Victoria Gold Corporation
Eagle Gold Project
Phase 1 Heap Leach Facility Quantities Estimate

SUMMARY FORM

WBS No.	Description	Units	Quantity	Description
1.0 – General Items				
1.1	Mobilization	LOT	1	
1.2	Construction Staking and Layout	LOT	1	
1.3	Construction Stormwater Control	LOT	1	
1.4	Demobilization	LOT	1	
2.0 – DUBLIN GULCH DIVERSION CHANNEL				
2.1 - Upper Section Velocity Reduction Pond / Embankment				
2.1.1	Clearing and Grubbing	ha	2.5	
2.1.2	Topsoil Stripping	m^3	7,500	300mm thickness
2.1.3	Place Fill	m^3	120,000	
2.1.4	Place Silt Liner	m^3	7,500	300mm thickness
2.1.5	Upstream Face Bedding Layer Placement	m^3	2,500	300mm thickkness; fine grained soil with a target permeability of 1x10-5 cm/s.
2.1.6	Upstream Face Liner (1.5mm LLDPE)	m^2	7,000	
2.2 - Upper Dublin Gulch Diversion Channel				
2.2.1	Clearing and Grubbing	ha	3.0	
2.2.2	Topsoil Stripping	m^3	8,800	300mm thickness
2.2.3	Excavate Permafrost	m^3	3,500	200mm thickness and permafrost extents estimated from reference [1]
2.2.4	Excavate Colluvium	m^3	12,600	500mm thickness
2.2.5	Cut Diversion Channel	m^3	106,000	cut weathered rock - "Type 3" rock as defined in reference [1]
2.2.6	Place Fill	m^3	2,400	compacted fill material with a maximum particle size of 50mm compacted to 95% of proctor density and +/- 2% optimum moisture
2.2.7	Place Channel Erosion Protection - Turf Reinforcement	m^2	9,800	Pyramat by Propex Geosynthetics
2.3 - Energy Dissipation Structure				
2.3.1	Clearing and Grubbing	ha	2.8	
2.3.2	Topsoil Stripping	m^3	8,400	300mm thickness
2.3.3	Excavate Colluvium	m^3	14,050	500mm thickness
2.3.4	Cut Dissipation Structure	m^3	178,000	cut weathered rock - "Type 3" rock as defined in reference [1]
2.3.5	Place Fill	m^3	40	compacted fill material with a maximum particle size of 50mm compacted to 95% of proctor density and +/- 2%
2.3.6	Place Channel Erosion Protection - Turf Reinforcement	m^2	3,552	Pyramat by Propex Geosynthetics
2.3.7	Place Geotextile	m^2	8,000	Separation meduim between transition layer and existing ground
2.3.8	Place Transition Layer	m^3	800	100mm thickness of 50mm angular crushed stone drainage medium
2.3.9	Place Channel Drop/Pool Erosion Protection	m^2	8,000	Articulated Concrete Block (Product 70T) by Contech - Armortech Products

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WBS No.	Description	Units	Quantity	Description
2.4 - Lower Dublin Gulch Diversion Channel				
2.4.1	Clearing and Grubbing	ha	1.7	
2.4.2	Topsoil Stripping	m^3	5,100	300mm thickness
2.4.3	Excavate Colluvium	m^3	8,400	500mm thickness
2.4.4	Place Fill	m^3	1,000	compacted fill material with a maximum particle size of 50mm compacted to 95% of proctor density and +/- 2%
2.4.5	Cut Diversion Channel	m^3	61,000	cut overburden material - Placer Tailings as defined in reference [1]
2.4.6	Place Channel Erosion Protection - Turf Reinforcement	m^2	5,600	Pyramat by Propex Geosynthetics
2.4.7	Place Geotextile	m^2	4,100	Separation meduim between transition layer and existing ground
2.4.8	Place Transition Layer	m^3	410	100mm thickness of 50mm angular crushed stone drainage medium
2.4.9	Place Channel Drop/Pool Erosion Protection	m^2	4,100	Articulated Concrete Block (Product 70T) by Contech - Armortech Products
2.5 - Lower Dublin Gulch Diversion Channel (Fish Habitat Section Rough Estimate - not designed)				
2.5.1	Clearing and Grubbing	ha	4	total length 600m
2.5.2	Topsoil Stripping	m^3	10,800	300mm thickness
2.5.3	Excavate Colluvium	m^3	18,000	500mm thickness
2.5.4	Place Fill	m^3	20,000	40 m3 per unit length
2.5.5	Cut Diversion Channel	m^3	60,000	110 m3 per unit length
2.5.6	Place Channel Erosion Protection - Turf Reinforcement	m^2	5,000	Pyramat by Propex Geosynthetics
2.5.7	Place Geotextile	m^2	3,000	Separation meduim between transition layer and existing ground
2.5.8	Place Transition Layer	m^3	300	100mm thickness of 50mm angular crushed stone drainage medium
2.5.9	Place Channel Drop/Pool Erosion Protection	m^2	3,000	Articulated Concrete Block (Product 70T) by Contech - Armortech Products

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WBS No.	Description	Units	Quantity	Description
3.0 – PONDS				
3.1 - Event Ponds #1 & 2				
3.1.1	Excavation (old tails)	m^3	330,000	
3.1.2	Ponds Subgrade Preparation (fill)	m^3	18,300	300mm thickkness; maximum particle size of 50mm compacted to 95% of proctor density and +/- 2% optimum moisture
3.1.3	Ponds Grading (fill)	m^3	30,000	compacted fill material with a maximum particle size of 50mm compacted to 95% of proctor density and +/- 2% optimum moisture
3.1.4	Ponds Groundwater Drainage Gravel	m^3	803	1 1/2 inch minus clean gravel fill
3.1.5	Ponds Groundwater Drainage Geotextile	m^3	5,621	8 oz non-woven geotextile
3.1.6	Ponds Groundwater Drainage Piping	m	1,606	Main: 1606m of 200mm ADS N-12 Perforrated Pipe
3.1.7	Bedding Layer Placement	m^3	11,000	300mm thickkness; fine grained soil with a target permeability of 1x10-5 cm/s.
3.1.8	Primary Geomembrane Placement [2mm HDPE]	m^2	36,000	
3.1.9	Geonet Drain Liner for Leak Detection System	m^2	36,000	Agru Drain Liner; LLDPE liner 2mm thick
3.1.10	Secondary Geomembrane Placement [1.5mm LLDPE]	m^2	36,000	
3.1.11	Leak Detection & Recovery System (Leak Detection Sumps/Pump System)	LOT	2	low flow suction pump with leak detection probe
4.0 – HEAP LEACH FACILITY				
4.1 Embankment Construction				
4.1.1	Clearing and Grubbing	ha	9.1	
4.1.2	Topsoil Stripping	m^3	27,300	300mm thickness
4.1.3	Excavate Permafrost	m^3	9,100	200mm thickness
4.1.4	Excavate Colluvium	m^3	91,000	500mm thickness
4.1.5	Embankment Grading (remove old tails)	m^3	546,000	12m thickness
4.1.6	Subgrade Preparation (fill)	m^3	27,300	300mm thickkness; maximum particle size of 50mm compacted to 95% of proctor density and +/- 2% optimum moisture
4.1.7	Place Fill (rock fill)	m^3	1,119,000	crest elevation of 878
4.1.8	Place Fill (earth fill)	m^3	743,000	crest elevation of 890
4.1.9	Upstream Face Liner (1.5mm LLDPE)	m^2	39,000	
4.1.10	Upstream Face Bedding Layer Placement	m^3	11,700	300mm thickkness

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WBS No.	Description	Units	Quantity	Description
4.2 Spillway Construction				
4.2.1	Clearing and Grubbing	ha	1.9	
4.2.2	Spillway Grading (remove old tails)	m^3	60,000	
4.2.3	Spillway Excavation Permafrost	m^3	1,200	200mm thickness
4.2.4	Spillway Excavation Colluvium	m^3	9,600	500mm thickness
4.2.5	Spillway Subgrade Preparation (fill)	m^3	1,000	300mm thickness
4.2.6	Spillway Grading Cut	m^3	73,000	cut weathered bedrock
4.2.7	Spillway Grading Fill	m^4	13,000	cut weathered bedrock
4.2.7	Spillway Concrete	m^3	2,200	500mm thickness
4.3 Heap Leach Pad - Phase 1				
4.3.1	Clearing and Grubbing	ha	46	
4.3.2	Topsoil Stripping	m^3	137,700	300mm thickness
4.3.3	Excavate Permafrost	m^3	45,900	200mm thickness
4.3.4	Excavate Colluvium	m^3	137,700	300mm thickness
4.3.6	Subgrade Preparation (fill)	m^3	137,700	300mm thickkness; maximum particle size of 50mm compacted to 95% of proctor density and +/- 2% optimum moisture
4.3.7	Groundwater Drainage Gravel	m^3	4,146	1 1/2 inch minus clean gravel
4.3.8	Groundwater Drainage Geotextile	m^2	29,022	8 oz non-woven geotextile
4.3.9	Groundwater Drainage Pipes	m	8,292	Main: 3292m of 200mm ADS N-12 Perforrated Pipe; Collector: 5000m allowance of 100mm ADS N-12 Perforrated Pipe
4.3.10	Pad Grading (cut)	m^3	1,146,242	
4.3.11	Pad Grading (fill)	m^3	174,165	
4.3.12	Upper Section Geomembrane (1.5mm LLDPE double texture)	m^2	183,489	60 mil (double-sided textured LLDPE) and 80 mil LLDPE
4.3.13	GCL Liner	m^2	387,849	a sodium bentonite soil layer between two non-woven geotextiles, needle punched together
4.3.14	In-heap Primary Geomembrane (1.5mm LLDPE)	m^2	204,360	60 mil thickness (double-sided textured LLDPE) 80 mil LLDPE
4.3.15	In-heap Geomembrane Drain Liner	m^2	204,360	Agru Drainaige Liner; LLDPE liner 2 mm thick
4.3.16	In-heap Secondary Geomembrane (1.5 LLDPE)	m^2	204,360	60 mil (double-sided textured LLDPE) and 80 mil LLDPE
4.3.17	Overliner (crushed drainage layer material)	m^3	387,849	1m thickness; crushed to minus 50mm and screened over 12mm with no more than 5% fines
4.3.19	Solution Pump System	LOT	1	By others
4.3.20	Solution Collection Header Pipe	m	1,823	450mm ADS N-12 Perforrated Pipe
4.3.21	Solution Collection Primary Pipe	m	1,887	375mm ADS N-12 Perforrated Pipe
4.3.22	Solution Collection Secondary Pipe	m	8,515	100mm ADS N-12 Perforrated Pipe

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WBS No.	Description	Units	Quantity	Description
4.4 Heap Leach Pad - Phase 1 Temporary Diversion Channels				
4.4.1	Clearing and Grubbing	ha	3.6	
4.4.2	Topsoil Stripping	m^3	10,800	300mm thickness
4.4.3	Excavate Colluvium	m^3	18,000	500mm thickness
4.4.4	Cut Diversion Channel	m^3	130,000	cut weathered rock - "Type 3" rock as defined in reference [1]
4.4.5	Backfill Diversion Channel	m^3	130,000	Backfill materail TBD
4.5 Heap Leach Pad - Phase 2 Temporary Diversion Channels				
4.5.1	Clearing and Grubbing	ha	1.8	
4.5.2	Topsoil Stripping	m^3	5,500	300mm thickness
4.5.3	Excavate Colluvium	m^3	9,100	500mm thickness
4.5.4	Cut Diversion Channel	m^3	69,000	cut weathered rock - "Type 3" rock as defined in reference [1]
4.5.5	Backfill Diversion Channel	m^3	69,000	Backfill materail TBD

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WBS No.	Description	Units	Quantity	Description
1.0 – General Items				
1.1	Mobilization	LOT	1	
1.2	Construction Staking and Layout	LOT	1	
1.3	Construction Stormwater Control	LOT	1	
1.4	Demobilization	LOT	1	
2.0 – DUBLIN GULCH DIVERSION CHANNEL				
2.1 - Upper Section Velocity Reduction Pond / Embankment				
2.1.1	Clearing and Grubbing	ha	2.5	
2.1.2	Topsoil Stripping	m^3	7,500	300mm thickness
2.1.3	Place Fill	m^3	120,000	
2.1.4	Place Silt Liner	m^3	7,500	300mm thickness
2.1.5	Upstream Face Bedding Layer Placement	m^3	2,500	300mm thickkness; fine grained soil with a target permeability of 1x10-5 cm/s.
2.1.6	Upstream Face Liner (1.5mm LLDPE)	m^2	7,000	
2.2 - Upper Dublin Gulch Diversion Channel				
2.2.1	Clearing and Grubbing	ha	3.0	
2.2.2	Topsoil Stripping	m^3	8,800	300mm thickness
2.2.3	Excavate Permafrost	m^3	3,500	200mm thickness and permafrost extents estimated from reference [1]
2.2.4	Excavate Colluvium	m^3	12,600	500mm thickness
2.2.5	Cut Diversion Channel	m^3	106,000	cut weathered rock - "Type 3" rock as defined in reference [1]
2.2.6	Place Fill	m^3	2,400	compacted fill material with a maximum particle size of 50mm compacted to 95% of proctor density and +/- 2% optimum moisture
2.2.7	Place Channel Erosion Protection - Turf Reinforcement	m^2	9,800	Pyramat by Propex Geosynthetics
2.3 - Energy Dissipation Structure				
2.3.1	Clearing and Grubbing	ha	2.8	
2.3.2	Topsoil Stripping	m^3	8,400	300mm thickness
2.3.3	Excavate Colluvium	m^3	14,050	500mm thickness
2.3.4	Cut Dissipation Structure	m^3	178,000	cut weathered rock - "Type 3" rock as defined in reference [1]
2.3.5	Place Fill	m^3	40	compacted fill material with a maximum particle size of 50mm compacted to 95% of proctor density and +/- 2%
2.3.6	Place Channel Erosion Protection - Turf Reinforcement	m^2	3,552	Pyramat by Propex Geosynthetics
2.3.7	Place Geotextile	m^2	8,000	Separation meduim between transition layer and existing ground
2.3.8	Place Transition Layer	m^3	800	100mm thickness of 50mm angular crushed stone drainage medium
2.3.9	Place Channel Drop/Pool Erosion Protection	m^2	8,000	Articulated Concrete Block (Product 70T) by Contech - Armortech Products

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WBS No.	Description	Units	Quantity	Description
2.4 - Lower Dublin Gulch Diversion Channel				
2.4.1	Clearing and Grubbing	ha	1.7	
2.4.2	Topsoil Stripping	m^3	5,100	300mm thickness
2.4.3	Excavate Colluvium	m^3	8,400	500mm thickness
2.4.4	Place Fill	m^3	1,000	compacted fill material with a maximum particle size of 50mm compacted to 95% of proctor density and +/- 2%
2.4.5	Cut Diversion Channel	m^3	61,000	cut overburden material - Placer Tailings as defined in reference [1]
2.4.6	Place Channel Erosion Protection - Turf Reinforcement	m^2	5,600	Pyramat by Propex Geosynthetics
2.4.7	Place Geotextile	m^2	4,100	Separation meduim between transition layer and existing ground
2.4.8	Place Transition Layer	m^3	410	100mm thickness of 50mm angular crushed stone drainage medium
2.4.9	Place Channel Drop/Pool Erosion Protection	m^2	4,100	Articulated Concrete Block (Product 70T) by Contech - Armortech Products
2.5 - Lower Dublin Gulch Diversion Channel (Fish Habitat Section Rough Estimate - not designed)				
2.5.1	Clearing and Grubbing	ha	4	total length 600m
2.5.2	Topsoil Stripping	m^3	10,800	300mm thickness
2.5.3	Excavate Colluvium	m^3	18,000	500mm thickness
2.5.4	Place Fill	m^3	20,000	40 m3 per unit length
2.5.5	Cut Diversion Channel	m^3	60,000	110 m3 per unit length
2.5.6	Place Channel Erosion Protection - Turf Reinforcement	m^2	5,000	Pyramat by Propex Geosynthetics
2.5.7	Place Geotextile	m^2	3,000	Separation meduim between transition layer and existing ground
2.5.8	Place Transition Layer	m^3	300	100mm thickness of 50mm angular crushed stone drainage medium
2.5.9	Place Channel Drop/Pool Erosion Protection	m^2	3,000	Articulated Concrete Block (Product 70T) by Contech - Armortech Products

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SUMMARY FORM

WBS No.	Description	Units	Quantity	Description
3.0 – PONDS				
3.1 - Event Ponds #1 & 2				
3.1.1	Excavation (old tails)	m^3	330,000	
3.1.2	Ponds Subgrade Preparation (fill)	m^3	18,300	300mm thickkness; maximum particle size of 50mm compacted to 95% of proctor density and +/- 2% optimum moisture
3.1.3	Ponds Grading (fill)	m^3	30,000	compacted fill material with a maximum particle size of 50mm compacted to 95% of proctor density and +/- 2% optimum moisture
3.1.4	Ponds Groundwater Drainage Gravel	m^3	803	1 1/2 inch minus clean gravel fill
3.1.5	Ponds Groundwater Drainage Geotextile	m^3	5,621	8 oz non-woven geotextile
3.1.6	Ponds Groundwater Drainage Piping	m	1,606	Main: 1606m of 200mm ADS N-12 Perforrated Pipe
3.1.7	Bedding Layer Placement	m^3	11,000	300mm thickkness; fine grained soil with a target permeability of 1x10-5 cm/s.
3.1.8	Primary Geomembrane Placement [2mm HDPE]	m^2	36,000	
3.1.9	Geonet Drain Liner for Leak Detection System	m^2	36,000	Agru Drain Liner; LLDPE liner 2mm thick
3.1.10	Secondary Geomembrane Placement [1.5mm LLDPE]	m^2	36,000	
3.1.11	Leak Detection & Recovery System (Leak Detection Sumps/Pump System)	LOT	2	low flow suction pump with leak detection probe
4.0 – HEAP LEACH FACILITY				
4.1 Embankment Construction				
4.1.1	Clearing and Grubbing	ha	9.1	
4.1.2	Topsoil Stripping	m^3	27,300	300mm thickness
4.1.3	Excavate Permafrost	m^3	9,100	200mm thickness
4.1.4	Excavate Colluvium	m^3	91,000	500mm thickness
4.1.5	Embankment Grading (remove old tails)	m^3	546,000	12m thickness
4.1.6	Subgrade Preparation (fill)	m^3	27,300	300mm thickkness; maximum particle size of 50mm compacted to 95% of proctor density and +/- 2% optimum moisture
4.1.7	Place Fill (rock fill)	m^3	1,119,000	crest elevation of 878
4.1.8	Place Fill (earth fill)	m^3	743,000	crest elevation of 890
4.1.9	Upstream Face Liner (1.5mm LLDPE)	m^2	39,000	
4.1.10	Upstream Face Bedding Layer Placement	m^3	11,700	300mm thickkness

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WBS No.	Description	Units	Quantity	Description
4.2 Spillway Construction				
4.2.1	Clearing and Grubbing	ha	1.9	
4.2.2	Spillway Grading (remove old tails)	m^3	60,000	
4.2.3	Spillway Excavation Permafrost	m^3	1,200	200mm thickness
4.2.4	Spillway Excavation Colluvium	m^3	9,600	500mm thickness
4.2.5	Spillway Subgrade Preparation (fill)	m^3	1,000	300mm thickness
4.2.6	Spillway Grading Cut	m^3	73,000	cut weathered bedrock
4.2.7	Spillway Grading Fill	m^4	13,000	cut weathered bedrock
4.2.7	Spillway Concrete	m^3	2,200	500mm thickness
4.3 Heap Leach Pad - Phase 1				
4.3.1	Clearing and Grubbing	ha	46	
4.3.2	Topsoil Stripping	m^3	137,700	300mm thickness
4.3.3	Excavate Permafrost	m^3	45,900	200mm thickness
4.3.4	Excavate Colluvium	m^3	137,700	300mm thickness
4.3.6	Subgrade Preparation (fill)	m^3	137,700	300mm thickkness; maximum particle size of 50mm compacted to 95% of proctor density and +/- 2% optimum moisture
4.3.7	Groundwater Drainage Gravel	m^3	4,146	1 1/2 inch minus clean gravel
4.3.8	Groundwater Drainage Geotextile	m^2	29,022	8 oz non-woven geotextile
4.3.9	Groundwater Drainage Pipes	m	8,292	Main: 3292m of 200mm ADS N-12 Perforrated Pipe; Collector: 5000m allowance of 100mm ADS N-12 Perforrated Pipe
4.3.10	Pad Grading (cut)	m^3	1,146,242	
4.3.11	Pad Grading (fill)	m^3	174,165	
4.3.12	Upper Section Geomembrane (1.5mm LLDPE double texture)	m^2	183,489	60 mil (double-sided textured LLDPE) and 80 mil LLDPE
4.3.13	GCL Liner	m^2	387,849	a sodium bentonite soil layer between two non-woven geotextiles, needle punched together
4.3.14	In-heap Primary Geomembrane (1.5mm LLDPE)	m^2	204,360	60 mil thickness (double-sided textured LLDPE) 80 mil LLDPE
4.3.15	In-heap Geomembrane Drain Liner	m^2	204,360	Agru Drainaige Liner; LLDPE liner 2 mm thick
4.3.16	In-heap Secondary Geomembrane (1.5 LLDPE)	m^2	204,360	60 mil (double-sided textured LLDPE) and 80 mil LLDPE
4.3.17	Overliner (crushed drainage layer material)	m^3	387,849	1m thickness; crushed to minus 50mm and screened over 12mm with no more than 5% fines
4.3.19	Solution Pump System	LOT	1	By others
4.3.20	Solution Collection Header Pipe	m	1,823	450mm ADS N-12 Perforrated Pipe
4.3.21	Solution Collection Primary Pipe	m	1,887	375mm ADS N-12 Perforrated Pipe
4.3.22	Solution Collection Secondary Pipe	m	8,515	100mm ADS N-12 Perforrated Pipe

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WBS No.	Description	Units	Quantity	Description
4.4 Heap Leach Pad - Phase 1 Temporary Diversion Channels				
4.4.1	Clearing and Grubbing	ha	3.6	
4.4.2	Topsoil Stripping	m^3	10,800	300mm thickness
4.4.3	Excavate Colluvium	m^3	18,000	500mm thickness
4.4.4	Cut Diversion Channel	m^3	130,000	cut weathered rock - "Type 3" rock as defined in reference [1]
4.4.5	Backfill Diversion Channel	m^3	130,000	Backfill materail TBD
4.5 Heap Leach Pad - Phase 2 Temporary Diversion Channels				
4.5.1	Clearing and Grubbing	ha	1.8	
4.5.2	Topsoil Stripping	m^3	5,500	300mm thickness
4.5.3	Excavate Colluvium	m^3	9,100	500mm thickness
4.5.4	Cut Diversion Channel	m^3	69,000	cut weathered rock - "Type 3" rock as defined in reference [1]
4.5.5	Backfill Diversion Channel	m^3	69,000	Backfill materail TBD