

# **B**

## **Summary of Soil Boring Data**



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Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)							
	Top	Bottom			Red Porous Rock	Vitrious "Slag"	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)							Mercury 7471A (mg/kg)						
MP094	0	1	07/08/2015	20									NR	T/WR	Dry																				
MP094	1	2	07/08/2015	20	x							x	Dark Gray	SP-SM	T/WR	Dry						19127	96.97	5416.36	42.49	134.82	9.78								
MP094	2	3	07/08/2015										NR	T/WR																					
MP094	3	4	07/08/2015	40	x				x	x			Grayish Brown	SM	T/WR	Damp						24765	118.58	6826.15	50.53	112.23	10.16								
MP094	4	5	07/08/2015	100	x				x	x			Gray	SP-SM	T/WR	Damp						24560	117.25	5520.59	43.65	98.09	9.19								
MP094	5	6	07/08/2015	100									Brown	OL	DN	Moist						557	12.22	352.37	7.82	< LOD	4.52								
MP094	6	7	07/08/2015	70									Very Dark Brown	OL	DN	Damp						241	10.7	424.06	8.73	< LOD	4.71								
MP094	7	8	07/08/2015	70									Very Dark Brown	OL	DN	Moist						38	10.18	111.35	5	< LOD	4.95								
MP094	8	9	07/08/2015	90	x							x	Dark Gray	GM	T/WR	Moist						9836	55.98	2296.34	24.11	39.31	5.67								
MP094	9	10	07/08/2015	90									Yellowish Brown	ML	DN (KG)	Damp						3144	32.46	1010.49	19.54	20.31	6.8								
MP094	10	11	07/08/2015	90									Dark Grayish Brown	ML	DN (KG)	Moist						15MP094SB11	9600	2900	89	2914	28.85	1445.32	19.43	33.3	5.52				
MP094	11	12	07/08/2015	90									Gray	ML	N	Moist										30	11.01	81.54	5.01	< LOD	6.01				
MP094	12	13	07/08/2015	90									Gray	GM	N	Wet						15MP094SB13	3300	860	37	2872	27.37	733.53	12.87	25.82	4.69				
MP094	13	14	07/08/2015	90									Gray	ML	N	Moist										< LOD	17.45	10.01	2.7	< LOD	5.71				
MP094	14	15	07/08/2015	70									Brown	ML	N	Saturated										229	11.91	98.13	4.88	< LOD	5.19				
MP094	15	16	07/08/2015	70									Brown	ML	N	Wet										< LOD	18.27	273	9.11	< LOD	7.22				
MP094	16	17	07/08/2015	100								x	Grayish Brown	GM	N (KG)	Moist						15MP094SB17	2300	1100 J+	120	3102	28.78	917.94	15.37	51.15	5.81				
MP094	17	18	07/08/2015	100									Brown	ML	N (KG)	Wet										< LOD	16.06	43.02	3.79	< LOD	5.53				
MP094	18	19	07/08/2015	90									Grayish Brown	ML	N (KG)	Wet						15MP094SB19	1500	700	76	1403	19.93	546.97	11.49	11.54	4.55				
MP094	19	20	07/08/2015	100									Brown	ML	N (KG)	Moist						15MP094SB20	410 J	37	1.8	1028	21.01	52.13	5.04	< LOD	7.71				
MP094	20	21	07/08/2015	90									Brown	ML	WB	Moist										271	12.69	168.49	6.34	< LOD	5.37				
MP094	21	22	07/08/2015	90									Grayish Brown		WB	Wet																			
MP094	22	24	07/08/2015	30									Dark Grayish Brown		WB	Wet																			
MP095	0	1	07/07/2015	60	x				x			x	Dark Gray	GM	T/WR	Damp										13310	142	6284	68	631	18				
MP095	1	2	07/07/2015	60	x				x			x	Dark Gray	ML	T/WR	Damp										9501	97	3274	35	514	14				
MP095	2	3	07/07/2015	100									Dark Gray	SM	T/WR	Damp										764	21	283	5	29	4				
MP095	3	4	07/07/2015									x	Dark Gray	SM	T/WR	Damp										15MP095SB04	180	83	2.5	151	19	59	3	< LOD	8
MP095	4	5	07/07/2015	100									Dark Gray	ML	N	Moist										15MP095SB05	630	370	42	1819	28	485	8	59	5
MP095	5	6	07/07/2015	100								x	Dark Gray	ML	N	Moist																			
MP095	6	7	07/07/2015	90									Brown	ML	N	Wet																			
MP095	7	8	07/07/2015	90									Brown	ML	N	Moist										96	19	58	3	16	3				
MP095	8	9	07/07/2015										Brown	ML	N	Moist																			
MP095	9	10	07/07/2015	20									Brown	ML	N	Moist										15MP095SB10	1200	590	45	1268	26	584	9	61	5
MP095	10	11	07/07/2015	100									Olive Brown	MH	N	Moist										15MP095SB11	380	180	18	310	20	108	4	11	3
MP095	11	12	07/07/2015	100									Olive Brown	MH	N	Moist											905	22	430	7	56	4			
MP095	12	13	07/07/2015	100								x	Olive Brown	MH	N	Moist										15MP095SB13	140 J	80 J	29 J	122	18	59	3	14	3
MP095	13	14	07/07/2015	100									Olive Brown	ML	N	Moist											< LOD	56	17	2	9	3			
MP095	14	15	07/07/2015	80									Olive Brown	MH	N	Moist											< LOD	50	79	3	< LOD	6			
MP095	15	16	07/07/2015	80									Dark Brown	ML	N	Damp											< LOD	52	24	2	< LOD	7			
MP095	16	17	07/07/2015	40											WB	Saturated																			
MP095	17	18	07/07/2015	40									Dark Gray		WB	Saturated											< LOD	57	142	4	< LOD	8			
MP095	18	19	07/07/2015	60									Dark Grayish Brown		WB	Wet											< LOD	51	34	2	10	3			
MP095	19	20	07/07/2015	60									Dark Grayish Brown		WB	Wet											< LOD	56	30	2	< LOD	8			
MP095	20	22	07/07/2015	50									Dark Grayish Brown		WB	Wet																			
MP096	0	1	07/08/2015	100	x		x					x	Brown	GM	T/WR	Dry											7034	77	3827	42	287	6			
MP096	1	2	07/08/2015	100	x		x					x	Grayish Brown	SM	T/WR	Dry												3036	37	3568	39	325	7		

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
MP094	0	1																						
MP094	1	2	179.77	53.89	65.26	13.69	NA	NA	164.3	78.23	97.4	15.17	24400.1	256.82	23.63	5.49	514.63	58.46	109.95	27.72	< LOD	7.75	80.85	10.86
MP094	2	3																						
MP094	3	4	153.57	57.78	61.41	15.34	NA	NA	196.04	95.39	89.18	16.23	32626.45	314.53	26.01	6.11	694.48	70.2	176.06	32.32	< LOD	8.97	105.77	12.6
MP094	4	5	< LOD	83.28	96.24	15.91	NA	NA	140.43	71.19	88.82	15.2	19286.23	232.76	17.72	5.26	387.31	53.56	171.14	29.6	< LOD	8.04	83.41	11.05
MP094	5	6	< LOD	39.05	< LOD	7.02	NA	NA	< LOD	51.88	18.51	6.92	9669.39	114.07	6.68	2.75	125.46	24.84	< LOD	20.73	< LOD	2.74	36.87	5.12
MP094	6	7	< LOD	41.14	< LOD	7.21	NA	NA	< LOD	55.87	11.07	6.9	10660.87	122.15	8.71	2.95	213.88	29.07	< LOD	21.85	< LOD	2.97	44.31	5.6
MP094	7	8	338.61	31.65	< LOD	7.98	NA	NA	< LOD	69.38	21.25	7.78	15478.27	153.42	9.26	3.13	172.06	30.04	< LOD	23.61	< LOD	2.87	52.6	6.18
MP094	8	9	< LOD	61.61	28.07	9.34	NA	NA	122.93	57.03	43.08	10.61	17009.32	186.42	14.74	4.14	324.59	42.21	90.01	21.73	< LOD	5.09	76.64	8.53
MP094	9	10	427.52	43.51	< LOD	12.04	NA	NA	< LOD	123.83	29.87	14.35	24943.73	273.28	11.8	4.72	204.53	47.78	48.98	28.67	< LOD	5.37	54.25	9.55
MP094	10	11	702.75	41.14	< LOD	11.02	NA	NA	186.69	73.71	37.16	10.76	28163.28	242.32	11.96	4	351.27	45.63	53.17	21.97	< LOD	4.6	74.74	8.53
MP094	11	12	502.75	35.29	< LOD	8.7	NA	NA	< LOD	78.36	< LOD	13.87	15563.15	173.49	9.9	3.63	224.78	36.39	< LOD	28.52	< LOD	3.55	55.79	7.28
MP094	12	13	557.9	38.32	< LOD	10.33	NA	NA	144.58	60.31	36.96	9.38	22125.68	198.07	11.68	3.66	278.52	38.02	44.35	18.81	< LOD	3.84	69.24	7.54
MP094	13	14	947.15	39.84	< LOD	9.49	NA	NA	< LOD	86.66	30.51	9.73	19320.02	191.34	6.58	3.38	509.93	46.81	46.61	19.64	< LOD	3.35	76.47	7.92
MP094	14	15	586.06	33.84	< LOD	8.28	NA	NA	< LOD	69.42	37.7	8.78	14744	154.1	8.17	3.19	222.83	32.81	33.55	16.76	< LOD	3.12	69.16	7
MP094	15	16	814.9	41.04	< LOD	9.9	NA	NA	< LOD	130.79	34.46	11.58	37638.73	292.59	8.04	3.81	250.96	45.84	78.91	24.21	< LOD	3.96	85.27	9.23
MP094	16	17	525.84	39.02	< LOD	10.63	NA	NA	< LOD	108.45	30.69	10.34	28458.7	240.42	10.91	3.89	348.32	45.02	79.62	22.02	< LOD	4.37	91.64	9
MP094	17	18	711.76	36	< LOD	8.67	NA	NA	< LOD	100.19	33.72	9.11	29120.69	224.48	10.68	3.44	866.73	55.68	36.87	18.26	< LOD	3.04	72.6	7.44
MP094	18	19	689.07	37.37	< LOD	9.23	NA	NA	130.36	71.02	32.55	9.69	29639.77	235.59	11.41	3.69	360.7	43.74	43.98	19.9	< LOD	3.81	79.36	8.17
MP094	19	20	606.19	43.41	< LOD	11.4	NA	NA	< LOD	126.99	40.32	13.21	30220.13	282.24	10.91	4.39	523.65	58.21	51.41	26.02	< LOD	4.37	89.41	10.08
MP094	20	21	670.16	35.63	< LOD	8.47	NA	NA	141.08	67.25	51.48	9.46	29536.29	222.94	11.44	3.5	725.63	51.6	< LOD	26.6	< LOD	3.28	90.92	7.94
MP094	21	22																						
MP094	22	24																						
MP095	0	1	714	122	< LOD	40	127	37	26	7	70	11	32581	371	< LOD	13	591	44	74	18	12	3	129	8
MP095	1	2	474	102	< LOD	37	95	31	23	6	43	9	25250	274	< LOD	10	531	38	62	15	< LOD	7	88	6
MP095	2	3	269	77	< LOD	31	< LOD	69	< LOD	15	< LOD	18	23445	221	< LOD	7	238	26	< LOD	34	< LOD	3	62	4
MP095	3	4	431	81	< LOD	32	< LOD	69	< LOD	15	< LOD	18	24627	233	< LOD	7	206	26	57	12	< LOD	3	76	4
MP095	4	5	333	86	< LOD	32	126	27	< LOD	17	28	7	29039	276	9	3	594	35	50	13	< LOD	4	140	6
MP095	5	6																						
MP095	6	7																						
MP095	7	8	503	87	< LOD	32	171	28	20	6	38	7	28905	273	16	3	464	32	54	13	< LOD	3	142	6
MP095	8	9																						
MP095	9	10	503	92	< LOD	34	99	28	< LOD	19	31	7	32888	319	13	3	661	38	84	14	< LOD	4	96	5
MP095	10	11	542	91	< LOD	32	132	28	22	6	37	7	34573	320	10	3	740	38	40	13	< LOD	3	97	5
MP095	11	12	628	87	< LOD	31	122	26	23	6	26	6	30386	273	11	3	916	38	57	12	4	1	91	5
MP095	12	13	478	78	< LOD	30	101	23	16	4	42	6	17480	169	15	2	362	26	37	11	< LOD	3	69	4
MP095	13	14	630	84	< LOD	31	128	25	< LOD	13	26	6	19666	189	17	3	412	28	78	12	< LOD	3	107	5
MP095	14	15	276	67	< LOD	29	< LOD	60	11	4	< LOD	16	13990	138	8	2	268	23	< LOD	29	< LOD	3	50	4
MP095	15	16	348	73	< LOD	30	88	22	18	4	19	6	15265	148	14	2	194	22	< LOD	30	< LOD	3	80	4
MP095	16	17																						
MP095	17	18	400	89	< LOD	32	148	28	28	6	36	7	35445	331	12	3	1009	42	54	13	< LOD	3	150	6
MP095	18	19	381	73	< LOD	29	104	22	20	4	37	6	15814	151	19	3	254	23	67	11	13	1	94	4
MP095	19	20	667	99	< LOD	32	< LOD	86	42	7	32	7	47226	433	< LOD	8	1840	55	< LOD	43	7	1	91	5
MP095	20	22																						
MP096	0	1	10	3	< LOD	44	8	2	80	8	18	3	3274	37	11	2	46	3	10	3	< LOD	8	40	3
MP096	1	2	11	3	< LOD	44	< LOD	5	59	7	14	3	2961	34	< LOD	7	34	3	< LOD	7	< LOD	9	28	3
MP096	2	3	12	4	< LOD	45	< LOD	6	80	9	19	3	3843	45	< LOD	8	53	4	< LOD	8	< LOD	10	41	3

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
MP096	3	4	07/08/2015	100	x	x	x				x	Grayish Brown	SM	T/WR	Damp					4404	57	9157	106	1098	17				
MP096	4	5	07/08/2015	90	x	x	x				x	Dark Brown	SM	T/WR	Damp					5520	63	4396	49	843	13				
MP096	5	6	07/08/2015	90	x	x	x				x	Dark Grayish Brown	SM	T/WR	Damp			15MP096SB06	13000	6800	2100	7976	88	5203	58	580	10		
MP096	6	7	07/08/2015	100								Yellowish Brown	ML	T/WR	Damp					2042	28	2282	26	151	4				
MP096	7	8	07/08/2015	100								Yellowish Brown	ML	DN						<LOD	33	30	2	4	1				
MP096	8	9	07/08/2015	100								Olive Brown	ML	DN	Moist					382	13	203	4	24	1				
MP096	9	10	07/08/2015	100								Olive Brown	ML	DN	Damp					<LOD	32	6	1	<LOD	2				
MP096	10	11	07/08/2015	100								Olive Brown	ML	DN	Moist					341	13	228	5	27	2				
MP096	11	12	07/08/2015	100								Olive Brown	ML	DN	Moist					<LOD	45	7	2	<LOD	3				
MP096	12	13	07/08/2015	100								Olive Brown	ML	DN	Moist			15MP096SB13	650	410	77	453	16	261	6	26	2		
MP096	13	14	07/08/2015	100								Olive Brown	ML	DN	Moist					<LOD	32	10	2	<LOD	2				
MP096	14	15	07/08/2015	100								Grayish Brown	ML	DN	Moist					60	12	20	2	<LOD	2				
MP096	15	16	07/08/2015	100								Olive Brown	ML	DN	Moist					<LOD	34	12	2	<LOD	2				
MP096	16	17	07/08/2015	100							x	Grayish Brown	ML	DN (KG)	Moist			15MP096SB17	1800	1200	320	1407	21	941	12	122	4		
MP096	17	18	07/08/2015	100							x	Grayish Brown	GM	DN (KG)	Moist					61	12	15	2	<LOD	2				
MP096	18	19	07/08/2015	80							x	Olive Brown	GM	DN (KG)	Wet			15MP096SB19	250	740	4.2	140	12	418	6	4	1		
MP096	19	20	07/08/2015	80								Olive Brown	GM	DN (KG)	Wet					<LOD	33	30	2	<LOD	2				
MP096	20	21	07/08/2015	90								Olive Brown	ML	N or DN	Wet					39	11	184	4	13	1				
MP096	21	22	07/08/2015	100								Dark Grayish Brown	ML	N or DN	Moist					<LOD	40	14	2	<LOD	3				
MP096	22	23	07/08/2015	90								Grayish Brown	ML	N	Wet					<LOD	35	11	2	<LOD	2				
MP096	23	24	07/08/2015	90								Olive Brown	ML	N	Moist					<LOD	38	15	2	<LOD	3				
MP096	24	25	07/08/2015	100								Gray	ML	N	Moist					<LOD	39	22	2	<LOD	3				
MP096	25	26	07/08/2015	100								Olive Brown	ML	N	Wet			15MP096SB26	60 J	71 J	19 J	133	13	165	4	7	1		
MP096	26	27	07/08/2015	70								Grayish Brown	GM	N	Moist					<LOD	38	23	2	<LOD	3				
MP096	27	28	07/08/2015	70								Brown	GM	N	Wet					<LOD	42	43	3	<LOD	3				
MP096	28	30	07/08/2015	80								Brown		WB	Wet														
MP096	30	32	07/08/2015	50								Dark Gray		WB	Moist														
MP097	0	1	07/08/2015	30								Dark Grayish Brown	NR	T/WR	Damp														
MP097	1	2	07/08/2015	30	x	x						Dark Grayish Brown	GM	T/WR	Damp			15MP097SB02	4300	1700	390	2799	27.29	1064.39	15.81	59.84	5.85		
MP097	2	3	07/08/2015	30								Dark Grayish Brown	NR	T/WR	Damp														
MP097	3	4	07/08/2015	40							x	Gray	ML	N or DN	Damp					759	16.8	431.74	10.37	14.93	4.48				
MP097	4	5	07/08/2015	100								Gray	ML	N or DN	Damp					1040	19.17	1737.61	20.07	36.48	5.24				
MP097	5	6	07/08/2015	100								Tan	ML	N or DN	Damp			15MP097SB06	710	770	76	45	12.26	51.44	4.6	<LOD	6.76		
MP097	6	7	07/08/2015	90								Gray	ML	N or DN	Wet					1475	20.31	497.23	10.58	21.72	4.48				
MP097	7	8	07/08/2015	90								Gray	MH	N or DN	Moist					<LOD	16.06	23.67	3.36	<LOD	5.66				
MP097	8	9	07/08/2015	60								Brown	ML	N or DN				15MP097SB09	1800	1100	92	1795	21.59	464.11	10.21	20.85	4.48		
MP097	9	10	07/08/2015	60								Grayish Brown	ML	N or DN	Wet					54	11.03	39.45	3.73	<LOD	5.67				
MP097	10	11	07/08/2015	80								Olive Brown	ML	N or DN	Moist			15MP097SB11	650 J+	800 J+	110	856	16.5	719.35	12.53	47.46	5.16		
MP097	11	12	07/08/2015	80								Olive Brown	MH	N or DN	Moist					204	12.06	99.42	5.12	<LOD	5.67				
MP097	12	13	07/08/2015	100								Olive Brown	GM	N (KG)	Saturated			15MP097SB13	160	330	22	1431	19.85	551.97	11.33	26.96	4.86		
MP097	13	14	07/08/2015	100								Olive Brown	ML	N (KG)	Wet					374	13.13	296.42	8.09	17.79	4.14				
MP097	14	15	07/08/2015	100								Olive Brown		WB	Saturated					180	11.8	174.89	6.35	<LOD	5.73				
MP097	15	16	07/08/2015	100								Orange Brown		WB	Damp					63	14.63	42.49	4.88	<LOD	8.62				
MP098	0	1	07/09/2015	80								Brown	SM	T/WR	Moist					1239	18.38	754.63	13.4	85.45	6.25				
MP098	1	2	07/09/2015	80							x	Black	GP	T/WR	Damp					647	17.73	3743.47	35.53	92.45	8.59				
MP098	2	3	07/09/2015	80								Brown	GM	T/WR	Moist					94	12.55	761.18	15.67	24.5	5.73				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
MP096	3	4	<LOD	12	<LOD	47	<LOD	7	120	12	21	3	6554	77	<LOD	9	99	5	<LOD	10	<LOD	12	43	4
MP096	4	5	12	3	<LOD	41	7	2	60	7	20	3	3356	37	49	3	35	3	<LOD	7	<LOD	7	40	3
MP096	5	6	13	4	<LOD	44	<LOD	6	70	8	21	3	3279	38	<LOD	7	50	3	<LOD	8	<LOD	10	46	3
MP096	6	7	10	3	<LOD	41	<LOD	5	63	6	7	2	2572	28	5	2	24	2	<LOD	6	<LOD	6	27	2
MP096	7	8	7	2	<LOD	34	<LOD	3	37	4	7	2	1620	16	5	1	27	2	<LOD	4	<LOD	2	13	1
MP096	8	9	<LOD	6	<LOD	34	<LOD	3	35	4	6	2	1437	15	7	1	21	2	<LOD	4	<LOD	3	13	1
MP096	9	10	8	2	<LOD	33	4	1	40	4	<LOD	4	1308	13	4	1	22	2	<LOD	4	<LOD	2	16	1
MP096	10	11	14	3	<LOD	36	5	1	64	6	7	2	2770	27	7	1	30	2	7	2	<LOD	3	26	2
MP096	11	12	<LOD	8	<LOD	46	5	2	41	5	<LOD	6	1417	20	8	2	13	2	<LOD	6	<LOD	3	16	2
MP096	12	13	<LOD	8	<LOD	41	<LOD	4	45	6	<LOD	6	1896	23	7	2	16	2	<LOD	5	<LOD	3	17	2
MP096	13	14	9	2	<LOD	33	4	1	33	4	5	2	1085	12	6	1	15	2	7	1	3	1	22	1
MP096	14	15	12	2	<LOD	35	<LOD	4	36	4	<LOD	5	1364	15	4	1	16	2	<LOD	4	<LOD	2	19	1
MP096	15	16	7	2	<LOD	35	<LOD	4	26	4	8	2	1538	16	4	1	51	2	<LOD	5	<LOD	2	14	1
MP096	16	17	12	3	<LOD	39	<LOD	4	39	5	6	2	1951	22	<LOD	4	17	2	<LOD	5	<LOD	4	22	2
MP096	17	18	13	2	<LOD	36	<LOD	4	38	5	11	2	1942	20	6	1	11	2	<LOD	5	<LOD	2	19	1
MP096	18	19	11	2	<LOD	34	5	1	45	4	9	2	1669	17	<LOD	3	12	2	<LOD	5	<LOD	3	21	1
MP096	19	20	11	2	<LOD	33	<LOD	4	60	5	7	2	2329	22	5	1	26	2	<LOD	5	<LOD	2	20	1
MP096	20	21	9	2	<LOD	34	<LOD	4	46	5	<LOD	5	2179	21	6	1	21	2	<LOD	5	<LOD	3	21	1
MP096	21	22	<LOD	7	<LOD	40	5	1	49	6	<LOD	6	2052	23	5	1	14	2	<LOD	5	<LOD	3	18	2
MP096	22	23	12	2	<LOD	36	<LOD	4	36	5	<LOD	5	2394	24	6	1	23	2	<LOD	5	<LOD	2	23	2
MP096	23	24	12	3	<LOD	39	<LOD	4	55	7	8	2	3071	32	5	1	28	3	<LOD	6	<LOD	3	26	2
MP096	24	25	14	3	<LOD	39	6	2	60	7	6	2	3134	33	6	1	26	3	<LOD	6	<LOD	3	27	2
MP096	25	26	13	3	<LOD	38	<LOD	4	51	6	7	2	2388	26	4	1	18	2	<LOD	6	<LOD	3	25	2
MP096	26	27	13	3	<LOD	38	<LOD	4	55	6	9	2	2489	26	4	1	13	2	<LOD	6	<LOD	3	23	2
MP096	27	28	18	3	<LOD	42	7	2	83	9	19	2	5114	55	6	2	213	6	<LOD	8	<LOD	3	48	2
MP096	28	30																						
MP096	30	32																						
MP097	0	1																						
MP097	1	2	637.79	39.1	<LOD	10.55	NA	NA	<LOD	90.03	43.25	10	21330.23	199.42	12.55	3.78	355.59	41.96	40.73	19.26	<LOD	4.06	78.31	8.23
MP097	2	3																						
MP097	3	4	654.83	37.93	<LOD	9.76	NA	NA	<LOD	94.47	30.44	9.86	22977.13	209.72	10.62	3.64	273.12	39.54	59.01	20.3	<LOD	3.52	62.97	7.54
MP097	4	5	1084.49	41.71	<LOD	10.1	NA	NA	<LOD	107.62	41.65	9.99	31384.75	242.99	10.11	3.64	3836.74	109.26	63.31	20.14	<LOD	4.33	102.63	8.95
MP097	5	6	1080.4	41.7	<LOD	10.1	NA	NA	<LOD	127.51	34.48	11.42	36064.18	285.43	9.54	3.96	355.62	49.3	55.11	23.28	<LOD	3.99	96	9.52
MP097	6	7	572.16	36.79	<LOD	9.54	NA	NA	108.44	65.46	35.48	9.21	27058.68	217.37	8.88	3.39	273.75	38.78	<LOD	27.23	<LOD	3.54	91.93	8.22
MP097	7	8	480.64	34.99	<LOD	8.9	NA	NA	<LOD	80.97	35.52	10	16874.66	179.91	10.05	3.62	343.8	40.88	<LOD	28.6	<LOD	3.29	81.67	8.11
MP097	8	9	491.13	36.01	<LOD	9.31	NA	NA	92.07	57.79	31.82	9.03	21134.28	191.36	11.32	3.52	347.12	39.98	29.58	17.94	<LOD	3.52	82.44	7.88
MP097	9	10	738.07	35.81	<LOD	8.73	NA	NA	<LOD	88.05	36.72	9.45	21967.4	196.63	10.87	3.5	141.74	32.85	69.5	19.19	<LOD	3.21	89.69	8.07
MP097	10	11	592.38	35.66	<LOD	8.81	NA	NA	139.26	61.25	43.32	9.44	23744.34	201.8	10.1	3.46	347.11	40.2	60.71	18.92	<LOD	3.55	83.27	7.94
MP097	11	12	503.27	34.41	<LOD	8.5	NA	NA	<LOD	76.2	35.04	9.04	16730.93	168.37	13.12	3.55	240.56	34.77	<LOD	25.79	<LOD	3.14	63.41	7.02
MP097	12	13	495.6	35.96	<LOD	9.19	NA	NA	130.22	62.76	28.59	9.18	23936.14	207.13	16.65	3.88	323.5	40.4	36.95	18.82	<LOD	3.59	77.61	7.92
MP097	13	14	609.02	34.61	<LOD	8.46	NA	NA	<LOD	83.75	33.79	8.85	21001.47	186.45	10.93	3.4	315.47	37.96	53.87	17.92	<LOD	3.23	82.68	7.63
MP097	14	15	589.43	34.56	<LOD	8.38	NA	NA	112.11	56.16	36.72	8.96	20661.55	185.19	8.41	3.26	303.95	37.51	32.44	17.56	<LOD	3.24	78.22	7.49
MP097	15	16	853.88	47.87	<LOD	11.52	NA	NA	<LOD	140.06	42.59	14.56	35386.6	322.99	8.67	4.33	4000.94	139.96	87.28	28.69	<LOD	4.17	81.55	10.46
MP098	0	1	303.06	34	<LOD	8.87	NA	NA	<LOD	75.52	31.61	9.6	14831.33	166.1	19.42	4.13	304.37	38.42	<LOD	27.55	<LOD	3.86	77.12	8.14
MP098	1	2	721.26	42.3	<LOD	10.11	NA	NA	<LOD	108.71	35.69	13.58	21240.35	241.03	11.97	4.67	496.18	57.24	60.92	27.02	<LOD	6.57	106.61	11.55
MP098	2	3	302.35	37.47	<LOD	9.15	NA	NA	<LOD	126.63	52.88	13.3	31424.61	282.05	11.94	4.42	808.33	66.3	44.29	25.21	<LOD	4.58	80.39	9.62

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF		
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)	
	MP098	3			4	07/09/2015	80															Brown	ML	T/WR	Moist					290
MP098	4	5	07/09/2015	90									Dark Gray	GM	T/WR	Damp					6412	43.97	1775.55	22.1	697.76	15.71				
MP098	5	6	07/09/2015								x	x	Gray	GM	T/WR	Damp					1393	22.57	1213.89	19.67	229.83	10.68				
MP098	6	7	07/09/2015	50										NR	T/WR															
MP098	7	8	07/09/2015	50									Dark Gray	GM	T/WR	Damp														
MP098	8	9	07/09/2015	70							x		Dark Gray	GP-GM	T/WR	Damp														
MP098	9	10	07/09/2015	70							x		Dark Gray	GP-GM	T/WR	Damp														
MP098	10	11	07/09/2015	90	x							x	Dark Gray	GP	T/WR	Damp														
MP098	11	12	07/09/2015	80								x	Dark Gray	GP	T/WR	Dry														
MP098	12	13	07/09/2015	30									Dark Gray	NR	T/WR	Damp														
MP098	13	14	07/09/2015	30									Dark Gray	GP	T/WR	Damp														
MP098	14	15	07/09/2015	70									Dark Gray	GM	T/WR	Damp														
MP098	15	16	07/09/2015	70								x	Light Gray	GP-GM	T/WR	Damp					281	14.16	1950.63	23.49	40.71	6.44				
MP098	16	18	07/09/2015	5										NR	T/WR						188	12.14	281.99	8.11	< LOD	5.93				
MP098	18	20	07/09/2015	5									Dark Grayish Brown	SM	T/WR	Moist					15MP098SB20	220	1200	250	339	14.67	1686.29	21.85	90.22	7.29
MP098	20	21	07/09/2015	50										NR	WR						53	12.61	916.54	16.72	1213.15	21.07				
MP098	21	22	07/09/2015	50	x							x	Dark Grayish Brown	ML	WR	Damp					44	11.21	526.01	11.49	15.42	4.54				
MP098	22	23	07/09/2015	90								x	Brown	GM	WR	Damp					200	15.34	833	17.12	218.99	10.96				
MP098	23	24	07/09/2015	90									Brown	SM	DN (KG, MZ)	Damp					135	15.93	89.75	7.72	755.66	21.09				
MP098	24	25	07/09/2015	80								x	Brown	ML	DN (KG, MZ)	Damp					303	14.84	270	9.7	23.45	6.39				
MP098	25	26	07/09/2015	80								x	Gray	ML	N or DN (KG, MZ)	Moist					15MP098SB26	120	590	8900	413	14.79	1083.46	17.35	241.38	9.99
MP098	26	27	07/09/2015	100								x	Orange Brown	ML	N or DN (KG, MZ)	Damp					81	10.8	293.4	8.11	20.82	4.21				
MP098	27	28	07/09/2015	100								x	Orange Brown	GM	N or DN (KG, MZ)	Moist					101	10.98	223.27	7.23	16.43	3.99				
MP098	28	29	07/09/2015	50										NR	N (KG, MZ)															
MP098	29	30	07/09/2015	50								x	Orange Brown	ML	N (KG, MZ)	Wet					442	15.76	428.53	11.6	42.22	6.12				
MP098	30	31	07/09/2015	100									Yellowish Brown	GM	N (KG, MZ)	Saturated					264	12.87	286.3	8.29	60.58	5.59				
MP098	31	32	07/09/2015	100									Gray	ML	N (KG, MZ)	Wet					361	15.04	222.86	8.64	11.21	5.45				
MP098	32	33	07/09/2015	70									Brown	ML	N (KG, MZ)	Saturated					15MP098SB33	200	630	470	418	14.54	433.47	10.51	135.03	7.43
MP098	33	34	07/09/2015	70								x	Dark Grayish Brown	ML	N (KG, MZ)	Moist					523	15.63	170.01	7.1	12.75	4.82				
MP098	34	35	07/09/2015	60									Gray	GP	N (KG, MZ)	Wet														
MP098	35	36	07/09/2015	60								x	Light Gray	GP-GM	WB	Wet					15MP098SB36	480	4900	200	638	15.23	1729.36	19.5	59.93	5.76
MP098	36	37	07/09/2015	50										NR	WB															
MP098	37	38	07/09/2015	50									Orange Brown	GM	WB	Saturated					15MP098SB38	1600	4600	470	1747	23.75	2781.6	28.21	159.86	9.12
MP098	38	39	07/09/2015	30										NR	WB															
MP098	39	40	07/09/2015	30									Orange Brown	GW-GM	WB	Saturated					1351	20.55	1857.14	21.79	67.63	6.45				
MP098	40	41	07/09/2015	40										NR	WB															
MP098	41	42	07/09/2015	40								x	Orange Brown	GP-GM	WB	Saturated					1279	20.71	2610.38	27.01	290.49	11.12				
MP098	42	44	07/09/2015	100								x	Light Gray		WB	Wet														
MP098	44	45	07/09/2015	100								x	Light Gray		WB	Wet					1314	26.47	6242.8	53.11	949.49	23.99				
MP099	0	2	07/09/2015	30									Dark Grayish Brown	SM	T/WR	Dry														
MP099	2	4	07/09/2015	80	x							x	Grayish Brown	SM	T/WR	Dry					6587	47	6264.36	44.27	605.8	16.32				
MP099	4	6	07/09/2015	30	x							x	Dark Grayish Brown	SM	T/WR	Damp					3139	31.25	2606.98	27.09	142.16	8.54				
MP099	6	7	07/09/2015		x										T/WR						10017	60.14	4569.06	37.96	132.97	9.37				
MP099	7	8	07/09/2015	100	x							x	Olive Brown	ML	DN	Damp					558	14.81	273.58	8.18	29.91	4.74				
MP099	8	9	07/09/2015		x	x									T/WR						2525	26.36	1600.56	20.73	185.24	8.97				
MP099	9	10	07/09/2015	100	x	x						x	Brown	ML	DN	Moist					63	11.78	75.99	5.08	< LOD	6.26				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
MP098	3	4	936.61	40.09	< LOD	9.57	NA	NA	249.64	88.36	34.68	10.91	39715.36	291.51	12.02	4.04	777.78	61.38	46.08	22.77	< LOD	4.23	111.93	9.89
MP098	4	5	697.93	44.35	< LOD	12.53	NA	NA	99.49	56.31	99.11	13.27	15486.21	184.51	16.91	4.87	579.24	52.86	56.5	22.22	< LOD	6.04	74.19	10.54
MP098	5	6	1238.74	45.66	< LOD	10.77	NA	NA	< LOD	119.33	69.19	13.94	27836.3	265.56	8.68	4.41	657.29	61.35	100.51	26.61	< LOD	5.58	131.23	12.13
MP098	6	7																						
MP098	7	8																						
MP098	8	9																						
MP098	9	10																						
MP098	10	11																						
MP098	11	12																						
MP098	12	13																						
MP098	13	14																						
MP098	14	15																						
MP098	15	16	823	40.39	< LOD	9.65	NA	NA	220.43	91.78	69.22	12.7	40857.94	303.75	17.28	4.53	651.33	59.6	43.13	23.76	< LOD	5.1	148.74	11.61
MP098	16	18	722.59	36	< LOD	8.79	NA	NA	< LOD	80.24	27.17	8.92	18703.06	180.2	12.71	3.6	241.14	35.72	< LOD	26.28	< LOD	3.34	64.78	7.26
MP098	18	20	736.98	40.16	< LOD	9.73	NA	NA	241.33	89.37	65.8	12.61	38427.55	294.8	13.35	4.32	890.76	66.06	72.3	24.52	< LOD	5.03	127.05	10.92
MP098	20	21	1162.49	43.2	< LOD	10.1	NA	NA	< LOD	144.28	53.66	12.81	45156.41	325.78	8.52	4.89	1364.19	81.59	159.48	27.3	< LOD	6.49	91.99	12.68
MP098	21	22	760	36.83	< LOD	8.88	NA	NA	< LOD	99.88	30.83	9.91	25643.76	222.84	13.71	3.89	260.41	39.99	< LOD	29.22	< LOD	3.57	74.89	8.06
MP098	22	23	1333.01	48.58	< LOD	11.59	NA	NA	< LOD	102.83	31.14	13.4	18882.8	228.22	13.45	4.86	230.83	45.83	< LOD	38.54	< LOD	5.38	65.96	10.28
MP098	23	24	532.33	47.77	< LOD	12.02	NA	NA	< LOD	85.47	49.99	17.68	9926.09	189.7	13.09	5.96	87.77	41.7	< LOD	48.24	< LOD	7.49	38.21	12.45
MP098	24	25	481.3	40.05	< LOD	9.86	NA	NA	< LOD	127.89	65.09	14.1	32492.74	290	9.05	4.33	869.37	71.28	101.7	26.95	< LOD	4.96	151.12	12.54
MP098	25	26	780.66	39.26	< LOD	9.39	NA	NA	< LOD	117.1	51.35	11.83	31363.56	262	14.83	4.42	507.2	52.98	69.44	23.14	< LOD	4.97	95.02	10.07
MP098	26	27	512.18	33.39	< LOD	8.27	NA	NA	< LOD	77.63	38.86	9.11	17952.99	172.72	14.76	3.67	230.98	34.61	63.45	18.17	< LOD	3.48	87.98	7.83
MP098	27	28	518.3	33.51	< LOD	8.35	NA	NA	< LOD	73.43	25.21	8.78	15490.58	162.53	12.86	3.58	248.86	35.01	65.55	18.47	< LOD	3.22	64.64	7.05
MP098	28	29																						
MP098	29	30	1027.14	42.54	< LOD	10.08	NA	NA	182.77	83.33	26.36	11.65	31762.37	275.1	15.16	4.47	513.12	55.34	47.22	24.31	< LOD	4.38	97.23	10.01
MP098	30	31	867.79	37.2	< LOD	8.86	NA	NA	126.93	69.7	42.79	9.74	29861.05	231.52	8.76	3.49	710.81	53.07	43.59	19.27	< LOD	3.61	83.1	8.18
MP098	31	32	1062.5	42.45	< LOD	9.73	NA	NA	< LOD	106.43	70.1	13.49	22948.01	235.89	12.54	4.33	289.64	45.82	64.92	24.57	< LOD	4.36	74.55	9.26
MP098	32	33	1146.75	40.18	< LOD	9.35	NA	NA	< LOD	92.37	42.76	10.44	21809.95	206.32	9.99	3.77	410.88	44.9	53.7	20.31	< LOD	3.97	72.37	8.36
MP098	33	34	1232.68	41.68	< LOD	9.74	NA	NA	< LOD	71.41	31.36	10.72	11920.53	159.08	9.36	3.84	466.18	46.8	35.96	20.69	< LOD	3.84	30.15	6.66
MP098	34	35																						
MP098	35	36	714.22	36.27	< LOD	8.7	NA	NA	105.18	55.54	46.98	9.76	18924.49	182.88	9.06	3.57	285.31	38.31	< LOD	27.07	6.44	3.08	41.73	6.74
MP098	36	37																						
MP098	37	38	1494.73	45.52	< LOD	10.16	NA	NA	< LOD	174.07	50.83	12.2	66525.5	390.61	10.35	4.37	726.29	67.79	90.03	25.84	< LOD	6.18	86.51	10.14
MP098	38	39																						
MP098	39	40	932.71	40.3	< LOD	9.81	NA	NA	< LOD	156.64	58.35	11.41	61904.39	355.41	10.9	3.92	490.44	56.48	134.17	24.13	< LOD	4.71	107.72	9.77
MP098	40	41																						
MP098	41	42	1291.93	43.24	< LOD	9.75	NA	NA	209	124.02	58.79	12.22	77217.22	415.48	10.75	4.3	608.91	64.9	104.25	26.28	< LOD	5.87	108.11	10.97
MP098	42	44																						
MP098	44	45	2487.83	62.17	< LOD	13.1	NA	NA	< LOD	252.05	28.53	17.21	88476.57	567.38	< LOD	8.55	996.78	98.19	136.74	39	< LOD	10.57	90.86	15.77
MP099	0	2																						
MP099	2	4	662.23	46.76	15.53	8.92	NA	NA	127.93	82.33	68.53	13.88	29396	272.97	15.86	5.18	538.48	58.32	75.7	26.43	< LOD	8.05	99.97	12.4
MP099	4	6	531.84	42.26	< LOD	11.54	NA	NA	< LOD	109.95	54.24	12.17	26502.86	244.81	21.92	4.9	629.87	56.98	76.82	23.72	< LOD	5.55	86.34	9.79
MP099	6	7	1008.28	51.42	33.02	10.12	NA	NA	146.49	81.13	85.77	14.4	28167.44	268.2	15.73	4.84	624	60.97	98.02	26.76	< LOD	6.98	96.06	11.04
MP099	7	8	627.43	36.01	< LOD	8.94	NA	NA	131.67	57.41	32.57	9.43	19575.85	188.38	12.45	3.7	531.82	46.48	35.97	18.86	< LOD	3.5	76.55	7.85
MP099	8	9	544.44	38.99	< LOD	10.6	NA	NA	< LOD	96.5	38.59	11.1	21342.28	213.88	16.55	4.41	444.86	48.27	47.42	21.81	< LOD	4.96	81.29	9.35
MP099	9	10	479.29	36.73	< LOD	9.24	NA	NA	100.63	60.67	24.97	10.22	19392.5	200.16	11.26	3.86	429.64	46.23	< LOD	30.28	< LOD	3.56	54.44	7.45



Appendix B

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF			
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)		
																								< LOD	< LOD	< LOD	< LOD	< LOD			
MP099	10	11	07/09/2015			x											15MP099SB11	10000	4000	540	11982	66.69	2449.52	28.47	658.52	16.96					
MP099	11	12	07/09/2015	100								Olive Brown	ML	DN	Damp			15MP099SB12	110	280	35	52	12.07	379.4	10.48	< LOD	7.14				
MP099	12	13	07/09/2015											DN				15MP099SB13	3400	3200	640	5805	41.22	4050.46	35.7	303.89	12.22				
MP099	13	14	07/09/2015	70								Gray	SM	DN	Damp							54	10.92	18.97	3.04	< LOD	5.85				
MP099	14	15	07/09/2015											DN (loess)								< LOD	16.6	20.02	3.22	< LOD	5.77				
MP099	15	16	07/09/2015	100								Gray	SM	DN	Moist							< LOD	15.63	15.59	2.8	< LOD	5.13				
MP099	16	17	07/09/2015											DN				15MP099SB17	380	590	130	828	16.3	431.24	10.26	24.64	4.66				
MP099	17	18	07/09/2015	100	x							Olive Brown	ML	T/WR	Moist							< LOD	16.74	14.04	3.2	< LOD	5.78				
MP099	18	19	07/09/2015											DN				15MP099SB19	25 J	200	16	258	14.13	285.94	9.33	32.92	5.65				
MP099	19	20	07/09/2015	90								Gray	ML	N or DN	Damp							< LOD	20.14	58.83	5.54	< LOD	8.11				
MP099	20	21	07/09/2015											N or DN								< LOD	17.22	129.47	6.32	7.9	4.67				
MP099	21	22	07/09/2015	70								Brown	SM	N or DN	Damp							< LOD	16.82	135.61	6.53	8.15	4.57				
MP099	22	23	07/09/2015											N or DN								< LOD	15.57	77.39	4.71	< LOD	5.94				
MP099	23	24	07/09/2015	70								Brown	ML	WB	Moist							< LOD	15.85	163.69	6.54	9.11	4.15				
MP099	24	26	07/09/2015	90								Brown	ML	WB	Dry																
MP100	0	1	07/10/2015		x									T/WR								642	16.04	2049.57	23.37	166	8.71				
MP100	1	2	07/10/2015	80	x							Dark Gray	SM	T/WR	Damp							809	17.74	2163.47	24.27	101.89	7.45				
MP100	2	3	07/10/2015											T/WR								126	12.6	2069.94	23.58	7.96	5.12				
MP100	3	4	07/10/2015	60			x	x				Dark Gray	SM	T/WR	Damp							569	15.41	2857.26	25.93	7.38	4.76				
MP100	4	6	07/10/2015	30								Dark Gray	SM	T/WR	Damp							255	13.6	1892.93	22.38	79.12	6.92				
MP100	6	7	07/10/2015											T/WR								115	12.66	1050.69	16.96	36.33	5.92				
MP100	7	8	07/10/2015	70								Dark Gray	GM	T/WR	Damp							559	15.98	1775.99	22.24	120.41	8.02				
MP100	8	9	07/10/2015											T/WR								241	13.66	1235.96	18.43	56.86	6.64				
MP100	9	10	07/10/2015	100								Brown	SM	DN (loess)	Damp							331	12.45	24.73	3.16	< LOD	5.4				
MP100	10	11	07/10/2015											DN (loess)								15MP100SB11	730	140	6.3	579	13.99	128.75	5.67	6.95	3.93
MP100	11	12	07/10/2015	100								Gray	ML	N	Moist							157	11.63	3.63	2.39	< LOD	5.4				
MP100	12	13	07/10/2015											N								126	11.2	< LOD	3.5	< LOD	5.21				
MP100	13	14	07/10/2015	100								Gray	ML	N	Moist							51	11.09	28.96	3.43	< LOD	5.57				
MP100	14	16	07/10/2015	50								Grayish Brown	SM	N	Moist							< LOD	16.01	40.37	3.71	< LOD	5.42				
MP100	16	17	07/10/2015											N (loess)								15MP100SB17	63	110	8.9	30	10.67	41.2	3.64	< LOD	5.41
MP100	17	18	07/10/2015	100								Brown	SP	N (loess)	Moist							< LOD	15.35	51.49	3.94	< LOD	5.2				
MP100	18	19	07/10/2015											N (loess)								15MP100SB19	220 J+	110 J+	28	138	12.49	73.17	5.01	< LOD	6.29
MP100	19	20	07/10/2015	90								Gray	SP	N	Moist							< LOD	15.39	30.03	3.18	< LOD	5.06				
MP100	20	21	07/10/2015											N								15MP100SB21	63	96	13	27	10.13	56.2	3.88	< LOD	4.88
MP100	21	22	07/10/2015	100								Gray	SM	N	Saturated							< LOD	13.77	20.2	2.63	< LOD	4.57				
MP100	22	23	07/10/2015											N								< LOD	16.3	30.12	3.37	< LOD	5.4				
MP100	23	24	07/10/2015	100								Gray	SP-SM	N	Saturated							< LOD	14.66	28.87	3.17	< LOD	5.01				
MP100	24	25	07/10/2015											N								< LOD	14.73	35.48	3.24	< LOD	4.92				
MP100	25	26	07/10/2015	80								Gray	ML	N	Moist							< LOD	15.3	22.84	3.16	< LOD	5.44				
MP100	26	27	07/10/2015											N								< LOD	14.59	32.67	3.27	< LOD	5.07				
MP100	27	28	07/10/2015	70								Brownish Yellow	ML	N (KG)	Wet							< LOD	17.07	21.44	3.38	< LOD	6.2				
MP100	28	29	07/10/2015											N (KG)								< LOD	16.55	13.24	3.05	< LOD	6.13				
MP100	29	30	07/10/2015	100								Brown	GM	N (KG)	Wet							< LOD	15.65	22.41	3.16	< LOD	5.46				
MP100	30	31	07/10/2015											N (KG)								< LOD	14.86	25.31	3.07	< LOD	5.19				
MP100	31	32	07/10/2015	80								Brown	SM	N (KG)	Wet							< LOD	22.98	41.98	5.91	< LOD	11.65				
MP100	32	33	07/10/2015											N (KG)								< LOD	15.03	26.19	3.38	< LOD	5.49				



Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations							Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF			
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg							Cinnabar	White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)	
MP100	33	34	07/10/2015	80								Brown	GM	N (KG)	Moist					< LOD	18.4	47.71	4.49	< LOD	7.21					
MP100	34	35	07/10/2015												WB					< LOD	15.61	46.98	3.77	< LOD	5.45					
MP100	35	36	07/10/2015	90								Brown	GM	WB	Wet					< LOD	18.17	109.71	6.45	< LOD	7.43					
MP100	36	37	07/10/2015	70								Brown		WB	Moist					< LOD	18.52	62.83	5	< LOD	7.03					
MP101	0	1	07/10/2015	20	x							Dark Gray	GP	T/WR	Wet					836	17.44	2177.66	23.59	25.41	5.39					
MP101	1	2	07/10/2015									Dark Gray	GP	T/WR	Wet															
MP101	2	4	07/10/2015	50			x		x			Dark Gray	GP-GM	T/WR	Wet															
MP101	5	6	07/10/2015	50								Gray	GP	T/WR	Saturated						6696	45.35	3175.49	29.46	1216.37	20.35				
MP101	6	8	07/10/2015	50								Dark Gray	GP	T/WR	Saturated						2097	22.28	1317.1	17.07	526.15	12.24				
MP101	8	10	07/10/2015	50	x				x		x	Dark Gray	GP-GM	T/WR	Saturated						2565	25.89	1408.6	17.94	265.11	9.26				
MP101	10	11	07/10/2015		x						x	Dark Gray	GP-GM	T/WR	Saturated						630	22.28	613.57	18.43	77.22	10.47				
MP101	10	11	07/10/2015		x						x			T/WR							15MP101SB11	2500	1700	520	2357	24.82	1352.82	17.82	329.38	10.31
MP101	11	12	07/10/2015	70								Dark Gray	CH	N	Moist						80	12.42	98.38	6.2	< LOD	6.97				
MP101	12	13	07/10/2015											N							15MP101SB13	870	840	220	1582	21.41	914.53	15.32	161.79	8.28
MP101	13	14	07/10/2015	100								Dark Gray	CH	N (KG)	Moist						15MP101SB14	200	300	21	201	13.3	267.36	8.75	12.07	4.81
MP101	14	15	07/10/2015											WB							205	12.54	358.54	9.46	25.32	4.93				
MP101	15	16	07/10/2015	100								Dark Gray	GP-GC	WB	Moist						86	13.08	248.28	8.86	< LOD	7.36				
MP101	16	17	07/10/2015											WB							181	13.93	772.06	15.49	12.1	5.27				
MP101	17	18	07/10/2015	60								Brown		WB	Damp						97	12.34	414.7	10.46	< LOD	6.6				
RD21	1	2	07/11/2015	50			x				x	Dark Grayish Brown	GP-GM	T/WR	Wet						1260	19	853	10	41	2				
RD21	2	3	07/11/2015				x				x			T/WR							1190	21	1105	14	30	2				
RD21	3	4	07/11/2015	90	x						x	Brown	GP-GC	T/WR	Wet						<LOD	44	16	2	<LOD	3				
RD21	4	5	07/11/2015											T/WR							15RD21SB05	740	1300	200	1356	21	867	11	35	2
RD21	5	6	07/11/2015	100	x						x	Brown	GP-GC	T/WR	Wet						56	14	19	2	4	1				
RD21	6	7	07/11/2015											WB							1778	25	1774	20	24	2				
RD21	7	8	07/11/2015	100								Gray		WB	Damp						<LOD	42	9	2	3	1				
RD22	0	1	07/11/2015	50								Brown	ML	N	Damp						15RD22SB01	210	270	20	47	10.85	20.55	3.17	< LOD	5.62
RD22	2	3	07/11/2015											N							92	11.07	43.45	4.01	< LOD	5.99				
RD22	3	4	07/11/2015	70								Brown	ML	N	Moist						< LOD	16.27	26.23	3.42	< LOD	5.81				
RD22	4	5	07/11/2015											N							< LOD	14.92	19.09	3	< LOD	5.68				
RD22	5	6	07/11/2015	100								Brown	SM	N	Moist						< LOD	16.99	13.14	3.02	< LOD	6.58				
RD22	6	7	07/11/2015											N							< LOD	15.67	13.94	2.68	< LOD	5.21				
RD22	7	8	07/11/2015	100								Brown	ML	N (KG)	Moist						< LOD	16.19	9.86	2.65	< LOD	5.65				
RD22	8	9	07/11/2015											N (KG)							15RD22SB09	9.9	24 J+	3.5	162	11.91	74.45	4.77	6.39	4.21
RD22	9	10	07/11/2015	90								Grayish Brown	ML	N (KG)	Moist						< LOD	16.77	13.02	3.26	< LOD	6.26				
RD22	10		07/11/2015											N (KG)																
RD22	11	12	07/11/2015	50								Gray	GM	N (KG)	Wet						< LOD	14.79	20.96	2.91	< LOD	5.45				
RD22	12		07/11/2015											N (KG)																
RD22	13	14	07/11/2015	50								Grayish Brown	ML	N (KG)	Moist						< LOD	17.68	20.75	3.66	< LOD	6.95				
RD22	14	15	07/11/2015											N (KG)							< LOD	17.94	6.56	3.08	< LOD	6.65				
RD22	15	16	07/11/2015	100								Gray	GC	N (KG)	Moist						< LOD	16.95	6.48	2.94	< LOD	6.53				
RD22	16	17	07/11/2015											N (KG)							< LOD	14.91	26.92	2.99	< LOD	4.97				
RD22	17	18	07/11/2015	80								Gray	GP-GC	WB	Moist						< LOD	17.64	8.2	3.23	< LOD	6.6				
RD22	18	19	07/11/2015											WB							< LOD	15.52	21	3.25	< LOD	5.55				
RD22	19	20	07/11/2015	80								Gray		WB	Moist						< LOD	16.39	9.9	2.77	< LOD	6.17				
SM67	1	2	07/14/2015	50								Olive Brown	ML	DN (KG and loess)	Damp						<LOD	39	61	3	<LOD	3				
SM67	2	3	07/14/2015											N (loess)							<LOD	95	<LOD	37	<LOD	20				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
MP100	33	34	1109.29	43.27	< LOD	10.02	NA	NA	< LOD	107.97	40.93	12.07	24445.81	238.83	7.62	3.82	132.98	38.35	81.34	24.37	< LOD	3.83	77.77	9.03
MP100	34	35	638.89	34.74	< LOD	8.52	NA	NA	96.78	57.88	35.3	8.99	21920.73	191.82	8.44	3.21	587.33	46.61	39.03	17.85	< LOD	2.98	82.68	7.69
MP100	35	36	514.9	40.64	< LOD	9.95	NA	NA	< LOD	189.3	33.28	12.72	70285.01	427.02	< LOD	5.74	3115.93	121.04	79.44	27.67	< LOD	3.94	75.21	9.4
MP100	36	37	717.76	41.4	< LOD	10.04	NA	NA	136.28	86.43	< LOD	16.86	34298.64	287.35	6.36	3.81	351.34	50.18	< LOD	35.56	< LOD	4.11	54.09	8.13
MP101	0	1	729.93	38.77	< LOD	9.65	NA	NA	< LOD	106.7	42.01	10.98	27370.81	237.85	9.92	3.83	1720.66	80.24	107.22	23.01	< LOD	4.84	111.56	9.75
MP101	1	2																						
MP101	2	4	413.23	42.98	< LOD	12.64	NA	NA	< LOD	106.69	89.22	13	25687.84	236.93	23.54	5.5	512.42	52.63	100.36	23.8	< LOD	7.25	117.77	12.89
MP101	5	6	204.5	33.51	< LOD	9.07	NA	NA	89.27	57.3	41.94	9.54	20538.58	189.74	14.47	4.02	527.54	45.92	39.99	18.51	< LOD	4.59	64.11	8.54
MP101	6	8	511.72	37.71	< LOD	10.12	NA	NA	100.19	58.27	50.57	10.06	20374.49	192.61	15.56	4.04	683.5	51.32	48.31	19.18	< LOD	4.41	76.18	8.47
MP101	8	10	326.26	51.19	< LOD	13.2	NA	NA	207.61	110.46	40.65	20.17	30569.07	362.84	9.25	5.58	370.78	67.96	< LOD	58.41	< LOD	6.58	71.45	12.93
MP101	10	11	459.48	37.13	< LOD	10.01	NA	NA	< LOD	87.49	51.55	10.38	20114.89	193.85	12.26	3.95	428.28	44.34	61.08	19.91	< LOD	4.66	78.9	8.85
MP101	11	12	1343.13	42.6	< LOD	9.67	NA	NA	223.57	95.7	89.94	12.67	47999.63	317.7	35.08	5.48	210.64	44.78	75.61	23.43	19.6	3.46	119.73	10.07
MP101	12	13	685.43	38.49	< LOD	9.72	NA	NA	< LOD	109.81	57.98	11.25	29605.12	243.99	16.8	4.24	398.22	46.74	57.77	21.36	< LOD	4.41	83.62	9.07
MP101	13	14	620.12	38.65	< LOD	9.58	NA	NA	< LOD	142.36	33.91	11.01	47197.67	319.23	< LOD	5.3	699.95	60.54	73.94	23.44	< LOD	4.03	82.14	8.83
MP101	14	15	761.65	37	< LOD	8.92	NA	NA	< LOD	104.31	39.74	10.2	27953.35	231.34	6.46	3.41	409.11	45.52	67.82	20.77	< LOD	3.85	63.26	7.64
MP101	15	16	796.1	41.85	< LOD	10.09	NA	NA	< LOD	179.22	23.59	11.49	69549.63	406.76	5.83	3.71	5203.87	144.93	130.89	26.92	< LOD	3.94	91.9	9.65
MP101	16	17	1100.94	43.57	< LOD	10.09	NA	NA	< LOD	223.62	28.04	11.92	104036.1	507.12	< LOD	5.47	7699.93	179.06	149.5	29.15	< LOD	4.61	89.56	9.8
MP101	17	18	753.58	38.93	< LOD	9.6	NA	NA	< LOD	127.32	24.81	10.17	42671.97	296.48	5.65	3.42	4472.09	123.7	92.97	21.84	< LOD	3.77	79.94	8.46
RD21	1	2	9	2	<LOD	36	6	1	64	6	12	2	2506	24	7	1	87	3	11	2	5	1	33	2
RD21	2	3	12	3	<LOD	40	7	2	60	7	8	2	2672	30	5	2	91	4	<LOD	6	<LOD	4	25	2
RD21	3	4	14	3	<LOD	44	6	2	31	5	30	3	1238	17	6	2	13	2	<LOD	6	4	1	11	2
RD21	4	5	9	3	<LOD	39	5	2	57	6	9	2	2930	30	<LOD	4	72	3	8	2	<LOD	4	23	2
RD21	5	6	13	3	<LOD	41	<LOD	5	55	7	6	2	3174	36	<LOD	4	11	2	<LOD	6	5	1	47	2
RD21	6	7	13	3	<LOD	39	11	2	71	7	10	2	3505	36	<LOD	4	53	3	11	2	<LOD	5	29	2
RD21	7	8	<LOD	9	<LOD	43	6	2	70	8	16	2	3347	38	6	2	57	3	<LOD	7	<LOD	3	31	2
RD22	0	1	453.61	34.1	< LOD	8.55	NA	NA	< LOD	80.59	21.06	9.03	17585.5	178.47	10.3	3.52	245.35	36.39	< LOD	26.94	< LOD	3.08	55.37	6.94
RD22	2	3	309.54	33.01	< LOD	8.32	NA	NA	< LOD	85.31	25.71	9.33	19575.59	189.03	14.48	3.79	243.7	36.89	< LOD	27.93	< LOD	3.29	62.76	7.37
RD22	3	4	506.02	35.28	< LOD	8.77	NA	NA	96.31	52.37	14.1	8.8	16297.96	171.99	12.36	3.63	258.42	36.5	< LOD	27.12	< LOD	3.09	54.33	6.96
RD22	4	5	173.53	31.97	< LOD	8.13	NA	NA	< LOD	74.58	< LOD	13.12	14899.22	164.16	6.98	3.32	226.95	34.92	< LOD	26.92	< LOD	3.25	42.35	6.39
RD22	5	6	803.67	38.67	< LOD	9.21	NA	NA	< LOD	101.16	38.56	10.76	24634.63	225.01	8.57	3.63	371.39	45.19	31.15	20.74	< LOD	3.64	75.07	8.37
RD22	6	7	587	34.65	< LOD	8.61	NA	NA	< LOD	74.08	15.28	8.21	16046.15	163.92	6.93	3.15	241.22	34.34	< LOD	25.06	< LOD	2.99	51.24	6.48
RD22	7	8	745.43	36.32	< LOD	8.98	NA	NA	< LOD	80.61	23.19	9.01	18451.52	180.56	8.07	3.33	192.36	34.2	49.11	18.6	< LOD	3.15	67.75	7.31
RD22	8	9	413.31	34.42	< LOD	8.67	NA	NA	< LOD	77.96	17.17	9.32	15814.88	173.35	8.49	3.5	239.52	36.65	39.32	19.34	< LOD	3.42	52.9	7.08
RD22	9	10	521.64	37.24	< LOD	9.35	NA	NA	101.96	61.96	33.21	10.73	19959.48	204.42	14.18	4.04	237.61	39.53	< LOD	30.94	< LOD	3.42	83.04	8.63
RD22	10																							
RD22	11	12	528.11	33.18	< LOD	8	NA	NA	< LOD	81.15	29.79	8.76	19776.28	181.24	6.4	3.09	463.54	42.35	45.1	17.68	< LOD	2.99	66.17	7.06
RD22	12																							
RD22	13	14	748.68	40.19	< LOD	9.77	NA	NA	< LOD	135.58	65.84	12.56	40849.19	303.17	12.93	4.15	1114.54	71.79	57.48	23.63	< LOD	3.68	102.24	9.75
RD22	14	15	799.29	40.97	< LOD	9.76	NA	NA	248.23	109.01	60.99	12.35	58204.8	362.95	12.62	4.16	1209.18	76.43	< LOD	36.08	< LOD	3.81	115.38	10.22
RD22	15	16	705.75	38.46	< LOD	9.26	NA	NA	< LOD	131.48	52.93	11.42	41380.77	294.2	12.53	3.97	896.81	63.88	48.59	22.1	< LOD	3.69	90.38	9
RD22	16	17	473.91	32.39	< LOD	7.98	NA	NA	101.52	54.73	41.84	8.47	21935.65	181.21	8.02	3.02	482.67	41.08	35.04	16.37	< LOD	2.82	78.2	7.05
RD22	17	18	1135.08	41.86	< LOD	9.63	NA	NA	147.9	83.1	58.27	11.85	35626.94	276.27	17.29	4.32	616.79	56.28	50.77	22.6	< LOD	3.68	106.69	9.7
RD22	18	19	889.11	36.38	< LOD	8.52	NA	NA	117.66	58.85	59.05	9.88	22458.75	194.37	16.45	3.75	487.97	44.01	57.55	18.54	< LOD	2.99	113.36	8.65
RD22	19	20	579.01	36.57	< LOD	8.93	NA	NA	< LOD	103.3	35.22	10.26	26906.52	229.79	7.27	3.46	383.42	44.85	43.24	20.46	< LOD	3.4	82.41	8.35
SM67	1	2	12	3	<LOD	39	<LOD	4	36	5	10	2	1868	21	6	1	29	2	<LOD	5	<LOD	3	17	2
SM67	2	3	<LOD	252	<LOD	100	43458	1166	1265	120	767	44	134610	3586	88	13	3434	127	14133	387	<LOD	20	<LOD	40

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
SM67	3	4	07/14/2015	90								Olive Brown	ML	N (loess)	Damp					<LOD	35	16	2	<LOD	2				
SM67	4	5	07/14/2015	70								Olive Brown	ML	N (loess)	Moist					<LOD	32	5	1	<LOD	2				
SM67	6	7	07/14/2015											N (loess)						<LOD	35	6	2	<LOD	2				
SM67	7	8	07/14/2015	80								Olive Brown	ML	N (loess)	Moist					<LOD	33	8	1	2	1				
SM67	8	9	07/14/2015											N (loess)						<LOD	41	122	4	4	1				
SM67	9	10	07/14/2015	100								Olive Brown	ML	WB	Moist					<LOD	38	111	4	4	1				
SM67	10	11	07/14/2015											WB						<LOD	39	116	4	4	1				
SM67	11	12	07/14/2015	100								Grayish Brown	GP	WB	Dry					<LOD	42	157	4	5	1				
SM67	12	13	07/14/2015											WB						<LOD	40	196	5	5	1				
SM67	13	14	07/14/2015	80								Grayish Brown		WB	Damp					<LOD	38	138	4	3	1				
SM67	14	15	07/14/2015											WB						<LOD	35	90	3	5	1				
SM67	15	16	07/14/2015	100								Gray		WB	Dry					<LOD	44	162	5	<LOD	4				
SM67	16	17	07/14/2015											WB						<LOD	40	103	4	5	1				
SM67	17	18	07/14/2015	100								Gray		WB	Damp					<LOD	33	13	1	3	1				
SM67	18	19	07/14/2015											WB						<LOD	44	119	4	<LOD	4				
SM67	19	20	07/14/2015									Gray		WB	Damp					<LOD	42	98	4	6	1				
SM67	20	21	07/14/2015									Gray		B	Dry					<LOD	38	55	3	4	1				
SM67	21	22	07/14/2015									Gray		B	Damp					<LOD	36	75	3	6	1				
SM67	22	23	07/14/2015									Gray		B	Dry					<LOD	38	78	3	4	1				
SM67	23	24	07/14/2015									Grayish Brown		B	Dry					<LOD	36	75	3	4	1				
SM67	24	25	07/14/2015									Grayish Brown		B	Dry					<LOD	36	44	2	3	1				
SM67	25	26	07/14/2015									Grayish Brown		B	Dry					<LOD	38	106	3	<LOD	3				
SM67	26	27	07/14/2015									Grayish Brown		B	Dry					<LOD	38	73	3	3	1				
SM67	27	28	07/14/2015									Grayish Brown		B	Dry					<LOD	39	93	3	5	1				
SM67	28	29	07/14/2015									Grayish Brown		B	Dry					<LOD	38	85	3	<LOD	3				
SM67	29	30	07/14/2015									Dark Gray		B	Dry					<LOD	39	79	3	4	1				
SM67	30	31	07/14/2015									Grayish Brown		B	Dry					<LOD	39	60	3	<LOD	3				
SM67	31	32	07/14/2015									Gray		B	Dry					<LOD	38	79	3	5	1				
SM67	32	33	07/14/2015									Brown		B	Dry					<LOD	37	89	3	5	1				
SM67	33	34	07/14/2015									Brown		B	Dry					<LOD	37	112	3	3	1				
SM67	34	35	07/14/2015									Grayish Brown		B	Dry					<LOD	37	77	3	4	1				
SM67	35	36	07/14/2015									Grayish Brown		B	Dry					<LOD	37	78	3	4	1				
SM67	36	37	07/14/2015									Grayish Brown		B	Dry					<LOD	36	67	3	<LOD	3				
SM67	37	38	07/14/2015									Dark Gray		B	Dry					<LOD	39	62	3	3	1				
SM67	38	39	07/14/2015									Dark Gray		B	Dry					<LOD	35	74	3	<LOD	3				
SM67	39	40	07/14/2015									Black		B	Dry					<LOD	36	91	3	5	1				
SM67	40	41	07/14/2015									Dark Gray		B	Dry					<LOD	38	92	3	4	1				
SM67	41	42	07/14/2015									Gray		B	Damp					<LOD	40	86	3	<LOD	3				
SM67	42	43	07/14/2015									Gray		B	Damp					<LOD	41	80	3	<LOD	3				
SM67	43	44	07/14/2015									Dark Gray		B	Damp					<LOD	38	95	3	3	1				
SM67	44	45	07/14/2015									Gray		B	Damp					<LOD	39	86	3	<LOD	3				
SM67	45	46	07/14/2015									Grayish Brown		B	Damp					<LOD	41	99	4	<LOD	3				
SM67	46	47	07/14/2015									Brown		B	Damp					<LOD	40	176	5	<LOD	3				
SM67	47	48	07/14/2015									Gray		B	Damp					<LOD	40	67	3	<LOD	3				
SM67	48	49	07/14/2015									Gray		B	Damp					<LOD	41	109	4	<LOD	3				
SM67	49	50	07/14/2015									Gray		B	Dry					<LOD	39	54	3	4	1				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF		
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM67	3	4	8	2	<LOD	36	<LOD	4	58	5	5	2	2133	22	<LOD	4	24	2	<LOD	5	<LOD	2	18	1
SM67	4	5	7	2	<LOD	36	4	1	44	5	7	2	1912	19	5	1	23	2	<LOD	5	<LOD	2	19	1
SM67	6	7	7	2	<LOD	32	<LOD	3	45	4	5	1	1735	17	5	1	25	2	5	2	<LOD	2	18	1
SM67	7	8	10	2	<LOD	33	4	1	47	5	7	2	1840	18	<LOD	3	38	2	6	2	3	1	17	1
SM67	8	9	22	3	<LOD	42	8	2	119	10	20	2	5547	58	8	2	64	4	<LOD	8	<LOD	3	36	2
SM67	9	10	20	3	<LOD	39	<LOD	5	66	7	18	2	3437	36	8	2	78	3	<LOD	7	<LOD	3	43	2
SM67	10	11	33	3	<LOD	40	<LOD	5	106	9	23	2	5077	51	11	2	56	3	<LOD	8	4	1	51	2
SM67	11	12	21	3	<LOD	42	10	2	102	9	16	2	5364	56	10	2	110	4	<LOD	8	<LOD	3	58	3
SM67	12	13	29	3	<LOD	40	9	2	89	9	20	2	5039	50	8	2	162	5	13	3	4	1	50	2
SM67	13	14	14	3	<LOD	39	5	2	49	7	12	2	3472	35	<LOD	4	107	4	11	2	<LOD	3	31	2
SM67	14	15	16	3	<LOD	35	6	1	43	6	6	2	2736	26	<LOD	4	67	3	6	2	<LOD	2	30	2
SM67	15	16	20	4	<LOD	44	8	2	101	11	15	2	7136	77	6	2	359	8	<LOD	9	<LOD	3	57	3
SM67	16	17	22	3	<LOD	40	<LOD	5	102	9	17	2	5599	57	6	2	91	4	<LOD	8	<LOD	3	40	2
SM67	17	18	12	2	<LOD	33	4	1	12	2	6	2	551	7	4	1	8	1	5	1	<LOD	2	9	1
SM67	18	19	23	4	<LOD	44	<LOD	7	193	15	28	3	12316	131	19	2	210	7	<LOD	12	5	1	66	3
SM67	19	20	23	3	<LOD	43	6	2	83	8	16	2	3814	43	8	2	37	3	<LOD	7	<LOD	3	46	2
SM67	20	21	20	3	<LOD	39	9	2	69	7	15	2	2910	30	7	1	41	3	<LOD	6	<LOD	3	35	2
SM67	21	22	20	3	<LOD	36	6	1	66	6	22	2	2714	27	8	1	55	3	9	2	<LOD	3	32	2
SM67	22	23	19	3	<LOD	38	<LOD	5	106	8	23	2	4123	41	9	2	52	3	<LOD	7	<LOD	3	46	2
SM67	23	24	20	3	<LOD	37	7	2	111	7	18	2	3803	37	7	1	50	3	<LOD	7	<LOD	3	42	2
SM67	24	25	15	3	<LOD	37	6	1	52	5	11	2	2154	22	7	1	23	2	8	2	<LOD	2	26	2
SM67	25	26	17	3	<LOD	38	5	2	96	7	18	2	3912	39	6	1	41	3	10	2	<LOD	3	47	2
SM67	26	27	27	3	<LOD	39	6	2	110	9	22	2	5280	53	7	2	140	4	<LOD	8	<LOD	3	47	2
SM67	27	28	18	3	<LOD	39	8	2	87	8	18	2	4054	41	7	2	53	3	7	2	<LOD	3	46	2
SM67	28	29	22	3	<LOD	38	<LOD	5	73	7	16	2	3680	37	6	1	42	3	<LOD	7	<LOD	3	42	2
SM67	29	30	20	3	<LOD	40	10	2	89	8	18	2	3951	40	7	1	53	3	7	2	<LOD	3	50	2
SM67	30	31	26	3	<LOD	40	<LOD	5	78	9	13	2	5539	56	6	2	265	6	<LOD	8	<LOD	3	40	2
SM67	31	32	19	3	<LOD	38	6	2	83	7	16	2	3823	38	6	1	73	3	<LOD	6	3	1	40	2
SM67	32	33	17	3	<LOD	38	6	2	101	8	19	2	4269	42	11	2	52	3	7	2	4	1	47	2
SM67	33	34	10	3	<LOD	38	8	2	76	7	9	2	3951	39	5	1	49	3	<LOD	7	3	1	36	2
SM67	34	35	21	3	<LOD	37	<LOD	5	54	7	12	2	3302	33	<LOD	4	62	3	10	2	<LOD	3	38	2
SM67	35	36	20	3	<LOD	38	6	2	76	7	9	2	3352	34	5	1	43	3	<LOD	6	<LOD	3	35	2
SM67	36	37	24	3	<LOD	36	<LOD	4	74	6	21	2	2940	29	6	1	31	2	8	2	<LOD	3	39	2
SM67	37	38	18	3	<LOD	39	7	2	94	8	17	2	4140	42	<LOD	4	65	3	<LOD	7	<LOD	3	43	2
SM67	38	39	13	3	<LOD	36	<LOD	4	68	6	12	2	2980	29	6	1	31	2	<LOD	6	<LOD	3	32	2
SM67	39	40	24	3	<LOD	37	6	2	75	7	27	2	3358	33	11	2	40	3	12	2	3	1	53	2
SM67	40	41	24	3	<LOD	37	6	2	96	7	16	2	3866	38	7	1	58	3	<LOD	7	<LOD	3	47	2
SM67	41	42	33	3	<LOD	40	8	2	106	8	18	2	4022	42	9	2	96	4	<LOD	7	<LOD	3	46	2
SM67	42	43	22	3	<LOD	41	8	2	64	6	22	2	2517	28	8	2	21	2	8	2	<LOD	3	49	2
SM67	43	44	32	3	<LOD	39	7	2	63	6	24	2	2820	29	7	2	29	2	13	2	<LOD	3	54	2
SM67	44	45	17	3	<LOD	40	<LOD	5	84	8	23	2	3819	41	11	2	50	3	<LOD	7	<LOD	3	49	2
SM67	45	46	18	3	<LOD	41	8	2	136	9	20	2	5323	55	9	2	68	4	<LOD	8	<LOD	3	56	3
SM67	46	47	16	3	<LOD	40	<LOD	5	124	10	12	2	5633	58	7	2	104	4	<LOD	8	<LOD	3	36	2
SM67	47	48	20	3	<LOD	40	6	2	124	10	14	2	6061	61	6	2	60	4	<LOD	8	<LOD	3	34	2
SM67	48	49	19	3	<LOD	41	7	2	107	9	16	2	4616	48	9	2	59	3	<LOD	8	<LOD	3	35	2
SM67	49	50	19	3	<LOD	39	<LOD	5	79	8	15	2	3959	40	6	1	52	3	<LOD	7	<LOD	3	32	2

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
																								<LOD	<LOD	<LOD	<LOD	<LOD	
SM67	50	51	07/14/2015									Dark Gray		B	Dry					<LOD	37	41	2	4	1				
SM67	51	52	07/14/2015									Dark Gray		B	Dry					<LOD	40	68	3	4	1				
SM67	52	53	07/14/2015									Gray		B	Dry					<LOD	38	54	3	<LOD	3				
SM67	53	54	07/14/2015									Gray		B	Dry					<LOD	40	60	3	3	1				
SM67	54	55	07/14/2015									Light Gray		B	Dry					<LOD	42	53	3	<LOD	3				
SM67	55	56	07/14/2015									Gray		B	Damp					<LOD	38	70	3	7	1				
SM67	56	57	07/14/2015									Black		B	Dry					<LOD	39	65	3	4	1				
SM67	57	58	07/14/2015									Gray		B	Damp					<LOD	42	69	3	<LOD	3				
SM67	58	59	07/14/2015									Gray		B	Dry					<LOD	40	64	3	4	1				
SM67	59	60	07/14/2015									Gray		B	Dry					<LOD	40	65	3	<LOD	3				
SM67	60	61	07/14/2015									Gray		B	Dry					<LOD	45	77	3	<LOD	3				
SM67	61	62	07/14/2015									Gray		B	Dry					<LOD	43	369	8	<LOD	4				
SM67	62	63	07/14/2015									Dark Gray		B	Damp					<LOD	42	97	4	<LOD	3				
SM67	63	64	07/14/2015									Dark Gray		B	Damp	MW39	63 - 83			<LOD	39	96	3	4	1				
SM67	64	65	07/14/2015									Gray		B	Damp	MW39	63 - 83			<LOD	41	92	3	<LOD	3				
SM67	65	66	07/14/2015									Gray		B	Dry	MW39	63 - 83			<LOD	38	43	2	3	1				
SM67	66	67	07/14/2015									Gray		B	Dry	MW39	63 - 83			<LOD	39	59	3	<LOD	3				
SM67	67	68	07/14/2015									Gray		B	Dry	MW39	63 - 83			<LOD	40	67	3	<LOD	3				
SM67	68	69	07/14/2015									Gray		B	Damp	MW39	63 - 83			<LOD	40	46	3	<LOD	3				
SM67	69	70	07/14/2015									Light Gray		B	Damp	MW39	63 - 83			<LOD	39	40	2	4	1				
SM67	70	71	07/14/2015									Gray		B	Damp	MW39	63 - 83			<LOD	40	159	4	<LOD	3				
SM67	71	72	07/14/2015									Dark Gray		B	Damp	MW39	63 - 83			<LOD	38	77	3	4	1				
SM67	72	73	07/14/2015									Dark Gray		B	Damp	MW39	63 - 83			<LOD	39	79	3	3	1				
SM67	73	74	07/14/2015									Gray		B	Dry	MW39	63 - 83			<LOD	44	69	3	<LOD	3				
SM67	74	75	07/14/2015									Dark Gray		B	Damp	MW39	63 - 83			<LOD	41	54	3	<LOD	3				
SM67	75	76	07/14/2015									Dark Gray		B	Damp	MW39	63 - 83			<LOD	38	81	3	5	1				
SM67	76	77	07/14/2015									Dark Gray		B	Damp	MW39	63 - 83			<LOD	38	85	3	4	1				
SM67	77	78	07/14/2015									Dark Gray		B	Damp	MW39	63 - 83			<LOD	41	87	3	<LOD	3				
SM67	78	79	07/14/2015									Dark Gray		B	Damp	MW39	63 - 83			<LOD	39	116	4	3	1				
SM67	79	80	07/14/2015									Dark Gray		B	Damp	MW39	63 - 83			<LOD	38	93	3	<LOD	3				
SM67	80	81	07/14/2015									Gray		B	Damp	MW39	63 - 83			<LOD	42	52	3	<LOD	3				
SM67	81	82	07/14/2015									Gray		B	Dry	MW39	63 - 83			<LOD	38	41	2	<LOD	3				
SM67	82	83	07/14/2015									Light Gray		B	Dry	MW39	63 - 83			<LOD	42	44	3	4	1				
SM67	83	84	07/14/2015									Dark Gray		B	Damp					<LOD	39	93	3	4	1				
SM67	84	85	07/14/2015									Gray		B	Damp					<LOD	40	66	3	3	1				
SM67	85	86	07/14/2015									Dark Gray		B	Damp					<LOD	38	83	3	5	1				
SM67	86	87	07/14/2015									Dark Gray		B	Damp					<LOD	40	50	3	<LOD	3				
SM67	87	88	07/14/2015									Gray		B	Dry					<LOD	38	48	2	<LOD	3				
SM67	88	89	07/14/2015									Gray		B	Dry					<LOD	41	43	2	<LOD	3				
SM67	89	90	07/14/2015									Gray		B	Dry					<LOD	42	35	2	4	1				
SM68a	0	2	07/15/2015	0																									
SM68a	3	4	07/15/2015	50								Brown	NR	GP-GM	DN (KG)	Damp				137	18	187	6	7	2				
SM68a	4	5	07/15/2015																	<LOD	68	120	6	<LOD	6				
SM68a	5	6	07/15/2015	60									GP-GM	DN (KG)					<LOD	38	93	3	<LOD	3					
SM68a	6	7	07/15/2015																	<LOD	45	122	4	4	1				
SM68a	7	8	07/15/2015	100								Black		DN (KG)	Moist					<LOD	42	153	4	4	1				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM67	50	51	15	3	<LOD	38	<LOD	4	48	6	12	2	2835	29	<LOD	4	29	2	<LOD	6	<LOD	3	27	2
SM67	51	52	22	3	<LOD	40	6	2	108	9	21	2	4677	48	6	2	54	3	<LOD	7	<LOD	3	47	2
SM67	52	53	16	3	<LOD	39	5	2	72	7	10	2	3013	32	6	1	19	2	<LOD	6	<LOD	3	32	2
SM67	53	54	13	3	<LOD	40	<LOD	5	84	8	8	2	3994	41	5	1	74	3	<LOD	7	<LOD	3	31	2
SM67	54	55	10	3	<LOD	42	8	2	109	10	9	2	5501	59	<LOD	4	187	5	<LOD	8	<LOD	3	29	2
SM67	55	56	21	3	<LOD	38	7	2	54	6	20	2	2635	27	12	2	43	3	7	2	<LOD	3	51	2
SM67	56	57	24	3	<LOD	40	7	2	81	8	22	2	3694	38	11	2	47	3	<LOD	7	4	1	62	3
SM67	57	58	22	3	<LOD	42	8	2	72	8	20	2	3439	38	7	2	30	3	<LOD	7	<LOD	3	49	2
SM67	58	59	22	3	<LOD	40	<LOD	5	92	8	24	2	3649	38	5	1	39	3	<LOD	7	<LOD	3	42	2
SM67	59	60	23	3	<LOD	40	8	2	124	10	15	2	5837	59	7	2	84	4	<LOD	8	<LOD	3	38	2
SM67	60	61	14	4	<LOD	45	<LOD	6	147	11	10	2	6698	75	<LOD	5	73	4	<LOD	9	<LOD	3	38	2
SM67	61	62	<LOD	11	<LOD	44	<LOD	6	186	13	9	2	8238	90	12	2	27	4	<LOD	10	7	1	36	2
SM67	62	63	19	4	<LOD	42	11	2	191	11	19	2	7494	77	<LOD	5	36	4	<LOD	9	7	1	41	2
SM67	63	64	25	3	<LOD	39	7	2	88	8	25	2	3975	41	7	2	45	3	<LOD	7	<LOD	3	58	2
SM67	64	65	16	3	<LOD	42	<LOD	5	97	9	11	2	5075	54	6	2	61	4	<LOD	8	<LOD	3	33	2
SM67	65	66	12	3	<LOD	39	<LOD	4	49	7	7	2	2943	31	5	1	76	3	<LOD	6	<LOD	3	29	2
SM67	66	67	19	3	<LOD	39	<LOD	4	53	6	10	2	2803	30	<LOD	4	100	4	<LOD	6	<LOD	3	28	2
SM67	67	68	16	3	<LOD	40	6	2	113	8	10	2	4628	46	5	1	57	3	<LOD	7	<LOD	3	37	2
SM67	68	69	15	3	<LOD	40	<LOD	5	93	8	8	2	3812	40	5	1	32	3	<LOD	7	<LOD	3	29	2
SM67	69	70	17	3	<LOD	39	6	2	56	7	12	2	3650	37	<LOD	4	29	3	<LOD	6	<LOD	3	54	2
SM67	70	71	10	3	<LOD	40	6	2	85	8	7	2	3546	38	5	1	22	3	<LOD	7	<LOD	3	32	2
SM67	71	72	25	3	<LOD	38	7	2	77	7	32	2	3275	33	17	2	43	3	<LOD	6	<LOD	3	43	2
SM67	72	73	22	3	<LOD	39	7	2	76	7	17	2	3396	35	11	2	34	3	10	2	3	1	40	2
SM67	73	74	16	3	<LOD	44	<LOD	5	94	9	9	2	4372	49	<LOD	5	29	3	<LOD	8	<LOD	3	29	2
SM67	74	75	17	3	<LOD	41	5	2	53	7	20	2	2640	30	<LOD	4	26	3	<LOD	6	<LOD	3	36	2
SM67	75	76	21	3	<LOD	38	6	2	74	7	22	2	3400	35	10	2	29	3	<LOD	7	<LOD	3	44	2
SM67	76	77	23	3	<LOD	38	5	2	84	7	23	2	3142	32	13	2	52	3	<LOD	6	4	1	39	2
SM67	77	78	18	3	<LOD	41	6	2	87	8	16	2	3588	39	9	2	78	4	<LOD	7	<LOD	3	42	2
SM67	78	79	22	3	<LOD	39	<LOD	5	89	7	14	2	3520	37	9	2	41	3	9	2	3	1	38	2
SM67	79	80	19	3	<LOD	39	8	2	84	7	23	2	2843	29	13	2	21	2	<LOD	6	<LOD	3	41	2
SM67	80	81	16	3	<LOD	42	<LOD	5	99	8	9	2	3762	42	<LOD	4	48	3	<LOD	7	<LOD	3	24	2
SM67	81	82	12	3	<LOD	38	<LOD	4	54	6	8	2	2361	25	4	1	98	3	<LOD	5	<LOD	3	23	2
SM67	82	83	<LOD	9	<LOD	42	<LOD	5	84	8	8	2	4087	45	13	2	155	5	<LOD	7	3	1	25	2
SM67	83	84	21	3	<LOD	39	6	2	65	6	22	2	2619	28	8	2	31	3	11	2	4	1	45	2
SM67	84	85	16	3	<LOD	40	5	2	97	8	20	2	3827	40	9	2	57	3	<LOD	7	<LOD	3	43	2
SM67	85	86	16	3	<LOD	38	<LOD	4	79	7	13	2	3013	31	<LOD	4	32	3	<LOD	6	<LOD	3	37	2
SM67	86	87	12	3	<LOD	41	<LOD	4	65	6	<LOD	6	2421	27	<LOD	4	29	3	<LOD	6	<LOD	3	29	2
SM67	87	88	10	3	<LOD	39	<LOD	5	83	7	9	2	3148	32	<LOD	4	35	3	<LOD	6	<LOD	3	24	2
SM67	88	89	11	3	<LOD	41	<LOD	5	79	8	7	2	3616	39	<LOD	4	40	3	<LOD	7	<LOD	3	34	2
SM67	89	90	12	3	<LOD	43	8	2	76	8	<LOD	6	3817	43	<LOD	4	51	3	<LOD	7	<LOD	3	28	2
SM68a	0	2																						
SM68a	3	4	11	3	<LOD	52	<LOD	6	42	7	<LOD	7	2012	31	11	2	45	4	<LOD	7	<LOD	4	28	2
SM68a	4	5	<LOD	17	<LOD	68	12	4	281	24	13	4	12106	209	<LOD	8	41	7	<LOD	15	<LOD	6	26	3
SM68a	5	6	25	3	<LOD	38	6	2	70	8	16	2	4346	43	12	2	125	4	<LOD	7	<LOD	3	39	2
SM68a	6	7	12	4	<LOD	45	<LOD	6	122	11	17	3	5339	63	10	2	211	6	<LOD	9	<LOD	3	44	3
SM68a	7	8	17	3	<LOD	42	7	2	97	9	19	2	5325	56	8	2	124	4	<LOD	8	<LOD	3	43	2



Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
																								<LOD	<LOD	<LOD	<LOD	<LOD	
SM68a	8	9	07/15/2015											WB						<LOD	37	176	4	5	1				
SM68a	9	10	07/15/2015	80					x					Dark Brown		WB	Damp			<LOD	41	132	4	<LOD	3				
SM68a	10	11	07/15/2015													WB			15SM68SB11	9.1	260	11	147	13	226	5	<LOD	3	
SM68a	11	12	07/15/2015	90										Gray		WB	Damp			<LOD	55	140	6	<LOD	4				
SM68a	12	13	07/15/2015													WB				<LOD	43	94	4	<LOD	3				
SM68a	13	14	07/15/2015	100										Grayish Brown		WB	Damp			<LOD	35	58	2	4	1				
SM68a	14	15	07/15/2015													WB				<LOD	39	111	4	6	1				
SM68a	15	16	07/15/2015	90										Grayish Brown		WB	Dry			<LOD	39	80	3	4	1				
SM68a	16	17	07/15/2015													WB				71	20	104	6	<LOD	5				
SM68a	17	18	07/15/2015	100										Dark Gray		WB	Dry			<LOD	51	34	3	<LOD	3				
SM68a	18	19	07/15/2015													WB				<LOD	38	72	3	3	1				
SM68a	19	20	07/15/2015	80										Gray		WB	Dry			<LOD	35	116	3	3	1				
SM68a	20	21	07/15/2015													WB				<LOD	83	195	10	<LOD	7				
SM68a	21	22	07/15/2015	100										Black		WB	Dry			327	17	735	12	<LOD	5				
SM68a	22	23	07/15/2015													B				1313	29	1882	30	<LOD	7				
SM68a	23	24	07/15/2015	75										Grayish Brown		B	Dry			188	13	715	10	5	1				
SM68a	24	25	07/15/2015											Black		B	Damp			85	13	447	7	7	1				
SM68a	25	26	07/15/2015											Brown		B	Damp			506	16	987	13	6	2				
SM68a	26	27	07/15/2015											Brown		B	Damp			291	15	828	12	<LOD	4				
SM68a	27	28	07/15/2015											Grayish Brown		B	Damp			151	14	472	8	6	1				
SM68a	28	29	07/15/2015											Grayish Brown		B	Damp			78	13	423	7	6	1				
SM68a	29	30	07/15/2015											Grayish Brown		B	Damp			47	13	400	7	<LOD	3				
SM68a	30	31	07/15/2015											Dark Gray		B	Damp			<LOD	38	183	4	7	1				
SM68a	31	32	07/15/2015											Dark Gray		B	Damp			<LOD	37	235	5	6	1				
SM68a	32	33	07/15/2015											Black		B	Damp			<LOD	39	163	4	8	1				
SM68a	33	34	07/15/2015											Brownish Yellow		B	Damp			<LOD	37	271	5	5	1				
SM68a	34	35	07/15/2015											Very Dark Gray		B	Damp			<LOD	38	226	5	7	1				
SM68a	35	36	07/15/2015											Grayish Brown		B	Damp			<LOD	39	386	7	8	1				
SM68a	36	37	07/15/2015											Gray		B	Damp			94	13	620	9	7	1				
See borehole SM68a interval 0-25 ft.																													
SM68b	25	26	07/16/2015											Dark Gray		B	Damp			<LOD	39	82	3	4	1				
SM68b	26	27	07/16/2015											Grayish Brown		B	Moist			<LOD	40	72	3	<LOD	3				
SM68b	27	28	07/16/2015											Brown		B	Damp			<LOD	36	41	2	3	1				
SM68b	28	29	07/16/2015											Brown		B	Damp			<LOD	38	41	2	3	1				
SM68b	29	30	07/16/2015											Gray		B	Dry			<LOD	36	54	3	<LOD	3				
SM68b	30	31	07/16/2015											Gray		B	Dry			<LOD	39	73	3	<LOD	3				
SM68b	31	32	07/16/2015											Gray		B	Damp			<LOD	36	36	2	3	1				
SM68b	32	33	07/16/2015											Gray		B	Damp			<LOD	37	36	2	<LOD	3				
SM68b	33	34	07/16/2015											Gray		B	Damp			<LOD	36	47	2	4	1				
SM68b	34	35	07/16/2015											Dark Gray		B	Damp			<LOD	35	92	3	3	1				
SM68b	35	36	07/16/2015											Black		B	Damp			<LOD	36	57	3	<LOD	3				
SM68b	36	37	07/16/2015											Dark Gray		B	Damp			<LOD	37	67	3	<LOD	3				
SM68b	37	38	07/16/2015											Dark Gray		B	Damp			<LOD	40	33	2	<LOD	3				
SM68b	38	39	07/16/2015											Dark Gray		B	Damp			<LOD	40	69	3	<LOD	3				
SM68b	39	40	07/16/2015											Gray		B	Damp			<LOD	37	54	2	4	1				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM68a	8	9	33	3	<LOD	37	7	2	98	9	25	2	6910	62	14	2	254	5	33	3	3	1	86	3
SM68a	9	10	13	3	<LOD	42	<LOD	5	84	8	<LOD	6	3733	43	7	2	77	4	<LOD	7	<LOD	3	37	2
SM68a	10	11	21	3	<LOD	37	5	2	103	8	16	2	4200	41	7	1	63	3	<LOD	7	<LOD	3	35	2
SM68a	11	12	<LOD	12	<LOD	55	<LOD	7	53	12	<LOD	8	5009	71	7	2	474	11	24	4	<LOD	5	73	4
SM68a	12	13	<LOD	10	<LOD	44	<LOD	6	96	11	<LOD	6	6456	71	<LOD	5	51	4	<LOD	9	<LOD	3	33	2
SM68a	13	14	11	2	<LOD	35	<LOD	4	57	6	6	2	2649	25	4	1	25	2	<LOD	5	<LOD	3	28	2
SM68a	14	15	19	3	<LOD	40	7	2	90	8	11	2	3771	39	9	2	49	3	9	2	<LOD	3	45	2
SM68a	15	16	18	3	<LOD	39	5	2	68	7	<LOD	6	3392	35	5	1	88	3	10	2	<LOD	3	33	2
SM68a	16	17	14	4	<LOD	62	<LOD	7	44	9	10	3	2265	40	11	2	37	4	<LOD	9	<LOD	4	25	3
SM68a	17	18	<LOD	9	<LOD	52	<LOD	5	<LOD	20	<LOD	7	1832	28	6	2	12	3	<LOD	7	<LOD	4	19	2
SM68a	18	19	<LOD	7	<LOD	38	<LOD	4	53	6	<LOD	5	2373	26	<LOD	4	29	2	<LOD	6	<LOD	3	25	2
SM68a	19	20	10	3	<LOD	36	6	1	71	6	<LOD	5	3117	30	4	1	21	2	<LOD	6	<LOD	3	30	2
SM68a	20	21	<LOD	17	<LOD	82	<LOD	11	64	18	<LOD	13	5877	127	<LOD	10	59	7	<LOD	15	<LOD	7	42	4
SM68a	21	22	30	4	<LOD	46	9	2	170	13	22	3	8758	98	11	2	77	5	11	4	<LOD	4	79	3
SM68a	22	23	<LOD	17	<LOD	54	<LOD	10	168	21	<LOD	9	15832	212	<LOD	7	466	12	<LOD	15	<LOD	7	48	3
SM68a	23	24	11	3	<LOD	37	7	2	51	7	5	2	3329	33	<LOD	4	240	5	<LOD	6	<LOD	3	36	2
SM68a	24	25	13	3	<LOD	38	9	2	65	7	<LOD	5	3494	35	<LOD	4	187	5	<LOD	6	<LOD	3	42	2
SM68a	25	26	16	3	<LOD	41	<LOD	5	92	9	<LOD	6	4605	48	<LOD	4	225	6	<LOD	8	<LOD	4	40	2
SM68a	26	27	15	3	<LOD	41	<LOD	6	96	10	<LOD	6	5520	58	<LOD	4	169	5	<LOD	8	<LOD	4	39	2
SM68a	27	28	10	3	<LOD	40	<LOD	5	75	8	8	2	3862	40	<LOD	4	103	4	<LOD	7	<LOD	4	41	2
SM68a	28	29	22	3	<LOD	39	7	2	85	8	6	2	3746	39	11	2	51	3	<LOD	7	<LOD	3	44	2
SM68a	29	30	12	3	<LOD	38	7	2	71	7	7	2	3696	37	5	1	51	3	<LOD	6	<LOD	3	36	2
SM68a	30	31	23	3	<LOD	38	7	2	71	7	21	2	3074	31	8	1	24	2	<LOD	6	4	1	34	2
SM68a	31	32	19	3	<LOD	38	<LOD	4	54	6	13	2	2913	30	5	1	29	2	7	2	<LOD	3	38	2
SM68a	32	33	23	3	<LOD	40	9	2	91	8	27	2	3766	39	13	2	23	3	<LOD	7	<LOD	3	42	2
SM68a	33	34	13	3	<LOD	37	<LOD	4	46	6	9	2	2542	26	<LOD	4	16	2	<LOD	6	<LOD	3	23	2
SM68a	34	35	25	3	<LOD	39	5	2	94	7	18	2	3432	35	11	2	42	3	9	2	<LOD	3	64	3
SM68a	35	36	17	3	<LOD	39	8	2	100	8	17	2	4125	42	5	1	43	3	<LOD	7	<LOD	3	35	2
SM68a	36	37	14	3	<LOD	39	7	2	55	6	9	2	2910	30	<LOD	4	41	3	<LOD	6	<LOD	4	33	2
See borehole SM68a interval 0-25 ft.																								
SM68b	25	26	20	3	<LOD	40	<LOD	5	123	9	20	2	4798	49	6	2	58	3	<LOD	7	3	1	59	3
SM68b	26	27	21	3	<LOD	40	<LOD	5	81	8	9	2	4416	45	<LOD	4	102	4	8	2	<LOD	3	42	2
SM68b	27	28	13	3	<LOD	36	5	1	49	6	<LOD	5	2903	29	5	1	176	4	<LOD	6	<LOD	2	27	2
SM68b	28	29	14	3	<LOD	39	<LOD	5	117	9	8	2	6010	59	<LOD	4	314	6	<LOD	8	<LOD	3	24	2
SM68b	29	30	7	2	<LOD	36	<LOD	4	85	6	7	2	2709	27	7	1	71	3	<LOD	6	<LOD	3	35	2
SM68b	30	31	19	3	<LOD	40	6	2	93	7	12	2	3548	37	4	1	58	3	<LOD	7	<LOD	3	46	2
SM68b	31	32	12	2	<LOD	36	5	1	74	6	7	2	2935	28	<LOD	4	49	3	<LOD	6	<LOD	3	28	2
SM68b	32	33	10	2	<LOD	38	<LOD	4	61	6	<LOD	5	2566	27	<LOD	4	33	2	<LOD	6	<LOD	3	32	2
SM68b	33	34	15	3	<LOD	37	<LOD	4	63	6	<LOD	5	2510	26	<LOD	4	49	3	<LOD	6	<LOD	2	29	2
SM68b	34	35	11	2	<LOD	35	<LOD	4	87	6	17	2	2285	23	13	1	13	2	<LOD	5	3	1	41	2
SM68b	35	36	12	2	<LOD	36	4	1	95	6	19	2	2853	28	8	1	33	2	<LOD	6	4	1	37	2
SM68b	36	37	12	2	<LOD	37	<LOD	4	57	5	9	2	2024	21	6	1	79	3	<LOD	5	<LOD	3	32	2
SM68b	37	38	<LOD	9	<LOD	40	<LOD	6	113	10	7	2	6254	64	<LOD	4	362	7	<LOD	8	<LOD	3	23	2
SM68b	38	39	11	3	<LOD	40	<LOD	5	94	8	8	2	4120	44	7	2	253	6	<LOD	7	<LOD	3	29	2
SM68b	39	40	9	2	<LOD	38	<LOD	4	66	6	6	2	2765	28	<LOD	4	55	3	<LOD	6	<LOD	3	32	2

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
																								<LOD	<LOD	<LOD	<LOD	<LOD	
SM68b	40	41	07/16/2015									Dark Gray		B	Moist					<LOD	39	47	3	4	1				
SM68b	41	42	07/16/2015									Dark Brown		B	Damp					<LOD	35	38	2	<LOD	3				
SM68b	42	43	07/16/2015									Dark Brown		B	Damp					<LOD	37	93	3	4	1				
SM68b	43	44	07/16/2015									Black		B	Damp					<LOD	39	76	3	3	1				
SM68b	44	45	07/16/2015									Black		B	Damp					<LOD	39	83	3	4	1				
SM68b	45	46	07/16/2015									Black		B	Damp					<LOD	40	106	4	<LOD	3				
SM68b	46	47	07/16/2015									Black		B	Damp					<LOD	38	64	3	<LOD	3				
SM68b	47	48	07/16/2015									Black		B	Damp					<LOD	37	91	3	4	1				
SM68b	48	49	07/16/2015									Black		B	Damp					<LOD	40	67	3	<LOD	3				
SM68b	49	50	07/16/2015									Black		B	Moist					<LOD	38	93	3	<LOD	3				
SM68b	50	51	07/16/2015									Dark Gray		B	Damp					<LOD	45	81	4	<LOD	4				
SM68b	51	52	07/16/2015									Very Dark Gray		B	Damp					<LOD	41	85	3	5	1				
SM68b	52	53	07/16/2015									Black		B	Damp					<LOD	38	123	4	5	1				
SM68b	53	54	07/16/2015									Black		B	Moist					<LOD	40	116	4	6	1				
SM68b	54	55	07/16/2015									Black		B	Moist					<LOD	39	135	4	4	1				
SM68b	55	56	07/16/2015									Gray		B	Damp					<LOD	40	56	3	<LOD	3				
SM68b	56	57	07/16/2015									Dark Gray		B	Damp					<LOD	38	110	3	4	1				
SM68b	57	58	07/16/2015									Dark Gray		B	Damp					<LOD	38	86	3	3	1				
SM68b	58	59	07/16/2015									Dark Gray		B	Damp					<LOD	38	80	3	<LOD	3				
SM68b	59	60	07/16/2015									Dark Gray		B	Damp					<LOD	40	289	6	7	1				
SM68b	60	61	07/16/2015									Dark Gray		B	Damp					<LOD	38	164	4	5	1				
SM68b	61	62	07/16/2015									Dark Gray		B	Dry					<LOD	37	287	5	4	1				
SM68b	62	63	07/16/2015									Very Dark Gray		B	Moist					48	13	444	8	13	2				
SM68b	63	64	07/16/2015									Black		B	Moist					402	14	1788	20	19	2				
SM68b	64	65	07/16/2015									Light Gray		B	Moist					5659	63	10672	110	16	4				
SM68b	65	66	07/16/2015									Very Dark Gray		B	Damp					2145	26	2975	29	13	2				
SM68b	66	67	07/16/2015									Black		B	Damp					218	15	12859	141	<LOD	14				
SM68b	67	68	07/16/2015									Very Dark Gray		B	Damp					234	14	3791	40	36	3				
SM68b	68	69	07/16/2015									Dark Gray		B	Damp					51	13	1633	18	60	3				
SM68b	69	70	07/16/2015									Gray		B	Damp					111	13	2013	21	69	3				
SM68b	70	71	07/16/2015									Very Dark Gray		B	Damp					83	12	2017	21	52	3				
SM68b	71	72	07/16/2015									Dark Gray		B	Damp					91	13	2678	28	54	3				
SM68b	72	73	07/16/2015									Dark Gray		B	Damp					203	15	6658	73	85	5				
SM68b	73	74	07/16/2015									Dark Gray		B	Damp					65	13	3662	38	34	3				
SM68b	74	75	07/16/2015											B						42	12	674	9	19	2				
SM68b	75	76	07/16/2015									Black		B	Damp					45	13	920	12	10	2				
SM68b	76	77	07/16/2015									Very Dark Gray		B	Damp					<LOD	37	247	5	4	1				
SM68b	77	78	07/16/2015									Black		B	Moist					<LOD	37	156	4	6	1				
SM68b	78	79	07/16/2015									Very Dark Gray		B	Damp					86	13	213	5	5	1				
SM68b	79	80	07/16/2015									Dark Gray		B	Damp					<LOD	37	242	5	4	1				
SM68b	80	81	07/16/2015									Very Dark Gray		B	Moist					<LOD	36	73	3	3	1				
SM68b	81	82	07/16/2015									Black		B	Damp					<LOD	39	260	6	<LOD	3				
SM68b	82	83	07/16/2015									Black		B	Damp					<LOD	36	117	3	4	1				
SM68b	83	84	07/16/2015									Dark Gray		B	Moist					<LOD	40	190	5	4	1				
SM68b	84	85	07/16/2015									Black		B	Moist					<LOD	39	120	4	<LOD	3				
SM68b	85	86	07/16/2015									Black		B	Moist					<LOD	38	132	4	4	1				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM68b	40	41	14	3	<LOD	40	7	2	170	11	10	2	7563	76	<LOD	4	120	5	<LOD	9	3	1	34	2
SM68b	41	42	13	3	<LOD	36	8	2	77	6	11	2	3125	31	5	1	56	3	<LOD	6	<LOD	2	36	2
SM68b	42	43	22	3	<LOD	37	6	1	56	6	22	2	2297	24	10	1	24	2	7	2	<LOD	3	51	2
SM68b	43	44	19	3	<LOD	39	8	2	57	6	29	2	2333	25	9	1	25	2	9	2	3	1	47	2
SM68b	44	45	20	3	<LOD	39	<LOD	5	96	8	29	2	4047	42	8	2	39	3	<LOD	7	<LOD	3	52	2
SM68b	45	46	22	3	<LOD	40	8	2	126	9	18	2	5316	54	13	2	91	4	<LOD	8	<LOD	3	51	2
SM68b	46	47	14	3	<LOD	39	6	2	72	7	24	2	3483	35	10	2	38	3	8	2	3	1	41	2
SM68b	47	48	20	3	<LOD	38	<LOD	5	82	7	22	2	3763	37	8	1	70	3	8	2	3	1	50	2
SM68b	48	49	23	3	<LOD	40	<LOD	5	102	8	25	2	4215	43	10	2	77	4	<LOD	7	<LOD	3	44	2
SM68b	49	50	19	3	<LOD	38	6	2	90	7	20	2	3780	38	12	2	59	3	<LOD	7	4	1	50	2
SM68b	50	51	18	4	46	15	9	3	204	15	18	3	11710	127	12	2	337	8	<LOD	11	<LOD	4	41	3
SM68b	51	52	11	3	<LOD	41	<LOD	5	87	9	11	2	5213	54	5	2	116	4	<LOD	8	<LOD	3	38	2
SM68b	52	53	17	3	<LOD	38	6	2	105	7	25	2	3680	37	9	2	40	3	8	2	<LOD	3	56	2
SM68b	53	54	20	3	<LOD	40	7	2	116	8	24	2	4140	42	7	2	84	4	<LOD	7	4	1	53	2
SM68b	54	55	20	3	<LOD	39	7	2	108	8	19	2	4753	47	13	2	94	4	9	3	4	1	54	2
SM68b	55	56	9	3	<LOD	40	<LOD	4	68	7	8	2	2683	29	<LOD	4	38	3	<LOD	6	<LOD	3	21	2
SM68b	56	57	14	3	<LOD	38	<LOD	4	75	7	7	2	3546	35	<LOD	4	27	3	<LOD	6	<LOD	3	30	2
SM68b	57	58	<LOD	8	<LOD	38	4	1	73	6	8	2	2807	29	<LOD	4	36	3	<LOD	6	<LOD	3	29	2
SM68b	58	59	11	3	<LOD	38	5	1	63	6	7	2	2517	26	<LOD	4	28	2	<LOD	6	<LOD	3	32	2
SM68b	59	60	17	3	<LOD	40	7	2	176	9	16	2	5052	51	5	1	35	3	<LOD	8	4	1	52	2
SM68b	60	61	<LOD	7	<LOD	38	<LOD	4	57	6	<LOD	5	2497	26	<LOD	4	21	2	<LOD	6	<LOD	3	31	2
SM68b	61	62	11	2	<LOD	38	7	1	68	6	6	2	2731	28	<LOD	4	10	2	<LOD	6	<LOD	3	34	2
SM68b	62	63	26	3	<LOD	39	6	2	96	8	26	2	3971	41	10	2	43	3	10	2	<LOD	3	58	3
SM68b	63	64	12	3	<LOD	37	5	1	77	6	20	2	2927	30	8	2	10	2	<LOD	6	<LOD	5	44	2
SM68b	64	65	<LOD	8	<LOD	43	<LOD	5	41	6	<LOD	7	1805	22	<LOD	6	12	2	<LOD	7	<LOD	11	21	2
SM68b	65	66	<LOD	6	<LOD	37	<LOD	3	20	3	<LOD	5	652	9	<LOD	4	6	1	<LOD	4	<LOD	6	14	1
SM68b	66	67	<LOD	10	<LOD	45	<LOD	6	91	11	<LOD	8	6600	75	<LOD	6	350	8	<LOD	9	<LOD	12	29	3
SM68b	67	68	12	3	<LOD	40	5	2	50	6	<LOD	6	2611	29	<LOD	5	139	4	<LOD	6	<LOD	6	31	2
SM68b	68	69	9	2	<LOD	38	<LOD	4	46	5	<LOD	5	1854	21	<LOD	4	30	2	<LOD	5	<LOD	5	21	2
SM68b	69	70	8	2	<LOD	37	<LOD	4	50	5	<LOD	5	1966	21	5	1	27	2	<LOD	5	<LOD	5	21	2
SM68b	70	71	<LOD	7	<LOD	37	<LOD	4	47	5	<LOD	5	1703	18	<LOD	4	21	2	<LOD	5	<LOD	5	24	2
SM68b	71	72	15	3	<LOD	37	<LOD	4	47	5	<LOD	5	1823	20	<LOD	4	55	3	<LOD	6	<LOD	5	25	2
SM68b	72	73	<LOD	10	<LOD	43	<LOD	6	137	11	<LOD	7	5947	66	<LOD	6	168	5	<LOD	9	<LOD	9	26	2
SM68b	73	74	11	3	<LOD	39	<LOD	5	75	7	<LOD	6	2798	30	<LOD	5	54	3	<LOD	6	<LOD	6	31	2
SM68b	74	75	13	2	<LOD	37	<LOD	4	57	5	<LOD	5	2074	22	<LOD	4	33	2	<LOD	5	<LOD	3	21	2
SM68b	75	76	21	3	<LOD	40	<LOD	5	94	7	11	2	3039	32	11	2	33	3	<LOD	7	<LOD	4	35	2
SM68b	76	77	11	2	<LOD	37	<LOD	4	48	5	6	2	1942	20	6	1	19	2	<LOD	5	<LOD	3	25	2
SM68b	77	78	20	3	<LOD	37	7	1	80	6	22	2	2415	25	11	2	28	2	6	2	6	1	53	2
SM68b	78	79	11	3	<LOD	39	<LOD	5	80	7	9	2	3566	37	<LOD	4	63	3	<LOD	6	<LOD	3	27	2
SM68b	79	80	12	2	<LOD	37	<LOD	4	63	6	6	2	2359	25	5	1	23	2	<LOD	6	<LOD	3	24	2
SM68b	80	81	13	2	<LOD	37	6	1	55	5	15	2	1886	20	5	1	15	2	6	2	<LOD	3	28	2
SM68b	81	82	12	3	<LOD	39	<LOD	5	88	7	21	2	3310	35	8	2	44	3	<LOD	7	<LOD	3	44	2
SM68b	82	83	15	2	<LOD	37	5	1	60	5	23	2	2030	22	9	1	23	2	6	2	<LOD	3	46	2
SM68b	83	84	13	3	<LOD	40	7	2	90	8	20	2	4112	42	8	2	106	4	<LOD	7	<LOD	3	29	2
SM68b	84	85	19	3	<LOD	39	<LOD	5	77	7	25	2	3434	36	7	1	44	3	<LOD	7	<LOD	3	45	2
SM68b	85	86	20	3	<LOD	38	6	2	84	7	18	2	3409	34	<LOD	4	36	3	<LOD	6	<LOD	3	37	2

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
																								<LOD	<LOD	<LOD	<LOD	<LOD	
SM68b	86	87	07/16/2015									Black		B	Damp					<LOD	37	99	3	4	1				
SM68b	87	88	07/16/2015									Black		B	Damp					<LOD	38	126	4	5	1				
SM68b	88	89	07/16/2015									Black		B	Dry					<LOD	41	106	4	3	1				
SM68b	89	90	07/16/2015									Black		B	Moist					<LOD	46	164	5	<LOD	3				
SM68b	90	91	07/16/2015									Black		B	Damp					<LOD	45	84	3	5	1				
SM68b	91	92	07/16/2015									Black		B	Damp					<LOD	41	265	6	<LOD	3				
SM68b	92	93	07/16/2015									Black		B	Dry					<LOD	39	140	4	4	1				
SM68b	93	94	07/16/2015									Very Dark Gray		B	Dry					<LOD	40	137	4	<LOD	3				
SM68b	94	95	07/16/2015									Very Dark Gray		B	Dry					<LOD	43	89	3	4	1				
SM68b	95	96	07/16/2015								x	Dark Gray		B	Moist					<LOD	48	75	4	<LOD	3				
SM68b	96	97	07/16/2015								x	Dark Gray		B	Moist					<LOD	56	82	4	<LOD	4				
SM68b	97	98	07/16/2015								x	Dark Gray		B	Wet					<LOD	49	99	4	<LOD	4				
SM68b	98	99	07/16/2015								x	Dark Gray		B	Wet					<LOD	45	219	6	<LOD	4				
SM68b	99	100	07/16/2015									Dark Gray		B	Wet					<LOD	46	78	4	4	1				
SM68b	100	101	07/16/2015									Dark Gray		B	Wet					<LOD	47	120	4	6	1				
SM68b	101	102	07/16/2015									Dark Gray		B	Wet					<LOD	46	75	4	<LOD	3				
SM68b	102	103	07/16/2015									Black		B	Wet					<LOD	46	100	4	<LOD	3				
SM68b	103	104	07/16/2015									Gray		B	Wet					<LOD	47	61	3	<LOD	3				
SM68b	104	105	07/16/2015								x	Gray		B	Wet					<LOD	47	61	3	<LOD	3				
SM68b	105	106	07/16/2015								x	Gray		B	Wet					<LOD	45	68	3	4	1				
SM68b	106	107	07/16/2015									Gray		B	Wet					<LOD	47	79	4	<LOD	4				
SM68b	107	108	07/16/2015									Dark Gray		B	Wet					<LOD	48	96	4	6	1				
SM68b	108	109	07/16/2015								x	Gray		B	Wet					<LOD	46	54	3	<LOD	3				
SM68b	109	110	07/16/2015									Dark Gray		B	Wet					<LOD	49	58	3	<LOD	3				
SM68b	110	111	07/16/2015									Dark Gray		B	Wet					<LOD	51	48	3	<LOD	4				
SM68b	111	112	07/16/2015									Dark Gray		B	Wet					<LOD	49	52	3	<LOD	4				
SM68b	112	113	07/16/2015									Dark Gray		B	Wet					<LOD	52	96	4	<LOD	4				
SM68b	113	114	07/16/2015								x	Dark Gray		B	Wet					<LOD	47	78	4	<LOD	3				
SM68b	114	115	07/16/2015								x	Dark Gray		B	Wet					<LOD	42	57	3	<LOD	3				
SM68b	115	116	07/16/2015								x	Dark Gray		B	Wet					<LOD	45	65	3	<LOD	3				
SM68b	116	117	07/16/2015									Black		B	Wet					<LOD	47	133	5	5	1				
SM68b	117	118	07/16/2015								x	Dark Gray		B	Damp					<LOD	52	83	4	6	1				
SM68b	118	119	07/16/2015								x	Gray		B	Damp					<LOD	48	85	4	<LOD	4				
SM68b	119	120	07/16/2015								x	Gray		B	Dry					<LOD	50	95	4	<LOD	4				
SM68b	120	121	07/16/2015								x	Gray		B	Dry					<LOD	48	100	4	4	1				
SM68b	121	122	07/16/2015								x	Gray		B	Dry					<LOD	51	96	4	4	1				
SM68b	122	123	07/16/2015								x	Gray		B	Dry					<LOD	53	136	5	<LOD	4				
SM68b	123	124	07/16/2015									Gray		B	Dry					NA	NA	NA	NA	NA	NA				
SM68b	124	125	07/16/2015								x	Gray		B	Damp					NA	NA	NA	NA	NA	NA				
SM68b	125	126	07/16/2015									Dark Gray		B	Damp					NA	NA	NA	NA	NA	NA				
SM68b	126	127	07/16/2015									Dark Gray		B	Dry					NA	NA	NA	NA	NA	NA				
SM68b	127	128	07/16/2015									Gray		B	Dry					NA	NA	NA	NA	NA	NA				
SM68b	128	129	07/16/2015									Gray		B	Dry					NA	NA	NA	NA	NA	NA				
SM68b	129	130	07/16/2015									Gray		B	Dry					NA	NA	NA	NA	NA	NA				
SM68b	130	131	07/16/2015									Gray		B	Dry					NA	NA	NA	NA	NA	NA				
SM68b	131	132	07/16/2015									Gray		B	Dry					NA	NA	NA	NA	NA	NA				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM68b	86	87	21	3	<LOD	37	<LOD	4	37	5	21	2	2231	23	5	1	30	2	6	2	<LOD	3	44	2
SM68b	87	88	24	3	<LOD	38	8	2	80	7	29	2	3357	34	10	2	38	3	9	2	<LOD	3	46	2
SM68b	88	89	14	3	<LOD	41	9	2	91	8	22	2	4073	43	7	2	67	3	<LOD	7	<LOD	3	43	2
SM68b	89	90	18	4	<LOD	45	<LOD	6	121	11	12	2	6663	74	<LOD	5	163	5	<LOD	9	<LOD	3	36	2
SM68b	90	91	21	3	<LOD	44	<LOD	5	75	8	23	2	3102	36	6	2	37	3	<LOD	7	<LOD	3	46	2
SM68b	91	92	22	3	<LOD	41	7	2	81	8	16	2	3862	41	8	2	49	3	<LOD	7	4	1	37	2
SM68b	92	93	19	3	<LOD	40	8	2	81	7	21	2	3712	38	12	2	43	3	<LOD	7	<LOD	3	39	2
SM68b	93	94	19	3	<LOD	39	5	2	68	7	9	2	3376	36	<LOD	4	59	3	<LOD	7	<LOD	3	42	2
SM68b	94	95	17	3	<LOD	43	<LOD	5	62	8	13	2	3306	38	<LOD	4	89	4	<LOD	7	<LOD	3	26	2
SM68b	95	96	<LOD	10	<LOD	49	<LOD	5	47	8	17	3	2795	37	<LOD	5	116	5	<LOD	8	<LOD	4	21	2
SM68b	96	97	16	4	<LOD	56	8	2	38	9	14	3	2811	44	<LOD	6	63	4	<LOD	8	<LOD	4	25	3
SM68b	97	98	12	3	<LOD	49	6	2	82	8	41	3	2580	34	8	2	39	3	<LOD	7	<LOD	3	35	2
SM68b	98	99	11	3	<LOD	45	<LOD	5	43	6	28	3	1689	22	13	2	22	2	22	3	<LOD	4	49	3
SM68b	99	100	14	3	<LOD	46	<LOD	5	69	8	18	2	2964	37	8	2	30	3	<LOD	7	4	1	33	2
SM68b	100	101	11	3	<LOD	47	<LOD	5	98	8	24	3	3100	39	8	2	39	3	<LOD	8	<LOD	4	50	3
SM68b	101	102	<LOD	9	<LOD	47	<LOD	5	75	8	14	2	3111	38	6	2	43	3	8	3	<LOD	3	33	2
SM68b	102	103	25	4	<LOD	47	<LOD	6	81	8	26	3	3179	40	9	2	43	3	<LOD	8	<LOD	3	43	3
SM68b	103	104	17	3	<LOD	47	<LOD	5	84	8	13	2	2821	35	<LOD	5	43	3	<LOD	7	<LOD	3	25	2
SM68b	104	105	<LOD	9	<LOD	48	<LOD	5	32	6	10	2	1878	26	<LOD	5	68	4	<LOD	7	<LOD	3	29	2
SM68b	105	106	12	3	<LOD	45	<LOD	5	56	7	<LOD	6	2299	29	5	2	59	3	<LOD	7	<LOD	3	25	2
SM68b	106	107	11	3	<LOD	48	<LOD	5	66	7	10	2	2208	29	<LOD	5	28	3	<LOD	7	<LOD	4	30	2
SM68b	107	108	16	3	<LOD	48	<LOD	5	63	7	12	2	2442	32	<LOD	5	17	3	<LOD	7	<LOD	3	36	2
SM68b	108	109	10	3	<LOD	46	<LOD	5	68	7	7	2	2362	30	<LOD	5	46	3	<LOD	7	<LOD	3	27	2
SM68b	109	110	13	3	<LOD	48	<LOD	5	67	8	<LOD	7	2703	36	<LOD	5	28	3	<LOD	7	<LOD	3	31	2
SM68b	110	111	<LOD	11	<LOD	52	<LOD	6	92	10	10	3	3844	52	<LOD	5	61	4	<LOD	8	<LOD	4	22	2
SM68b	111	112	<LOD	9	<LOD	49	8	2	44	8	<LOD	7	2634	35	<LOD	5	34	3	<LOD	7	<LOD	4	33	2
SM68b	112	113	<LOD	11	<LOD	52	7	2	94	10	12	3	3707	50	7	2	37	4	<LOD	9	<LOD	4	26	2
SM68b	113	114	11	3	<LOD	47	6	2	88	9	9	2	3401	43	<LOD	5	37	3	<LOD	8	<LOD	3	28	2
SM68b	114	115	11	3	<LOD	42	10	2	45	5	20	2	1597	20	7	2	18	2	<LOD	6	<LOD	3	30	2
SM68b	115	116	10	3	<LOD	45	<LOD	5	89	8	11	2	2912	36	6	2	32	3	<LOD	7	<LOD	3	26	2
SM68b	116	117	15	3	<LOD	47	5	2	63	7	17	3	2460	32	<LOD	5	20	3	<LOD	7	<LOD	4	42	3
SM68b	117	118	24	4	<LOD	52	<LOD	6	72	9	18	3	2730	39	11	2	36	4	<LOD	8	<LOD	4	34	3
SM68b	118	119	13	3	<LOD	49	6	2	67	8	12	2	3014	39	<LOD	5	33	3	<LOD	8	<LOD	3	29	2
SM68b	119	120	15	3	<LOD	49	<LOD	6	64	8	8	2	2639	35	<LOD	5	40	3	<LOD	8	<LOD	3	20	2
SM68b	120	121	20	4	<LOD	48	7	2	69	9	27	3	3568	45	8	2	35	3	<LOD	8	<LOD	4	32	2
SM68b	121	122	15	4	<LOD	51	<LOD	7	107	11	13	3	4553	59	<LOD	5	100	5	<LOD	9	<LOD	3	27	2
SM68b	122	123	13	4	<LOD	54	<LOD	7	80	12	<LOD	8	5357	73	<LOD	6	252	8	<LOD	10	<LOD	4	15	2
SM68b	123	124																						
SM68b	124	125																						
SM68b	125	126																						
SM68b	126	127																						
SM68b	127	128																						
SM68b	128	129																						
SM68b	129	130																						
SM68b	130	131																						
SM68b	131	132																						

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
SM68b	132	133	07/16/2015											B						NA	NA	NA	NA	NA	NA				
SM68b	133	134	07/16/2015									Gray		B	Dry					NA	NA	NA	NA	NA	NA				
SM68b	134	135	07/16/2015									Gray		B	Dry					NA	NA	NA	NA	NA	NA				
See borehole SM68a interval 0-25 ft and borehole SM68b interval 25-50 ft.																													
SM68c	50	51	08/08/2015									x	Dark Brown		B	Damp								ND		116		4	
SM68c	51	53.5	08/08/2015										Dark Reddish Brown		B	Moist								ND		254			
SM68c	53.5	55	08/08/2015										Dark Gray		B	Dry								ND		136		5	
SM68c	55	57.5	08/08/2015									x	Gray		B	Dry								ND		166		5	
SM68c	57.5	60	08/08/2015										Dark Gray		B	Dry								ND		106		ND	
SM68c	60	62.5	08/08/2015										Dark Reddish Gray		B	Dry								ND		207		5	
SM68c	62.5	65	08/08/2015										Gray		B	Dry								ND		98		ND	
SM68c	65	67.5	08/08/2015										Gray		B	Dry								ND		78		ND	
SM68c	67.5	70	08/08/2015										Gray		B	Dry								ND		85		ND	
SM68c	70	72.5	08/08/2015										Gray		B	Dry								ND		92		5	
SM68c	72.5	75	08/08/2015										Gray		B	Dry								ND		89		ND	
SM68c	75	77.5	08/08/2015										Dark Gray		B	Dry								ND		75		ND	
SM68c	77.5	80	08/08/2015									x	Gray		B	Dry								ND		69		ND	
SM68c	80	82.5	08/08/2015									x	Gray		B	Dry								ND		81		6	
SM68c	82.5	85	08/08/2015										Gray		B	Dry								ND		121		ND	
SM68c	85	87.5	08/08/2015									x	Gray		B	Dry								ND		123		6	
SM68c	87.5	90	08/08/2015									x	Gray		B	Dry								ND		101		5	
SM68c	90	92.5	08/08/2015									x	Gray		B	Dry								ND		103		5	
SM68c	92.5	95	08/08/2015									x	Gray		B	Dry								ND		74		6	
SM68c	95	97.5	08/08/2015									x	Gray		B	Dry								ND		93		4	
SM68c	97.5	100	08/08/2015									x	Gray		B	Dry								ND		253		10	
SM68c	100	102.5	08/08/2015										Gray		B	Dry								ND		447		5	
SM68c	102.5	105	08/08/2015										Gray		B	Dry								ND		4608		33	
SM68c	105	107.5	08/08/2015										Gray		B	Dry								ND		359		7	
SM68c	107.5	110	08/08/2015										Gray		B	Dry								ND		128		6	
SM68c	110	112.5	08/08/2015										Dark Gray		B	Dry								ND		84		10	
SM68c	112.5	115	08/08/2015										Gray		B	Dry								ND		221		5	
SM68c	115	117.5	08/08/2015									x	Gray		B	Dry								ND		88		ND	
SM68c	117.5	120	08/08/2015									x	Gray		B	Dry	MW40	119 - 139						ND		166		5	
SM68c	120	122	08/08/2015										Gray		B	Dry	MW40	119 - 139						ND		79		ND	
SM68c	122	125	08/08/2015									x	Gray		B	Dry	MW40	119 - 139						ND		71		5	
SM68c	125	127.5	08/08/2015										Gray		B	Dry	MW40	119 - 139						ND		68		4	
SM68c	127.5	130	08/08/2015									x	Gray		B	Dry	MW40	119 - 139						ND		84		4	
SM68c	130	132.5	08/08/2015									x	Gray		B	Dry	MW40	119 - 139						ND		118		ND	
SM68c	132.5	135	08/08/2015									x	Gray		B	Damp	MW40	119 - 139						ND		94		6	
SM68c	135	136	08/08/2015									x	Dark Gray		B	Wet	MW40	119 - 139						ND		71		ND	
SM68c	136	137	08/08/2015									x	Dark Gray		B	Wet	MW40	119 - 139						ND		110		5	
SM68c	137	138	08/08/2015									x	Dark Gray		B	Wet	MW40	119 - 139						ND		74		ND	
SM68c	138	139	08/08/2015										Dark Gray		B	Wet	MW40	119 - 139						ND		79		4	
SM68c	139	140	08/08/2015									x	Dark Gray		B	Wet								ND		81		4	

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF		
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM68b	132	133																						
SM68b	133	134																						
SM68b	134	135																						
See borehole SM68a interval 0-25 ft and borehole SM68b interval 25-50 ft.																								
SM68c	50	51																						
SM68c	51	53.5																						
SM68c	53.5	55																						
SM68c	55	57.5																						
SM68c	57.5	60																						
SM68c	60	62.5																						
SM68c	62.5	65																						
SM68c	65	67.5																						
SM68c	67.5	70																						
SM68c	70	72.5																						
SM68c	72.5	75																						
SM68c	75	77.5																						
SM68c	77.5	80																						
SM68c	80	82.5																						
SM68c	82.5	85																						
SM68c	85	87.5																						
SM68c	87.5	90																						
SM68c	90	92.5																						
SM68c	92.5	95																						
SM68c	95	97.5																						
SM68c	97.5	100																						
SM68c	100	102.5																						
SM68c	102.5	105																						
SM68c	105	107.5																						
SM68c	107.5	110																						
SM68c	110	112.5																						
SM68c	112.5	115																						
SM68c	115	117.5																						
SM68c	117.5	120																						
SM68c	120	122																						
SM68c	122	125																						
SM68c	125	127.5																						
SM68c	127.5	130																						
SM68c	130	132.5																						
SM68c	132.5	135																						
SM68c	135	136																						
SM68c	136	137																						
SM68c	137	138																						
SM68c	138	139																						
SM68c	139	140																						



Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
SM68c	140	141	08/08/2015									Dark Gray		B	Wet					ND		75		ND					
SM68c	141	142	08/08/2015									Dark Gray		B	Wet					ND		87		ND					
SM68c	142	143	08/08/2015									Dark Gray		B	Wet					ND		95		ND					
SM68c	143	144	08/08/2015									Dark Gray		B	Wet					ND		126		4					
SM68c	144	145	08/08/2015									Black		B	Wet					ND		179		5					
SM68c	145	146	08/08/2015									Black		B	Wet					ND		122		ND					
SM68c	146	147	08/08/2015								x	Black		B	Wet					ND		99		ND					
SM68c	147	148	08/08/2015									Dark Gray		B	Wet					ND		184		ND					
SM68c	148	149	08/08/2015									Dark Gray		B	Wet					ND		112		5					
SM68c	149	150	08/08/2015									Dark Gray		B	Wet					ND		83		4					
SM68c	150	151	08/08/2015								x	Dark Gray		B	Wet					ND		81		ND					
SM68c	151	152	08/08/2015								x	Dark Gray		B	Wet					ND		80		ND					
SM68c	152	153	08/08/2015									Dark Gray		B	Wet					ND		79		ND					
SM68c	153	154	08/08/2015									Dark Gray		B	Wet					ND		42		ND					
SM68c	154	155	08/08/2015									Dark Gray		B	Wet					ND		58		ND					
SM70a	0	1	07/18/2015											DN (KG, MZ)						50	13	334	6	10	1				
SM70a	1	2	07/18/2015	70								Brown	GM	DN (KG, MZ)	Moist				15SM70SB02	35	850	29	<LOD	40	467	8	13	2	
SM70a	2	3	07/18/2015											DN (KG, MZ)						<LOD	41	15	2	<LOD	3				
SM70a	3	4	07/18/2015	80								Grayish Brown	ML	N (loess)	Damp					<LOD	35	14	2	<LOD	2				
SM70a	4	5	07/18/2015											N (loess)						<LOD	36	35	2	<LOD	2				
SM70a	5	6	07/18/2015	70								Yellowish Brown	SM	N	Dry					<LOD	38	7	2	<LOD	2				
SM70a	6	7	07/18/2015											N (loess)						<LOD	59	<LOD	9	<LOD	5				
SM70a	7	8	07/18/2015	100								Grayish Brown	ML	N (loess)	Damp					<LOD	36	8	2	<LOD	2				
SM70a	8	9	07/18/2015											N (loess)						<LOD	36	7	2	<LOD	3				
SM70a	9	10	07/18/2015	100								Grayish Brown	ML	N (loess)	Damp					<LOD	42	11	2	<LOD	3				
SM70a	10	11	07/18/2015											N (loess)						<LOD	50	<LOD	7	<LOD	3				
SM70a	11	12	07/18/2015	100								Gray	SM	N (loess)	Moist					<LOD	47	<LOD	7	<LOD	3				
SM70a	12	13	07/18/2015											N (KG)						<LOD	36	21	2	3	1				
SM70a	13	14	07/18/2015	70								Brown	GC	N (KG)	Damp					<LOD	38	155	4	4	1				
SM70a	14	15	07/18/2015											WB						<LOD	55	313	8	<LOD	5				
SM70a	15	16	07/18/2015	100								Grayish Brown		WB	Dry					<LOD	44	437	8	<LOD	4				
SM70a	16	17	07/18/2015											WB						<LOD	40	1074	14	<LOD	5				
SM70a	17	18	07/18/2015	60								Brown		WB	Dry					<LOD	42	234	5	4	1				
SM70a	18	20	07/18/2015	60								Dark Gray		WB	Dry					missing	missing	missing	missing	missing	missing	missing			
SM70a	20	22	07/18/2015	100								Dark Gray		WB	Dry					missing	missing	missing	missing	missing	missing	missing			
SM70a	22	24	07/18/2015	90								Dark Grayish Brown		WB	Dry					missing	missing	missing	missing	missing	missing	missing			
SM70a	24	26	07/18/2015	100								Grayish Brown		WB	Dry					missing	missing	missing	missing	missing	missing	missing			
SM70a	26	27	07/18/2015									Brown		B	Dry					40		397		ND					
SM70a	27	28	07/18/2015									Brown		B	Dry					48		427		ND					
SM70a	28	29	07/18/2015									Brown		B	Dry					37		529		ND					
SM70a	29	30	07/18/2015									Brown		B	Dry					44		1027		ND					
SM70a	30	31	07/18/2015									Brown		B	Dry					ND		473		ND					
SM70a	31	32	07/18/2015									Brown		B	Dry					ND		510		ND					
SM70a	32	33	07/18/2015									Brown		B	Damp					<LOD	38	235	5	5	1				
SM70a	33	34	07/18/2015									Grayish Brown		B	Damp					<LOD	36	186	4	4	1				
SM70a	34	35	07/18/2015									Grayish Brown		B	Dry					<LOD	36	105	3	4	1				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM68c	140	141																						
SM68c	141	142																						
SM68c	142	143																						
SM68c	143	144																						
SM68c	144	145																						
SM68c	145	146																						
SM68c	146	147																						
SM68c	147	148																						
SM68c	148	149																						
SM68c	149	150																						
SM68c	150	151																						
SM68c	151	152																						
SM68c	152	153																						
SM68c	153	154																						
SM68c	154	155																						
SM70a	0	1	10	3	<LOD	39	6	2	63	6	16	2	2537	27	5	1	37	3	<LOD	6	<LOD	3	27	2
SM70a	1	2	15	3	<LOD	40	<LOD	5	72	7	10	2	3315	35	5	1	49	3	<LOD	7	<LOD	3	31	2
SM70a	2	3	9	3	<LOD	41	<LOD	4	30	5	<LOD	5	1565	19	8	2	13	2	<LOD	5	<LOD	3	21	2
SM70a	3	4	10	2	<LOD	35	<LOD	4	33	5	6	2	1814	19	5	1	15	2	<LOD	5	<LOD	2	16	1
SM70a	4	5	<LOD	7	<LOD	37	<LOD	3	31	5	<LOD	5	1558	18	<LOD	4	7	2	<LOD	5	<LOD	2	10	1
SM70a	5	6	8	2	<LOD	39	<LOD	4	43	5	6	2	1686	19	<LOD	4	19	2	<LOD	5	<LOD	3	16	1
SM70a	6	7	<LOD	11	<LOD	61	<LOD	6	36	7	<LOD	9	1177	23	9	2	10	3	<LOD	7	<LOD	5	12	2
SM70a	7	8	10	2	<LOD	36	<LOD	4	39	5	<LOD	5	1767	19	5	1	17	2	<LOD	5	<LOD	2	14	1
SM70a	8	9	9	2	<LOD	37	<LOD	4	31	4	<LOD	5	1482	16	5	1	12	2	<LOD	5	<LOD	2	13	1
SM70a	9	10	12	3	<LOD	43	<LOD	5	42	5	<LOD	6	1627	21	6	2	13	2	<LOD	5	<LOD	3	14	2
SM70a	10	11	<LOD	9	<LOD	51	<LOD	5	28	5	<LOD	7	1027	18	7	2	9	2	<LOD	6	<LOD	4	14	2
SM70a	11	12	<LOD	8	<LOD	48	<LOD	4	16	5	9	2	878	15	9	2	8	2	<LOD	6	<LOD	4	14	2
SM70a	12	13	10	2	<LOD	37	<LOD	4	36	5	<LOD	5	1719	18	<LOD	4	17	2	6	2	<LOD	2	18	1
SM70a	13	14	17	3	<LOD	38	7	2	46	7	11	2	3201	32	7	1	100	4	13	2	<LOD	3	35	2
SM70a	14	15	20	5	<LOD	55	<LOD	9	157	17	14	3	10392	141	<LOD	7	253	9	<LOD	13	<LOD	5	52	3
SM70a	15	16	19	3	<LOD	44	<LOD	6	24	8	13	2	3833	44	7	2	465	9	19	3	<LOD	4	60	3
SM70a	16	17	12	3	<LOD	40	<LOD	5	73	7	11	2	3223	35	12	2	69	3	<LOD	6	<LOD	4	28	2
SM70a	17	18	19	3	<LOD	42	7	2	82	9	22	2	4473	49	<LOD	5	114	4	<LOD	8	<LOD	4	51	3
SM70a	18	20																						
SM70a	20	22																						
SM70a	22	24																						
SM70a	24	26																						
SM70a	26	27																						
SM70a	27	28																						
SM70a	28	29																						
SM70a	29	30																						
SM70a	30	31																						
SM70a	31	32																						
SM70a	32	33	14	3	<LOD	38	6	2	115	8	20	2	4051	40	11	2	48	3	<LOD	7	<LOD	3	44	2
SM70a	33	34	13	3	<LOD	36	5	1	83	7	17	2	3194	31	9	1	22	2	9	2	3	1	41	2
SM70a	34	35	16	3	<LOD	36	<LOD	4	93	7	20	2	3460	33	9	1	13	2	<LOD	6	<LOD	3	40	2

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
																								<LOD	<LOD	<LOD	<LOD	<LOD	
SM70a	35	36	07/18/2015				x					Reddish Brown		B	Damp					<LOD	37	199	4	<LOD	3				
SM70a	36	37	07/18/2015				x					Brown		B	Dry					<LOD	39	126	4	5	1				
SM70a	37	38	07/18/2015								x	Dark Gray		B	Damp					<LOD	38	151	4	5	1				
SM70a	38	39	07/18/2015				x					Gray		B	Damp					51	14	636	10	<LOD	4				
SM70a	39	40	07/18/2015				x					Dark Reddish Brown		B	Damp					108	15	967	14	<LOD	5				
SM70a	40	41	07/18/2015				x					Dark Reddish Brown		B	Damp					41	12	444	7	6	1				
SM70a	41	42	07/18/2015									Dark Brown		B	Damp					<LOD	38	247	5	5	1				
SM70a	42	43	07/18/2015				x					Brown		B	Damp					41	13	314	6	4	1				
SM70a	43	44	07/18/2015				x					Brown		B	Damp					<LOD	37	249	5	4	1				
SM70a	44	45	07/18/2015				x					Brown		B	Damp					<LOD	38	299	6	5	1				
SM70a	45	46	07/18/2015									Dark Gray		B	Damp					<LOD	37	168	4	5	1				
SM70a	46	47	07/18/2015				x					Dark Gray		B	Damp					<LOD	38	197	5	5	1				
SM70a	47	48	07/18/2015				x					Dark Grayish Brown		B	Damp					38	12	291	5	<LOD	3				
SM70a	48	49	07/18/2015									Grayish Brown		B	Damp					41	12	222	5	5	1				
SM70a	49	50	07/18/2015									Dark Grayish Brown		B	Damp					<LOD	37	225	5	5	1				
SM70a	50	51	07/18/2015									Dark Grayish Brown		B	Damp					<LOD	37	206	5	5	1				
SM70a	51	52	07/18/2015									Dark Grayish Brown		B	Damp					<LOD	38	123	4	4	1				
SM70a	52	53	07/18/2015									Dark Grayish Brown		B	Damp					<LOD	39	145	4	4	1				
SM70a	53	54	07/18/2015											B						<LOD	40	188	5	4	1				
SM70a	54	55	07/18/2015									Grayish Brown		B	Damp					<LOD	36	164	4	4	1				
SM70a	55	56	07/18/2015									Black		B	Damp					<LOD	42	82	3	<LOD	3				
SM70a	56	57	07/18/2015									Black		B	Damp					<LOD	38	113	4	4	1				
SM70a	57	58	07/18/2015									Black		B	Damp					<LOD	39	129	4	3	1				
SM70a	58	59	07/18/2015									Dark Gray		B	Damp					<LOD	37	113	3	4	1				
SM70a	59	60	07/18/2015									Black		B	Damp					<LOD	38	145	4	4	1				
SM70a	60	61	07/18/2015									Very Dark Gray		B	Damp					<LOD	42	118	4	<LOD	3				
SM70a	61	62	07/18/2015									Black		B	Damp					<LOD	39	108	4	4	1				
SM70a	62	63	07/18/2015									Very Dark Gray		B	Damp					<LOD	36	100	3	4	1				
SM70a	63	64	07/18/2015									Black		B	Damp					<LOD	39	77	3	5	1				
SM70a	64	65	07/18/2015									Dark Gray		B	Damp					<LOD	39	79	3	4	1				
SM70a	65	66	07/18/2015									Gray		B	Damp					<LOD	38	109	3	5	1				
SM70a	66	67	07/18/2015									Gray		B	Dry					<LOD	37	69	3	<LOD	3				
SM70a	67	68	07/18/2015									Gray		B	Damp					<LOD	37	70	3	4	1				
SM70a	68	69	07/18/2015									Dark Gray		B	Damp					<LOD	37	58	3	<LOD	3				
SM70a	69	70	07/18/2015									Dark Gray		B	Dry					<LOD	39	45	2	4	1				
SM70a	70	71	07/18/2015									Gray		B	Damp					<LOD	40	67	3	<LOD	3				
SM70a	71	72	07/18/2015									Gray		B	Damp					<LOD	37	106	3	5	1				
SM70a	72	73	07/18/2015									Black		B	Damp					65	13	91	3	7	1				
SM70a	73	74	07/18/2015									Black		B	Damp					<LOD	39	99	3	4	1				
SM70a	74	75	07/18/2015									Very Dark Gray		B	Damp					<LOD	38	72	3	5	1				
SM70a	75	76	07/18/2015									Very Dark Gray		B	Damp					<LOD	39	110	4	4	1				
SM70a	76	77	07/18/2015									Gray		B	Damp					<LOD	38	190	4	4	1				
SM70a	77	78	07/18/2015									Gray		B	Dry					<LOD	38	108	3	3	1				
SM70a	78	79	07/18/2015									Gray		B	Dry					<LOD	37	76	3	3	1				
SM70a	79	80	07/18/2015									Gray		B	Dry					<LOD	38	73	3	3	1				
SM70a	80	81	07/18/2015									Gray		B	Dry					<LOD	39	80	3	5	1				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM70a	35	36	9	3	<LOD	38	<LOD	5	100	8	10	2	4518	44	<LOD	4	30	3	<LOD	7	<LOD	3	37	2
SM70a	36	37	15	3	<LOD	39	<LOD	5	82	7	24	2	3698	38	6	1	11	2	<LOD	7	<LOD	3	46	2
SM70a	37	38	17	3	<LOD	39	5	2	110	8	25	2	3996	40	10	2	52	3	<LOD	7	<LOD	3	48	2
SM70a	38	39	22	4	<LOD	41	<LOD	6	123	10	13	2	6253	65	<LOD	5	243	6	<LOD	9	<LOD	4	46	2
SM70a	39	40	17	4	<LOD	43	<LOD	7	147	13	8	2	10531	111	<LOD	5	585	10	<LOD	10	<LOD	4	54	3
SM70a	40	41	11	3	<LOD	37	<LOD	4	85	7	14	2	3652	36	4	1	180	4	8	2	<LOD	3	39	2
SM70a	41	42	20	3	<LOD	38	6	2	73	7	13	2	3068	31	6	1	38	3	6	2	<LOD	3	42	2
SM70a	42	43	16	3	<LOD	39	<LOD	5	101	8	9	2	4734	47	<LOD	4	74	3	<LOD	7	<LOD	3	33	2
SM70a	43	44	15	3	<LOD	37	<LOD	4	81	7	<LOD	5	3551	35	6	1	46	3	<LOD	6	<LOD	3	32	2
SM70a	44	45	12	3	<LOD	39	7	2	115	9	6	2	4974	49	<LOD	4	90	4	<LOD	7	<LOD	3	34	2
SM70a	45	46	14	3	<LOD	37	<LOD	4	84	7	13	2	3503	35	7	1	17	2	<LOD	6	<LOD	3	36	2
SM70a	46	47	17	3	<LOD	38	<LOD	5	113	8	19	2	4701	46	5	1	25	3	<LOD	7	<LOD	3	37	2
SM70a	47	48	16	3	<LOD	37	<LOD	5	64	7	8	2	3877	38	<LOD	4	269	5	8	2	<LOD	3	39	2
SM70a	48	49	13	3	<LOD	36	<LOD	4	47	6	<LOD	5	2887	28	<LOD	4	236	5	7	2	<LOD	3	34	2
SM70a	49	50	14	3	<LOD	38	6	2	71	7	15	2	3260	33	7	1	64	3	<LOD	6	<LOD	3	36	2
SM70a	50	51	20	3	<LOD	38	5	2	93	7	19	2	3199	32	8	1	27	2	<LOD	6	<LOD	3	32	2
SM70a	51	52	15	3	<LOD	38	<LOD	5	94	8	19	2	4000	40	7	1	30	3	<LOD	7	<LOD	3	38	2
SM70a	52	53	14	3	<LOD	39	9	2	106	8	9	2	4613	47	<LOD	4	66	3	<LOD	7	<LOD	3	34	2
SM70a	53	54	15	3	<LOD	40	<LOD	5	74	8	6	2	3864	40	<LOD	4	87	4	<LOD	7	<LOD	3	28	2
SM70a	54	55	13	3	<LOD	36	<LOD	4	72	6	8	2	2980	29	<LOD	4	23	2	<LOD	6	<LOD	3	27	2
SM70a	55	56	18	3	<LOD	43	<LOD	5	93	8	14	2	3572	41	6	2	31	3	<LOD	7	<LOD	3	31	2
SM70a	56	57	19	3	<LOD	39	6	2	65	7	19	2	3412	35	8	2	49	3	<LOD	7	<LOD	3	52	2
SM70a	57	58	21	3	<LOD	39	6	2	111	9	21	2	4953	50	8	2	38	3	<LOD	7	<LOD	3	49	2
SM70a	58	59	18	3	<LOD	37	6	2	110	8	22	2	3945	39	7	1	24	3	<LOD	7	<LOD	3	40	2
SM70a	59	60	20	3	<LOD	38	<LOD	5	108	8	22	2	4388	44	7	1	39	3	<LOD	7	<LOD	3	47	2
SM70a	60	61	17	3	<LOD	42	<LOD	6	119	10	17	2	6073	64	9	2	120	5	<LOD	8	<LOD	3	52	3
SM70a	61	62	16	3	<LOD	39	7	2	72	7	13	2	3722	38	9	2	30	3	<LOD	7	<LOD	3	38	2
SM70a	62	63	12	3	<LOD	37	4	1	98	7	9	2	3163	31	6	1	12	2	<LOD	6	<LOD	3	35	2
SM70a	63	64	25	3	<LOD	39	8	2	100	8	20	2	3820	38	7	1	26	3	8	2	<LOD	3	53	2
SM70a	64	65	14	3	<LOD	39	6	2	104	8	8	2	4202	42	6	1	43	3	<LOD	7	<LOD	3	38	2
SM70a	65	66	14	3	<LOD	38	6	2	92	7	9	2	3577	36	4	1	27	3	<LOD	6	<LOD	3	25	2
SM70a	66	67	8	3	<LOD	37	7	1	69	6	7	2	3061	30	5	1	25	2	<LOD	6	<LOD	3	25	2
SM70a	67	68	17	3	<LOD	37	5	1	62	6	9	2	2815	29	4	1	16	2	<LOD	6	<LOD	3	35	2
SM70a	68	69	15	3	<LOD	37	7	2	63	6	9	2	2877	29	5	1	25	2	<LOD	6	<LOD	3	40	2
SM70a	69	70	10	3	<LOD	39	6	2	62	7	<LOD	5	3173	33	<LOD	4	31	3	<LOD	6	<LOD	3	24	2
SM70a	70	71	14	3	<LOD	40	5	2	86	8	7	2	3750	39	5	1	37	3	<LOD	7	<LOD	3	25	2
SM70a	71	72	18	3	<LOD	38	6	2	90	7	22	2	3605	36	7	1	36	3	<LOD	6	<LOD	3	38	2
SM70a	72	73	24	3	<LOD	38	8	2	94	7	24	2	3809	38	10	2	18	3	8	2	4	1	54	2
SM70a	73	74	22	3	<LOD	39	<LOD	5	79	8	24	2	3886	40	7	2	17	3	8	2	4	1	44	2
SM70a	74	75	15	3	<LOD	38	9	2	75	7	13	2	3709	37	5	1	39	3	7	2	<LOD	3	35	2
SM70a	75	76	18	3	<LOD	39	<LOD	5	57	7	16	2	2815	30	10	2	126	4	<LOD	6	<LOD	3	37	2
SM70a	76	77	15	3	<LOD	38	7	2	54	7	7	2	3190	32	4	1	71	3	<LOD	6	<LOD	3	31	2
SM70a	77	78	10	3	<LOD	38	6	2	66	7	<LOD	5	3256	33	<LOD	4	36	3	<LOD	6	<LOD	3	27	2
SM70a	78	79	16	3	<LOD	37	6	1	47	6	6	2	2427	25	<LOD	4	35	2	7	2	<LOD	3	23	2
SM70a	79	80	13	3	<LOD	38	<LOD	4	35	5	5	2	2142	23	<LOD	4	29	2	7	2	<LOD	3	18	2
SM70a	80	81	9	3	<LOD	39	5	1	47	6	6	2	2267	24	<LOD	4	26	2	<LOD	6	<LOD	3	29	2

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations							Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF		
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg							Cinnabar	White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
																								<LOD	38	181	4	3	1
SM70a	81	82	07/18/2015									Gray		B	Dry					<LOD	38	181	4	3	1				
SM70a	82	83	07/18/2015									Gray		B	Dry					63	13	372	6	4	1				
SM70a	83	84	07/18/2015									Gray		B	Dry					<LOD	36	117	3	<LOD	3				
SM70a	84	85	07/18/2015									Gray		B	Dry					82	13	385	7	4	1				
SM70a	85	86	07/18/2015									Very Dark Gray		B	Damp					66	12	399	7	9	1				
SM70a	86	87	07/18/2015											B						<LOD	38	475	8	8	1				
SM70a	87	88	07/18/2015									Black		B	Damp					<LOD	39	419	7	14	2				
SM70a	88	89	07/18/2015									Dark Gray		B	Dry					<LOD	40	2170	25	57	3				
SM70a	89	90	07/18/2015									Dark Gray		B	Damp					51	14	3831	41	1531	19				
SM70a	90	91	07/18/2015									Black		B	Damp					67	13	2351	24	300	6				
SM70a	91	92	07/18/2015									Black		B	Damp					42	13	645	10	231	5				
SM70a	92	93	07/18/2015									Black		B	Damp					70	13	279	6	33	2				
SM70a	93	94	07/18/2015									Very Dark Gray		B	Damp					<LOD	43	162	5	12	2				
SM70a	94	95	07/18/2015									Dark Gray		B	Damp					52	14	195	5	12	1				
SM70a	95	96	07/18/2015									Black		B	Damp					<LOD	40	416	7	12	1				

See borehole SM70a interval 0-30 ft.

SM70b	30	31	07/24/2015									Brown		B	Damp					<LOD	41	350	7	4	1
SM70b	31	32	07/24/2015									Brown		B	Damp					<LOD	38	421	7	5	1
SM70b	32	33	07/24/2015									Black		B	Damp					<LOD	36	132	4	9	1
SM70b	33	34	07/24/2015									Very Dark Gray		B	Damp					<LOD	37	179	4	6	1
SM70b	34	35	07/24/2015									Very Dark Gray		B	Damp					<LOD	40	90	3	4	1
SM70b	35	36	07/24/2015									Very Dark Gray		B	Damp					<LOD	37	151	4	5	1
SM70b	36	37	07/24/2015									Very Dark Gray		B	Damp					<LOD	39	132	4	4	1
SM70b	37	38	07/24/2015									Very Dark Gray		B	Damp					<LOD	38	208	5	4	1
SM70b	38	39	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	37	59	3	6	1
SM70b	39	40	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	38	66	3	7	1
SM70b	40	41	07/24/2015									Dark Brown		B	Damp					<LOD	37	140	4	5	1
SM70b	41	42	07/24/2015									Dark Brown		B	Damp					<LOD	39	162	4	5	1
SM70b	42	43	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	35	76	3	4	1
SM70b	43	44	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	38	69	3	5	1
SM70b	44	45	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	37	138	4	5	1
SM70b	45	46	07/24/2015									Grayish Brown		B	Damp					<LOD	39	72	3	<LOD	3
SM70b	46	47	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	37	80	3	5	1
SM70b	47	48	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	38	71	3	5	1
SM70b	48	49	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	35	102	3	3	1
SM70b	49	50	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	36	297	5	4	1
SM70b	50	51	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	38	149	4	8	1
SM70b	51	52	07/24/2015									Dark Grayish Brown		B	Moist					<LOD	36	72	3	5	1
SM70b	52	53	07/24/2015									Black		B	Damp					<LOD	38	81	3	5	1
SM70b	53	54	07/24/2015									Black		B	Damp					<LOD	37	81	3	4	1
SM70b	54	55	07/24/2015									Black		B	Damp					<LOD	41	92	3	5	1
SM70b	55	56	07/24/2015									Dark Grayish Brown		B	Damp					<LOD	40	84	3	4	1
SM70b	56	57	07/24/2015									Very Dark Gray		B	Damp					<LOD	36	139	4	6	1
SM70b	57	58	07/24/2015									Gray		B	Damp					<LOD	39	121	4	6	1
SM70b	58	59	07/24/2015									Grayish Brown		B	Damp					<LOD	41	414	7	4	1

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM70a	81	82	9	3	<LOD	38	5	1	55	6	9	2	2435	25	<LOD	4	23	2	<LOD	6	<LOD	3	26	2
SM70a	82	83	12	3	<LOD	37	4	1	53	6	8	2	2735	28	<LOD	4	38	3	<LOD	6	<LOD	3	28	2
SM70a	83	84	10	2	<LOD	36	5	1	42	5	6	2	2038	21	<LOD	3	22	2	6	2	<LOD	2	22	2
SM70a	84	85	10	3	<LOD	39	8	2	64	7	7	2	3165	33	<LOD	4	32	3	<LOD	6	<LOD	3	30	2
SM70a	85	86	20	3	<LOD	37	<LOD	4	52	6	9	2	2382	24	<LOD	4	33	2	7	2	<LOD	3	31	2
SM70a	86	87	22	3	<LOD	38	6	2	80	7	21	2	3661	37	8	2	48	3	10	2	<LOD	3	52	2
SM70a	87	88	24	3	<LOD	39	5	2	78	7	27	2	3326	34	10	2	36	3	10	2	<LOD	4	46	2
SM70a	88	89	20	3	<LOD	40	7	2	82	8	14	2	3954	42	<LOD	5	51	3	<LOD	7	<LOD	6	45	2
SM70a	89	90	<LOD	9	<LOD	41	<LOD	5	61	7	<LOD	7	3420	37	<LOD	6	28	3	<LOD	7	<LOD	9	24	3
SM70a	90	91	19	3	<LOD	37	5	1	35	5	18	2	1774	19	8	2	18	2	9	2	<LOD	6	27	2
SM70a	91	92	19	3	<LOD	40	7	2	74	8	24	2	3717	39	9	2	64	3	<LOD	7	6	2	51	3
SM70a	92	93	18	3	<LOD	39	9	2	95	7	25	2	3639	37	7	2	33	3	<LOD	7	<LOD	3	44	2
SM70a	93	94	22	3	<LOD	43	7	2	91	8	20	2	3690	42	7	2	49	3	<LOD	7	<LOD	4	48	3
SM70a	94	95	15	3	<LOD	40	7	2	62	7	19	2	3400	36	5	1	46	3	<LOD	7	<LOD	3	36	2
SM70a	95	96	12	3	<LOD	40	5	2	62	7	7	2	3046	32	<LOD	4	50	3	<LOD	6	<LOD	3	30	2
See borehole SM70a interval 0-30 ft.																								
SM70b	30	31	18	3	<LOD	41	<LOD	5	150	9	57	3	5221	54	<LOD	4	119	4	<LOD	8	<LOD	4	29	2
SM70b	31	32	12	3	<LOD	38	8	2	78	7	8	2	3562	36	<LOD	4	47	3	<LOD	6	<LOD	3	29	2
SM70b	32	33	23	3	<LOD	36	4	1	66	6	19	2	3133	30	12	1	36	3	12	2	<LOD	3	48	2
SM70b	33	34	16	3	<LOD	38	<LOD	4	83	7	6	2	3254	33	9	1	64	3	<LOD	6	<LOD	3	37	2
SM70b	34	35	20	3	<LOD	41	<LOD	5	68	7	10	2	3064	34	8	2	57	3	<LOD	7	<LOD	3	40	2
SM70b	35	36	22	3	<LOD	38	5	2	94	8	13	2	4221	41	7	1	207	5	<LOD	7	3	1	57	2
SM70b	36	37	25	3	<LOD	39	<LOD	5	128	9	24	2	5356	54	5	1	111	4	<LOD	8	<LOD	3	47	2
SM70b	37	38	20	3	<LOD	39	<LOD	5	132	9	14	2	5474	54	7	2	159	5	<LOD	8	<LOD	3	45	2
SM70b	38	39	22	3	<LOD	37	8	2	74	7	14	2	3907	38	9	1	141	4	9	2	<LOD	3	44	2
SM70b	39	40	13	3	<LOD	38	5	2	76	8	14	2	4218	41	7	1	158	4	10	2	<LOD	3	46	2
SM70b	40	41	18	3	<LOD	37	<LOD	5	98	7	10	2	3959	39	8	1	112	4	<LOD	7	<LOD	3	38	2
SM70b	41	42	29	3	<LOD	40	<LOD	5	115	9	14	2	4956	50	9	2	123	4	9	3	<LOD	3	59	3
SM70b	42	43	13	3	<LOD	36	<LOD	4	75	6	15	2	2826	28	8	1	41	3	7	2	3	1	38	2
SM70b	43	44	18	3	<LOD	38	5	2	102	8	17	2	4328	43	9	2	60	3	<LOD	7	3	1	53	2
SM70b	44	45	8	3	<LOD	38	<LOD	4	70	7	7	2	3490	34	<LOD	3	33	3	<LOD	6	<LOD	3	22	2
SM70b	45	46	13	3	<LOD	40	<LOD	5	72	7	<LOD	6	2732	30	7	2	65	3	<LOD	6	<LOD	3	28	2
SM70b	46	47	17	3	<LOD	37	8	2	93	7	16	2	3598	35	9	1	24	2	<LOD	6	<LOD	3	39	2
SM70b	47	48	20	3	<LOD	38	6	2	87	7	18	2	3499	35	10	2	48	3	<LOD	6	<LOD	3	38	2
SM70b	48	49	12	3	<LOD	35	6	1	79	6	10	2	2853	28	6	1	66	3	<LOD	6	<LOD	2	35	2
SM70b	49	50	12	3	<LOD	36	5	1	87	7	10	2	3594	35	5	1	19	2	<LOD	6	<LOD	3	24	2
SM70b	50	51	14	3	<LOD	38	<LOD	5	130	9	13	2	5509	53	5	1	36	3	<LOD	8	<LOD	3	34	2
SM70b	51	52	24	3	<LOD	36	5	1	62	6	13	2	2682	27	9	1	11	2	6	2	<LOD	2	21	2
SM70b	52	53	20	3	<LOD	38	6	2	82	7	18	2	3473	35	9	2	31	3	<LOD	7	<LOD	3	54	2
SM70b	53	54	24	3	<LOD	37	7	2	84	7	19	2	3761	37	6	1	22	3	7	2	<LOD	3	43	2
SM70b	54	55	14	3	<LOD	41	6	2	75	8	15	2	3496	38	5	2	15	3	<LOD	7	<LOD	3	40	2
SM70b	55	56	22	3	<LOD	40	7	2	74	8	16	2	4053	42	6	2	17	3	<LOD	7	<LOD	3	42	2
SM70b	56	57	17	3	<LOD	37	5	1	69	7	10	2	3375	33	5	1	21	2	7	2	<LOD	3	38	2
SM70b	57	58	14	3	<LOD	39	8	2	53	8	9	2	5002	50	<LOD	4	298	6	8	2	<LOD	3	29	2
SM70b	58	59	16	3	<LOD	41	<LOD	5	107	9	9	2	4517	48	<LOD	4	67	4	<LOD	7	<LOD	4	26	2

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
																								<LOD	<LOD	<LOD	<LOD	<LOD	
SM70b	59	60	07/24/2015									Gray		B	Dry					<LOD	41	266	6	<LOD	4				
SM70b	60	61	07/24/2015								x	Light Brownish Gray		B	Dry					<LOD	42	120	4	4	1				
SM70b	61	62	07/24/2015									Gray		B	Dry					<LOD	41	128	4	5	1				
SM70b	62	63	07/24/2015									Grayish Brown		B	Damp					<LOD	39	123	4	5	1				
SM70b	63	64	07/24/2015									Gray		B	Dry					<LOD	39	43	3	5	1				
SM70b	64	65	07/24/2015									Gray		B	Dry					<LOD	42	39	2	6	1				
SM70b	65	66	07/24/2015								x	Gray		B	Dry					<LOD	40	95	3	<LOD	3				
SM70b	66	67	07/24/2015									Dark Gray		B	Damp					<LOD	37	93	3	5	1				
SM70b	67	68	07/24/2015									Black		B	Damp					<LOD	45	68	3	4	1				
SM70b	68	69	07/24/2015									Black		B	Damp					<LOD	38	76	3	4	1				
SM70b	69	70	07/24/2015									Black		B	Dry					<LOD	40	77	3	5	1				
SM70b	70	71	07/24/2015									Black		B	Moist					<LOD	42	112	4	4	1				
SM70b	71	72	07/24/2015									Black		B	Moist					<LOD	39	77	3	5	1				
SM70b	72	73	07/24/2015									Black		B	Moist					<LOD	38	91	3	<LOD	3				
SM70b	73	74	07/24/2015									Black		B	Damp					<LOD	40	74	3	3	1				
SM70b	74	75	07/24/2015									Black		B	Moist					<LOD	41	98	4	5	1				
SM70b	75	76	07/24/2015									Black		B	Moist					<LOD	41	247	6	4	1				
SM70b	76	77	07/24/2015									Black		B	Moist					<LOD	43	82	4	<LOD	3				
SM70b	77	78	07/24/2015									Black		B	Moist					<LOD	40	96	3	4	1				
SM70b	78	79	07/24/2015									Black		B	Damp					<LOD	39	109	4	5	1				
SM70b	79	80	07/24/2015									Dark Gray		B	Damp					<LOD	39	153	4	<LOD	3				
SM70b	80	81	07/24/2015								x	Dark Gray		B	Wet					<LOD	48	117	4	5	1				
SM70b	81	82	07/24/2015									Black		B	Saturated					<LOD	44	85	4	<LOD	3				
SM70b	82	83	07/24/2015								x	Black		B	Saturated					<LOD	47	102	4	5	1				
SM70b	83	84	07/24/2015								x	Black		B	Saturated					<LOD	45	87	4	6	1				
SM70b	84	85	07/24/2015									Gray		B	Damp					<LOD	50	131	5	<LOD	4				
SM70b	85	86	07/24/2015									Gray		B	Damp					<LOD	49	134	5	6	1				
SM70b	86	87	07/24/2015									Gray		B	Damp					<LOD	52	160	5	<LOD	4				
SM70b	87	88	07/24/2015									Light Gray		B	Dry					<LOD	48	167	5	<LOD	4				
SM70b	88	89	07/24/2015									Light Gray		B	Dry					<LOD	48	96	4	<LOD	4				
SM70b	89	90	07/24/2015									Light Gray		B	Dry					<LOD	47	105	4	5	1				
SM70b	90	91	07/24/2015									Yellowish Brown		B	Dry					<LOD	47	163	5	6	1				
SM70b	91	92	07/24/2015								x			B						<LOD	50	64	3	<LOD	3				
SM70b	92	93	07/24/2015									Gray		B	Damp					<LOD	46	75	4	7	1				
SM70b	93	94	07/24/2015									Gray		B	Dry					<LOD	50	225	6	6	2				
SM70b	94	95	07/24/2015									Gray		B	Dry					<LOD	46	317	7	6	2				
SM70b	95	96	07/24/2015									Gray		B	Dry					<LOD	52	179	6	<LOD	4				
SM70b	96	97	07/24/2015									Grayish Brown		B	Dry					<LOD	55	139	5	<LOD	4				
SM70b	97	98	07/24/2015									Dark Reddish Brown		B	Damp					<LOD	49	105	4	5	1				
SM70b	98	99	07/24/2015									Dark Grayish Brown		B	Moist					<LOD	44	112	4	<LOD	4				
SM70b	99	100	07/24/2015									Dark Brown		B	Wet					<LOD	49	96	4	<LOD	4				
SM70b	100	101	07/24/2015									Dark Gray		B	Wet					<LOD	47	111	4	<LOD	4				
SM70b	101	102	07/24/2015									Dark Gray		B	Wet					<LOD	50	109	4	<LOD	4				
SM70b	102	103	07/24/2015									Dark Gray		B	Wet					<LOD	47	115	4	6	1				
SM70b	103	104	07/24/2015									Dark Gray		B	Wet					<LOD	49	113	4	5	1				
SM70b	104	105	07/24/2015									Dark Gray		B	Wet					<LOD	50	56	3	<LOD	3				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM70b	59	60	19	4	<LOD	40	<LOD	6	148	11	11	2	7015	71	<LOD	5	104	4	<LOD	8	<LOD	3	33	2
SM70b	60	61	14	3	<LOD	42	11	2	59	8	<LOD	6	4163	44	<LOD	4	79	4	<LOD	7	<LOD	3	32	2
SM70b	61	62	22	3	<LOD	41	<LOD	5	84	9	8	2	4734	49	<LOD	4	45	3	<LOD	8	<LOD	3	37	2
SM70b	62	63	18	3	<LOD	39	5	2	115	8	17	2	4564	46	6	1	58	3	8	3	<LOD	3	36	2
SM70b	63	64	12	3	<LOD	39	<LOD	5	85	8	9	2	4451	45	6	1	94	4	<LOD	7	<LOD	3	30	2
SM70b	64	65	13	3	<LOD	42	9	2	85	9	10	2	4589	49	<LOD	4	190	5	<LOD	7	<LOD	3	27	2
SM70b	65	66	17	3	<LOD	40	<LOD	5	55	7	9	2	3112	34	<LOD	4	220	5	<LOD	6	<LOD	3	34	2
SM70b	66	67	23	3	<LOD	37	7	2	89	7	21	2	3296	33	8	1	62	3	8	2	5	1	41	2
SM70b	67	68	<LOD	12	<LOD	45	10	3	139	14	13	3	11307	124	<LOD	5	449	9	<LOD	11	<LOD	4	34	2
SM70b	68	69	24	3	<LOD	38	9	2	85	7	16	2	3861	39	8	2	59	3	7	2	4	1	42	2
SM70b	69	70	20	3	<LOD	41	5	2	80	9	21	2	4679	49	9	2	114	4	<LOD	7	<LOD	3	44	2
SM70b	70	71	27	3	<LOD	42	<LOD	6	109	9	32	3	4972	52	10	2	53	3	9	3	6	1	48	2
SM70b	71	72	21	3	<LOD	40	6	2	66	7	19	2	3513	37	11	2	46	3	9	2	3	1	55	2
SM70b	72	73	18	3	<LOD	39	<LOD	5	72	8	8	2	4141	42	4	1	99	4	<LOD	7	<LOD	3	34	2
SM70b	73	74	20	3	<LOD	40	6	2	68	8	22	2	3806	40	5	1	78	4	<LOD	7	<LOD	3	42	2
SM70b	74	75	21	3	<LOD	41	6	2	93	9	17	2	4758	50	10	2	82	4	<LOD	8	5	1	77	3
SM70b	75	76	16	3	<LOD	41	6	2	68	8	8	2	3663	40	6	2	65	3	<LOD	7	<LOD	3	30	2
SM70b	76	77	12	3	<LOD	44	<LOD	6	111	11	9	2	5803	66	8	2	149	5	<LOD	8	<LOD	4	43	2
SM70b	77	78	21	3	<LOD	41	<LOD	5	105	9	24	2	5458	57	6	2	140	5	<LOD	8	<LOD	3	52	2
SM70b	78	79	21	3	<LOD	39	<LOD	5	91	8	24	2	3889	40	9	2	89	4	<LOD	7	<LOD	3	60	2
SM70b	79	80	<LOD	8	<LOD	40	7	2	87	7	<LOD	6	3405	36	<LOD	4	53	3	<LOD	6	<LOD	3	24	2
SM70b	80	81	10	3	<LOD	48	<LOD	5	82	8	34	3	2813	36	10	2	46	3	<LOD	8	<LOD	4	40	3
SM70b	81	82	16	3	<LOD	45	<LOD	5	64	7	33	3	2541	32	7	2	27	3	<LOD	7	4	1	33	2
SM70b	82	83	17	3	<LOD	47	6	2	69	8	32	3	2652	34	<LOD	5	31	3	8	3	<LOD	3	48	3
SM70b	83	84	21	3	<LOD	45	<LOD	5	81	7	26	3	2606	32	<LOD	5	33	3	8	2	<LOD	3	43	2
SM70b	84	85	14	4	<LOD	49	<LOD	6	88	10	17	3	3742	49	<LOD	5	89	5	<LOD	9	<LOD	4	27	2
SM70b	85	86	22	4	<LOD	49	8	2	103	9	18	3	3112	41	<LOD	5	37	3	<LOD	8	<LOD	4	33	2
SM70b	86	87	21	4	<LOD	52	<LOD	6	68	9	25	3	3221	44	<LOD	5	39	4	<LOD	8	<LOD	4	38	3
SM70b	87	88	16	4	<LOD	48	7	2	67	8	22	3	2771	36	<LOD	5	30	3	<LOD	8	<LOD	4	37	3
SM70b	88	89	17	3	<LOD	47	<LOD	5	63	8	15	2	2672	34	5	2	28	3	<LOD	7	<LOD	3	35	2
SM70b	89	90	22	4	<LOD	47	6	2	89	8	12	2	2750	35	<LOD	5	33	3	<LOD	8	<LOD	4	35	2
SM70b	90	91	12	4	<LOD	48	6	2	66	9	9	2	3292	42	<LOD	5	35	3	<LOD	8	<LOD	4	35	2
SM70b	91	92	17	4	<LOD	50	<LOD	6	73	9	9	2	3094	41	<LOD	5	44	4	<LOD	8	<LOD	3	30	2
SM70b	92	93	14	3	<LOD	47	<LOD	6	69	8	9	2	2993	38	<LOD	5	40	3	<LOD	7	<LOD	4	27	2
SM70b	93	94	14	4	<LOD	49	<LOD	6	68	9	11	3	3473	45	<LOD	5	57	4	14	3	<LOD	4	37	3
SM70b	94	95	14	4	<LOD	47	<LOD	6	75	8	8	2	3144	40	6	2	44	3	<LOD	8	<LOD	4	33	2
SM70b	95	96	19	4	<LOD	52	<LOD	7	133	12	21	3	5253	69	9	2	95	5	<LOD	10	<LOD	4	50	3
SM70b	96	97	<LOD	12	<LOD	55	<LOD	7	79	11	<LOD	8	4248	60	<LOD	5	142	6	<LOD	9	<LOD	4	25	2
SM70b	97	98	14	4	<LOD	50	<LOD	6	61	9	17	3	3193	42	<LOD	5	73	4	<LOD	8	<LOD	4	32	2
SM70b	98	99	17	3	<LOD	45	<LOD	5	67	8	14	2	2866	35	<LOD	5	44	3	8	2	<LOD	4	31	2
SM70b	99	100	12	3	<LOD	49	<LOD	6	87	8	9	2	2599	35	<LOD	5	34	3	<LOD	7	<LOD	4	31	2
SM70b	100	101	15	3	<LOD	47	<LOD	5	73	8	11	2	2705	34	<LOD	5	34	3	<LOD	7	<LOD	3	26	2
SM70b	101	102	12	4	<LOD	50	7	2	114	10	13	3	3810	50	<LOD	5	42	4	<LOD	9	<LOD	4	24	2
SM70b	102	103	10	3	<LOD	47	7	2	78	8	21	3	2890	37	7	2	20	3	<LOD	8	<LOD	3	45	3
SM70b	103	104	17	4	<LOD	50	<LOD	6	91	10	17	3	3810	49	<LOD	5	100	5	<LOD	8	<LOD	4	34	3
SM70b	104	105	16	4	<LOD	50	7	2	46	8	<LOD	7	2636	36	6	2	119	5	<LOD	7	<LOD	4	20	2



Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
																								<LOD	<LOD	<LOD	<LOD	<LOD	
SM70b	105	106	07/24/2015									Black		B	Wet					<LOD	51	122	5	6	1				
SM70b	106	107	07/24/2015							x		Dark Brownish Gray		B	Wet					<LOD	49	110	4	<LOD	4				
SM70b	107	108	07/24/2015							x		Dark Brownish Gray		B	Wet					<LOD	48	151	5	5	1				
SM70b	108	109	07/24/2015							x		Dark Gray		B	Wet					<LOD	47	139	5	<LOD	4				
SM70b	109	110	07/24/2015							x		Black		B	Wet					<LOD	47	98	4	<LOD	4				
SM70b	110	111	07/24/2015							x		Dark Gray		B	Moist					<LOD	46	124	4	<LOD	4				
SM70b	111	112	07/24/2015							x		Dark Gray		B	Wet					<LOD	50	90	4	<LOD	4				
SM70b	112	113	07/24/2015							x		Dark Gray		B	Wet					<LOD	48	112	4	<LOD	3				
SM70b	113	114	07/24/2015									Gray		B	Wet					<LOD	47	96	4	<LOD	4				
SM70b	114	115	07/24/2015									Dark Gray		B	Wet					<LOD	47	94	4	<LOD	3				
SM70b	115	116	07/24/2015							x		Dark Gray		B	Wet					<LOD	47	78	4	<LOD	4				
SM70b	116	117	07/24/2015							x		Gray		B	Wet					<LOD	46	90	4	5	1				
SM70b	117	118	07/24/2015									Black		B	Wet					<LOD	50	115	5	<LOD	4				
SM70b	118	119	07/24/2015							x		Black		B	Wet					<LOD	47	331	7	5	1				
SM70b	119	120	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	45	346	7	<LOD	4				
SM70b	120	121	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	43	480	9	4	1				
SM70b	121	122	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	49	302	7	6	2				
SM70b	122	123	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			84	16	1312	19	8	2				
SM70b	123	124	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	43	918	13	9	2				
SM70b	124	125	07/24/2015								x	Dark Gray		B	Wet	MW42	119 - 139			<LOD	47	783	13	10	2				
SM70b	125	126	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	48	718	12	8	2				
SM70b	126	127	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	46	475	9	5	1				
SM70b	127	128	07/24/2015								x	Dark Gray		B	Wet	MW42	119 - 139			<LOD	45	1713	22	8	2				
SM70b	128	129	07/24/2015								x	Dark Gray		B	Wet	MW42	119 - 139			<LOD	47	828	13	11	2				
SM70b	129	130	07/24/2015								x	Dark Gray		B	Wet	MW42	119 - 139			<LOD	46	1981	26	10	2				
SM70b	130	131	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	48	2223	30	12	3				
SM70b	131	132	07/24/2015							x				B		MW42	119 - 139			<LOD	48	793	13	12	2				
SM70b	132	133	07/24/2015									Black		B	Wet	MW42	119 - 139			<LOD	47	727	12	39	3				
SM70b	133	134	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	62	3133	51	<LOD	11				
SM70b	134	135	07/24/2015									Dark Gray		B	Wet	MW42	119 - 139			<LOD	52	3458	48	16	3				
SM70b	135	136	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	48	475	9	11	2				
SM70b	136	137	07/24/2015							x		Black		B	Wet	MW42	119 - 139			<LOD	47	370	8	7	2				
SM70b	137	138	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	46	371	8	8	2				
SM70b	138	139	07/24/2015							x		Dark Gray		B	Wet	MW42	119 - 139			<LOD	45	555	10	9	2				
SM70b	139	140	07/24/2015							x		Dark Gray		B	Wet														
SM71a	0	1	07/21/2015											DN (KG and Loess)						<LOD	38	197	4	5	1				
SM71a	1	2	07/21/2015	80								Brown	GM	DN (KG and Loess)	Moist					<LOD	41	253	6	6	1				
SM71a	2	3	07/21/2015											DN (KG and Loess)						<LOD	44	208	5	7	1				
SM71a	3	4	07/21/2015	90								Brown	GM	DN (KG and Loess)	Moist					<LOD	39	11	2	<LOD	3				
SM71a	4	5	07/21/2015											DN (loess)						<LOD	35	11	2	<LOD	2				
SM71a	5	6	07/21/2015	70								Grayish Brown	SP-SM	DN (loess)	Moist					<LOD	34	11	2	<LOD	2				
SM71a	6	7	07/21/2015											DN (KG and Loess)						<LOD	36	23	2	<LOD	2				
SM71a	7	8	07/21/2015	70								Brown	GM	DN (KG and Loess)	Moist					<LOD	44	62	3	<LOD	3				
SM71a	8	9	07/21/2015											DN (KG and Loess)						<LOD	36	49	2	<LOD	3				
SM71a	9	10	07/21/2015	95								Grayish Brown	GM	DN (KG and Loess)	Moist					<LOD	40	153	4	<LOD	3				
SM71a	11	12	07/21/2015	50								Grayish Brown	GP	DN (KG and Loess)	Damp					15SM71SB12	120	510	18	93	13	164	4	5	1

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF		
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM70b	105	106	16	4	<LOD	50	<LOD	6	77	9	18	3	3544	47	7	2	65	4	<LOD	9	<LOD	4	32	2
SM70b	106	107	12	4	<LOD	49	<LOD	6	89	9	12	2	3600	46	<LOD	5	54	4	<LOD	8	<LOD	4	32	2
SM70b	107	108	16	3	<LOD	48	<LOD	5	70	8	7	2	3135	39	<LOD	5	45	3	<LOD	8	<LOD	4	28	2
SM70b	108	109	16	3	<LOD	47	<LOD	6	103	9	11	2	4123	50	<LOD	5	74	4	<LOD	8	<LOD	4	26	2
SM70b	109	110	17	3	<LOD	47	<LOD	6	78	8	23	3	3262	41	6	2	54	4	<LOD	8	<LOD	3	44	3
SM70b	110	111	10	3	<LOD	46	<LOD	5	65	8	9	2	2962	37	<LOD	5	37	3	<LOD	7	<LOD	3	31	2
SM70b	111	112	<LOD	10	<LOD	50	<LOD	6	71	9	8	2	3114	41	<LOD	5	43	4	<LOD	8	<LOD	4	22	2
SM70b	112	113	<LOD	9	<LOD	48	<LOD	5	67	8	10	2	2532	33	<LOD	5	33	3	<LOD	7	<LOD	3	30	2
SM70b	113	114	13	3	<LOD	47	<LOD	5	68	8	<LOD	7	2703	34	<LOD	5	38	3	<LOD	7	4	1	22	2
SM70b	114	115	20	3	<LOD	47	<LOD	5	65	7	16	2	2552	33	6	2	33	3	8	2	<LOD	3	39	2
SM70b	115	116	17	3	<LOD	47	<LOD	5	83	9	8	2	3628	44	<LOD	5	40	3	<LOD	8	<LOD	3	25	2
SM70b	116	117	15	3	<LOD	46	<LOD	5	62	7	8	2	2521	31	<LOD	5	25	3	<LOD	7	<LOD	3	17	2
SM70b	117	118	19	4	<LOD	50	<LOD	6	59	9	17	3	3066	41	<LOD	5	33	3	<LOD	8	<LOD	4	41	3
SM70b	118	119	12	3	<LOD	47	6	2	62	8	<LOD	7	2713	35	<LOD	5	35	3	<LOD	7	<LOD	4	36	2
SM70b	119	120	17	3	<LOD	45	<LOD	5	63	7	10	2	2544	32	<LOD	5	27	3	<LOD	7	<LOD	4	24	2
SM70b	120	121	10	3	<LOD	43	<LOD	5	60	6	11	2	1931	24	<LOD	4	27	3	<LOD	6	<LOD	4	23	2
SM70b	121	122	<LOD	9	<LOD	50	<LOD	6	58	8	8	2	2876	39	<LOD	5	35	3	<LOD	8	<LOD	4	23	2
SM70b	122	123	9	3	<LOD	46	<LOD	5	51	7	7	2	2166	28	<LOD	5	33	3	<LOD	6	<LOD	5	29	2
SM70b	123	124	9	3	<LOD	43	<LOD	4	41	6	<LOD	6	1898	24	<LOD	4	23	2	<LOD	6	<LOD	5	29	2
SM70b	124	125	10	3	<LOD	46	<LOD	5	40	6	<LOD	6	1859	25	<LOD	5	19	2	<LOD	7	<LOD	4	19	2
SM70b	125	126	14	3	<LOD	48	<LOD	5	45	7	<LOD	7	2334	31	<LOD	5	48	3	<LOD	7	<LOD	4	29	2
SM70b	126	127	12	3	<LOD	45	<LOD	5	35	6	<LOD	6	1656	22	<LOD	5	20	2	<LOD	6	<LOD	4	21	2
SM70b	127	128	12	3	<LOD	45	<LOD	5	59	6	8	2	2006	25	<LOD	5	19	2	<LOD	6	<LOD	5	21	2
SM70b	128	129	12	3	<LOD	47	<LOD	5	36	6	<LOD	7	1870	25	<LOD	4	19	3	<LOD	7	<LOD	5	14	2
SM70b	129	130	9	3	<LOD	46	<LOD	5	35	6	<LOD	7	1517	21	<LOD	5	14	2	<LOD	6	<LOD	6	20	2
SM70b	130	131	13	3	<LOD	48	<LOD	5	48	7	<LOD	7	2304	31	<LOD	5	22	3	<LOD	7	<LOD	6	19	2
SM70b	131	132	14	3	<LOD	48	<LOD	6	76	9	13	3	3159	41	<LOD	5	41	3	10	3	<LOD	5	42	3
SM70b	132	133	12	3	<LOD	47	6	2	71	8	14	3	3108	39	8	2	39	3	<LOD	8	<LOD	5	53	3
SM70b	133	134	20	5	<LOD	62	<LOD	8	84	12	11	3	3891	62	<LOD	7	58	5	<LOD	11	<LOD	8	36	3
SM70b	134	135	<LOD	11	<LOD	52	<LOD	6	77	9	20	3	3320	46	<LOD	6	42	4	<LOD	9	<LOD	8	52	3
SM70b	135	136	11	3	<LOD	48	7	2	76	8	15	3	2870	37	<LOD	5	43	3	<LOD	8	<LOD	4	27	2
SM70b	136	137	15	3	<LOD	47	<LOD	5	67	8	14	2	2432	32	6	2	28	3	<LOD	7	<LOD	4	35	2
SM70b	137	138	20	4	<LOD	46	6	2	96	9	17	3	3334	41	9	2	49	4	<LOD	8	<LOD	4	38	2
SM70b	138	139	19	3	<LOD	45	<LOD	5	53	7	27	3	2122	27	<LOD	5	34	3	<LOD	7	<LOD	4	20	2
SM70b	139	140																						
SM71a	0	1	18	3	<LOD	38	6	2	75	6	14	2	2915	30	7	1	48	3	8	2	<LOD	3	42	2
SM71a	1	2	21	3	<LOD	41	6	2	89	8	21	2	3939	41	12	2	40	3	10	2	4	1	53	2
SM71a	2	3	11	3	<LOD	44	6	2	84	8	14	2	3546	42	7	2	34	3	<LOD	7	<LOD	3	31	2
SM71a	3	4	<LOD	8	<LOD	41	<LOD	4	37	5	7	2	1742	21	<LOD	4	23	2	<LOD	5	<LOD	3	14	2
SM71a	4	5	10	2	<LOD	35	<LOD	4	43	5	<LOD	5	1665	17	5	1	22	2	<LOD	5	<LOD	2	15	1
SM71a	5	6	11	2	<LOD	35	5	1	32	4	<LOD	5	1643	17	6	1	20	2	<LOD	5	<LOD	2	14	1
SM71a	6	7	12	2	<LOD	36	<LOD	4	42	5	<LOD	5	2099	21	6	1	24	2	<LOD	5	<LOD	2	16	1
SM71a	7	8	14	3	<LOD	44	<LOD	5	66	8	17	2	3073	37	7	2	179	5	<LOD	7	<LOD	3	31	2
SM71a	8	9	10	3	<LOD	37	6	1	74	7	9	2	3189	31	7	1	74	3	<LOD	6	<LOD	3	28	2
SM71a	9	10	17	3	<LOD	40	6	2	83	8	15	2	4043	43	9	2	31	3	<LOD	7	3	1	46	2
SM71a	11	12	18	3	<LOD	38	6	2	94	8	17	2	4750	46	6	1	141	4	9	2	<LOD	3	48	2

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations							Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF		
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg							Cinnabar	White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
																								<LOD					
SM71a	12	13	07/21/2015																	<LOD	36	92	3	10	1				
SM71a	13	14	07/21/2015	60								Grayish Brown	GP	WB	Dry					<LOD	65	123	7	<LOD	5				
SM71a	14	15	07/21/2015					x						WB						<LOD	39	114	3	8	1				
SM71a	15	16	07/21/2015	80				x				Dark Grayish Brown		WB	Damp					<LOD	45	130	5	6	1				
SM71a	16	17	07/21/2015					x						WB						<LOD	49	109	4	5	1				
SM71a	17	18	07/21/2015	80				x				Dark Grayish Brown		WB	Dry					<LOD	38	95	3	4	1				
SM71a	18	19	07/21/2015					x						WB						<LOD	38	137	4	4	1				
SM71a	19	20	07/21/2015	80				x				Grayish Brown		WB	Damp					<LOD	37	93	3	5	1				
SM71a	20	21	07/21/2015											WB						<LOD	37	159	4	7	1				
SM71a	21	22	07/21/2015	100				x				Dark Grayish Brown		WB	Dry					<LOD	41	236	6	8	1				
SM71a	22	23	07/21/2015					x						WB						<LOD	42	112	4	4	1				
SM71a	23	24	07/21/2015	90				x				Dark Grayish Brown		WB	Dry					<LOD	37	76	3	4	1				
SM71a	24	25	07/21/2015					x				Brown		B	Damp					<LOD	37	81	3	5	1				
SM71a	25	26	07/21/2015					x				Brown		B	Damp					<LOD	37	104	3	5	1				
SM71a	26	27	07/21/2015					x				Brown		B	Damp					<LOD	39	123	4	5	1				
SM71a	27	28	07/21/2015					x				Dark Grayish Brown		B	Damp					42	13	121	4	5	1				
SM71a	28	29	07/21/2015									Dark Grayish Brown		B	Damp					<LOD	36	118	3	4	1				
SM71a	29	30	07/21/2015									Brown		B	Damp					<LOD	36	149	4	5	1				
SM71a	30	31	07/21/2015					x				Grayish Brown		B	Damp					<LOD	37	212	5	5	1				
SM71a	31	32	07/21/2015					x				Brown		B	Damp					<LOD	38	189	4	5	1				
SM71a	32	33	07/21/2015					x				Dark Grayish Brown		B	Damp					<LOD	37	247	5	6	1				
SM71a	33	34	07/21/2015					x				Dark Grayish Brown		B	Damp					<LOD	39	217	5	4	1				
SM71a	34	35	07/21/2015					x				Brown		B	Damp					<LOD	38	183	4	3	1				
SM71a	35	36	07/21/2015									Grayish Brown		B	Damp					<LOD	37	142	4	4	1				
SM71a	36	37	07/21/2015									Dark Brown		B	Damp					<LOD	35	86	3	5	1				
SM71a	37	38	07/21/2015									Very Dark Grayish Brown		B	Damp					<LOD	38	117	4	4	1				
SM71a	38	39	07/21/2015									Dark Brown		B	Damp					<LOD	38	145	4	5	1				
SM71a	39	40	07/21/2015					x				Dark Grayish Brown		B	Damp					<LOD	40	400	7	<LOD	4				
SM71a	40	41	07/21/2015					x				Dark Brown		B	Damp					<LOD	35	306	5	4	1				
SM71a	41	42	07/21/2015					x				Dark Grayish Brown		B	Damp					<LOD	36	170	4	4	1				
SM71a	42	43	07/21/2015					x				Dark Grayish Brown		B	Damp					<LOD	36	144	4	4	1				
SM71a	43	44	07/21/2015									Dark Grayish Brown		B	Damp					<LOD	36	99	3	6	1				
SM71a	44	45	07/21/2015					x				Very Dark Gray		B	Damp					<LOD	37	117	3	5	1				
SM71a	45	46	07/21/2015									Dark Grayish Brown		B	Damp					<LOD	37	125	4	3	1				
SM71a	46	47	07/21/2015									Dark Gray		B	Damp					<LOD	37	154	4	3	1				
SM71a	47	48	07/21/2015									Dark Grayish Brown		B	Damp					<LOD	36	115	3	4	1				
SM71a	48	49	07/21/2015									Dark Grayish Brown		B	Damp					<LOD	36	135	4	4	1				
SM71a	49	50	07/21/2015									Dark Grayish Brown		B	Damp					<LOD	38	114	4	7	1				
SM71a	50	51	07/21/2015									Very Dark Gray		B	Damp					<LOD	36	109	3	5	1				
SM71a	51	52	07/21/2015									Very Dark Gray		B	Damp					<LOD	36	88	3	5	1				
SM71a	52	53	07/21/2015									Black		B	Damp					<LOD	38	88	3	5	1				
SM71a	53	54	07/21/2015									Very Dark Gray		B	Damp					<LOD	35	97	3	5	1				
SM71a	54	55	07/21/2015									Black		B	Damp					<LOD	36	82	3	5	1				
SM71a	55	56	07/21/2015									Black		B	Damp					<LOD	36	101	3	6	1				
SM71a	56	57	07/21/2015									Dark Grayish Brown		B	Damp					<LOD	36	48	2	6	1				
SM71a	57	58	07/21/2015									Dark Gray		B	Damp					<LOD	35	46	2	4	1				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM71a	12	13	13	3	<LOD	37	6	1	62	6	6	2	2694	27	4	1	53	3	7	2	3	1	32	2
SM71a	13	14	21	5	<LOD	67	<LOD	8	58	13	19	4	3923	73	11	3	13	4	<LOD	11	<LOD	5	47	4
SM71a	14	15	19	3	<LOD	39	6	2	64	7	19	2	3050	31	7	1	30	3	7	2	<LOD	3	36	2
SM71a	15	16	24	4	<LOD	46	8	2	103	11	24	3	6270	73	15	2	37	4	<LOD	9	5	1	58	3
SM71a	16	17	10	3	<LOD	50	<LOD	6	53	9	8	2	3114	42	<LOD	6	32	3	<LOD	8	<LOD	4	32	2
SM71a	17	18	9	3	<LOD	38	6	2	48	6	8	2	2894	30	5	1	17	2	<LOD	6	<LOD	3	22	2
SM71a	18	19	13	3	<LOD	38	<LOD	4	47	6	20	2	2556	27	4	1	23	2	<LOD	6	<LOD	3	30	2
SM71a	19	20	16	3	<LOD	37	<LOD	4	53	6	6	2	3058	30	4	1	77	3	<LOD	6	<LOD	2	28	2
SM71a	20	21	23	3	<LOD	37	7	2	104	7	38	2	4099	39	13	2	36	3	14	2	4	1	59	2
SM71a	21	22	26	4	<LOD	41	8	2	178	12	32	3	8354	85	12	2	109	5	<LOD	10	<LOD	4	84	3
SM71a	22	23	11	3	<LOD	42	5	2	73	8	18	2	3309	37	9	2	41	3	<LOD	7	<LOD	3	39	2
SM71a	23	24	19	3	<LOD	37	7	2	68	6	21	2	2911	29	7	1	24	2	7	2	<LOD	3	39	2
SM71a	24	25	20	3	<LOD	38	8	2	66	7	11	2	3477	35	6	1	107	4	<LOD	6	<LOD	2	34	2
SM71a	25	26	16	3	<LOD	37	6	1	77	6	13	2	2947	29	6	1	29	2	<LOD	6	<LOD	3	36	2
SM71a	26	27	13	3	<LOD	39	7	2	107	9	13	2	4905	50	6	1	200	5	<LOD	8	<LOD	3	49	2
SM71a	27	28	23	3	<LOD	39	<LOD	5	86	7	16	2	3785	38	7	1	90	4	<LOD	7	<LOD	3	43	2
SM71a	28	29	11	2	<LOD	36	5	1	36	5	9	2	2065	21	<LOD	3	77	3	9	2	<LOD	3	22	2
SM71a	29	30	16	3	<LOD	36	7	1	43	5	6	2	2348	24	<LOD	3	146	4	9	2	<LOD	3	29	2
SM71a	30	31	<LOD	8	<LOD	37	9	2	69	7	7	2	3156	31	4	1	60	3	6	2	<LOD	3	35	2
SM71a	31	32	28	3	<LOD	38	9	2	105	8	28	2	3884	39	11	2	21	3	<LOD	7	<LOD	3	35	2
SM71a	32	33	15	3	<LOD	37	5	1	68	6	9	2	3006	29	5	1	123	4	7	2	<LOD	3	33	2
SM71a	33	34	12	3	<LOD	38	7	2	80	7	8	2	2983	30	<LOD	4	53	3	<LOD	6	<LOD	3	28	2
SM71a	34	35	17	3	<LOD	38	6	2	86	7	<LOD	5	3331	33	<LOD	4	56	3	<LOD	6	<LOD	3	35	2
SM71a	35	36	16	3	<LOD	37	9	2	89	7	12	2	3714	37	4	1	83	3	<LOD	7	<LOD	3	37	2
SM71a	36	37	17	3	<LOD	36	5	1	66	6	17	2	2604	26	10	1	26	2	<LOD	6	<LOD	2	29	2
SM71a	37	38	21	3	<LOD	38	7	2	103	7	22	2	3641	37	10	2	26	3	<LOD	7	3	1	40	2
SM71a	38	39	15	3	<LOD	38	<LOD	4	78	7	20	2	3308	34	5	1	49	3	<LOD	6	<LOD	3	36	2
SM71a	39	40	18	3	<LOD	41	<LOD	6	90	9	6	2	4719	50	<LOD	4	226	6	<LOD	8	<LOD	4	39	2
SM71a	40	41	9	2	<LOD	35	5	1	56	6	5	2	2499	24	<LOD	4	119	3	8	2	<LOD	3	31	2
SM71a	41	42	14	3	<LOD	36	<LOD	4	53	6	7	2	2451	24	<LOD	4	53	3	6	2	4	1	28	2
SM71a	42	43	16	3	<LOD	36	5	1	71	6	8	2	2655	26	<LOD	4	47	3	<LOD	6	<LOD	3	28	2
SM71a	43	44	16	3	<LOD	36	5	1	53	6	6	2	2748	27	4	1	22	2	8	2	<LOD	3	28	2
SM71a	44	45	23	3	<LOD	37	7	2	79	7	18	2	3152	31	10	1	36	3	8	2	<LOD	3	41	2
SM71a	45	46	19	3	<LOD	37	5	2	77	7	8	2	3758	37	5	1	51	3	7	2	<LOD	3	34	2
SM71a	46	47	13	3	<LOD	37	8	2	84	7	8	2	3306	33	5	1	48	3	<LOD	6	<LOD	3	26	2
SM71a	47	48	13	3	<LOD	36	9	2	82	6	6	2	2916	29	<LOD	4	40	3	<LOD	6	<LOD	3	22	2
SM71a	48	49	13	3	<LOD	37	7	2	72	6	8	2	2792	28	<LOD	4	44	3	<LOD	6	<LOD	3	28	2
SM71a	49	50	23	3	<LOD	38	6	2	101	7	20	2	3669	37	11	2	52	3	9	2	<LOD	3	41	2
SM71a	50	51	15	3	<LOD	36	<LOD	4	90	7	14	2	3375	33	7	1	65	3	8	2	<LOD	3	47	2
SM71a	51	52	22	3	<LOD	37	<LOD	4	82	7	19	2	3531	34	7	1	72	3	10	2	4	1	45	2
SM71a	52	53	16	3	<LOD	38	7	2	86	7	17	2	3015	31	6	1	115	4	7	2	<LOD	3	36	2
SM71a	53	54	16	3	<LOD	35	6	1	65	6	16	2	2607	26	9	1	34	2	10	2	3	1	42	2
SM71a	54	55	14	3	<LOD	36	7	1	64	6	16	2	2596	26	7	1	36	2	<LOD	6	3	1	43	2
SM71a	55	56	17	3	<LOD	36	6	1	79	6	29	2	2902	28	10	1	18	2	8	2	3	1	49	2
SM71a	56	57	15	3	<LOD	37	7	2	53	6	8	2	3051	30	<LOD	4	71	3	<LOD	6	<LOD	3	24	2
SM71a	57	58	12	2	<LOD	36	<LOD	4	51	6	6	2	2447	24	<LOD	4	29	2	<LOD	5	<LOD	3	25	2

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis				XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)	Mercury Error (ppm)
																								<LOD	<LOD	<LOD	<LOD	<LOD	
SM71a	58	59	07/21/2015									Very Dark Gray		B	Damp					<LOD	38	94	3	6	1				
SM71a	59	60	07/21/2015				x					Dark Grayish Brown		B	Damp					<LOD	37	72	3	5	1				
SM71a	60	61	07/21/2015								x	Dark Gray		B	Damp					<LOD	37	62	3	3	1				
SM71a	61	62	07/21/2015								x	Dark Gray		B	Damp					<LOD	36	52	2	5	1				
SM71a	62	63	07/21/2015								x	Very Dark Gray		B	Damp					<LOD	36	92	3	7	1				
SM71a	63	64	07/21/2015									Black		B	Damp					<LOD	38	90	3	4	1				
SM71a	64	65	07/21/2015									Black		B	Moist					<LOD	40	96	3	<LOD	3				
SM71a	65	66	07/21/2015									Black		B	Moist					<LOD	39	104	3	5	1				
SM71a	66	67	07/21/2015									Dark Gray		B	Damp					<LOD	36	117	3	3	1				
SM71a	67	68	07/21/2015									Very Dark Gray		B	Damp					<LOD	38	71	3	3	1				
SM71a	68	69	07/21/2015									Very Dark Gray		B	Damp					<LOD	37	82	3	3	1				
SM71a	69	70	07/21/2015									Very Dark Gray		B	Damp					<LOD	37	63	3	5	1				
SM71a	70	71	07/21/2015									Very Dark Gray		B	Damp					<LOD	37	53	2	<LOD	3				
SM71a	71	72	07/21/2015								x	Dark Gray		B	Damp					<LOD	39	54	3	3	1				
SM71a	72	73	07/21/2015								x	Dark Gray		B	Damp					<LOD	37	69	3	<LOD	3				
SM71a	73	74	07/21/2015								x	Dark Gray		B	Damp					<LOD	37	68	3	<LOD	3				
SM71a	74	75	07/21/2015								x	Black		B	Damp					<LOD	38	113	4	6	1				
SM71a	75	76	07/21/2015								x	Black		B	Damp					<LOD	38	99	3	8	1				
SM71a	76	77	07/21/2015								x	Black		B	Damp					<LOD	38	133	4	8	1				
SM71a	77	78	07/21/2015									Black		B	Damp					<LOD	39	129	4	6	1				
SM71a	78	79	07/21/2015									Black		B	Damp					<LOD	40	94	3	9	1				
SM71a	79	80	07/21/2015								x	Very Dark Gray		B	Damp					<LOD	38	51	2	<LOD	3				
SM71a	80	81	07/21/2015									Very Dark Gray		B	Damp					<LOD	38	59	3	5	1				
SM71a	81	82	07/21/2015									Very Dark Gray		B	Damp					<LOD	39	59	3	<LOD	3				
SM71a	82	83	07/21/2015								x	Very Dark Gray		B	Damp					<LOD	37	52	2	3	1				
SM71a	83	84	07/21/2015									Very Dark Gray		B	Damp					<LOD	37	74	3	5	1				
SM71a	84	85	07/21/2015									Very Dark Gray		B	Damp					<LOD	38	78	3	4	1				
SM71a	85	86	07/21/2015									Black		B	Damp					<LOD	38	80	3	5	1				
SM71a	86	87	07/21/2015									Black		B	Damp					<LOD	40	84	3	5	1				
SM71a	87	88	07/21/2015									Very Dark Gray		B	Damp					<LOD	44	62	3	5	1				
SM71a	88	89	07/21/2015									Very Dark Gray		B	Damp					<LOD	36	113	3	3	1				
SM71a	89	90	07/21/2015	0									NR	B															
SM71a	90	91	07/21/2015									Very Dark Gray		B	Moist														
SM71a	91	92	07/21/2015									Very Dark Gray		B	Moist					<LOD	37	87	3	4	1				
SM71a	92	93	07/21/2015									Very Dark Gray		B	Moist					<LOD	42	106	4	5	1				
SM71a	93	94	07/21/2015									Very Dark Gray		B	Moist					<LOD	54	100	5	6	2				
SM71a	94	95	07/21/2015									Very Dark Gray		B	Wet					<LOD	39	129	4	5	1				
SM71a	95	96	07/21/2015									Black		B	Wet					<LOD	39	180	4	4	1				
SM71a	96	97	07/21/2015									Very Dark Gray		B	Wet					<LOD	39	107	3	8	1				
SM71a	97	98	07/21/2015									Very Dark Gray		B	Wet					<LOD	32	69	3	<LOD	2				
SM71a	98	99	07/21/2015									Black		B	Wet					<LOD	35	139	4	7	1				
See borehole SM71a interval 0-100 ft.																													
SM71b	100	101	07/29/2015									Black		B	Wet	MW43	98 - 118			<LOD	46	86	4	<LOD	4				
SM71b	102	103	07/29/2015									Dark Gray		B	Wet	MW43	98 - 118			<LOD	62	55	4	<LOD	5				
SM71b	103	104	07/29/2015									Dark Gray		B	Wet	MW43	98 - 118			<LOD	45	125	4	4	1				

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM71a	58	59	16	3	<LOD	38	6	2	91	8	18	2	5121	50	10	2	89	4	16	3	<LOD	3	42	2
SM71a	59	60	15	3	<LOD	37	<LOD	4	74	7	<LOD	5	3060	31	<LOD	4	50	3	7	2	4	1	31	2
SM71a	60	61	13	3	<LOD	37	<LOD	4	44	6	6	2	2435	25	<LOD	4	46	3	6	2	<LOD	3	25	2
SM71a	61	62	10	3	<LOD	36	9	1	65	6	7	2	2828	28	<LOD	4	35	2	<LOD	6	<LOD	2	27	2
SM71a	62	63	16	3	<LOD	37	8	2	86	7	18	2	3341	33	9	1	27	2	10	2	<LOD	3	41	2
SM71a	63	64	17	3	<LOD	39	7	2	87	7	19	2	3703	37	7	1	40	3	<LOD	7	<LOD	3	45	2
SM71a	64	65	18	3	<LOD	40	<LOD	5	74	7	16	2	3133	33	<LOD	4	40	3	<LOD	6	<LOD	3	36	2
SM71a	65	66	17	3	<LOD	39	<LOD	5	59	6	22	2	2707	29	6	1	34	3	9	2	<LOD	3	40	2
SM71a	66	67	18	3	<LOD	36	<LOD	4	46	5	13	2	2075	21	5	1	20	2	9	2	<LOD	3	29	2
SM71a	67	68	18	3	<LOD	38	<LOD	4	62	6	11	2	2535	26	5	1	39	3	9	2	<LOD	2	31	2
SM71a	68	69	11	3	<LOD	37	5	1	65	6	<LOD	5	2578	26	<LOD	4	36	2	<LOD	6	<LOD	2	31	2
SM71a	69	70	14	3	<LOD	37	6	1	58	6	8	2	2719	28	<LOD	4	45	3	8	2	<LOD	3	30	2
SM71a	70	71	17	3	<LOD	37	<LOD	4	56	6	<LOD	5	2697	27	<LOD	4	40	3	<LOD	6	<LOD	3	26	2
SM71a	71	72	12	3	<LOD	39	6	2	59	6	9	2	2706	29	5	1	50	3	<LOD	6	<LOD	3	27	2
SM71a	72	73	11	3	<LOD	37	5	1	53	6	8	2	2861	29	<LOD	4	50	3	<LOD	6	<LOD	3	27	2
SM71a	73	74	10	3	<LOD	37	5	1	47	6	5	2	2788	28	4	1	45	3	<LOD	6	<LOD	3	23	2
SM71a	74	75	18	3	<LOD	38	<LOD	5	74	7	19	2	3701	37	11	2	101	4	7	2	<LOD	3	47	2
SM71a	75	76	21	3	<LOD	38	5	2	118	8	24	2	4458	44	7	1	88	4	<LOD	7	<LOD	3	49	2
SM71a	76	77	28	3	<LOD	39	6	2	92	8	30	2	4091	41	10	2	73	3	17	3	4	1	54	2
SM71a	77	78	15	3	<LOD	39	<LOD	5	76	7	14	2	3567	37	12	2	68	3	10	2	<LOD	3	64	3
SM71a	78	79	21	3	<LOD	40	5	2	100	8	25	2	4519	46	11	2	72	4	<LOD	7	<LOD	3	125	4
SM71a	79	80	12	3	<LOD	38	5	1	65	6	8	2	2982	30	4	1	53	3	<LOD	6	<LOD	3	31	2
SM71a	80	81	18	3	<LOD	38	<LOD	4	58	6	8	2	2700	28	<LOD	4	49	3	8	2	<LOD	3	30	2
SM71a	81	82	14	3	<LOD	39	<LOD	5	100	9	7	2	5574	54	<LOD	4	130	4	<LOD	8	4	1	21	2
SM71a	82	83	14	3	<LOD	37	<LOD	4	70	6	8	2	2951	30	<LOD	4	48	3	<LOD	6	<LOD	3	26	2
SM71a	83	84	23	3	<LOD	38	7	2	79	7	11	2	3120	31	5	1	34	3	8	2	<LOD	3	32	2
SM71a	84	85	12	3	<LOD	38	6	2	72	7	12	2	3035	31	<LOD	4	37	3	<LOD	6	<LOD	3	36	2
SM71a	85	86	19	3	<LOD	39	6	2	77	7	16	2	3308	34	5	1	45	3	<LOD	7	<LOD	3	43	2
SM71a	86	87	16	3	<LOD	40	6	2	88	8	26	2	4183	44	7	2	63	3	<LOD	7	<LOD	3	50	2
SM71a	87	88	22	3	<LOD	44	<LOD	5	78	9	20	2	4252	48	<LOD	5	65	4	<LOD	8	<LOD	3	38	2
SM71a	88	89	11	2	<LOD	36	5	1	41	6	6	2	2538	25	<LOD	4	43	3	<LOD	5	<LOD	3	30	2
SM71a	89	90																						
SM71a	90	91																						
SM71a	91	92	13	3	<LOD	37	4	1	55	6	<LOD	5	2562	26	<LOD	3	35	2	<LOD	6	<LOD	3	28	2
SM71a	92	93	15	3	<LOD	41	8	2	91	8	7	2	4266	46	<LOD	4	74	4	<LOD	7	<LOD	3	24	2
SM71a	93	94	17	4	<LOD	55	<LOD	6	64	9	12	3	2972	44	9	2	30	4	<LOD	8	<LOD	4	40	3
SM71a	94	95	15	3	<LOD	39	7	2	71	7	10	2	3105	32	<LOD	4	38	3	<LOD	6	<LOD	3	24	2
SM71a	95	96	15	3	<LOD	39	5	2	71	7	9	2	2998	31	6	1	39	3	<LOD	6	<LOD	3	46	2
SM71a	96	97	18	3	<LOD	39	6	2	74	7	14	2	3310	34	<LOD	4	42	3	<LOD	6	<LOD	3	34	2
SM71a	97	98	10	2	<LOD	33	<LOD	3	58	4	8	2	1333	14	12	1	11	2	<LOD	5	<LOD	2	35	2
SM71a	98	99	14	2	<LOD	35	<LOD	4	62	6	15	2	2490	24	5	1	33	2	10	2	<LOD	3	36	2
See borehole SM71a interval 0-100 ft.																								
SM71b	100	101	14	3	<LOD	47	6	2	75	8	16	2	2760	35	6	2	46	3	<LOD	7	<LOD	3	39	2
SM71b	102	103	<LOD	12	<LOD	63	<LOD	6	67	10	<LOD	9	2721	47	<LOD	7	40	4	<LOD	9	<LOD	5	27	3
SM71b	103	104	13	3	<LOD	45	<LOD	5	57	7	13	2	2464	31	<LOD	5	30	3	<LOD	7	<LOD	3	28	2

Appendix B

Soil Boring ID	Sample Depth Interval (feet)		Date	Split Spoon % Recovery	Mineralogical/Lithological Observations								Soil Color	USCS Symbol	Soil Type	Moisture observed in Soil Sample or Rock Cuttings	Monitoring Well ID	Monitoring Well Screened Interval (feet bgs)	Laboratory Analysis			XRF	XRF	XRF	XRF	XRF	XRF	
	Top	Bottom			Red Porous Rock	Vitrious Slag	Red Rind	Realgar	Orpiment	Stibnite	Elemental Hg	Cinnabar							White Vein	Sample ID	Antimony 6020A (mg/kg)	Arsenic 6020A (mg/kg)	Mercury 7471A (mg/kg)	Antimony (ppm)	Antimony Error (ppm)	Arsenic (ppm)	As Error (ppm)	Mercury (ppm)
SM71b	104	105	07/29/2015										Dark Gray		B	Wet	MW43	98 - 118					<LOD	47	182	5	<LOD	4
SM71b	105	106	07/29/2015								x		Dark Gray		B	Wet	MW43	98 - 118					<LOD	49	185	6	5	1
SM71b	106	107	07/29/2015								x		Dark Gray		B	Wet	MW43	98 - 118					<LOD	50	225	6	<LOD	4
SM71b	107	108	07/29/2015								x		Dark Gray		B	Wet	MW43	98 - 118					<LOD	48	248	7	<LOD	4
SM71b	108	109	07/29/2015								x		Dark Gray		B	Wet	MW43	98 - 118					<LOD	49	475	9	<LOD	5
SM71b	109	110	07/29/2015								x		Dark Gray		B	Wet	MW43	98 - 118					<LOD	49	1285	19	7	2
SM71b	110	111	07/29/2015								x		dark gray and white		B	Wet	MW43	98 - 118					<LOD	47	803	13	6	2
SM71b	111	112	07/29/2015								x		Dark Gray		B	Wet	MW43	98 - 118					<LOD	48	4026	51	<LOD	10
SM71b	112	113	07/29/2015								x		Dark Gray		B	Wet	MW43	98 - 118					<LOD	48	2880	36	11	3
SM71b	113	114	07/29/2015										Black		B	Moist	MW43	98 - 118					61	16	1150	18	7	2
SM71b	114	115	07/29/2015								x		Dark Gray		B	Wet	MW43	98 - 118					51	16	3397	44	<LOD	9
SM71b	115	116	07/29/2015								x		Gray		B	Wet	MW43	98 - 118					<LOD	52	6954	94	<LOD	13
SM71b	116	117	07/29/2015								x		Gray		B	Wet	MW43	98 - 118					<LOD	47	916	14	7	2
SM71b	117	118	07/29/2015										Dark Gray		B	Wet	MW43	98 - 118					<LOD	42	431	8	6	1
SM71b	118	119	07/29/2015										Dark Gray		B	Wet	MW43	98 - 118					<LOD	48	478	10	<LOD	5
SM71b	119	120	07/29/2015								x		Black		B	Wet							<LOD	47	363	8	5	1
SM71b	120	121	07/29/2015										Black		B	Wet							<LOD	49	212	6	6	1

Soil Boring ID	Sample Depth Interval (feet)		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF		
	Top	Bottom	Barium (ppm)	Barium Error (ppm)	Cadmium (ppm)	Cadmium Error (ppm)	Chromium (ppm)	Chromium Error (ppm)	Cobalt (ppm)	Cobalt Error (ppm)	Copper (ppm)	Copper Error (ppm)	Iron (ppm)	Iron Error (ppm)	Lead (ppm)	Lead Error (ppm)	Manganese (ppm)	Manganese Error (ppm)	Nickel (ppm)	Nickel Error (ppm)	Selenium (ppm)	Selenium Error (ppm)	Zinc (ppm)	Zinc Error (ppm)
SM71b	104	105	14	3	<LOD	47	<LOD	5	70	8	14	2	2520	33	7	2	42	3	<LOD	7	<LOD	4	33	2
SM71b	105	106	13	3	<LOD	50	7	2	79	9	18	3	3030	40	<LOD	5	34	3	12	3	<LOD	4	39	3
SM71b	106	107	11	4	<LOD	50	<LOD	6	84	10	12	3	4231	55	<LOD	5	82	5	<LOD	9	<LOD	4	24	2
SM71b	107	108	17	4	<LOD	49	<LOD	6	76	9	14	3	3728	48	9	2	53	4	<LOD	9	<LOD	4	30	2
SM71b	108	109	<LOD	10	<LOD	49	6	2	87	8	12	2	2770	36	<LOD	5	29	3	<LOD	8	<LOD	4	36	3
SM71b	109	110	13	3	<LOD	49	<LOD	6	46	8	<LOD	7	2502	34	<LOD	5	28	3	<LOD	7	<LOD	5	31	2
SM71b	110	111	10	3	<LOD	47	<LOD	5	47	7	10	2	2000	27	<LOD	5	42	3	<LOD	7	<LOD	5	32	2
SM71b	111	112	<LOD	11	<LOD	49	<LOD	6	65	9	<LOD	8	3822	49	<LOD	5	67	4	<LOD	9	<LOD	8	28	2
SM71b	112	113	11	3	<LOD	47	<LOD	5	55	7	9	2	1993	27	<LOD	5	31	3	<LOD	7	<LOD	7	20	2
SM71b	113	114	19	4	<LOD	48	9	2	79	8	20	3	2749	36	<LOD	6	33	3	<LOD	8	<LOD	5	36	3
SM71b	114	115	15	4	<LOD	49	<LOD	6	101	9	16	3	3640	47	<LOD	6	63	4	<LOD	9	<LOD	8	56	3
SM71b	115	116	<LOD	12	<LOD	53	<LOD	7	130	14	<LOD	9	6731	91	<LOD	6	159	7	<LOD	11	<LOD	11	24	3
SM71b	116	117	17	3	<LOD	47	<LOD	6	88	8	18	3	3260	41	<LOD	5	62	4	<LOD	8	<LOD	5	38	2
SM71b	117	118	15	3	<LOD	43	<LOD	5	92	8	19	2	3308	38	<LOD	5	47	3	<LOD	7	<LOD	4	34	2
SM71b	118	119	14	4	<LOD	49	<LOD	6	88	9	19	3	3016	40	<LOD	5	24	3	<LOD	8	<LOD	4	38	3
SM71b	119	120	22	3	<LOD	47	<LOD	5	72	7	19	3	2416	31	6	2	32	3	<LOD	7	<LOD	4	37	2
SM71b	120	121	<LOD	10	<LOD	49	6	2	83	9	17	3	3092	40	<LOD	5	28	3	<LOD	8	<LOD	4	39	3

**Key**

<LOD = Less than level of detection  
 bgs = Below ground surface  
 ND = Not detected  
 NR = Not reported  
 ppm = Parts per million  
 XRF = X-ray fluorescence spectroscopy

**RI Soil Type Descriptions**

B = Bedrock of the Kuskokwim Group.  
 DN (KG and Loess) = Disturbed native soil that comprises a mixture of soil derived from Kuskokwim group bedrock and glacially-derived windblown silt and very fine sand.  
 DN (KG) = Disturbed native soil that is derived from Kuskokwim Group bedrock and contains clasts of the same.  
 DN (KG, MZ) = Disturbed native soil that is derived from mineralized Kuskokwim group bedrock.  
 DN (loess) = Glacially derived windblown silt and very fine sand that has been disturbed by anthropogenic activity.  
 DN = Native unconsolidated soil that do not appear to have been disturbed by anthropogenic activity.  
 N (KG) = Native soil that is derived from Kuskokwim group bedrock and contains clasts of the same.  
 N (KG, MZ) = Native soil that is derived from mineralized Kuskokwim group bedrock and contains clasts of the same.  
 N (loess) = Glacially-derived windblown silt and very fine sand that is undisturbed by anthropogenic activity.  
 N = Native unconsolidated soils not otherwise specified that are undisturbed by anthropogenic activity.  
 N or DN (KG, MZ) = Native soil that may or may not have been disturbed that is derived from mineralized Kuskokwim Group bedrock.  
 N or DN = Native soil not otherwise specified that may or may not have been disturbed.  
 T/WR = Mine waste that includes tailings (thermally processed or) and/or waste rock. May also contain vitreous material and furnace dusts.  
 WB = Weathered bedrock of the Kuskokwim Group.  
 WR = Waste rock.