Our solutions: a large portfolio of proven technologies

- Water recovery system from Acid Mine Drainage: ANDRO™
- High speed clarification & softening, Actisol®
- Enhanced clarification & softening for higher TSS waters: MultiFlow™
- Reverse Osmosis membranes for high water recovery: GemTec™
- Membrane filtration (Nano-, ultra- and nano-filtration, Reverse Osmosis (RO))
- High density sludge process: DemSettle™
- Ion exchange
- Disulfites: Hypersol™
- Water treatment chemicals: Hypso™
- Moving bed biodiskarctor biological treatment for mine effluent: AnodeCables™
- Merritt-Crowe clarification filters: Auto-Ile™ and Filtra-Matic™
- Zero Liquid Discharge (ZLD), HPO evaporators and crystallisers: Flexipure™ evaporators
- Adsorption process for the removal of heavy metals to an active media surface to minimize sludge and residuals: WaterMoo™
- Ion exchange: DemSettle™
- Mobile services for temporary or emergency water needs: Aquasource™
- Zero Liquid Waste (ZLW) solution creates a clean water resource and meets new discharge limits for TDS and chlorides
- Desalination for make up water and process water: Sea water Reverse Osmosis (SWRO) and Thermal Distillation (TID)
- Pipeline supply and conveyance

Veolia Water Solutions & Technologies, a subsidiary of Veolia Water, is a leading global provider of technological solutions and design-build services in water and wastewater treatment.

With mining projects around the globe and more than 190 years of experience, Veolia has the expertise to partner with you to meet sea water desalination, pipeline supply, mine water, process water or wastewater requirements. Combining solutions for performance (Service), resources recovery (Value) and environmental compliance (Responsibility), we provide a full range of services including engineering, project management, equipment, design-build, and long-term operations and maintenance.

Veolia Water Mining Centers

- Antony - France: +33 1 42 85 64 50
- Buenos Aires - Argentina: +54 11 4322 7961
- Chicago - USA: +1 888 606 2000
- Copenhagen - Denmark: +45 9909 0222
- Dayton - USA: +1 937 861 8000
- Johannesburg - South Africa: +27 11 663 3600
- Karlstad - Sweden: +46 50 157 542
- Krakow - Poland: +48 12 42 33 865
- Los Angeles - USA: +1 714 386 1000
- Mexico City - Mexico: +52 55 5966 6000 Ext. 100
- Pittsburgh - USA: +1 412 389 0600
- Santiago - Chile: +56 2 270 7000
- São Paulo - Brazil: +55 11 3888 8000
- Santiniólia - Finland: +358 207 440 400
- Seoul - Korea: +82 2 31 48 98 98
- Shanghai - China: +86 21 501 3288
- Singapore - Singapore: +65 67 23 75 30
- Sydney - Australia: +61 2 8271 0400
- Toronto - Canada: +1 905 286 4846

Creating Water Solutions for the Mining Industry

mining@veoliawater.com
www.vwmining.com
Creating water solutions for the mining industry

Veolia Water Solutions & Technologies specializes in potable water, process water and wastewater treatment solutions for all types of mining sites (such as gold, copper, nickel, bauxite, iron, coal, uranium, phosphate, potash, zinc and silver).

Meeting your needs

- To improve productivity by treating water for production process requirements
- To manage environmental risks by treating contaminated water to achieve water quality suitable for reuse or for safe discharge into the environment
- To add value for the bottom line by treating sludge streams to recover a stranded and closed looped constituents
- To secure high quality drinking water, even at remote mining sites
- To have robust and reliable equipment requiring minimal unplanned maintenance
- To cope with production peaks while complying with stringent regulations
- To guarantee long-term efficiency and costs through operations services

Dedicated experts at your service

Specialized expertise

We provide specialized water systems, thanks to our understanding of the unique requirements of mine operations and our worldwide expertise in mine water issues. Focusing on system performance, compliance with process and environmental requirements and long-term cost effectiveness, we are able to meet the most demanding reliability, safety and quality standards of the mining industry.

Service, Value, Responsibility

Value

Innovative solutions and technologies focused on water reuse, recovery of energy and valuable by-products

Sustainability

Partnering with clients to reduce environmental impact, optimize use of natural resources, and meet stringent regulations

Service

Customer-focused solutions delivered to tailor-made service and long-term relationships

A world of experience in the mining industry

- Desalting and drying
- Water Recovery and Reuse
- Slag discharge compliance
- Positive water balance control

- GOLDCORP MARLIN GOLD MINE
  - Guatemala
  - Design and procurement of a pyritic isolation and AMD mobilization plant for tailings impoundment
  - Capacity: 140 MTPA for tailing impoundment
  - Process: Activated carbon adsorption and hydrotreatment of gold

- ACID/ALKALINE MINE WATER (PENCALARCA)
  - Mine water control
  - Positive water balance control
  - Groundwater reclamation

- MERK, LLC
  - Pennsylvania, USA
  - Design and procure an AMD treatment plant for a coal mine
  - Capacity: 650 MTPA
  - Process: Denitrification, minimizing water recovery and minimizing sludge volume

- SOLUTIONS MINING and/or RECOVER Y
  - Product recovery and water reuse

- ENERGY RESOURCES OF AUSTRALIA (ERA)
  - Northern Territory, Australia
  - Equipment supply for treatment and reaeration of process water for an iron ore mine
  - Process: BAF process

- NORTH SOUTH MINING
  - Quebec, Canada
  - Temporary treatment system, operation and chemical supply of water for a tailing pond
  - Capacity: 40 MTPA for
  - Process: Activated carbon adsorption for TSS removal and iron (III) chemicals