

The Right Elements

Mining in the United States
Environmental Services



The right elements

We work alongside you at all stages — **exploration, planning, operations, and closure** — bringing together the right elements to protect, preserve, and propose what's best.



Exploration & Planning

Early Regulatory Strategy

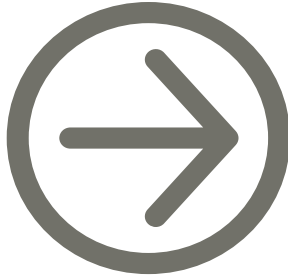
- Due diligence reviews
- Baseline technical studies
- Permitting support
- Permitting plans for feasibility analyses
- Environmental fatal flaw analysis
- NI 43101 reports
- Community engagement



Project Development

Regulatory Permitting and Approvals

- Regulatory strategy
- Project assessments (PEA, PFS, FS)
- Environmental assessments (EIA, ESIA, EA, EIS, EIR)
- Baseline characterization, monitoring, and technical studies
- Environmental permitting
 - NEPA and CEQA documents
 - Zoning and land-use management plan applications
 - Air pollution control permits
 - Stormwater management plans
 - Groundwater protection permits
 - Surface water discharge permits
 - Clean Water Act Sections 401, 402, and 404
 - Endangered Species Act
 - UIC permits
- Environmental management plans
- Water and waste management plans
- Closure remediation and reclamation plans
- Community engagement
- Cost estimates of reclamation, earthwork, revegetation, and closure processes for bonding
- Ecological and human health risk assessment
- Engineering and water design services



Experienced people, proven processes and a committed team



Operations

Monitoring & Compliance

- Environmental effects and compliance monitoring
- Environmental auditing services
- Progressive reclamation and monitoring
- Water and waste management
- Closure plan amendment and costing
- Assistance with permit renewals and modifications
- Assistance with responses to enforcement actions
- Guidance manuals and staff training documents for operational, pre-closure, and post-closure conditions
- Emergency response manuals and SPCC Plans



Closure

Reclamation & Closure

- Closure planning, scheduling, and cost estimation
- Reclamation design, implementation, and management
 - Erosion control
 - Seed mixes
 - Enhanced evaporation system
 - Cover
 - Water balance modeling and conveyance
 - Heap detoxification test work and process
 - Pit lake modeling and treatment
- Closure compliance approval and monitoring
- Water and waste management
- Site restoration
- Reclamation monitoring plans
- Fluid management for process solution facilities
- Infiltration modeling for covers and caps
- Groundwater monitoring and remediation
- Management of closure operations
- Calculation of incremental costs for remaining reclamation
- Preparation of bond release applications
- Assistance with agency negotiations and bond release presentations
- Failure modes effects analysis
- Closure research planning for soil amendment, revegetation, water treatability, cover effectiveness, and passive water treatment

Safety & Stantec

Our goal is to carry out our work with zero harm to people and the environment.

The way we treat our people, our clients, and our neighbors reflects who we are, what we believe in, and how we do our work. At Stantec, we believe in doing what is right. We are committed to providing and maintaining a healthy and safe workplace and to ensuring that our staff return home injury-free every day.

We recognize that our work involves risks, but we believe that we can address these risks if we manage them using a dynamic health and safety management system. Our senior leadership has pledged their accountability for our health and safety performance.

To achieve our goal, we take a proactive approach—regularly conducting audits and inspections, providing training, sending regular communications, and maintaining stringent hazard recognition and control. Further, Stantec has a formal quality management system in use across the organization that is registered to the ISO9001:2008 Quality Management standard.



Interested in learning more?

Connect with our community...

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