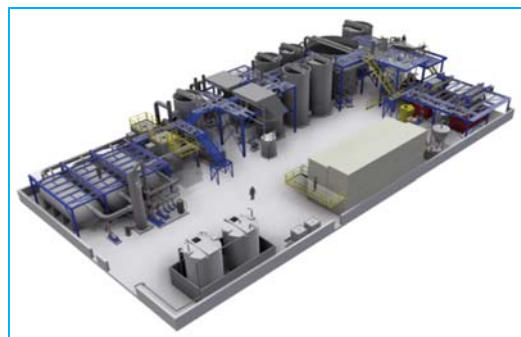


MINING WATER TREATMENT UNIT

DIAMOND MINE



WASTEWATER AND SLUDGE TREATMENT

LOCATION

Northern Quebec

COMMISSIONING

2016

DESCRIPTION

Physico-chemical process water treatment for a diamond mine located North of Chibougamau.

EQUIPMENT

- Grit removal system
- Physico-chemical preparation
- Coagulation-flocculation system
- Lamellar clarifier
- Fine filtration system
- Filter-press dewatering system
- Instrumentation & Controls

SERVICES

- Design
- Equipment supply
- Start-up
- Performance testing
- Operation monitoring
- Technical assistance

Parameter	Value	Unit
Average Daily Flow	8 012	m ³ /d
Maximum Daily Flow	14 040	m ³ /d
Minimum Hourly Flow	125	m ³ /h
Maximum Hourly Flow	545	m ³ /h
SS	Influent	100 mg/L
	Effluent	<6 mg/L

PHYSICO-CHEMICAL TREATMENT

- Number of clarifiers: 2
- Number of filters: 2
- Application: Prefab building

RBQ LICENCE: 2206-1089-23

MINING WATER TREATMENT UNIT

IRON MINE



WASTEWATER TREATMENT

LOCATION

Côte-Nord, Quebec

APPLICATION

Railway Depot

COMMISSIONING

2014

DESCRIPTION

Multi-phase treatment for O&G removal followed by a biological treatment for the removal of O&G, BOD₅, COD, NH₃-N, SS and TP.

EQUIPMENT

- Oil & Grease separator
- Vortex coalescer
- Buffer tank
- Suspended Media Biological Reactor SMBR™
1 bioreactor
- Prefab steel tank
- Dissolved Air Flotation (DAF)
- Sludge & Oil tanks

SERVICES

- Commissioning
- Operation
- Operation monitoring
- Technical assistance

Parameter		Value	Unit
Maximum Flow		55	m ³ /d
BOD₅	Influent	1 000	mg/L
	Effluent	25	mg/L
COD	Influent	2 400	mg/L
	Effluent	-	mg/L
SS	Influent	200	mg/L
	Effluent	25	mg/L
NH₃-N	Influent	80	mg/L
	Effluent	10	mg/L
TP	Influent	5,3	mg/L
	Effluent	1,0	mg/L

RBQ LICENCE: 2206-1089-23