

ELBOW RIVER WATERSHED PARTNERSHIP
 Client Project #: BRAGG CREEK MONITORING PROJECT
 Site Location: WEST BRAGG CREEK
 Date: April 9, 2012

GROUNDWATER

	Units	RW-01	RW-02	RW-03	RW-04*	RDL
Calculated Parameters						
Anion Sum	meq/L	8.3	6.3	11	12	N/A
Cation Sum	meq/L	7.7	5.9	9.7	11	N/A
Hardness (CaCO3)	mg/L	160	63	440	540	0.50
Ion Balance	N/A	0.92	0.93	0.91	0.91	0.010
Dissolved Nitrate (NO3)	mg/L	0.030	<0.013	3.2	1.8	0.013
Nitrate plus Nitrite (N)	mg/L	0.0070	<0.0030	0.75	0.46	0.0030
Dissolved Nitrite (NO2)	mg/L	<0.0099	<0.0099	0.088	0.21	0.0099
Total Dissolved Solids	mg/L	410	330	530	630	10
Misc. Inorganics						
Conductivity	uS/cm	770	610	970	1100	1.0
pH	N/A	8.05	7.75	7.75	8.02	N/A
Anions						
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	<0.50	<0.50	0.50
Alkalinity (Total as CaCO3)	mg/L	380	250	400	400	0.50
Bicarbonate (HCO3)	mg/L	470	300	490	490	0.50
Carbonate (CO3)	mg/L	<0.50	<0.50	<0.50	<0.50	0.50
Hydroxide (OH)	mg/L	<0.50	<0.50	<0.50	<0.50	0.50
Dissolved Sulphate (SO4)	mg/L	4.1	37	79	130	1.0
Dissolved Chloride (Cl)	mg/L	20	22	31	57	1.0
Nutrients						
Dissolved Nitrite (N)	mg/L	<0.0030	<0.0030	0.027	0.065	0.0030
Dissolved Nitrate (N)	mg/L	0.0067	<0.0030	0.73	0.40	0.0030
Elements						
Dissolved Calcium (Ca)	mg/L	44	10	120	140	0.30
Dissolved Iron (Fe)	mg/L	<0.060	<0.060	<0.060	<0.060	0.060
Dissolved Magnesium (Mg)	mg/L	12	9.2	36	45	0.20
Dissolved Manganese (Mn)	mg/L	0.037	0.13	0.25	0.067	0.0040
Dissolved Potassium (K)	mg/L	1.4	0.87	1.3	1.3	0.30
Dissolved Sodium (Na)	mg/L	100	100	20	11	0.50

N/A = Not Applicable

RDL = Reportable Detection Limit

*Livestock well. All the others are residential wells.

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RESULTS OF CHEMICAL ANALYSES OF WATER

	Units	RW-01	RW-02	RW-03	RW-04*	RDL	CCME
Misc. Inorganics							
Total Suspended Solids	mg/L	<1.0	1.0	1.0	1.0	1.0	
Microbiological Param.							
E.Coli DST	mpn/100mL	<1.0	<1.0	<1.0	<1.0	1.0	ND
Total Coliforms DST	mpn/100mL	<1.0	<1.0	<1.0	<1.0	1.0	ND
Nutrients							
Total Ammonia (N)	mg/L	0.10	0.25	0.14	0.089	0.050	1.37-2.20
Dissolved Phosphorus (P)	mg/L	<0.0030	0.0040	<0.0030	<0.0030	0.0030	
Total Phosphorus (P)	mg/L	<0.0030	0.11	<0.0030	<0.0030	0.0030	
Physical Properties							
Turbidity	NTU	0.39	7.5	9.7	2.4	0.10	

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