



Taseko Prosperity Gold-Copper Project

Appendix 5-4-Q

Appendix 5-4-Q Soil Metal Loading for the Construction Scenario

Date	13-Aug-96	Metal	CCME Standard		Camp Location			Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundary		
					Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	
Plot Number	96-06	Arsenic	T-As	12	0.7	420	1.73	3920.61	0.00	4709000.59	0.02	346177.74	0.08	80528.29	322.98	20.99	161.58	41.96
Soil Horizon	A Horiz.	Barium	T-Ba	750	67	40200	5.85	70097.76	0.00	104025076.51	0.07	6226306.05	0.29	1415101.96	1121.25	365.49	561.29	730.10
Parent Materials	Colluvial veneer over morainal blanket	Boron	T-B	2	10	6000	0.47	-10174.27	0.00	-15098612.86	0.01	-903710.79	0.02	-205393.52	90.48	-53.05	45.30	-105.97
		Cadmium	T-Cd	1.4	2	1200	0.29	-1230.54	0.00	-812970.24	0.00	-113285.63	0.01	-28370.25	47.65	-7.56	23.73	-15.17
		Chromium	T-Cr	64	54	32400	11.42	525.45	0.01	769473.07	0.13	46656.26	0.57	10617.87	2186.79	2.74	1094.66	5.48
		Copper	T-Cu	63	9	5400	237.99	136.14	0.16	201148.62	2.68	12090.99	11.79	2749.20	45622.94	0.71	22838.44	1.42
		Lead	T-Pb	70	3	1800	0.70	57461.31	0.00	21210173.06	0.01	4741503.85	0.03	1486926.24	89.11	451.12	44.07	912.22
		Mercury	T-Hg	6.6	0.008	4.8	0.10	39841.41	0.00	9646796.70	0.00	3132307.71	0.00	1283508.09	8.18	483.51	3.96	997.58
Soil group and Subgroup	Orthic	Molybdenum	T-Mo	5	4	2400	3.99	150.36	0.00	223132.21	0.04	13355.33	0.20	3035.37	765.34	0.78	383.13	1.57
Tentative Identification	Dystric Brunisol	Selenium	T-Se	1	0.1	60	0.31	1731.76	0.00	919088.60	0.00	147132.77	0.01	40218.56	47.86	11.28	23.82	22.67
		Zinc	T-Zn	200	139	83400	3.42	10686.94	0.01	5950678.94	0.04	910867.12	0.15	245500.92	535.21	68.38	266.47	137.35

Date	14-Aug-96	Metal	CME Standard		Camp Location			Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundary		
					Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	
Plot Number	96-10	Arsenic	T-As	12	2.23	1338	1.73	3389.77	0.00	4071410.24	0.02	299305.88	0.08	69624.90	322.98	18.15	161.58	36.28
Soil Horizon	Ah	Barium	T-Ba	750	63	37800	5.85	70508.29	0.00	104634300.97	0.07	6262770.50	0.29	1423389.53	1121.25	367.63	561.29	734.38
Parent Materials	Morainal plain, rolling to hummocky	Boron	T-B	2	10	6000	0.47	-10174.27	0.00	-15098612.86	0.01	-903710.79	0.02	-205393.52	90.48	-53.05	45.30	-105.97
		Cadmium	T-Cd	1.4	2	1200	0.29	-1230.54	0.00	-812970.24	0.00	-113285.63	0.01	-28370.25	47.65	-7.56	23.73	-15.17
		Chromium	T-Cr	64	23	13800	11.42	2154.34	0.01	3154839.59	0.13	191290.68	0.57	43533.26	2186.79	11.25	1094.66	22.47
		Copper	T-Cu	63	32	19200	237.99	78.15	0.16	115474.21	2.68	6941.12	11.79	1578.24	45622.94	0.41	22838.44	0.81
		Lead	T-Pb	70	5	3000	0.70	55746.04	0.00	20577033.57	0.01	4599966.43	0.03	1442540.38	89.11	437.66	44.07	884.99
		Mercury	T-Hg	6.6	0.014	8.4	0.10	39805.14	0.00	9638016.25	0.00	3129456.71	0.00	1282339.85	8.18	483.07	3.96	996.67
Soil group and Subgroup	Orthic	Molybdenum	T-Mo	5	4	2400	3.99	150.36	0.00	223132.21	0.04	13355.33	0.20	3035.37	765.34	0.78	383.13	1.57
Tentative Identification	Eutric Brunisol	Selenium	T-Se	1	0.1	60	0.31	1731.76	0.00	919088.60	0.00	147132.77	0.01	40218.56	47.86	11.28	23.82	22.67
		Zinc	T-Zn	200	96	57600	3.42	18220.35	0.01	10145419.84	0.04	1552953.78	0.15	418558.95	535.21	116.59	266.47	234.17

Date	14-Aug-96	Metal	CME Standard		Camp Location			Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundary		
					Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	
Plot Number	96-13	Arsenic	T-As	12	99.9	49950	1.73	-25414.58	0.00	-30525158.67	0.02	-2244028.24	0.08	-522008.60	322.98	-136.07	161.58	-272.00
Soil Horizon	Oh	Barium	T-Ba	750	249	124500	5.85	42848.93	0.00	63587802.99	0.07	3805977.71	0.29	865014.74	1121.25	223.41	561.29	446.29
Parent Materials	Organic blanket over fluvial terrace	Boron	T-B	2	10	5000	0.47	-8478.56	0.00	-12582177.38	0.01	-753092.33	0.02	-171161.27	90.48	-44.21	45.30	-88.31
		Cadmium	T-Cd	1.4	2	1000	0.29	-1025.45	0.00	-677475.20	0.00	-94404.69	0.01	-23641.87	47.65	-6.30	23.73	-12.64
		Chromium	T-Cr	64	63	31500	11.42	43.79	0.01	64122.76	0.13	3888.02	0.57	884.82	2186.79	0.23	1094.66	0.46
		Copper	T-Cu	63	68	34000	237.99	-10.50	0.16	-15520.73	2.68	-932.95	11.79	-212.13	45622.94	-0.05	22838.44	-0.11
		Lead	T-Pb	70	4	2000	0.70	47169.73	0.00	17411336.10	0.01	3892279.28	0.03	1220611.09	89.11	370.33	44.07	748.84
		Mercury	T-Hg	6.6	0.095	47.5	0.10	32762.99	0.00	7932900.05	0.00	2575806.75	0.00	1055473.82	8.18	397.61	3.96	820.35
Soil group and Subgroup	Terric	Molybdenum	T-Mo	5	4	2000	3.99	125.30	0.00	185943.51	0.04	11129.44	0.20	2529.48	765.34	0.65	383.13	1.31
Tentative Identification	Mesisol	Selenium	T-Se	1	1.2	600	0.31	-320.70	0.00	-170201.59	0.00	-27246.81	0.01	-7447.88	47.86	-2.09	23.82	-4.20
		Zinc	T-Zn	200	63	31500	3.42	20001.51	0.01	11137199.66	0.04	1704764.96	0.15	459475.77	535.21	127.99	266.47	257.07

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					Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	
Plot Number	95-14	Arsenic	T-As	12	5.96	2980	1.73	1746.35	0.00	2097519.44	0.02	154197.16	0.08	35869.53	322.98	9.35	161.58	18.69
Soil Horizon	Oh1	Barium	T-Ba	750	50	25000	5.85	59868.76	0.00	88845233.72	0.07	5317733.32	0.29	1208603.43	1121.25	312.15	561.29	623.56
Parent Materials	Organic, Sedge- Willow Fen	Boron	T-B	2	28	14000	0.47	-27555.31	0.00	-40892076.50	0.01	-2447550.07	0.02	-556274.12	90.48	-143.67	45.30	-287.00
		Cadmium	T-Cd	1.4	2	1000	0.29	-1025.45	0.00	-677475.20	0.00	-94404.69	0.01	-23641.87	47.65	-6.30	23.73	-12.64
		Chromium	T-Cr	64	2	1000	11.42	2714.82	0.01	3975610.87	0.13	241057.36	0.57	54858.98	2186.79	14.18	1094.66	28.32
		Copper	T-Cu	63	15	7500	237.99	100.84	0.16	148998.98	2.68	8956.29	11.79	2036.44	45622.94	0.53	22838.44	1.05
		Lead	T-Pb	70	2	1000	0.70	48599.11	0.00	17938952.34	0.01	4010227.14	0.03	1257599.31	89.11	381.55	44.07	771.53
		Mercury	T-Hg	6.6	0.086	43	0.10	32808.32	0.00	7943875.62	0.00	2579370.51	0.00	1056934.12	8.18	398.16	3.96	821.48
Soil group and Subgroup	Typic Humisol	Molybdenum	T-Mo	5	4	2000	3.99	125.30	0.00	185943.51	0.04	11129.44	0.20	2529.48	765.34	0.65	383.13	1.31
Tentative Identification		Selenium	T-Se	1	0.3	150	0.31	1122.44	0.00	595705.57	0.00	95363.83	0.01	26067.58	47.86	7.31	23.82	14.70
		Zinc	T-Zn	200	45	22500	3.42	22629.44	0.01	12600481.37	0.04	1928748.68	0.15	519844.85	535.21	144.80	266.47	290.84

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					Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	
Plot Number	95-22	Arsenic	T-As	12	2.78	1668	1.73	3198.94	0.00	3842211.10	0.02	282456.52	0.08	65705.38	322.98	17.13	161.58	34.24
Soil Horizon	Aef	Barium	T-Ba	750	57	34200	5.85	71124.09	0.00	105548137.66	0.07	6317467.19	0.29	1435820.88	1121.25	370.84	561.29	740.79
Parent Materials	Thick Till blanket, 2-layered	Boron	T-B	2	10	6000	0.47	-10174.27	0.00	-15098612.86	0.01	-903710.79	0.02	-205393.52	90.48	-53.05	45.30	-105.97
		Cadmium	T-Cd	1.4	2	1200	0.29	-1230.54	0.00	-812970.24	0.00	-113285.63	0.01	-28370.25	47.65	-7.56	23.73	-15.17
		Chromium	T-Cr	64	33	19800	11.42	1628.89	0.01	2385366.52	0.13	144634.41	0.57	32915.39	2186.79	8.51	1094.66	16.99
		Copper	T-Cu	63	21	12600	237.99	105.89	0.16	156448.93	2.68	9404.10	11.79	2138.27	45622.94	0.55	22838.44	1.10
		Lead	T-Pb	70	3	1800	0.70	57461.31	0.00	21210173.06	0.01	4741503.85	0.03	1486926.24	89.11	451.12	44.07	912.22
		Mercury	T-Hg	6.6	0.008	4												

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				Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit
Plot Number	950824	Arsenic T-As	12	0.12	72	1.73	4121.85	0.00	4950701.50	0.02	363946.15	0.08	84661.60	322.98	22.07	161.58	44.11
Soil Horizon		Barium T-Ba	750	39	23400	5.85	72971.46	0.00	108289647.73	0.07	6481557.25	0.29	1473114.93	1121.25	380.47	561.29	760.03
Parent Materials	95-26	Boron T-B	2	10	6000	0.47	-10174.27	0.00	-15098612.86	0.01	-903710.79	0.02	-205393.52	90.48	-53.05	45.30	-105.97
	AC	Cadmium T-Cd	1.4	2	1200	0.29	-1230.54	0.00	-812970.24	0.00	-113285.63	0.01	-28370.25	47.65	-7.56	23.73	-15.17
	Residual, lava plain	Chromium T-Cr	64	72	43200	11.42	-420.36	0.01	-615578.46	0.13	-37325.01	0.57	-8494.29	2186.79	-2.19	1094.66	-4.38
	very shallow	Copper T-Cu	63	45	27000	237.99	45.38	0.16	67049.54	2.68	4030.33	11.79	916.40	45622.94	0.24	22838.44	0.47
	soil	Lead T-Pb	70	2	1200	0.70	58318.94	0.00	21526742.81	0.01	4812272.57	0.03	1509119.17	89.11	457.86	44.07	925.84
Soil group and Subgroup		Mercury T-Hg	6.6	0.006	3.6	0.10	39853.50	0.00	9649723.52	0.00	3133258.05	0.00	1283897.50	8.18	483.65	3.96	997.88
Tentative Identification		Molybdenum T-Mo	5	4	2400	3.99	150.36	0.00	223132.21	0.04	13355.33	0.20	3035.37	765.34	0.78	383.13	1.57
	Lithic	Selenium T-Se	1	0.1	60	0.31	1731.76	0.00	919088.60	0.00	147132.77	0.01	40218.56	47.86	11.28	23.82	22.67
	Regosol	Zinc T-Zn	200	90	54000	3.42	19271.52	0.01	10730732.52	0.04	1642547.26	0.15	442706.58	535.21	123.32	266.47	247.68

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				Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit
Plot Number	95-30	Arsenic T-As	12	1.21	726	1.73	3743.66	0.00	4496470.47	0.02	330553.78	0.08	76893.83	322.98	20.04	161.58	40.07
Soil Horizon	Ah	Barium T-Ba	750	56	33600	5.85	71226.72	0.00	105700443.77	0.07	6326583.30	0.29	1437892.77	1121.25	371.37	561.29	741.86
Parent Materials	Organic veneer	Boron T-B	2	12	7200	0.47	-12717.83	0.00	-18873266.08	0.01	-1129638.49	0.02	-256741.90	90.48	-66.31	45.30	-132.46
	over fluvial	Cadmium T-Cd	1.4	2	1200	0.29	-1230.54	0.00	-812970.24	0.00	-113285.63	0.01	-28370.25	47.65	-7.56	23.73	-15.17
	terrace	Chromium T-Cr	64	38	22800	11.42	1366.17	0.01	2000629.98	0.13	121306.28	0.57	27606.46	2186.79	7.13	1094.66	14.25
		Copper T-Cu	63	30	18000	237.99	83.20	0.16	122924.16	2.68	7388.94	11.79	1680.07	45622.94	0.43	22838.44	0.87
		Lead T-Pb	70	3	1800	0.70	57461.31	0.00	21210173.06	0.01	4741503.85	0.03	1486926.24	89.11	451.12	44.07	912.22
Soil group and Subgroup	Orthic	Mercury T-Hg	6.6	0.07	42	0.10	39466.69	0.00	9556065.30	0.00	3102847.30	0.00	1271436.26	8.18	478.96	3.96	988.20
Tentative Identification	Humic	Molybdenum T-Mo	5	4	2400	3.99	150.36	0.00	223132.21	0.04	13355.33	0.20	3035.37	765.34	0.78	383.13	1.57
	Gleysol	Selenium T-Se	1	0.3	180	0.31	1346.92	0.00	714846.69	0.00	114436.60	0.01	31281.10	47.86	8.78	23.82	17.64
		Zinc T-Zn	200	68	40800	3.42	23125.83	0.01	12876879.03	0.04	1971056.72	0.15	531247.90	535.21	147.98	266.47	297.22

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				Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit
Plot Number	95-52	Arsenic T-As	12	0.8	480	1.73	3885.92	0.00	4667328.01	0.02	343114.22	0.08	1104.22	322.98	20.81	161.58	41.59
Soil Horizon	Ae	Barium T-Ba	750	113	67800	5.85	65376.68	0.00	97018995.22	0.07	5806964.79	0.29	8718719.31	1121.25	340.87	561.29	680.93
Parent Materials	Eolian over till blanket	Boron T-B	2	10	6000	0.47	-10174.27	0.00	-15098612.86	0.01	-903710.79	0.02	-9690.02	90.48	-53.05	45.30	-105.97
	"benchy" moraine	Cadmium T-Cd	1.4	2	1200	0.29	-1230.54	0.00	-812970.24	0.00	-113285.63	0.01	-166.00	47.65	-7.56	23.73	-15.17
		Chromium T-Cr	64	33	19800	11.42	1628.89	0.01	2385366.52	0.13	144634.41	0.57	124031.95	2186.79	8.51	1094.66	16.99
		Copper T-Cu	63	10	6000	237.99	133.62	0.16	197423.65	2.68	11867.08	11.79	64216.90	45622.94	0.70	22838.44	1.39
		Lead T-Pb	70	4	2400	0.70	56603.67	0.00	20893603.32	0.01	4670735.14	0.03	40989.17	89.11	444.39	44.07	898.61
Soil group and Subgroup	Orthic	Mercury T-Hg	6.6	0.053	31.8	0.10	39569.43	0.00	9580943.27	0.00	3110925.15	0.00	67.07	8.18	480.21	3.96	990.77
Tentative Identification	Gray	Molybdenum T-Mo	5	4	2400	3.99	150.36	0.00	223132.21	0.04	13355.33	0.20	484.50	765.34	0.78	383.13	1.57
	Luvisol	Selenium T-Se	1	0.1	60	0.31	1731.76	0.00	919088.60	0.00	147132.77	0.01	12.54	47.86	11.28	23.82	22.67
		Zinc T-Zn	200	105	63000	3.42	16643.59	0.01	9267450.81	0.04	1418563.55	0.15	1374877.77	535.21	106.50	266.47	213.91