



Taseko Prosperity Gold-Copper Project

Appendix 5-4-L

Appendix 5-4-L Summary of Chemical Data

Table L-1 Descriptions of Symbols used in H-2

Periodic Table Notation	Table Headings	Textures
Ca – Calcium Mg – Magnesium Na – Sodium K - Potassium	TEC – Total Exchangeable Cations CEC – Cation Exchange Capacity ESP – Exchangeable Sodium Percentage EC – Electrical Conductivity SAR – Sodium Absorption Ratio OM – Organic Matter	S – Sand LS – Loamy Sand SL – Sandy Loam L – Loam SiL – Silt Loam SCL – Sandy Clay Loam CL – Clay Loam SiCL – Silty Clay Loam Si – Silt SC – Sandy Clay SiC – Silty Clay C – Clay c,f,m – coarse, medium, fine

Table L-2 Summary of Chemical Data

Data Source/ Plot Number	Horizon	pH	Exchangeable Cations (cmol ⁺ /kg)				TEC (cmol ⁺ /kg)	CEC (cmol ⁺ /kg)	ESP (%)	Base Saturation (%)	Saturation (%)	EC (dS/m at 25 ^o S)	AR	OM (%)	Text ure	Sand (%)	Silt (%)	Clay (%)	
			Ca	Mg	Na	K													
JW- AXYS																			
BTM20	Om	6.3	26.8	19.4	0.4		0.2	47.0	51.1	0.8	92	109	0.41	0.5	4.4	-	28.0	56.8	15.2
BTM20	Ahgj	6.5	18.8	16.5	0.3		0.1	36.0	27.4	1.2	131	55	0.11	0.6	-	CL	32.0	39.6	28.4
BTM20	Cag	6.6	11.9	9.2	0.4	0.1		21.0	25.1	1.7	85	46	0.09	1.0	-	SL	57.0	26.2	16.8
BTM20	Cg	6.0	7.7	5.5	0.3	0.1		14.0	15.0	2.1	90	36	0.17	1.0	-	L	48.6	36.8	14.6
BTM72	Bm	6.1	----					-	-	-	-	-	-	-	SL		54.8	35.2	10.0
BTM76	Bm	5.9	----					-	-	-	-	-	-	-	L		44.0	43.4	12.6
BTM160	Bm	6.3	----					-	-	-	-	-	-	-	SL		74.6	18.0	7.4
BTM243	Om	5.7	26.2	14.5	0.3		0.1	41.0	53.4	0.6	77	114	0.12	0.5	4.5	-	32.8	49.2	18.0
BTM243	Ahg1	5.6	19.2	9.8		0.3	0.1	29.0	39.6	0.7	74	76	0.09	0.6	3.4	L	37.0	41.2	21.8
BTM243	Ahg2	6.0	24.0	15.1	0.3		0.1	39.0	43.6	0.6	90	79	0.15	0.4	4.0	L	28.0	46.0	26.0
DTM16	Bm	6.0	2.0	0.4	0.1	0.2		3.0	13.3	0.7	20	46	0.04	0.4	-	L	44.6	42.8	12.6
DTM16	Bt	6.4	6.6	1.7	0.2	0.1		9.0	12.1	1.2	71	32	0.04	0.8	-	L	35.0	49.6	15.4
DTM16	CB	6.7	9.0	2.8	0.2	0.1		12.0	15.8	1.2	77	32	0.07	1.0	-	SL	60.8	29.6	9.6
DTM53	Om	6.6	75.8	30.1	0.4		0.8	107.0	104.0	0.4	102	266	0.27	0.3	4.8	-	-	-	-
DTM53	Ah	6.5	54.1	24.0	0.4		0.6	79.0	79.4	0.5	100	137	0.23	0.3	5.2	L	43.2	44.2	12.6
DTM53	ACg	6.8	----						12.7	-	-	32	0.10	0.5	0.9	SL	69.2	21.2	9.6
DTM53	Cg	7.3	4.9	3.6	0.1	0.1		9.0	8.2	1.2	100	32	0.06	0.5	-	SL	69.0	23.6	7.4
DTM57	Bm	5.6	6.0	2.2	0.1	0.2		8.0	13.0	0.6	65	42	0.06	0.5	-	L	44.6	45.4	10.0
DTM57	CB	6.0	9.7	4.4	0.1	0.1		14.0	13.4	0.9	106	35	0.05	0.7	-	L	48.0	42.6	9.4
DTM134	Bm	6.8	9.2	6.9	0.2	0.2		16.0	19.6	0.9	84	35	0.08	0.5	-	SL	64.0	24.4	11.6
DTM134	BC	6.8	7.2	5.5	0.1	0.2		13.0	16.9	0.8	77	31	0.08	0.4	-	SL	68.6	23.8	7.6
DTM134	Cg	6.6	20.5	16.4	0.2		0.3	38.0	38.2	0.5	98	45	0.07	0.3	-	SL	55.2	36.2	8.6
DTM140	Ah	6.4	----					-	-	-	-	-	-	-	4.8	L	34.6	41.6	23.8
DTM151	Ahe	6.0	----					-	-	-	-	-	-	-	2.0	L	35.8	46.2	18.0
DTM151	Bt	6.1	----					-	-	-	-	-	-	-	L		31.2	47.0	21.8
DTM169	Bm	5.8	12.8	6.3		0.1	0.4	20.0	24.6	0.4	80	42	0.08	0.3	-	L	44.8	41.8	13.4
DTM169	BC	6.2	17.7	9.0		0.2	0.2	27.0	24.4	0.6	110	37	0.06	0.4	-	SL	61.0	29.2	9.8
DTM169	C	6.5	19.1	10.0	0.1		0.2	29.0	29.4	0.5	100	36	0.07	0.4	-	SL	64.0	28.4	7.6
DTM189	Bm1	5.8	----					-	-	-	-	-	-	-	L		46.0	40.4	13.6

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96-04	Bm2	4.1	-----				-	-	-	-	-	0.48	-	--		-	--				
96-04	Btj	5.0	-----				-	-	-	-	-	0.36	-	--		-	--				
96-05	Oh	4.8	-----				-	-	-	-	-	0.20	-	5.2	-	-	--				
96-05	Cg	4.8	-----				-	-	-	-	-	0.16	-	1.2	L	43.3	37.8	18.9			
97-03	Bmgj	6.8	-----				-	-	-	-	-	0.28	-	0.7	SL	75.2	15.4	9.4			
97-03	Bt	6.8	-----				-	-	-	-	-	0.30	-	0.9	SL	56.2	28.1	15.7			
97-14	Bm	5.7	-----				-	-	-	-	-	0.20	-	0.3	S	87.5	8.8	3.7			
97-15	Ah	6.0	-----				-	-	-	-	-	0.64	-	24.3	-	-	--				
97-15	Cg	6.3	-----				-	-	-	-	-	0.26	-	1.0	SL	72.0	21.0	7.0			
97-17	Bt	6.3	-----				-	-	-	-	-	0.28	-	0.4	SiL	28.2	51.9	19.9			
97-19	Bm2	6.0	-----				-	-	-	-	-	0.24	-	0.3	SL	65.2	28.9	5.9			
97-20	Bm2	6.4	-----				-	-	-	-	-	0.29	-	1.2	L	48.0	30.2	21.8			
97-68	Ah	6.7	-----				-	-	-	-	-	0.44	-	5.9	L	37.7	41.4	20.9			
97-69	Cg	6.8	-----				-	-	-	-	-	0.40	-	0.5	Si	7.0	82.7	10.3			
TEM (1993-1995)																					
93-5	Aej/Bm	7.2	16.3 -			9.5	0.5 -			35.3	-	-	-	-	0.42	-	3.7	SL	53.8	30.2	16.0
93-5	BC	7.3	16.5 -			11.3	0.5 -			33.9	-	-	-	-	0.32	-	1.7	SL	64.2	25.3	10.4
93-6	Ah/Bg	6.1	28.0 -			16.3	0.3 -			76.8	-	-	-	-	0.32	-	17.7	C	18.3	39.5	42.2
93-6	Cg	6.7	24.0 -			16.8	0.2 -			60.7	-	-	-	-	0.28	-	10.3	CL	24.7	40.2	35.1
95-1	Bm	5.8	-----				-			27.3	-	-	-	-	0.44	-	1.0	SL	60.6	20.2	19.2
95-1	Bt	5.8	-----				-			19.3	-	-	-	-	0.34	-	0.6	SL	63.1	23.5	13.5
95-3	Bm	6.1	-----				-			16.6	-	-	-	-	0.28	-	0.4	SL	64.1	23.3	12.6
95-3	Btj	6.6	-----				-			13.9	-	-	-	-	0.30	-	0.3	SL	61.5	27.6	10.9
95-3	Bca	6.8	-----				-			9.1	-	-	-	-	0.26	-	0.2	SL	70.6	22.4	7.0
95-4	Ae	5.3	-----				-			22.0	-	-	-	-	0.22	-	1.1	L	51.8	37.2	10.9
95-4	Bm	5.7	-----				-			17.7	-	-	-	-	0.20	-	0.8	SL	61.2	29.8	9.0
95-4	BC	5.2	-----				-			13.7	-	-	-	-	0.34	-	0.3	SL	67.7	24.7	7.6
95-6	Bm	6.0	-----				-			28.9	-	-	-	-	0.26	-	2.1	C	22.7	37.1	40.2
95-6	IIBm	6.1	-----				-			30.0	-	-	-	-	0.26	-	0.7	C	17.2	34.1	48.7
95-6	IIBt	6.3	-----				-			22.8	-	-	-	-	0.26	-	0.4	C	14.2	35.1	50.6
95-7	Bm	5.7	-----				-			17.4	-	-	-	-	0.20	-	1.0	SL	53.3	35.3	11.4
95-7	Btj	6.0	-----				-			15.8	-	-	-	-	0.18	-	0.4	L	48.9	37.2	13.9
95-7	C	6.3	-----				-			9.9	-	-	-	-	0.22	-	0.2	SL	61.7	31.8	6.5
95-8	Bm	5.9	-----				-			11.0	-	-	-	-	0.22	-	0.8	SL	61.7	26.2	12.1
95-8	IIBt	6.1	-----				-			30.8	-	-	-	-	0.24	-	0.6	SCL	48.1	26.9	25.1
95-8	BC	6.4	-----				-			19.8	-	-	-	-	0.18	-	0.1	SCL	46.2	27.1	26.7

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95-14	Oh1	6.2	----				-	-	-	-	-	0.98	-	35.2	-	-	--	
95-14	Oh2	6.2	----				-	-	-	-	-	1.43	-	36.0	-	-	--	
95-14	Oh3	5.6	----				-	154.0	-	-	-	1.44	-	38.6	-	-	--	
95-14	Oh4	5.4	----				-	107.0	-	-	-	1.77	-	33.0	-	-	--	
95-15	Aej	6.0	----				-	25.7	-	-	-	0.36	-	1.9	L	45.1	37.7	17.2
95-15	Btj	6.1	----				-	24.6	-	-	-	0.32	-	1.4	L	41.6	38.5	19.9
95-15	C	6.3	----				-	19.0	-	-	-	0.26	-	0.6	SL	52.7	33.9	13.4
95-16	Ae	5.9	----				-	53.0	-	-	-	0.28	-	8.2	S	100.0	0.0	0.0
95-16	Bm	6.2	----				-	35.4	-	-	-	0.34	-	2.0	L	39.9	37.2	22.8
95-16	Bt	6.3	----				-	49.0	-	-	-	0.24	-	0.8	C	27.5	26.6	45.9
95-17	Ae	6.3	----				-	21.4	-	-	-	0.24	-	0.5	SL	61.6	29.1	9.4
95-17	Bt	6.4	----				-	26.7	-	-	-	0.22	-	0.2	SCL	49.9	27.3	22.8
95-17	BC	6.6	----				-	23.0	-	-	-	0.24	-	0.1	L	46.3	30.9	22.9
95-25	Bm1	6.1	----				-	26.8	-	-	-	0.28	-	2.7	CL	42.1	30.4	27.5
95-25	Bm2	5.4	----				-	15.3	-	-	-	0.36	-	0.8	L	51.9	34.8	13.3
95-25	C	6.0	----				-	22.0	-	-	-	0.24	-	0.6	L	51.9	30.7	17.4
95-27	Bm	5.9	----				-	42.3	-	-	-	0.44	-	3.2	SCL	50.1	24.9	24.9
95-27	BC	6.3	----				-	29.5	-	-	-	0.22	-	1.1	S	100.0	0.0	0.0
95-29	Oh	6.1	----				-	141.0	-	-	-	0.44	-	31.5	-	-	--	
95-29	Cg1	6.2	----				-	95.4	-	-	-	0.32	-	21.7	-	-	--	
95-29	Cg2	6.2	----				-	32.9	-	-	-	0.26	-	1.3	L	35.0	38.2	26.8
95-30	Ah	6.1	----				-	85.7	-	-	-	0.52	-	16.6	-	-	--	
95-30	Bg	6.4	----				-	75.0	-	-	-	0.54	-	6.7	SiC	1.6	48.1	50.3
95-30	Cg	6.6	----				-	51.2	-	-	-	0.40	-	3.5	C	21.6	38.1	40.3
95-31	Aej	6.2	----				-	23.0	-	-	-	0.32	-	2.6	S	100.0	0.0	0.0
95-31	Bm	6.4	----				-	44.2	-	-	-	0.26	-	1.0	CL	35.9	32.4	31.7
95-31	BC	6.5	----				-	31.3	-	-	-	0.22	-	0.5	L	49.5	35.7	14.9
95-32	Bm	6.4	----				-	36.4	-	-	-	0.22	-	1.2	L	29.6	49.2	21.3
95-32	BC	6.6	----				-	40.7	-	-	-	0.22	-	0.4	SL	67.6	21.2	11.3
95-33	Of	6.5	----				-	142.0	-	-	-	0.52	-	32.6	-	-	--	
95-33	Oh	6.4	----				-	176.0	-	-	-	0.78	-	39.1	-	-	--	
95-33	Bg	6.4	----				-	136.0	-	-	-	0.52	-	27.1	-	-	--	
95-33	Cg	6.4	----				-	45.5	-	-	-	0.50	-	3.5	S	100.0	0.0	0.0
95-34	Aej	5.9	----				-	22.0	-	-	-	0.42	-	3.5	L	50.1	33.0	16.9
95-34	Bm1	5.8	----				-	22.0	-	-	-	0.22	-	1.6	L	50.9	31.5	17.6
95-34	BC	6.0	----				-	28.7	-	-	-	0.30	-	1.2	S	100.0	0.0	0.0

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95-34	C	-	----				-	-	-	-	-	-	-	--		-	--	
95-35	Ae	5.5	----				-	81.7	-	-	-	0.42	-	17.8	S	100.0	0.0	0.0
95-35	Bm	5.4	----				-	20.1	-	-	-	0.16	-	1.5	L	36.5	42.9	20.6
95-35	C	5.5	----				-	13.9	-	-	-	0.38	-	0.7	L	33.3	44.6	22.0
95-36	Ah	4.4	----				-	131.0	-	-	-	0.57	-	42.3	-	-	--	
95-38	Bm1	5.8	----				-	17.7	-	-	-	0.26	-	1.3	SL	61.3	30.6	8.1
95-38	Bm2	5.8	----				-	17.7	-	-	-	0.24	-	1.0	SL	60.5	31.1	8.5
95-38	BC	5.4	----				-	18.7	-	-	-	0.34	-	0.4	S	100.0	0.0	0.0
95-39	Of	6.6	----				-	154.0	-	-	-	0.36	-	35.0	-	-	--	
95-39	Oh	6.3	----				-	152.0	-	-	-	0.42	-	33.2	-	-	--	
95-39	Bg	6.3	----				-	42.1	-	-	-	0.43	-	16.1	-	-	--	
95-39	Cg	6.6	----				-	24.9	-	-	-	0.34	-	0.8	L	40.8	37.8	21.4
95-40	Ae	5.7	----				-	21.4	-	-	-	0.30	-	4.8	S	100.0	0.0	0.0
95-40	Bm	5.7	----				-	16.9	-	-	-	0.22	-	0.9	SL	58.0	32.9	9.1
95-40	BC	6.0	----				-	13.1	-	-	-	0.18	-	0.3	SL	57.2	33.7	9.1
95-41	Ah	6.0	----				-	34.8	-	-	-	0.34	-	3.4	L	42.2	39.2	18.6
95-41	Ae	6.3	----				-	19.0	-	-	-	0.30	-	1.2	SL	54.2	32.8	13.0
95-41	Bgj	6.3	----				-	20.9	-	-	-	0.24	-	0.7	SL	54.9	33.0	12.1
95-41	Cgj	6.4	----				-	22.2	-	-	-	0.24	-	0.5	L	51.5	34.3	14.2
95-50	Of	5.9	----				-	168.0	-	-	-	0.57	-	40.0	-	-	--	
95-50	Oh1	5.8	----				-	156.0	-	-	-	0.87	-	42.0	-	-	--	
95-50	Oh2	5.8	----				-	193.0	-	-	-	0.68	-	40.3	-	-	--	
95-51	Ae	5.6	----				-	31.1	-	-	-	0.48	-	2.1	S	100.0	0.0	0.0
95-51	Bm	5.7	----				-	50.4	-	-	-	0.44	-	1.6	SiL	21.2	54.5	24.3
95-51	Bt	5.8	----				-	41.2	-	-	-	0.30	-	1.1	L	40.4	36.8	22.8
95-52	Ae	5.4	----				-	90.0	-	-	-	0.32	-	14.3	S	100.0	0.0	0.0
95-52	Bm1	5.5	----				-	22.8	-	-	-	0.28	-	0.9	L	44.5	44.0	11.5
95-52	Bm2	5.9	----				-	19.3	-	-	-	0.30	-	0.7	L	44.6	42.6	12.8
95-52	Bt	6.0	----				-	17.7	-	-	-	0.28	-	0.7	L	44.6	32.7	22.6
95-53	Of	6.5	----				-	109.0	-	-	-	0.50	-	34.0	-	-	--	
95-53	Ah	6.6	----				-	282.0	-	-	-	0.46	-	24.3	-	-	--	
95-53	Bg	6.6	----				-	221.0	-	-	-	0.40	-	9.3	-	-	--	
95-54	LFH	6.3	----				-	90.0	-	-	-	0.52	-	25.2	-	-	--	
95-54	Ah	6.2	----				-	133.0	-	-	-	0.60	-	31.5	-	-	--	
95-54	Bg	6.2	----				-	25.7	-	-	-	0.54	-	21.5	-	-	--	
95-54	Cg	6.3	----				-	45.0	-	-	-	0.28	-	1.3	L	44.4	39.5	16.1

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95-55	Oh	6.2	-----				-	56.8	-	-	-	0.80	-	11.6	-	-	--	
95-55	Cg1	6.3	-----				-	41.8	-	-	-	0.51	-	5.2	S	100.0	0.0	0.0
95-55	Cg2	6.4	-----				-	27.9	-	-	-	0.40	-	0.5	LS	83.1	9.7	7.2
95-55	Cg3	6.2	-----				-	32.7	-	-	-	0.40	-	2.0	CL	27.4	42.5	30.1
95-56	Oh1	5.8	-----				-	131.0	-	-	-	0.57	-	42.7	-	-	--	
95-56	Oh2	5.7	-----				-	133.0	-	-	-	0.59	-	44.5	-	-	--	
95-56	Oh3	5.8	-----				-	92.1	-	-	-	0.68	-	33.6	S	100.0	0.0	0.0
95-56	Cg	6.0	-----				-	21.4	-	-	-	0.98	-	1.3	SL	53.5	28.4	18.1