

		Madrone	MoE		MoE	MoE	MoE	
		Nov 8 2013	Nov 17 2015		Nov 14 2015	Nov 14 2015	Nov 17 2015	
	Units	Upstream Boundary of CHH property	S Shawn. Creek upstream from CHH		SW1 - 15 m west of discharge point (ephemeral creek)	CHH1 - 0.5 m inside west boundary	Settling Pond Discharge	Value increase
Conductivity	uS/cm		28.0		573	332	348	12.4 - 20.7 x
Hardness (as Ca CO3)	mg/L		9.99		207	122	152	15.2 - 20.7 x
pH	pH		6.83		7.08	6.41	7.58	
Total suspended solids	mg/L		<3.0		<3.0	<3.0	25.7	
Turbidity	NTU		1.09		1.65	1.16	61.4	
Chloride (Cl)	mg/L		2.07		28.4	9.82	9.21	4.4 - 13.7 x
Sulfate (SO4)	mg/L		1.36		157	101	71.0	52.2 - 115.4 x
Total metals water								
Aluminum (Al)	mg/L	0.0444	0.193		0.0753	0.0995	3.28	16.99 x
Antimony (Sb)	mg/L	<0.0001	<0.00010		0.00042	<0.00010	0.00019	
Arsenic (As)	mg/L	0.00006	0.00012		0.00013	0.00012	0.00049	
Barium (Ba)	mg/L	0.00325	0.00283		0.0205	0.0443	0.0261	7.24 - 15.6 x
Beryllium (Be)	mg/L	<0.00005	<0.00010		<0.00010	<0.00010	<0.00010	
Bismuth (Bi)	mg/L	<0.0001	<0.000050		<0.00050	<0.00050	<0.000050	
Boron (B)	mg/L	<0.002	<0.010		0.04	0.013	0.015	
Cadmium (Cd)	mg/L	<0.00001	<0.00000050		0.0000137	0.0000072	0.0000166	
Calcium (Ca)	mg/L	5.28	3.06		65.4	39.4	49.1	12.9 - 21.4 x
Chromium (Cr)	mg/L	<0.0005	0.00027		0.00027	0.00021	0.00558	
Cobalt (Co)	mg/L	<0.0001	0.00013		0.00079	0.0002	0.0024	
Copper (Cu)	mg/L	0.0007	0.00094		0.00194	0.00107	0.00866	
Iron (Fe)	mg/L	0.071	0.114		0.0788	0.0505	3.14	
Lead (Pb)	mg/L	<0.0001	0.000054		0.000083	<0.000050	0.00171	
Magnesium (Mg)	mg/L	0.83	0.571		10.7	5.73	7.26	10.03 - 18.7 x
Manganese (Mn)	mg/L	0.0027	0.00867		0.0324	0.0185	0.0887	
Molybdenum (Mo)	mg/L	<0.00005	<0.000050		0.00179	0.000286	0.00164	
Nickel (Ni)	mg/L	<0.0002	<0.00050		0.00172	0.00084	0.00484	
Phosphorus (P)	mg/L	n/a	<0.010		0.016	<0.010	0.084	
Potassium (K)	mg/L	<0.1	0.136		1.99	1.18	1.45	8.7 - 14.63 x
Selenium (Se)	mg/L	<0.0001	<0.000050		0.000589	0.000554	0.000503	
Silicon (Si)	mg/L	2.64	2.42		4.37	3.9	8.38	3.5 x
Silver (Ag)	mg/L	<0.00005	<0.00010		<0.000010	<0.000010	0.000017	
Sodium (Na)	mg/L	2.1	1.74		21.8	8.85	9.16	5.1 - 12.5 x
Strontium (Sr)	mg/L	0.023	0.0152		0.223	0.0983	0.141	6.46 - 14.7 x
Sulfur (S)	mg/L	n/a	<0.050		56.1	34.3	23.2	464 - 1122 x
Thallium (Tl)	mg/L	<0.00001	<0.000010		<0.000010	<0.000010	0.00002	
Tin (Sn)	mg/L	<0.0001	<0.00010		<0.00010	<0.00010	<0.00010	
Titanium (Ti)	mg/L	<0.0005	0.00339		0.00408	0.00322	0.189	
Uranium (U)	mg/L	<0.00001	0.00001		0.000562	0.000023	0.0015	
Vanadium (V)	mg/L	0.0003	0.00059		0.00089	0.00058	0.00913	
Zinc (Zn)	mg/L	0.0009	<0.0030		<0.0030	<0.0030	0.0077	