



# TAILINGS SERVICES FOR THE OIL SANDS

## SERVICES TO OIL SANDS OPERATIONS

SGS is the regional leader in the provision of independent field, laboratory and professional services for:

- Tailings pond technical
- Operational
- Maintenance
- Environmental needs

All operational work, sampling, testing and quantification of key parameters for extraction or tailings streams, and in-situ pond materials can be handled safely and effectively by our experienced team.

## SGS OIL SANDS OVERVIEW

SGS is the world's leading inspection, testing, verification and certification company.

SGS has been providing services to Fort McMurray and the province of Alberta for over 25 years. We have a long history of working closely with local companies to provide innovative services that will help improve the cost and time efficiency of your operations. We provide lab and field services tailored specifically to oil sands operations.

With offices in over 140 countries, most of the time SGS will be closer to your project and more in tune with local standards than anyone else. Our experts are hand-selected and trained based on their technical expertise as well as their business acumen, objectivity, ethics and confidentiality.

**SGS**

# ON SITE TECHNICAL TAILINGS SERVICES

## OPERATIONS SUPPORT SERVICES

Our operational support services include:

### Dredge Operations

- On-line density, flow rate, operating depth monitoring
- Downtime monitoring
- Volume and tonnage reporting

### Maintenance Support

- Line, barge and siphon relocations
- Extraction and pumping labour
- Ice breaking

## TECHNICAL SERVICES

Our technical services include:

- Fully equipped field lab trailers
- Specialized sampling vessels
- Specialized sampling tools
- Daily mudline and surface elevation monitoring and reporting
- Water-cap sampling, chemical analyses and reporting
- Professional engineering and geology staff registered with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA)
- Experienced field technologists and engineers

## PILOT SUPPORT SERVICES

Our pilot plant support services include:

- Experienced operators and foremen.
- Line relocation and assembly.
- Valve and pump maintenance.
- Weir-gate monitoring and maintenance.

Technical services, including:

- Flow-type characterization
- Slope angle monitoring
- Stream and deposit sampling
- On-line density and flow rate monitoring
- Deposit trafficability and in-situ strength testing



## COMPREHENSIVE POND CHARACTERIZATION PROGRAMS

- Delineation and mapping of mudline and pond bottom surfaces
- Generation of sampling profile
- Pond bottom coring and core logging
- In-situ chemistry and strength testing
- Volume determination
- Stratigraphic interpretation
- Modeling of key parameters
- Detailed technical reports required for internal and government reporting
- Special consulting services, including needs assessments and scope co-development with client, and technical presentations to clients, expert review boards and government

## BIRD AND WILDLIFE DETERRENCE SERVICES

We strive to protect the wildlife surrounding our operations by the:

- Procurement, assembly, deployment and ongoing monitoring and maintenance of scare cannons
- Construction, deployment and ongoing maintenance of floating scarecrow effigies
- Provision of full-time bird watch monitoring teams
- Provision of full-time bird rescue and retrieval teams

### SGS TAILINGS SERVICES OIL SANDS

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