

Table 4-4a
Iron Springs Gulch Mine Features Hardness, pH, Flow Rate, and Dissolved Metal Results

Sample Location	Sample ID	Sample Date	Hardness (mg/L)	pH	Flow Rate (CFS)	As (µg/L)	Cd (µg/L)	Cu (µg/L)	Fe (T) (µg/L)	Pb (µg/L)	Mn (µg/L)	Ni (µg/L)	U (µg/L)	Zn (µg/L)
Willard Adit 1 Discharge. Puzzle Adit	IG-13	05/31/12	180	5.16	0.05	6.2	38	390	23000	220	2600	29	2.8	7800
		06/05/13	230	5.1	0.11	200	67	1400	64000	460	3600	43	5.5	13000
		08/28/13	200	4.48	0.04	6.1	26	180	16000	190	2400	21	1.9	5900
		07/02/14	222	3.30	0.076	29.7	52.1	423	35000	316	3580	27.3		10200
		09/18/14	207	3.57	0.0601	8.99	32.4	158	22200	257	3170	17.5		8150
Iron Springs Mine Dump (Willard Pile) Seep [a].	IG-12	05/31/12	250	7.06	NA	11	2.5	< 5	6900	0.42	570	< 2	0.49	540
		08/22/12	380		NA	4.5	< 0.07	< 5	962000	< 0.15	170	< 2	0.41	51
		06/05/13	290	7.53	NA	10	0.63	< 4	9600	0.92	340	< 1	2.8	190
		08/28/13	230	7.3	NA	2.5	< 0.07	< 4	810	0.46	98	< 1	2.7	< 10
		07/02/14	279	7.78	NC	0.972	<0.1	1.53	885	0.136	69.9	<0.5		24.3
		09/18/14	299	6.43	N/C	1.52	<0.1	0.531	773	<0.1	274	<0.5		18.4
Willard Adit 2 located 100 yards to the north of Puzzle Adit	IG-16	05/31/12	200		0.02	3	4	7	19000	3.9	1300	16	0.34	2300
		08/22/12	190	5.65	0.01	2.4	6.9	43	14900	5.1	1700	20	0.38	3300
		06/05/13	190	4.15	0.02	2.3	9.4	120	31000	31	1500	28	1.2	4200
		08/28/13	190	2.07	0.01	2.4	4.9	14	16000	17	1400	18	0.38	2700
		07/02/14	179	4.55	0.013	1.94	8.72	70.2	23400	50.9	1360	18.7		3320
		09/18/14	183	5.25	0.02	2.58	5.53	14.5	16600	50.2	1400	13		2730
Outlet of pond above Willard Pile	IG-17	07/16/13	230	6.51	0.039	0.43	< 0.07	< 4	740	0.33	190	< 1	3.2	50
		08/28/13	260	7.87	0.13	0.41	< 0.07	< 4	510	0.21	230	< 1	2.4	< 10
		07/02/14	280	8.00	0.088	0.726	<0.1	1.51	510	<0.1	59.1	<0.5		20.2
		09/18/14	298	6.37	0.0221	<0.5	<0.1	0.573	773	<0.1	277	<0.5		17.6