

Trusted Engineering Partner for the Mining Industry



ENGINEUITY

PROCESSING | INFRASTRUCTURE | FACILITIES



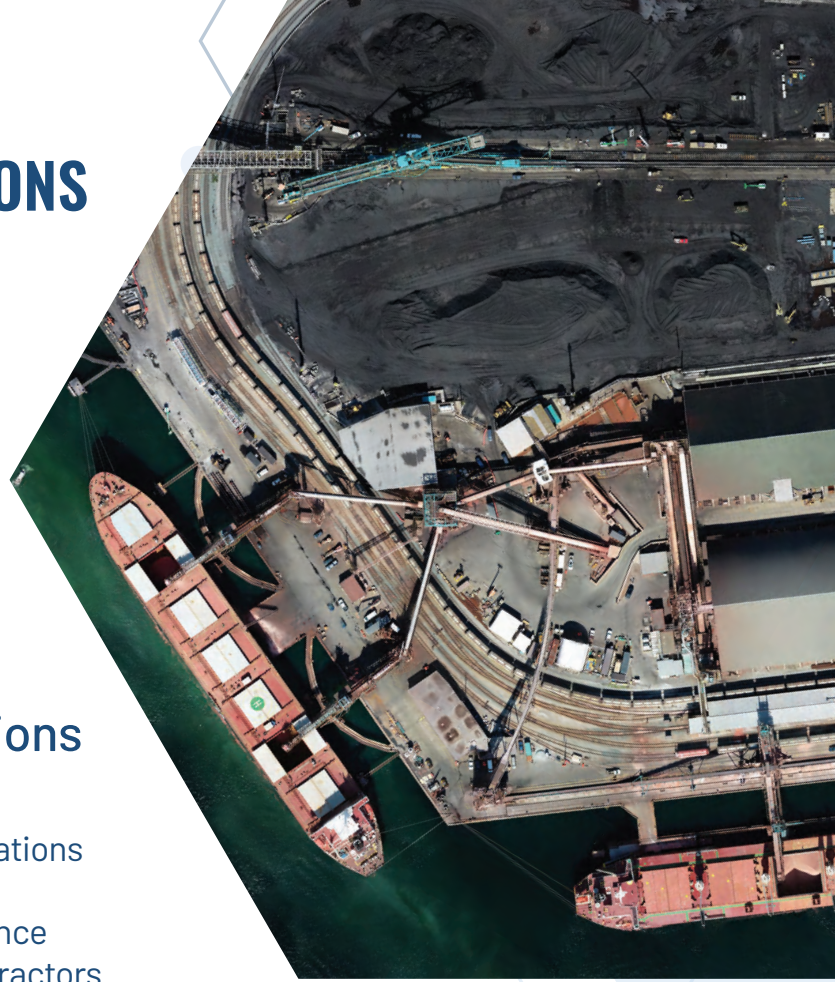
Tailings thickener and process water management at a copper concentrator

PRACTICAL ENGINEERING FOR MINING PROJECTS & OPERATIONS

Mining operations face long timelines, evolving scopes, remote locations, and tight capital constraints. Enginuity works alongside mining owners, operators, EPCs, vendors, and contractors to deliver **practical, constructable, operations-ready engineering**, supporting both early-stage studies and brownfield modifications at operating sites.

Experience Across Mining Operations

- Brownfield constraints and live operations
- Remote, arctic, and logistically challenging locations
- Capital efficiency and constructability
- Practical designs for operations and maintenance
- Alignment with owner, EPCs, vendors and contractors
- Multidisciplinary engineering under one roof



Supporting Mining Studies (PEA/PFS/FS)

Sustaining Capital & Asset Reliability

Facilities, Process & Infrastructure Engineering

Project Delivery & Execution Support

ENGINEERING ACROSS THE MINING LIFECYCLE

CAPITAL EXPANSIONS & GREENFIELD

Engineering from Studies to Execution

Enginuity supports new and expanding mining operations from early-stage conceptual engineering through execution, delivering practical, buildable solutions aligned with study requirements, battery limits, and project execution strategies.

Key Services Through Project Phases

- Conceptual engineering & early-stage infrastructure scoping
- Pre-PEA, PFS, and FS infrastructure definition and capital costing
- FEL 1-3 engineering aligned with project execution strategies
- Detailed multidisciplinary design with knowledge of applicable codes
- Permitting support with mine authorities and regulators
- Procurement, logistics, and construction support services
- Construction, commissioning, and start-up support





SUSTAINING CAPITAL & ASSET RELIABILITY

Maintenance and Improvement Solutions for Operating Mines

Enginuity works closely with operations and maintenance teams to plan and deliver sustaining capital programs that account for **live operations, shutdown windows, sustainability, and asset integrity**.

Our approach emphasizes practical solutions, clear scope definition, and tender-ready engineering that can be executed efficiently in brownfield environments.

Asset Condition & Integrity

- Visual inspections and NDT / NDE programs
- Risk ranking, prioritization, and life-extension planning
- Rehabilitation and reinforcement engineering
- For all stationary & rotary assets: buildings, process, mechanical and electrical assets

Maintenance & Brownfield Engineering

- Multi-discipline detailed design and tender-ready packages
- Work package development and shutdown planning support
- Brownfield modifications, upgrades, and tie-ins
- Vendor and OEM integration



Operate & Improve

- Plant optimization and debottlenecking initiatives
- Safety audits and improvement plans
- Energy efficiency and operating cost (Opex) reductions
- Energy study and capital funding for implementation

MINING PROCESSING

DRY PROCESSING & MATERIAL HANDLING

Engenuity supports dry processing and material handling systems with a focus on reliability, operability, and constructability in both greenfield and brownfield environments.

Our expertise includes:

- Drill-and-blast operations interface and material handling tie-ins
- Crushing plants, screening, and sizing systems
- Conveyors, transfer stations, and chute systems
- In-feed systems, vaults, and reclaim arrangements
- Shiploading and off-loading systems
- Associated foundations, vibration isolation, dust control, and spillage mitigation
- Integration with existing processing assets





WET MINERAL PROCESSING & RECOVERY

We support mineral processing and recovery plants through the delivery of plant design. Working off flow sheets and BFD's by the Owner's mining Engineer, our multidisciplinary teams can deliver full balance from PFD and P&IDs, through to detailed engineering.

- Process flow selection and mass & energy balance development
- Major equipment specification & OEM Integration
- Equipment Layouts & General Arrangements
- Slurry, process, and utility piping systems
- Froth flotation systems and processing interfaces
- Control philosophy and system integration
- Balance of Plant & Utilities integration (power, water, air, steam / heat, fuel)



FACILITIES AND INFRASTRUCTURE

SURFACE FACILITIES & BUILDINGS

We provide engineering for surface facilities and buildings that support mining operations, processing, maintenance, administration, and operational control. Enginuity consults on appropriate procurement strategies, including pre-engineered buildings, and delivers associated foundation design, utilities integration, and coordinated design and procurement work packages.

- Process buildings, including associated utilities and dust and fume mitigation systems
- Maintenance and mining operations facilities
- Geochemical assay laboratories (sample preparation, fusion, wet labs, and instrument rooms)
- Industrial buildings and plant support facilities
- Mine camps, administration buildings, and offices
- Brownfield building upgrades, expansions, and structural modifications



SITE-WIDE ANCILLARY & INFRASTRUCTURE

We design site-wide infrastructure systems that enable safe, reliable mining operations across remote and complex sites.

- Site plan development, including access roads, drainage, yards, and hardstands
- Foundations, retaining structures, and earthworks interfaces
- Power distribution systems, including substations, switchgear, and MCCs
- Water management and dewatering systems (raw, process, reclaim, ponds, and sumps)
- Waste Water Treatment Solutions
- Fire protection infrastructure (fire loops, pumps, tanks, and hydrants)
- Chemical reagent storage, distribution, and delivery systems



UNDERGROUND INFRASTRUCTURE

Enginuity supports underground mining infrastructure with engineering that integrates safely and efficiently with surface facilities, material handling systems, and site-wide utilities.

- Shaft ventilation, dewatering, and life-safety systems
- Underground services distribution (power, water, air, communications)
- Material handling systems and transfer points
- Hoisting & maintenance provisions
- Foundations, structural support systems, and surface tie-ins
- Shaft, portal, and adit surface interfaces



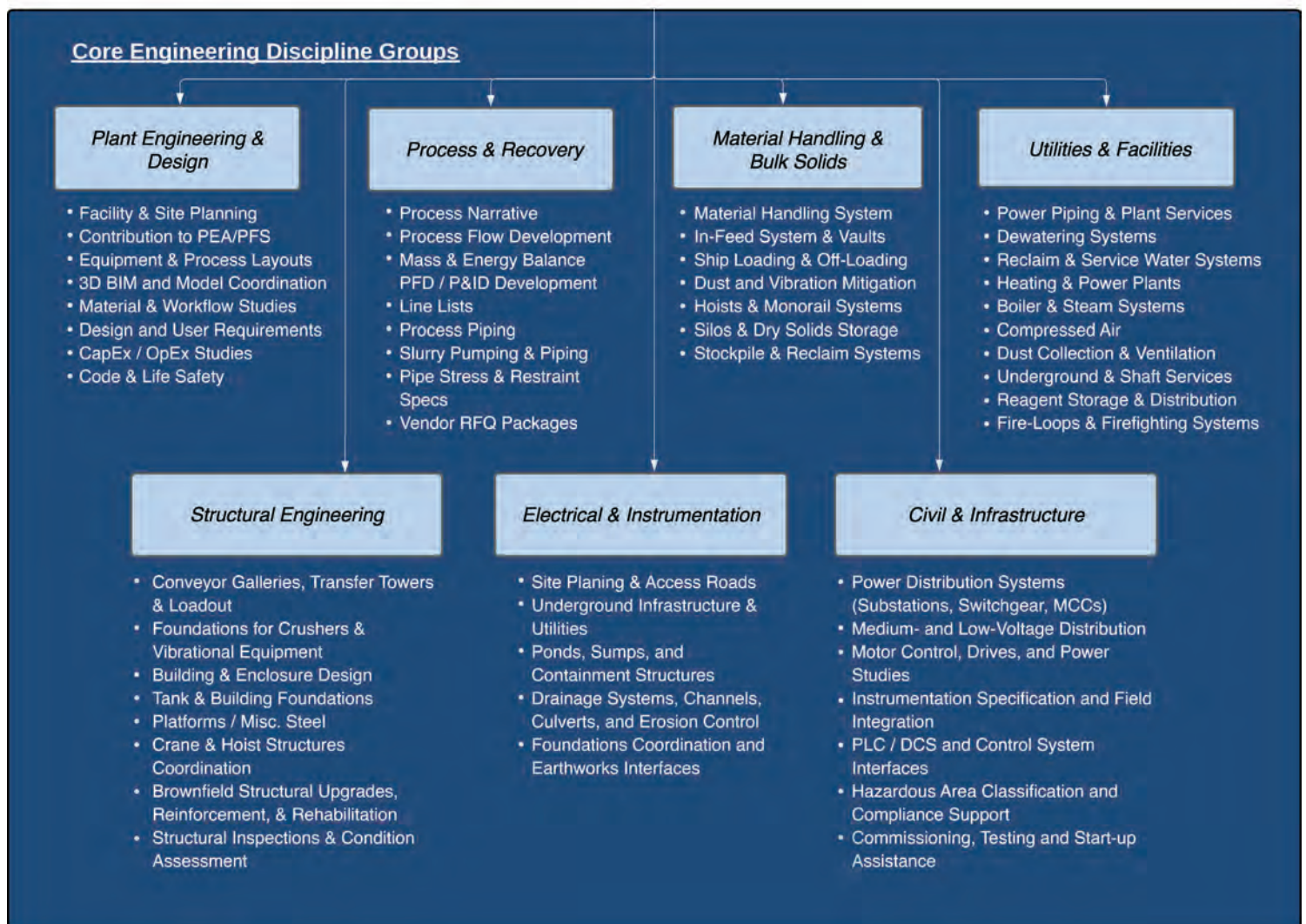
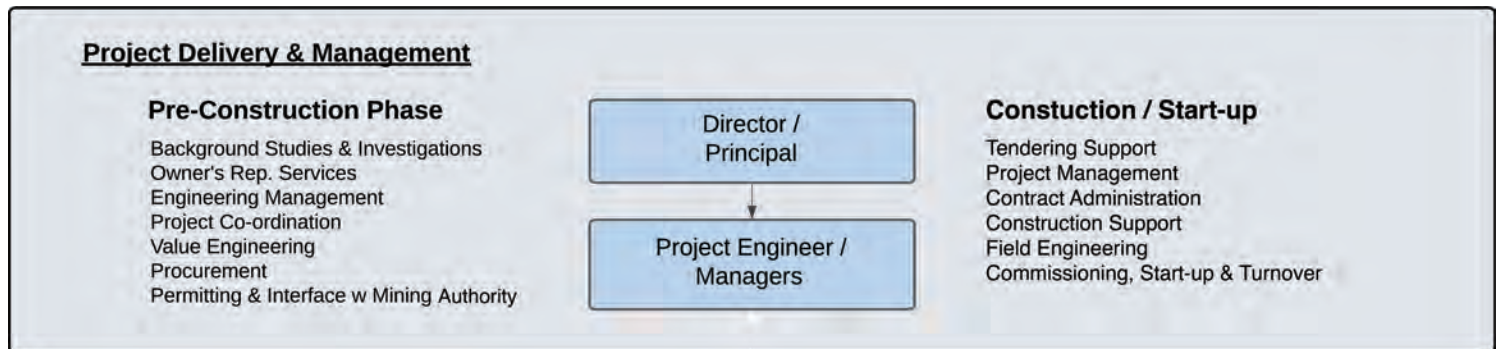
Sechelt Quarry, Sunshine Coast, BC



Integrated Engineering, Design, and Project Delivery Under One Roof



OUR SERVICE OFFERINGS AND TEAM BREAKDOWN



Reach out to us for additional service requests.

ENGINEUNITY

OUR PROJECTS THROUGH THE AMERICAS



Talk to us today!

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