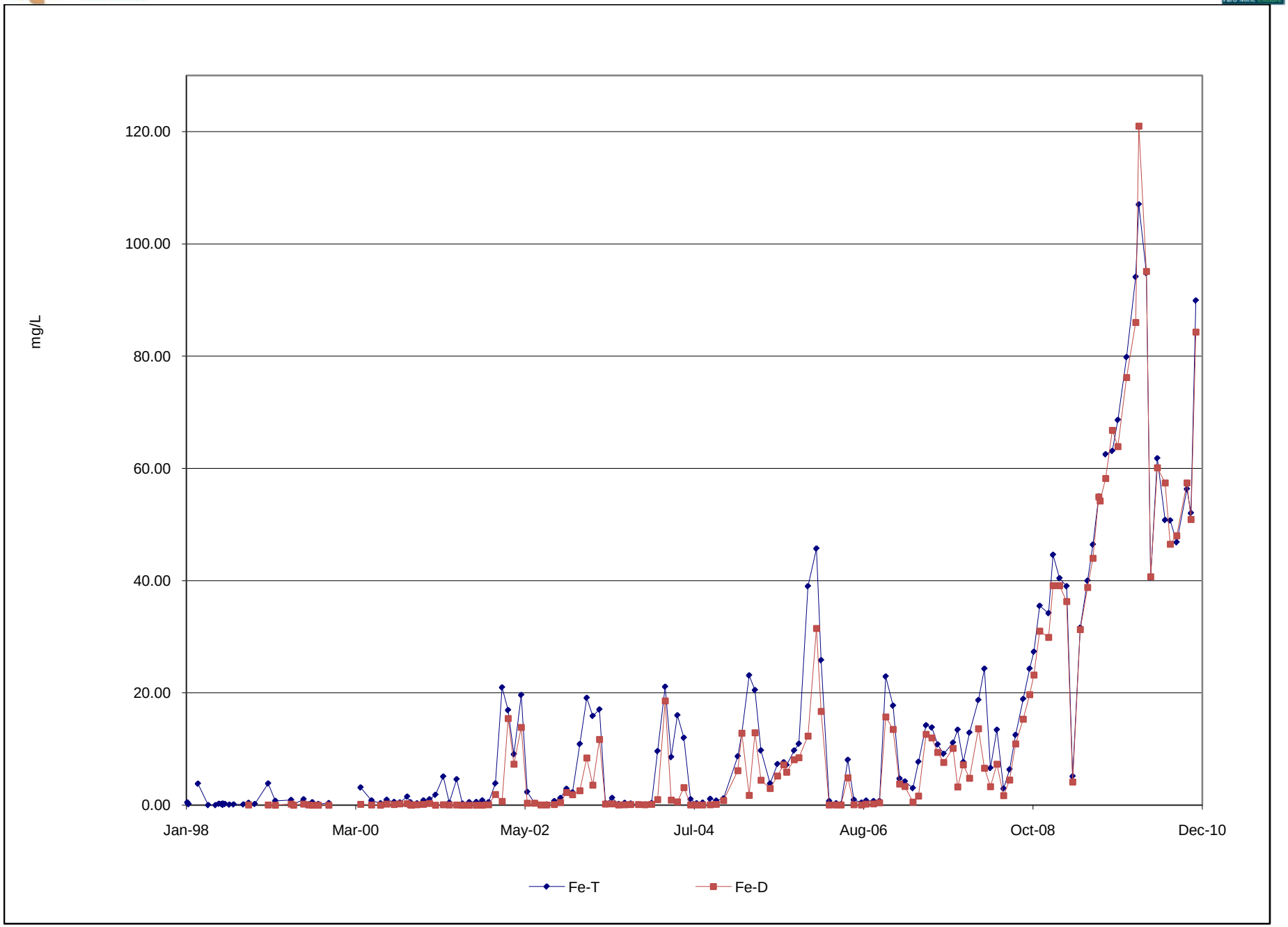

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Figure C-31: Intermediate Pond Elevation and Zinc Levels (Total and Dissolved)

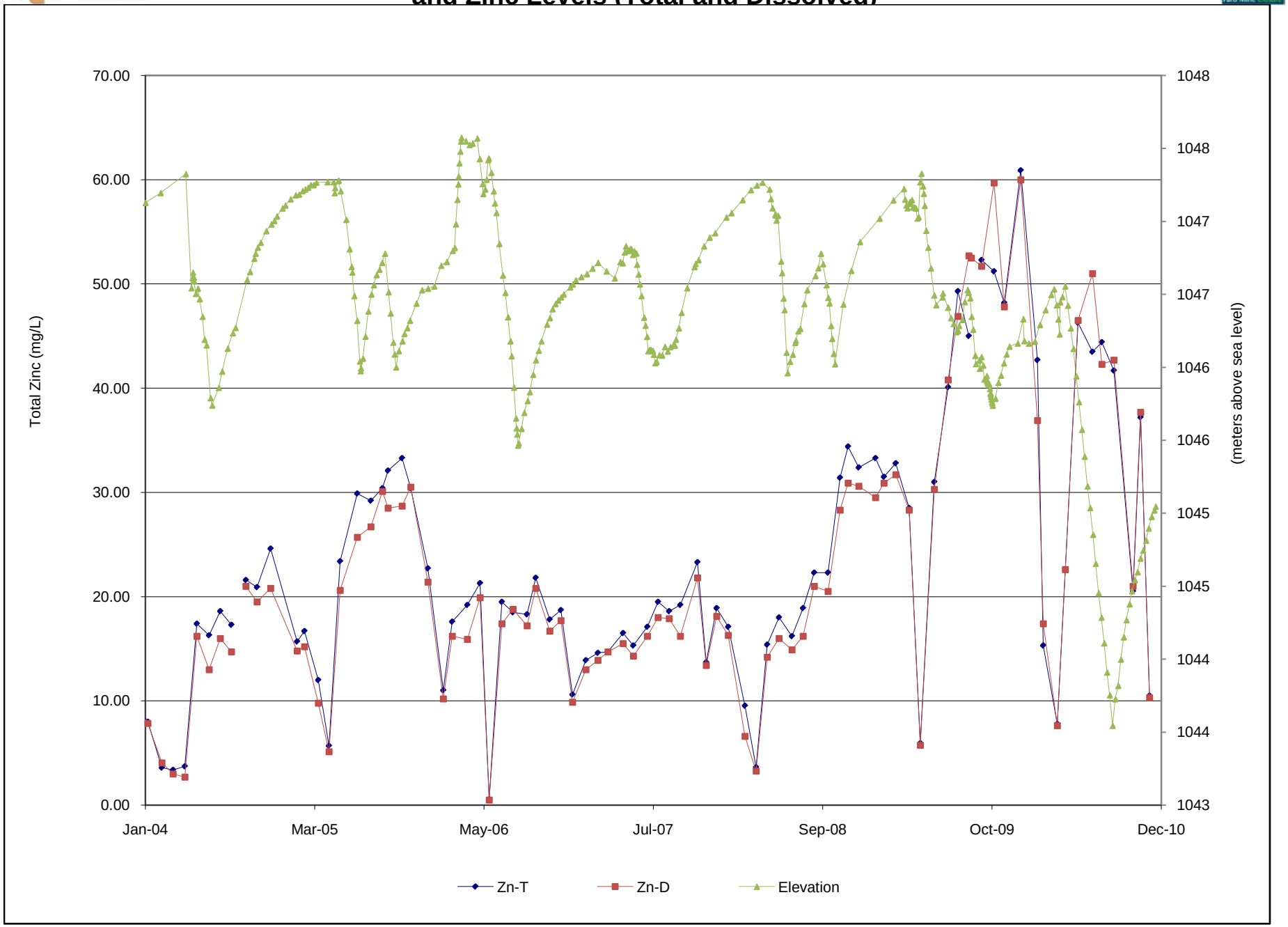

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Figure C-32: Sulphate at X2, X3, X3A and X10

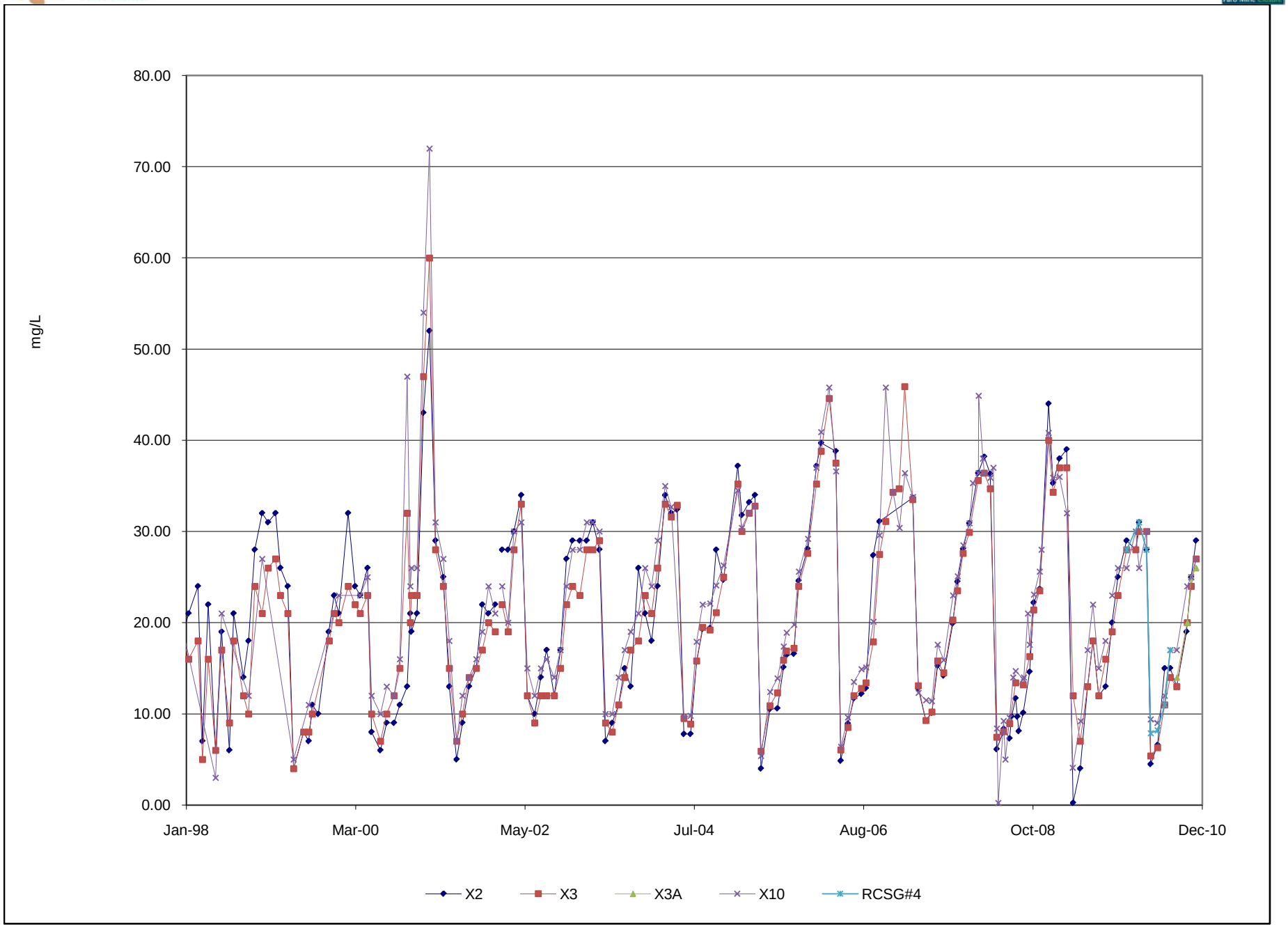

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Figure C-33: Zinc (Total) at X2, X3, X3A and X10

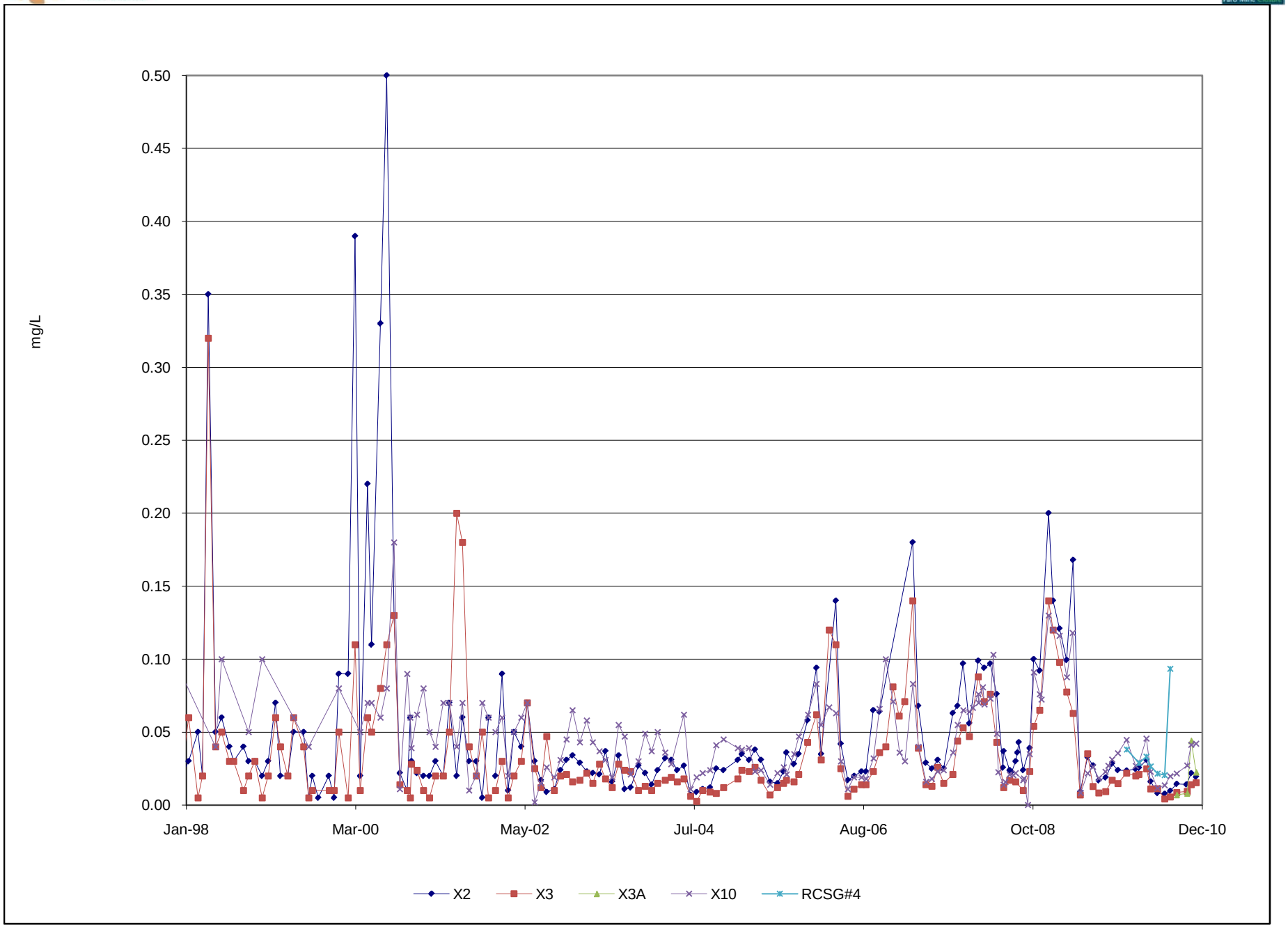

Figure C-34: Cadmium (Total) at X2, X3, X3A and X10

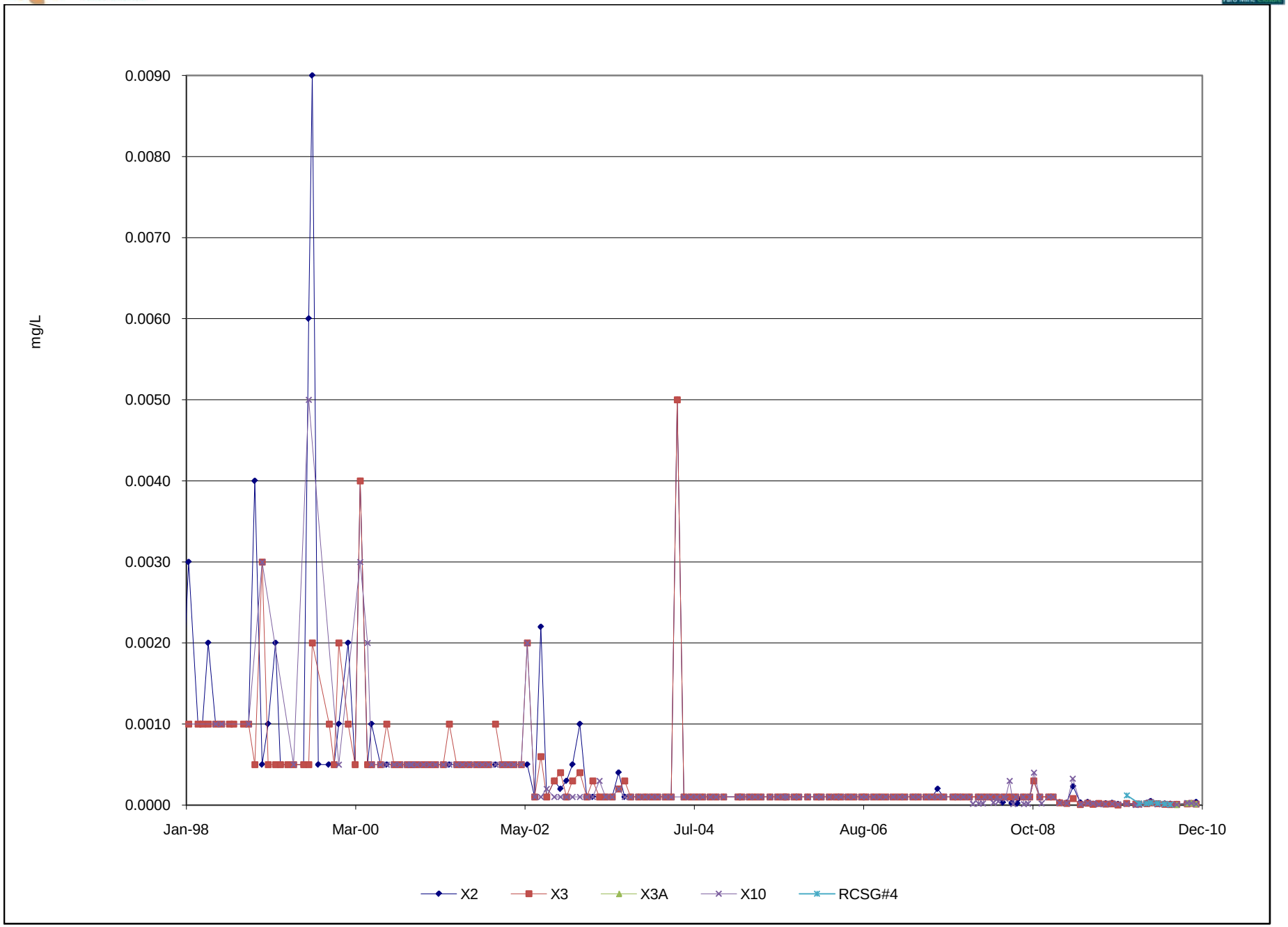

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Figure C-35: Lead (Total) at X2, X3, X3A and X10

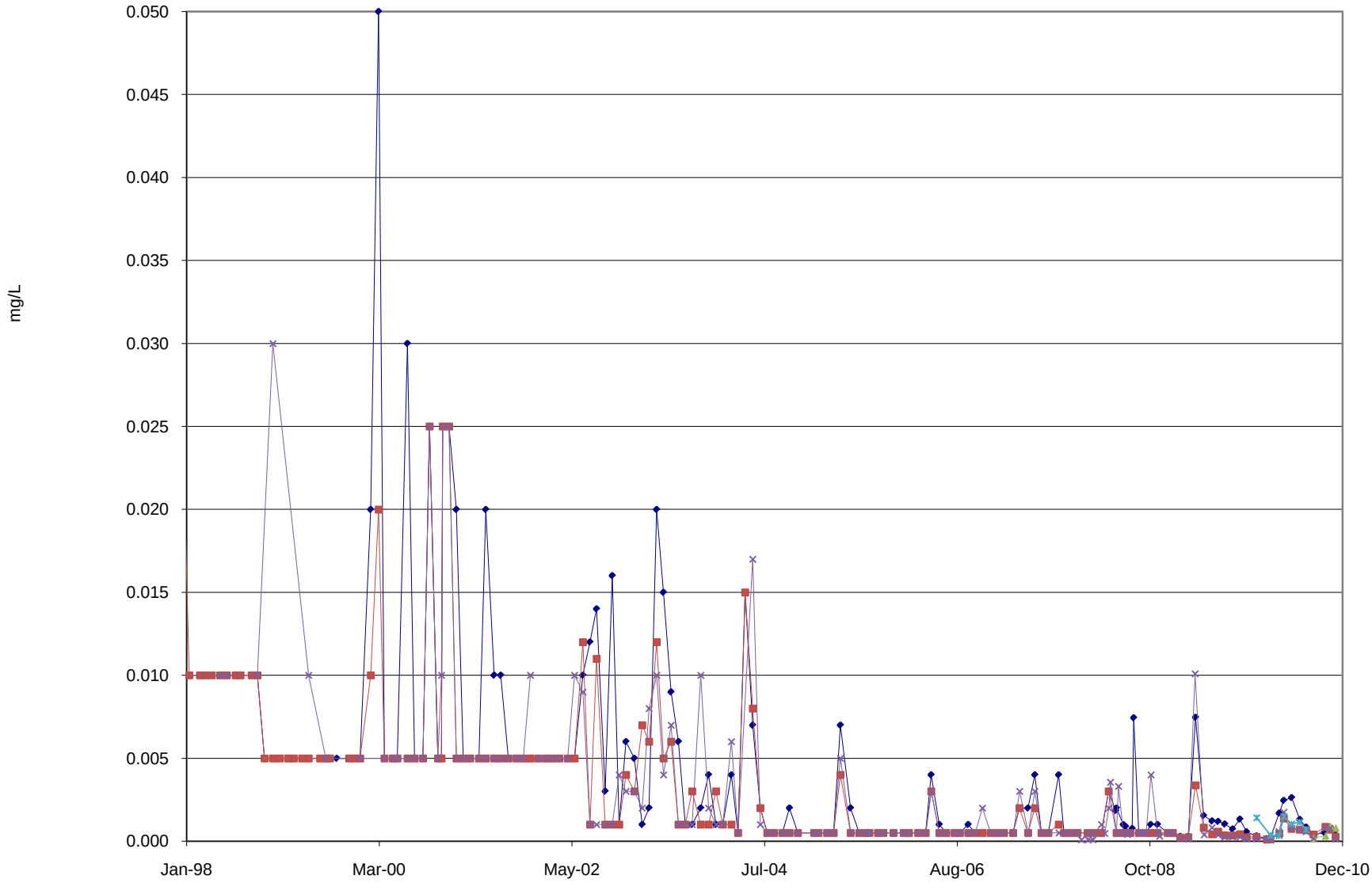

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Figure C-36: Iron (Total) at X2, X3, X3A and X10

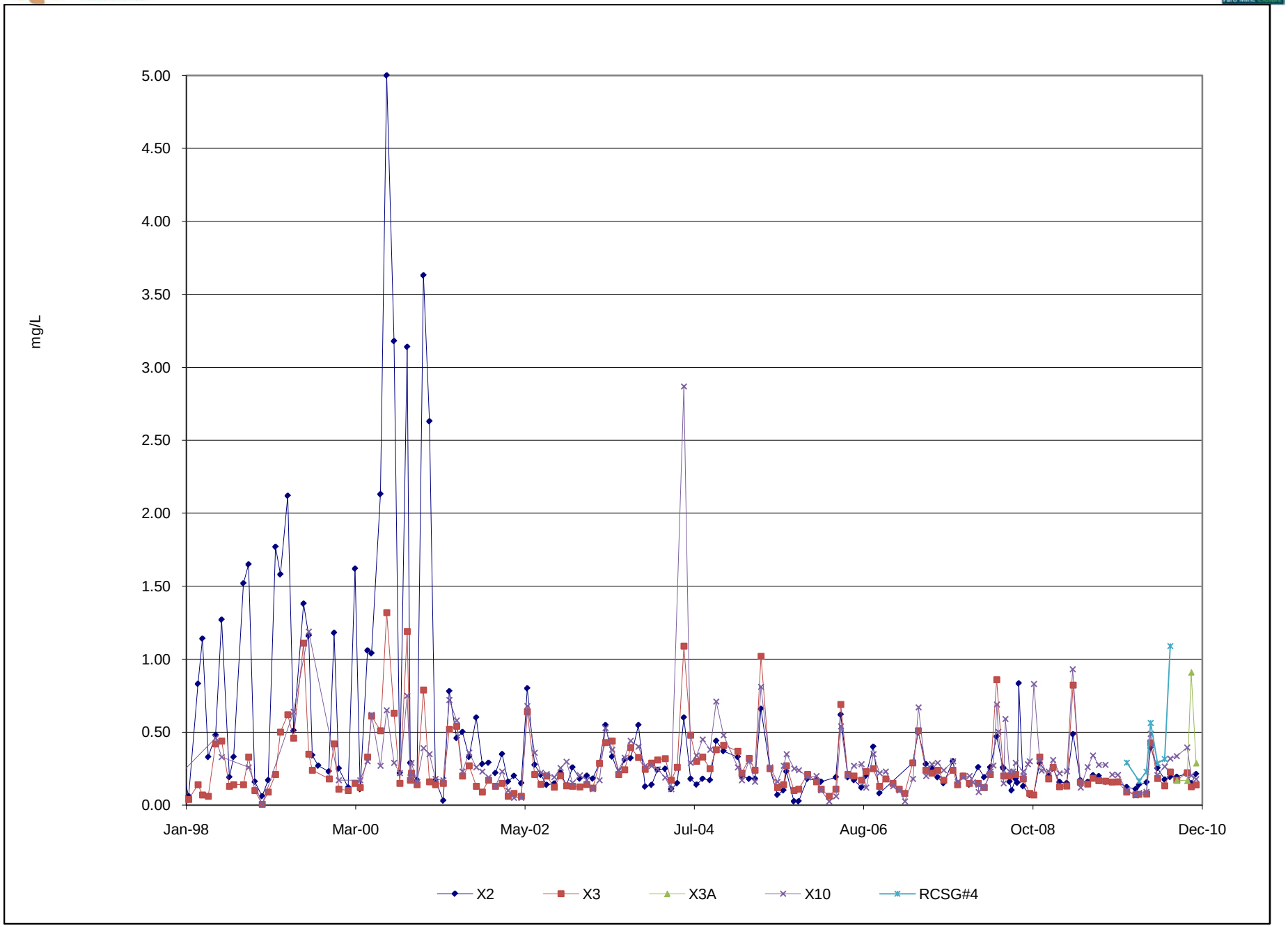

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Figure C-37: 2010 FMC Lab Analysis - pH and Zinc (Total and Dissolved) at X5

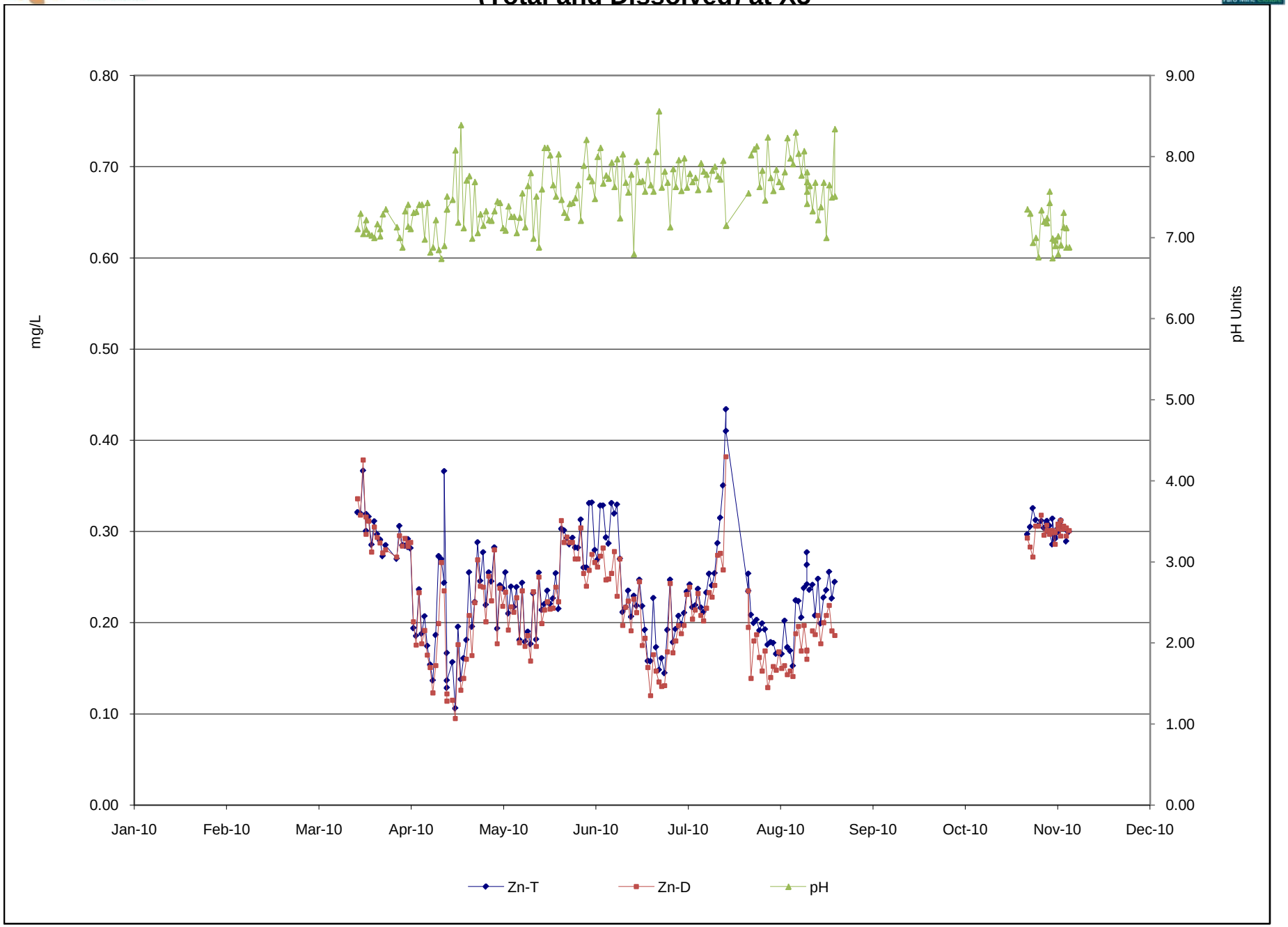

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Figure C-38: 2010 FMC Lab Analysis - Zinc (Total and Dissolved) at X14

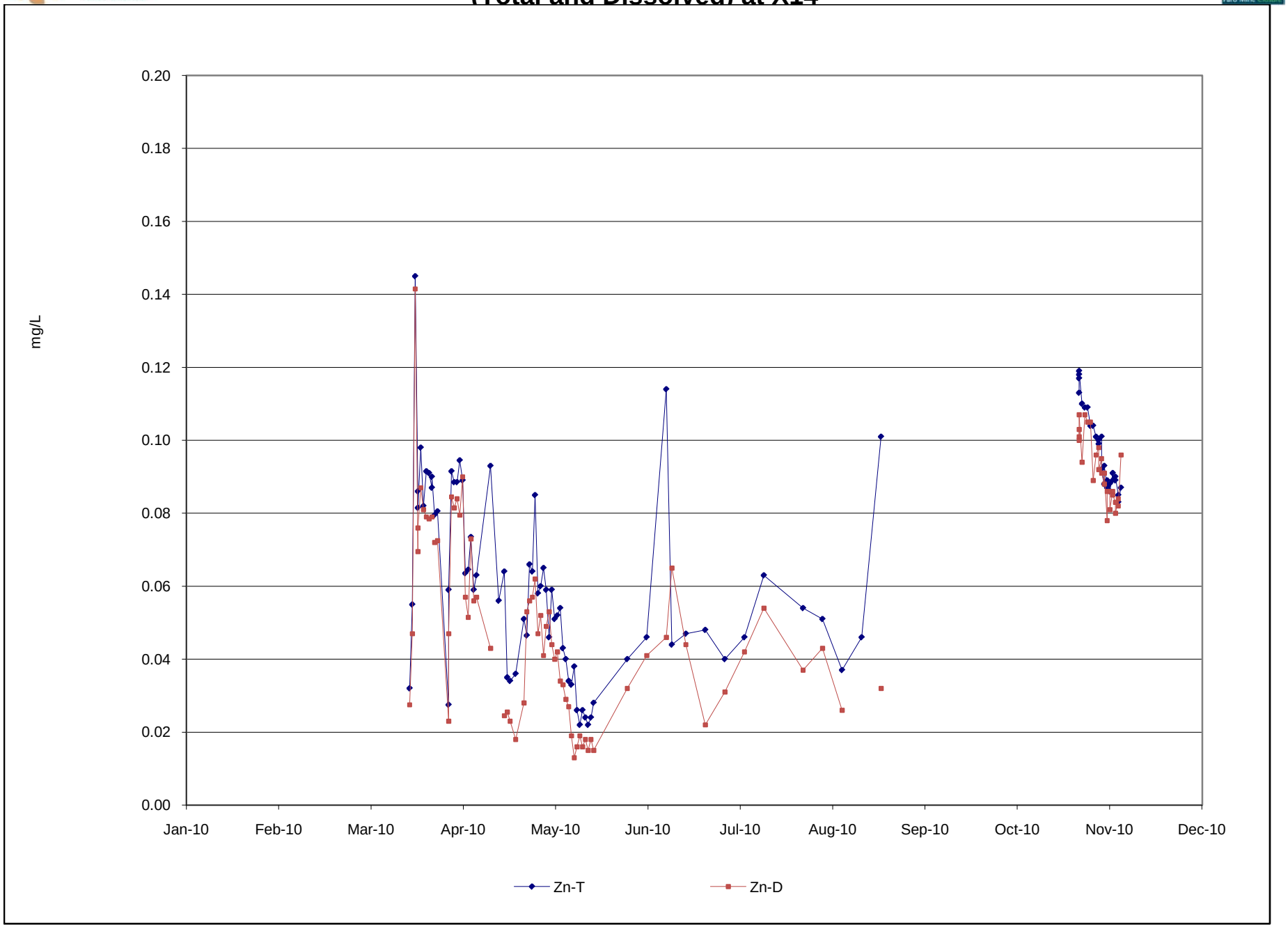

Figure C-39: 2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Thickener

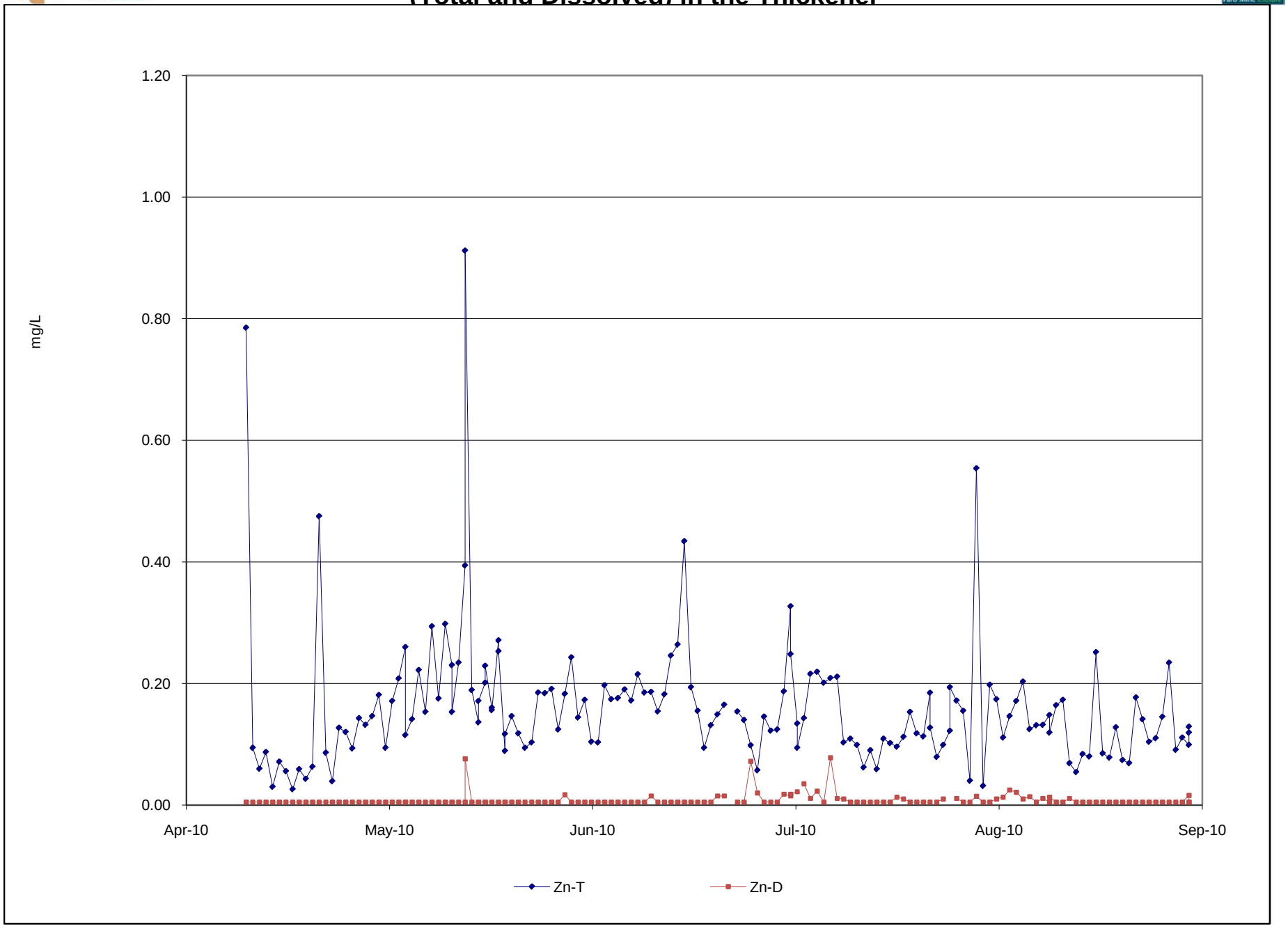

Figure C-40: 2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Clarifier

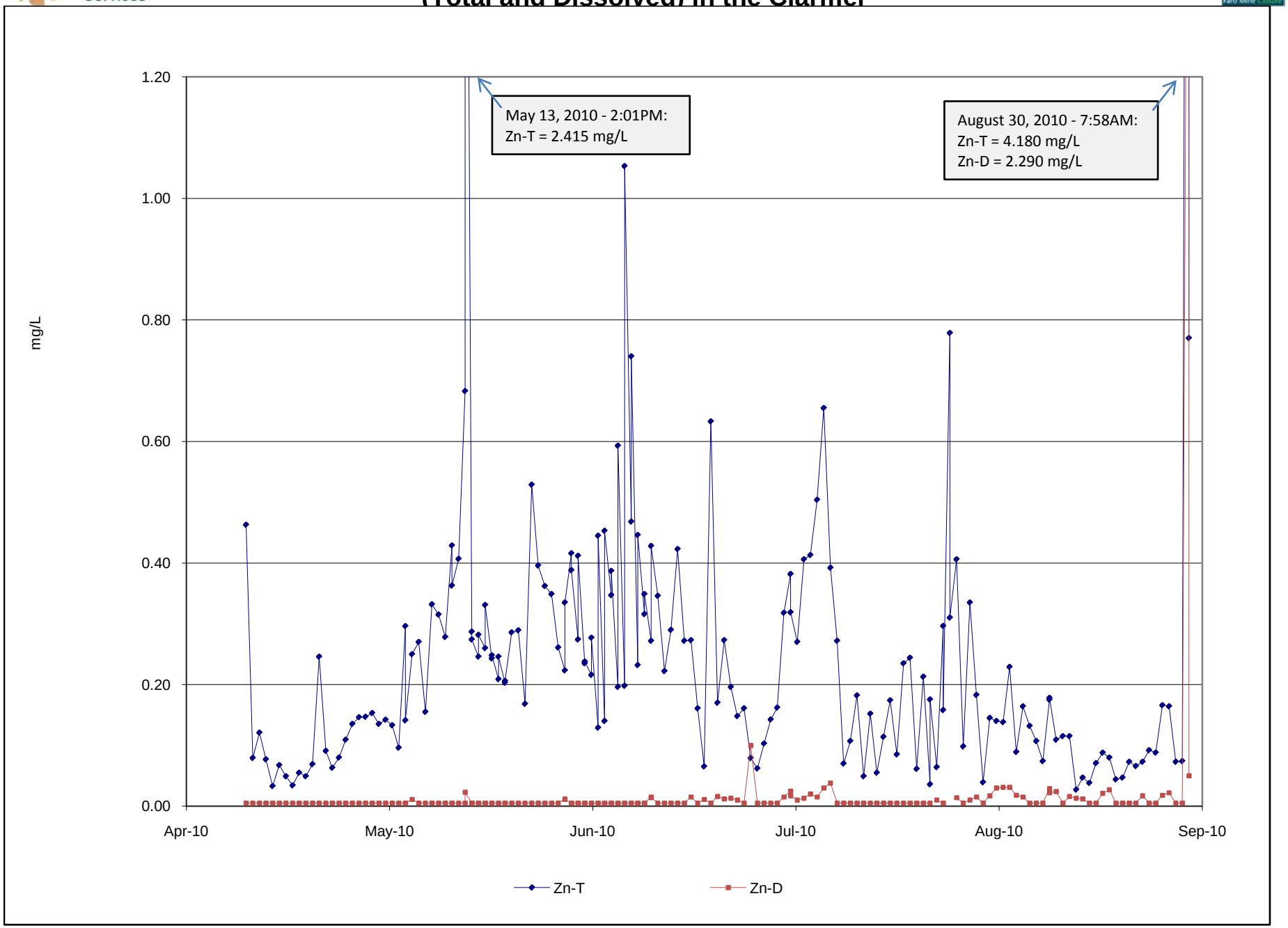

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Figure C-41: 2010 FMC Lab Analysis - Zinc (Total and Dissolved) in the Faro Mill Effluent