MASTER WORK BREAKDOWN STRUCTURE

Faro Mine Remediation Project - Faro Side

		Faro Mine Remediation Project - Faro Side
	Level 2	Level 3 Level 4
F1 - Gove		Management
	F1.1 - Proj	ect Management
		F1.1.1 - Governance - Project Management
		F1.1.2 - Project Controls - Project Management
		F1.1.3 - Regulatory - Project Management
		F1.1.4 - Environment, Health & Safety - Project Management
		F1.1.5 - Consultation - Project Management
		F1.1.6 - C&M - Project Management
		F1.1.7 - Design - Project Management
		F1.1.8 - Implementation - Project Management
		F1.1.9 - Monitoring - Project Management
		F1.1.10 - Procurement Management - Project Management
		F1.1.11 - Data Management - Project Management
	F1.2 - CIR	NAC Project Administration
		F1.2.1 - Human Resources
		F1.2.2 - Admin & other disbursements
		F1.2.3 - Training
		F1.2.4 - Travel
		F1.2.5 - Project Technical Support
		F1.2.6 - Legal Resources
		F1.2.7 - Communication Resources
	F1.3 - PSF	C Project Administration
		F1.3.1 - PSPC Human Resources
		F1.3.2 - Training
		F1.3.3 - Travel
		F1.3.4 - Admin and other Disbursements
F0 D		F1.3.5 - PM Support Services
F2 - Regu		ulatani Mananana
	F2.1 - Reg	ulatory Management
		F2.1.1 - Project Management (PM)
		F2.1.2 - Admin F2.1.3 - Travel
	E22 Envi	ronmental and Socio-economic Assessment
	FZ.Z - □IIV	F2.2.1 - Preparation of YESAB Proposal
		F2.2.2 - Project Proposal Studies or Modeling
		F2.2.3 - Post-submission of Project Proposal
	E2.2 Wat	er License Application
	1 2.5 - Wat	F2.3.1 - Preparation of Water License Application
		F2.3.2 - Project Application Studies or Modeling
		F2.3.3 - Post-submission of Project Proposal
	F2 4 - Fish	eries Act Authorization Application
	1 2.4 - 1 1311	F2.4.1 - Preparation of FAA
		F2.4.2 - Supporting Studies or Modeling
		F2.4.3 - Post-submission of Project Proposal
	F2.5 - Othe	er Licenses and Permits
		ulatory Reporting
	1109	F2.6.1 WUL Reporting
		F2.6.2 FAA Reporting
		F2.6.3 Other Licenses and Permits Reporting
F3 - Cons	sultation	
		cted Yukon First Nations
		F3.1.1 - Ross River Dena Council
		F3.1.2 - Liard First Nation
		F3.1.3 - Kaska Dena Council
		F3.1.4 - Selkirk First Nation
	F3.2 - Tow	
	F3.3 - Othe	er Stakeholders
		o-economic Strategy Development/Implementation
F4 - Inves		d Assessment
	-	Site Investigation and Assessment (During Definition and Implementation Phases)
F5 - Care		enance (C&M)
. J Gard		Management
	2 Odin	F5.1.1 - Site Management
		F5.1.2 - Administration
		F5.1.3 - Travel
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F5.2 - Operation
                    F5.2.1 - Clean Water Management
                   F5.2.2 - Contaminated Water Management
                              F5.2.2.1 - Contaminated Water Management - Labour
                              F5.2.2.2 - Contaminated Water Management - Equipment
                              F5.2.2.3 - Contaminated Water Management - Inventory and Ops Expenses
                              F5.2.2.4 - Contaminated Water Management - Lime Consumables
                              F5.2.2.5 - Contaminated Water Management - Fuel Consumables
                              F5.2.2.6 - Contaminated Water Management - Acid Consumables
                              F5.2.2.4 - Contaminated Water Management - Power Consumables
                              F5.2.2.4 - Contaminated Water Management - Other Consumables
                   F5.2.3 - Waste Management
                   F5.2.4 - Remediation Interface
                   F5.2.5 - Upgrade/Site Improvements
                   F5.2.6 - Erosion and Sediment Control
                   F5.2.7 - Site Security and Health and Safety
         F5.3 - Maintenance
                   F5.3.1 - Preventative Maintenance and Minor Repairs
                   F5.3.2 - Major Repairs and Equipment Replacement
         F5.4 - Operational Monitoring
                    F5.4.1 Monitoring collection
                   F5.4.2 Monitoring Reporting
F6 - Remediation
         F6.1 - Definition / Design Contract
                   F6.1.1 - Design Management
                              F6.1.1.1 - Design Project Management
                              F6.1.1.2 - Design Administration
                              F6.1.1.3 - Travel
                   F6.1.2 - Site Development
                              F6.1.2.1 - Roads [SD-ROAD]
                              F6.1.2.2 - Bulk Earthworks (Pads) [SD-PADS]
                              F6.1.2.3 - Fuel Storage [SD-FUEL]
                              F6.1.2.4 - Explosives Storage [SD-EXPL]
                              F6.1.2.5 - Borrow Development [SD-BORR]
                              F6.1.2.6 - Site Development Investigations
                   F6.1.3 - Tailings Area
                              F6.1.3.1 - Tailings Relocations [TA-RELC]
                              F6.1.3.2 - Tailings Landform [TA-LAND]
                              F6.1.3.3 - Tailings Cover [TA-COVR]
                              F6.1.3.4 - Tailings Surface Water Conveyance [TA-TSWC]
                              F6.1.3.5 - Tailings Area Investigations
                   F6.1.4 - Tailings Area Dams
                              F6.1.4.1 - Intermediate Dam [TA-IDAM]
                              F6.1.4.2 - Secondary Dam [TA-SDAM]
                              F6.1.4.3 - Cross Valley Dam Regrading [TA-CVDR]
                              F6.1.4.4 - Tailings Area Dams Investigations
                   F6.1.5 - Mine Area
                              F6.1.5.1 - Mine Area Relocations [MA-WRDR]
                              F6.1.5.2 - Waste Rock Landform [MA-WRDL]
                              F6.1.5.3 - Mine Area Covers [MA-COVR]
                              F6.1.5.4 - Waste Rock Surface Runoff Conveyance [MA-MSWC]
                              F6.1.5.5 - Mine Area Contact/Runoff Water [MA-CONW]
                              F6.1.5.6 - Mine Area Investigations
                   F6.1.6 - Contact Water
                              F6.1.6.1 - Zone II Pit Dewatering System [CW-ZTPD (CW-ZIIP)]
                              F6.1.6.2 - Emergency Tailings Area Seepage Interception System (ETA-SIS) [CW-ETAC (ETA-SIS)]
                              F6.1.6.3 - North Fork Rose Creek Seepage Interception System (NFRC-SIS) [CW-NFRC (NFRC-SIS)]
                              F6.1.6.4 - Down Valley Seepage Interception System (DV-SIS) [CW-DVIS (DV-SIS)]
                              F6.1.6.5 - Contact Water Conveyance System [CW-CONV]
                              F6.1.6.6 - Contact Water Investigations
                              F6.1.6.7 - Permanent Water Treatment Plant
                   F6.1.7 - Perimeter Non-Contact Water
                              F6.1.7.1 - North Tailings Conveyance System [NC-NTCS (NC-DVDC)]
                              F6.1.7.2 - East Tailings Diversion Channel [NC-ETDC]
                              F6.1.7.3 - Faro Creek Diversion Channel (East and West Faro Valley) [NC-FCDC]
                              F6.1.7.4 - North Fork Rose Creek Integration [NC-NFRC (NFRC-NCWC)]
                              F6.1.7.5 - Rose Creek Diversion Channel [NC-RCDC]
                              F6.1.7.6 - Confluence of North Fork Rose Creek and South Fork Rose Creek [NC-RCCA]
                              F6.1.7.7 - Perimeter Non-Contact Water Investigations
                   F6.1.8 - Demolition and Waste
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F6.1.8.1 - Contaminated Soil Treatment Facility [DW-CSTF1]
                     F6.1.8.2 - Contaminated Soils IDW-SOIL21
                     F6.1.8.3 - Site Landfill [DW-LAND3]
                     F6.1.8.4 - Demolition and Waste Investigations
          F6.1.9 - Site Restoration
                     F6.1.9.1 - Existing Roads (incl. Haul Road) [SR-ROAD]
                     F6.1.9.2 - Other Historical Disturbance [SR-HIST]
                     F6.1.9.3 - Revegetation [SR-RVEG]
                     F6.1.9.4 - Site Restoration Investigations
          F6.1.10 - Other Design Works
F6.2 - Implementation / MCM Contract
          F6.2.1 - MCM Management
                     F6.2.1.1 - Site Management
                     F6.2.1.2 - Health, Safety & Security
                     F6.2.1.3 - Environmental Management
                     F6.2.1.4 - Construction Management
                     F6.2.1.5 - Procurement
                     F6.2.1.6 - Project Management, Reporting and KPIs
                     F6.2.1.7 - Socio-economic Opportunities Management
                     F6.2.1.8 - Admin
                     F6.2.1.9 - Travel
          F6.2.2 - Site Development
                     F6.2.2.1 - Roads [SD-ROAD]
                     F6.2.2.2 - Bulk Earthworks (Pads) [SD-PADS]
                     F6.2.2.3 - Fuel Storage [SD-FUEL]
                     F6.2.2.4 - Explosives Storage [SD-EXPL]
                     F6.2.2.5 - Borrow Development [SD-BORR]
          F6.2.3 - Tailings Area
                     F6.2.3.1 - Tailings Relocations [TA-RELC]
                     F6.2.3.2 - Tailings Landform [TA-LAND]
                     F6.2.3.3 - Tailings Cover [TA-COVR]
                     F6.2.3.4 - Tailings Surface Water Conveyance [TA-TSWC]
          F6.2.4 - Tailings Area Dams
                     F6.2.4.1 - Intermediate Dam [TA-IDAM]
                     F6.2.4.2 - Secondary Dam [TA-SDAM]
                     F6.2.4.3 - Cross Valley Dam Regrading [TA-CVDR]
          F6.2.5 - Mine Area
                     F6.2.5.1 - Mine Area Relocations [MA-WRDR]
                     F6.2.5.2 - Waste Rock Landform [MA-WRDL]
                     F6.2.5.3 - Mine Area Covers [MA-COVR]
                     F6.2.5.4 - Waste Rock Surface Runoff Conveyance [MA-MSWC]
                     F6.2.5.5 - Mine Area Contact/Runoff Water [MA-CONW]
          F6.2.6 - Contact Water
                     F6.2.6.1 - Zone II Pit Dewatering System [CW-ZTPD (CW-ZIIP)]
                     F6.2.6.2 - Emergency Tailings Area Seepage Interception System (ETA-SIS) [CW-ETAC (ETA-SIS)]
                     F6.2.6.3 - North Fork Rose Creek Seepage Interception System (NFRC-SIS) [CW-NFRC (NFRC-SIS)]
                     F6.2.6.4 - Down Valley Seepage Interception System (DV-SIS) [CW-DVIS (DV-SIS)]
                     F6.2.6.5 - Contact Water Conveyance System [CW-CONV]
          F6.2.7 - Perimeter Non-Contact Water
                     F6.2.7.1 - North Tailings Conveyance System [NC-NTCS (NC-DVDC)]
                     F6.2.7.2 - East Tailings Diversion Channel [NC-ETDC]
                     F6.2.7.3 - Faro Creek Diversion Channel (East and West Faro Valley) [NC-FCDC]
                     F6.2.7.4 - North Fork Rose Creek Integration [NC-NFRC (NFRC-NCWC)]
                     F6.2.7.5 - Rose Creek Diversion Channel [NC-RCDC]
                     F6.2.7.6 - Confluence of North Fork Rose Creek and South Fork Rose Creek [NC-RCCA]
          F6.2.8 - Demolition and Waste
                     F6.2.8.1 - Contaminated Soil Treatment Facility [DW-CSTF1]
                     F6.2.8.2 - Contaminated Soils [DW-SOIL2]
                     F6.2.8.3 - Site Landfill [DW-LAND3]
          F6.2.9 - Site Restoration
                     F6.2.9.1 - Existing Roads (incl. Haul Road) [SR-ROAD]
                     F6.2.9.2 - Other Historical Disturbance [SR-HIST]
                     F6.2.9.3 - Revegetation [SR-RVEG]
          F6.2.10 - Other Construction Works
F6.3 - Engineering and Construction Oversight and Management
          F6.3.1 - PM and Admin
          F6.3.2 - Travel
          F6.3.3 - Construction oversight
                     F6.3.3.1 - Quality Management
          F6.3.4 - Construction reporting and as-builts
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F7 - Monitoring
         F7.1 - Environmental Monitoring (EM) Contractor
                     F7.1.1 - EM Management
                                F7.1.1.1 - PM and Admin
                                F7.1.1.2 - Travel
                                F7.1.1.3 - Planning and technical services
                                F7.1.1.4 - Environmental Compliance and Auditing
                     F7.1.2 - Monitoring
                                F7.1.2.1 - Water quality monitoring
                                F7.1.2.2 - Water level and flow monitoring
                                F7.1.2.3 - Toxicity testing
                                F7.1.2.4 - Aquatic effects monitoring
                                F7.1.2.5 - Air quality monitoring
                                F7.1.2.6 - Geotechnical monitoring
                                F7.1.2.7 - Meteorological monitoring
                                F7.1.2.8 - Wildlife monitoring
                                F7.1.2.9 - Vegetation monitoring
                     F7.1.3 - Laboratory Services
                     F7.1.4 - Data Management and Analysis Services
         F7.2 - Geotechnical Monitoring
                     F7.2.1 - Geotechnical Management
                                F7.2.1.1 - PM and Admin
                                F7.2.1.2 - Travel
                                F7.2.1.3 - Planning and technical services
                     F7.2.2 - Dam System Technical Support
                     F7.2.3 - Operational Support and Technical Expertise
                     F7.2.4 - Emergency Response Guidance Services
                     F7.2.5 - Geotechnical data and instrumentation monitoring, installation and maintenance
                                F7.2.5.1 - Instrumentation installation and maintenance
                                F7.2.5.2 - Pit wall stability monitoring
                     F7.2.6 - Ongoing geotechnical consultant advisory and technical support
                     F7.2.7 - Geotechnical monitoring (duplicate of EM scope)
                     F7.2.8 - Site investigations and geotechnical design
                                F7.2.8.1 - Dam Safety Review
                                F7.2.8.2 - Other
F8 - Long-term (Future)
         F8.1 - Long term monitoring Planning
         F8.2 - Long term monitoring (Post remediation)
         F8.3 - Long term C&M
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MASTER WORK BREAKDOWN STRUCTURE

Faro Mine Remediation Project - Vangorda Side

Level 1	Level 2	Level 3 Level 4
		Management
		•
		ct Management
		/1.1.1 - Governance - Project Management
		/1.1.2 - Project Controls - Project Management
		/1.1.3 - Regulatory - Project Management
		/1.1.4 - Environment, Health & Safety - Project Management
		/1.1.5 - Consultation - Project Management
		/1.1.6 - C&M - Project Management
		/1.1.7 - Design - Project Management
		/1.1.8 - Implementation - Project Management
		/1.1.9 - Monitoring - Project Management
		/1.1.10 - Procurement Management - Project Management
		/1.1.11 - Data Management - Project Management
		AC Project Administration
		/1.2.1 - Human Resources
		/1.2.2 - Admin & other disbursements
		/1.2.3 - Training
		/1.2.4 - Travel
		/1.2.5 - Project Technical Support
		/1.2.6 - Legal Resources
		/1.2.7 - Communication Resources
,		Project Administration
	\	/1.3.1 - PSPC Human Resources
	\	/1.3.2 - Training
	\	/1.3.3 - Travel
	\	/1.3.4 - Admin and other Disbursements
	\	/1.3.5 - PM Support Services
V2 - Regul	atory	
,	V2.1 - Regul	atory Management
	\	/2.1.1 - Project Management (PM)
	\	/2.1.2 - Admin
	\	/2.1.3 - Travel
,	V2.2 - Enviro	onmental and Socio-economic Assessment
	\	/2.2.1 - Preparation of YESAB Proposal
	\	/2.2.2 - Project Proposal Studies or Modeling
	\	/2.2.3 - Post-submission of Project Proposal
,		r License Application
		/2.3.1 - Preparation of Water License Application
		/2.3.2 - Project Application Studies or Modeling
		/2.3.3 - Post-submission of Project Proposal
,		ries Act Authorization Application
		/2.4.1 - Preparation of FAA
		/2.4.2 - Supporting Studies or Modeling
		/2.4.3 - Post-submission of Project Proposal
,		Licenses and Permits
		atory Reporting
		/2.6.1 WUL Reporting
		/2.6.2 FAA Reporting
		/2.6.3 Other Licenses and Permits Reporting
V3 - Consu		2.0.0 Othor Electroco drid i crimite reporting
		red Yukon First Nations
		/3.1.1 - Ross River Dena Council
		/3.1.2 - Liard First Nation
I	V	70.1.2 - LIGIU I IISI INGUOTI

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V3.1.3 - Kaska Dena Council
                    V3.1.4 - Selkirk First Nation
         V3.2 - Town of Faro
         V3.3 - Other Stakeholders
         V3.4 - Socio-economic Strategy Development/Implementation
V4 - Investigation and Assessment
         V4.1 - New Site Investigation and Assessment (During Definition and Implementation Phases)
V5 - Care and Maintenance (C&M)
         V5.1 - C&M Management
                    V5.1.1 - Site Management
                    V5.1.2 - Administration
                    V5.1.3 - Travel
         V5.2 - Operation
                    V5.2.1 - Clean Water Management
                    V5.2.2 - Contaminated Water Management
                               V5.2.2.1 - Contaminated Water Management - Labour
                               V5.2.2.2 - Contaminated Water Management - Equipment
                              V5.2.2.3 - Contaminated Water Management - Inventory and Ops Expenses
                              V5.2.2.4 - Contaminated Water Management - Lime Consumables
                              V5.2.2.5 - Contaminated Water Management - Fuel Consumables
                              V5.2.2.6 - Contaminated Water Management - Acid Consumables
                              V5.2.2.4 - Contaminated Water Management - Power Consumables
                              V5.2.2.4 - Contaminated Water Management - Other Consumables
                    V5.2.3 - Waste Management
                    V5.2.4 - Remediation Interface
                    V5.2.5 - Upgrade/Site Improvements
                    V5.2.6 - Erosion and Sediment Control
                    V5.2.7 - Site Security and Health and Safety
         V5.3 - Maintenance
                    V5.3.1 - Preventative Maintenance and Minor Repairs
                    V5.3.2 - Major Repairs and Equipment Replacement
         V5.4 - Operational Monitoring
                    V5.4.1 Monitoring collection
                    V5.4.2 Monitoring Reporting
V6 - Remediation
         V6.1 - Definition / Design Contract
                    V6.1.1 - Covers
                    V6.1.2 - Contaminated Water
                    V6.1.3 - Clean Water
                    V6.1.4 - Civil
                    V6.1.5 - Other Design Works
                    V6.1.6 - Investigations
         V6.2 - Implementation / MCM Contract
                    V6.2.1 - Covers
                    V6.2.2 - Contaminated Water
                    V6.2.3 - Clean Water
                    V6.2.4 - Civil
                    V6.2.5 - Other Construction Works
         V6.3 - Engineering and Construction Oversight and Management
                    V6.3.1 - PM and Admin
                    V6.3.2 - Travel
                    V6.3.3 - Construction oversight
                              V6.3.3.1 - Quality Management
                    V6.3.4 - Construction reporting and as-builts
V7 - Monitoring
         V7.1 - Environmental Monitoring (EM) Contractor
                    V7.1.1 - EM Management
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V7.1.1.1 - PM and Admin V7.1.1.2 - Travel V7.1.1.3 - Planning and technical services V7.1.1.4 - Environmental Compliance and Auditing V7.1.2 - Monitoring V7.1.2.1 - Water quality monitoring V7.1.2.2 - Water level and flow monitoring V7.1.2.3 - Toxicity testing V7.1.2.4 - Aquatic effects monitoring V7.1.2.5 - Air quality monitoring V7.1.2.6 - Geotechnical monitoring V7.1.2.7 - Meteorological monitoring V7.1.2.8 - Wildlife monitoring V7.1.2.9 - Vegetation monitoring V7.1.3 - Laboratory Services V7.1.4 - Data Management and Analysis Services V7.2 - Geotechnical Monitoring V7.2.1 - Geotechnical Management V7.2.1.1 - PM and Admin V7.2.1.2 - Travel V7.2.1.3 - Planning and technical services V7.2.2 - Dam System Technical Support V7.2.3 - Operational Support and Technical Expertise V7.2.4 - Emergency Response Guidance Services V7.2.5 - Geotechnical data and instrumentation monitoring, installation and maintenance V7.2.5.1 - Instrumentation installation and maintenance V7.2.5.2 - Pit wall stability monitoring V7.2.6 - Ongoing geotechnical consultant advisory and technical support V7.2.7 - Geotechnical monitoring (duplicate of EM scope) V7.2.8 - Site investigations and geotechnical design V7.2.8.1 - Dam Safety Review V7.2.8.2 - Other V8 - Long-term (Future) V8.1 - Long term monitoring Planning V8.2 - Long term monitoring (Post remediation) V8.3 - Long term C&M