

**APPENDIX 8-D  
TERRAIN, SURFICIAL GEOLOGY, AND SOILS  
SCOPING TABLE**

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**Appendix 8-D. Terrain, Surficial Geology, and Soils Scoping Table**

Project Region	Project Area	ID #	Project Component	Phase				Reclamation (Y/partial/N)	Closure Objective	Residual Loss of Soil Quantity	Residual Degradation of Soil Quality
				Construction	Operation	Closure	Post-Closure				
Mine Site	Camp 3: Eskay Staging Camp	1	Camp 3 incinerator	X	R			Y	forest		x
		2	Camp 3 helipad	X	R			Y	forest		x
		3	Camp 3 equipment and material storage yard	X	R			Y	forest		x
		4	Camp 3: Eskay Staging Camp	X	R			Y	forest		x
		5	Camp 3 septic field	X	R			Y	forest		x
	Camp 7: Unuk North Camp	6	Camp 7 equipment and material storage yard	X	R			Y	forest		x
		7	Camp 7: Unuk North Camp	X	R			Y	forest		x
		8	Camp 7 helipads	X	R			Y	forest		x
		9	Camp 7 incinerator	X	R			Y	forest		x
	Camp 8: Unuk South Camp	10	Camp 7 septic field	X	R			Y	forest		x
		11	Camp 8 helipad	X	R			Y	forest		x
		12	Camp 8 equipment and material storage yard	X	R			Y	forest		x
		13	Camp 8 incinerator	X	R			Y	forest		x
		14	Camp 8: Unuk South Camp	X	R			Y	forest		x
		15	Camp 8 septic field	X	R			Y	forest		x
	Coulter Creek Access Corridor (CCAC)	16	Coulter Creek access road	X	X	X	R	Y	forest		x
		17	CCAC borrow areas	X	PR			partial	forest	x	x
		18	CCAC waste areas	X	R			Y	forest		x
		19	CCAC log landings	X	R			Y	forest		x
		20	creek crossing C012	X	X	X	R	Y	forest/riparian		x
		21	creek crossing C043	X	X	X	R	Y	forest/riparian		x
		22	creek crossing C044	X	X	X	R	Y	forest/riparian		x
		23	Coulter Creek bridge (C006)	X	X	X	R	Y	forest/riparian		x
		24	creek crossing C024	X	X	X	R	Y	forest/riparian		x
		25	creek crossing C021	X	X	X	R	Y	forest/riparian		x
		26	Unuk River bridge (C010) (88 m) (three-span bridge)	X	X	X	R	Y	forest/riparian		x
		27	creek crossing C042	X	X	X	R	Y	forest/riparian		x
		28	avalanche control structures (km 26-29)	X	X	X	D	N	NA	x	x
		29	Gingras Creek bridge (C011)	X	X	X	R	Y	forest		x
	30	Mitchell Creek bridge (C007) (33.5 m)	X	X	X	X	N	NA	x	x	
	Mitchell Operating Camp	31	Mitchell operating camp	X	X	PR	X	partial	forest	x	x
		32	Mitchell operating camp helipad	X	X	X	X	N	NA	x	x
		33	Mitchell operating camp incinerator	X	X	X	X	N	NA	x	x
		34	Mitchell operating camp septic field	X	X	X	X	N	NA	x	x
	McTagg Rock Storage Facility (RSF)	35	McTagg access road	X	D			-	NA	x	x
		36	McTagg Creek bridge	X	D			-	NA	x	x
		37	McTagg RSF snow storage		X	D		-	NA	x	x
		38	McTagg RSF		X	PR		partial	forest	x	x
		39	West McTagg operation channel - North		X			-	NA	x	x
		40	West McTagg operation channel - South		X			-	NA	x	x
		41	West McTagg closure channel			X	X	N	NA	x	x
		42	West McTagg access road		X	X	X	N	NA	x	x
		43	East McTagg closure channel and access road			X	X	N	NA	x	x
		44	North McTagg Diversion Channel		X	X	X	N	NA	x	x
	McTagg Twinned Diversion Tunnels (MTDT)	45	McTagg Diversion access road	X	X	X	X	N	NA	x	x
		46	McTagg phase 3 flood outlet		X	X	X	N	NA	x	x
		47	McTagg phase 2 flood outlet		X/R			Y	forest		x
		48	McTagg phase 1 flood outlet	X	R			Y	forest		x
		49	Temporary Water Treatment (TWT) 2	X/R				Y	forest		x
		50	TWT 2 - sediment control pond	X/R				Y	forest		x
		51	TWT 2 - unlined muck pad	X/R				Y	forest		x
		52	TWT 2 - diversion ditch	X/R				Y	forest		x
		53	McTagg Twinned Diversion Tunnels	X	X	X	X	N	NA	x	x
		54	Phase 3 West McTagg inlet		X	X	X	N	NA	x	x
		55	Phase 3 West McTagg dam		X	X	X	N	NA	x	x
		56	Phase 3 West McTagg dam spillway		X	X	X	N	NA	x	x
		57	Phase 3 East McTagg inlet		X	X	X	N	NA	x	x
		58	Phase 3 East McTagg dam		X	X	X	N	NA	x	x
		59	Phase 3 East McTagg dam spillway		X	X	X	N	NA	x	x
		60	Phase 2 McTagg inlet		X/D			-	NA	x	x
		61	Phase 2 McTagg dam		X/D			-	NA	x	x
		62	Phase 2 McTagg dam spillway		X/D			-	NA	x	x
	McTagg Power Plant	63	Phase 1 McTagg dam	X	D			-	NA	x	x
		64	Phase 1 McTagg inlet	X	D			-	NA	x	x
		65	Phase 1 McTagg dam spillway	X	D			-	NA	x	x
		66	McTagg penstock tunnel		X	X	X	N	NA	x	x
		67	McTagg penstock		X	X	X	N	NA	x	x
		68	McTagg power plant		X	X	X	N	NA	x	x
	Mitchell Rock Storage Facility (RSF)	69	North Slope pipeline	X	D			-	NA	x	x
		70	North Slope pipeline access road	X	D			-	NA	x	x
		71	North Slope diversion ditch		X	D		-	NA	x	x
		72	North Slope collection ditch		X	X	X	N	NA	x	x
		73	North Slope diversion buried pipeline	X	X	D		-	NA	x	x
		74	North Slope diversion ditch access road	X	X			-	NA	x	x
		75	Mitchell North closure channel			X	X	N	NA	x	x
		76	Upper Mitchell Creek bridge	X	D			-	NA	x	x
		77	Mitchell RSF landbridge		X/D			-	NA	x	x
		78	Temporary Water Treatment (TWT) 6	X/D				-	NA	x	x
		79	TWT 6 - sediment control pond	X/D				-	NA	x	x
		80	TWT 6 - lined muck pad	X/D				-	NA	x	x
		81	TWT 6 - water treatment plant	X/D				-	NA	x	x
		82	TWT 6 - lined pond	X/D				-	NA	x	x
		83	TWT 6 - diversion ditch	X/D				-	NA	x	x
		84	TWT 6 - unlined muck pad	X/D				-	NA	x	x
		85	TWT 6 - buried pipeline	X/D				-	NA	x	x
		86	Mitchell RSF pre-production ore stockpile	X				-	NA	x	x
		87	Mitchell RSF ore stockpile		X/PR			partial	forest	x	x
		88	Mitchell Batch Plant	X	D			-	NA	x	x
		89	Mitchell Batch Plant gravel stockpile	X	D			-	NA	x	x
		90	Mitchell RSF snow storage	X	D			-	NA	x	x
		91	Mitchell RSF fuel storage	X	X	X	X	N	NA	x	x
		92	Sulphurets waste conveyor 3		X	D		-	NA	x	x
		93	Sulphurets waste conveyor 2		X	D		-	NA	x	x
		94	Sulphurets waste conveyor 1		X	D		-	NA	x	x
		95	Sulphurets waste stockpile		X	D		-	NA	x	x
		96	Mitchell RSF	X	X	PR		partial	forest	x	x
		97	South Mitchell closure channel and access road			X	X	N	NA	x	x
		98	Mitchell Valley Drainage Tunnel		X	X/D		N	NA	x	x

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				Construction	Operation	Closure	Post-Closure				
Mine Site	Camp 4: Mitchell North Camp (for MTT construction)	99	Camp 4: Mitchell North Camp	X/D				-	NA	x	x
		100	Camp 4 helipad	X/D				-	NA	x	x
		101	Camp 4 incinerator	X/D				-	NA	x	x
		102	Camp 4 equipment and material storage yard	X/D				-	NA	x	x
		103	Camp 4 septic field	X/D				-	NA	x	x
	Mitchell Ore Preparation Complex (Mitchell OPC)	104	Mitchell OPC	X	X	PR		Y	grass	x	x
		105	MTT west portal	X	X			-	NA	x	x
		106	MTT closure portal			X	X	N	NA	x	x
		107	substation 2	X	X			-	NA	x	x
		108	Closure substation			X	X	N	NA	x	x
		109	25 kV transmission lines	X	X	X	X	N	NA	x	x
		110	Mitchell OPC ore stockpile	X	X	R		Y	grass		x
		111	TWT 4 - sediment control pond	X/D				-	NA	x	x
		112	Mitchell OPC Primary Crusher	X	X	D		-	NA	x	x
		113	Mitchell OPC snow storage		X	R		Y	grass		x
	Mine Site Avalanche Control	114	fixed avalanche initiation exploders	X	X	X	X	N	NA	x	x
		115	fixed avalanche support structure	X	X	X	X	N	NA	x	x
		116	fixed avalanche support structure access road	X	X	X	X	N	NA	x	x
	Iron Cap Block Cave Mine	117	Iron Cap Underground Works		X	D		N	NA	x	x
118		Iron Cap underground access ramp		X	D		N	NA	x	x	
119		Iron Cap conveyor 3		X	D		N	NA	x	x	
120		Iron Cap conveyor 2		X	D		N	NA	x	x	
121		Iron Cap conveyor 1		X	D		N	NA	x	x	
122		Iron Cap surface disturbance		X	X	X	N	NA	x	x	
123		Iron Cap return air portal		X	X	X	N	NA	x	x	
124		Iron Cap ventilation tunnels		X	D		N	NA	x	x	
125		Iron Cap fresh air portals (x2)		X	D		N	NA	x	x	
Mitchell Pit		126	Mitchell Pit north wall dewatering adits		X	D		N	NA	x	x
	127	Mitchell Pit haul road		X	R		N	grass		x	
	128	Mitchell Pit closure dam			X	X	N	NA	x	x	
	129	Mitchell Pit closure dam spillway			X	X	N	NA	x	x	
	130	Mitchell Pit Lake discharge pipe			X	X	N	NA	x	x	
	131	Mitchell Pit pre-production ore stockpile	X				-	NA	x	x	
	132	Mitchell Pit	X	X	D		N	pit lake	x	x	
	133	Mitchell Pit Lake			X	X	N	NA	x	x	
	134	Mitchell Pit North diversion ditch		X	X/D		N	NA	x	x	
	135	Mitchell Pit East diversion ditch		X	X/D		N	NA	x	x	
Mitchell Block Cave Mine	136	Mitchell Pit South diversion ditch		X	X/D		N	NA	x	x	
	137	Mitchell Underground Works		X	D		N	NA	x	x	
	138	Mitchell surface disturbance		X	X	X	N	NA	x	x	
	139	Mitchell underground access portal		X	D		N	NA	x	x	
	140	Mitchell underground access ramp		X	D		N	NA	x	x	
	141	Mitchell underground conveyor tunnel portal		X	D		N	NA	x	x	
	142	Mitchell underground conveyor		X	D		N	NA	x	x	
	143	Mitchell underground fresh air raises (x2)		X	D		N	NA	x	x	
	144	Mitchell underground return air raises (x2)		X	D		N	NA	x	x	
	145	Mitchell underground drainage tunnels		X	D		N	NA	x	x	
Mitchell Diversion Tunnels (MDT)	146	Mitchell diversion contact water ditch	X				-	NA	x	x	
	147	North Mitchell Glacier collection ditch	X	X	X	X	N	NA	x	x	
	148	North Mitchell Glacier collection ditch access road	X				-	NA	x	x	
	149	North Mitchell Glacier access road	X	X	X	X	N	NA	x	x	
	150	Mitchell diversion phase1 surface inlet	X	X			-	NA	x	x	
	151	Mitchell Diversion Tunnel access	X	X	X	X	N	NA	x	x	
	152	Mitchell diversion phase 2 surface inlet		X	D		N	NA	x	x	
	153	South Mitchell Glacier slope contact water collection ditch		X	X	X	N	NA	x	x	
	154	Mitchell flood overflow drainage tunnel	X	X	X	X	N	NA	x	x	
	155	Mitchell Diversion access road	X				-	NA	x	x	
	156	open pit phase sub-glacial inlet	X	X	X	X	N	NA	x	x	
	157	underground phase sub-glacial inlet		X	X	X	N	NA	x	x	
	158	Temporary Water Treatment 5	X/D				-	NA	x	x	
	159	TWT 5 - lined muck pad	X/D				-	NA	x	x	
	160	TWT 5 - unlined muck pad	X/D				-	NA	x	x	
	161	TWT 5 - sediment control pond	X/D				-	NA	x	x	
	162	TWT 5 - diversion ditch	X/D				-	NA	x	x	
	163	Open Pit Phase Mitchell Diversion Tunnel	X	X	X	X	N	NA	x	x	
	164	Underground Phase Mitchell Diversion Tunnel		X	X	X	N	NA	x	x	
	165	Temporary Water Treatment 3	X/R				Y	forest		x	
166	TWT 3 - unlined muck pad	X/R				Y	forest		x		
167	TWT 3 - lined muck pad	X/R				Y	forest		x		
168	TWT 3 - water treatment facility	X/R				Y	forest		x		
169	TWT 3 - sediment control pond	X/R				Y	forest		x		
170	TWT 3 - diversion ditch	X/R				Y	forest		x		
171	MDT temporary diversion construction road	X	R			Y	forest		x		
172	rock cut stepped spillway	X	X	X	X	N	NA	x	x		
173	underground phase outlet portal		X	X	X	N	NA	x	x		
174	Mitchell Diversion outlet access road	X	X	X	X	N	NA	x	x		
Upper Sulphurets Power Plant	175	surface penstock on pillars	X	X	X	X	N	NA	x	x	
	176	penstock buried in road bed	X	X	X	X	N	NA	x	x	
	177	Upper Sulphurets Power Plant access road	X	X	X	X	N	NA	x	x	
	178	Upper Sulphurets Power Plant	X	X	X	X	N	NA	x	x	
Mitchell Truck Shop	179	Mitchell Truck Shop	X	X	R		Y	forest		x	
	Water Storage Facility (WSF)	180	WSF bypass buried pipeline	X	X	X	X	N	NA	x	x
		181	WSF snow storage		X	D		N	NA	x	x
		182	WSF borrow pits	X				-	NA	x	x
		183	water storage pond	X	X	X	X	N	NA	x	x
		184	buried HDPE lined penstock	X	X	X	X	N	NA	x	x
		185	lined pumping header pond	X	X	X	X	N	NA	x	x
		186	downstream rockfill quarry area	X	X	R		Y	forest		x
		187	Selenium Treatment Plant		X	X	X	N	NA	x	x
		188	WSF diversion tunnel	X	X	X	X	N	NA	x	x
		189	Temporary Water Treatment 7	X/R				N	NA		x
		190	WSF construction access road	X/D				-	NA	x	x
		191	WSF construction cofferdams	X/D				-	NA	x	x
		192	Water Storage dam (WSD)	X	PR	X	X	Y	forest	x	x
		193	WSD west lower seepage interception tunnel	X	X	X	X	N	NA	x	x
		194	WSD west upper seepage interception tunnel	X	X	X	X	N	NA	x	x
		195	WSD east lower seepage interception tunnel	X	X	X	X	N	NA	x	x

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				Construction	Operation	Closure	Post-Closure						
Processing and Tailing Management Area (PTMA)	Centre Cell Tailing Management Facility	386	Centre Cell borrow area	X/D				-	NA	x	x		
		387	Splitter starter dam	X				-	NA	x	x		
		388	Splitter dam construction pipeline and cofferdam	X/D				-	NA	x	x		
		389	Splitter dam	X	X	PR	R	Y	forest		x		
		390	CIL Lined Pond		X	X	R	Y	pond/wetland		x		
		391	reclaim barges (x2)		X	X	D	-	NA	x	x		
		392	Saddle starter dam	X				-	NA	x	x		
		393	Saddle dam construction diversion	X/D				-	NA	x	x		
		394	Saddle dam construction southern diversion	X/D				-	NA	x	x		
		395	Saddle dam construction diversion access road	X/D				-	NA	x	x		
		396	Saddle seepage dam construction access road	X/D				-	NA	x	x		
		397	Saddle dam	X	X	PR	R	Y	forest		x		
		398	Saddle seepage collection pond	X	X/D			-	NA	x	x		
		399	Saddle seepage collection dam spillway	X	X/D			-	NA	x	x		
		400	Saddle seepage collection dam	X	X/D			-	NA	x	x		
		401	Saddle dam collection ditch	X/D				-	NA	x	x		
		402	TWT 14 - sediment control pond	X/D				-	NA	x	x		
		403	TWT 14 - pipeline	X/D				-	NA	x	x		
		404	Saddle seepage reclaim pipeline	X	X/D			-	NA	x	x		
		405	post-closure pond				X/PR	Y	pond/wetland	x	x		
		406	post-closure gravel beach cover				X/R	Y	wetland		x		
		407	post-closure cell				R	Y	forest		x		
		South Cell Tailing Management Facility	South Cell Tailing Management Facility	408	Southeast service road	X	X	X	R	Y	forest		x
				409	Southeast diversion ditch	X	X	X	R	Y	forest		x
				410	South Cell quarry sediment fence		X/D			-	NA	x	x
				411	South Cell quarry		X/D			-	NA	x	x
				412	South Cell quarry construction berm		X/D			-	NA	x	x
				413	North Treaty lower road	X	X/D			-	NA	x	x
	414			South Cell		X	PR	R	Y	forest		x	
	415			South Cell pond		X			-	NA	x	x	
	416			South Cell closure pond				X/PR	Y	pond/wetland	x	x	
	417			gravel beach cover			X	R	Y	wetland		x	
	418			reclaim barge		X	X	D	-	NA	x	x	
	419			southeast dam		X/PR	X	R	Y	grass/shrub		x	
	420			southeast starter dam		X			-	NA	x	x	
	421			southeast dam diversion ditch		X	X	X	N	NA	x	x	
	422			South Cell seepage reclaim pipeline		X	X	X	N	NA	x	x	
	423			South Cell borrow area		X/R			Y	grass/shrub		x	
	424			TWT 15 - sediment control structure		X/R			Y	grass/shrub		x	
	425			TWT 15 - pipeline		X/R			Y	grass/shrub		x	
	426			Treaty Creek closure spillway			X	X	N	NA	x	x	
	427			southeast seepage collection dam		X	PR	X	partial	forest	x	x	
	428			southeast seepage collection pond		X	X	X	N	pond/wetland	x	x	
	429			southeast seepage collection dam spillway		X	X	X	N	NA	x	x	
	430			southeast seepage collection dam construction access road		X	X	X	N	NA	x	x	
	431			South Cell soil storage area		X	R		Y	forest		x	
	Treaty Creek Access Corridor			Treaty Creek Access Corridor	432	North Treaty upper road	X	X	X	X	N	NA	x
433					Treaty Creek Transmission Line	X	X	X	X	N	NA	x	x
434					southwest diversion ditch	X	X	X	PR	partial	forest	x	x
435					TCAR channel armouring and diversion dams	X	PR	X	X	partial	grass	x	x
436					southwest diversion access road	X	X	X	X	N	NA	x	x
437		Treaty Creek access road (TCAR)	X		X	X	X	N	NA	x	x		
438		TCAR borrow areas	X		R			Y	forest		x		
439		TCAR waste areas	X		R			Y	forest		x		
440		TCAR log landings	X		R			Y	forest		x		
441		creek crossing R053	X		X	X	X	N	NA	x	x		
442		creek crossing R049	X		X	X	X	N	NA	x	x		
443		creek crossing R047	X		X	X	X	N	NA	x	x		
444		North Treaty Creek bridge (R045)	X		X	X	X	N	NA	x	x		
445		creek crossing R037	X		X	X	X	N	NA	x	x		
446		creek crossing R038	X		X	X	X	N	NA	x	x		
447		creek crossing R036	X		X	X	X	N	NA	x	x		
448		creek crossing R035	X		X	X	X	N	NA	x	x		
449		creek crossing R034	X		X	X	X	N	NA	x	x		
450		Bell-Irving River bridge (R033)	X		X	X	X	N	NA	x	x		
Camp 11: Treaty Marshalling Yard Camp		Camp 11: Treaty Marshalling Yard Camp	451		Camp 11: Treaty Marshalling Yard Camp	X	R			Y	forest		x
	452		Camp 11 Treaty marshalling yard	X	R			Y	forest		x		
	453		Camp 11 incinerator	X	R			Y	forest		x		
Camp 12: Highway 37 Construction Camp	Camp 12: Highway 37 Construction Camp	454	Camp 12: Highway 37 Construction Camp	X/R				Y	forest		x		
		455	Camp 12 incinerator	X/R				Y	forest		x		
Off-site Transportation	Highway 37 and 37A	456	Highway 37	X	X	X	X	N	NA	x	x		
		457	Highway 37A	X	X			N	NA	x	x		

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