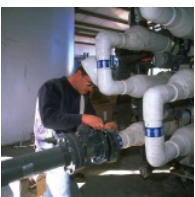
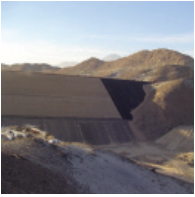


RESPONSIVE SERVICE AND KNOW-HOW FOR THE MINING INDUSTRY



MWH is one of the world's largest firms specializing in sustainable environmental, infrastructure, and energy services. We provide full-service consulting, engineering, and construction expertise for the global mining industry. Clients can access MWH through our local offices, with confidence in consistent, quality work products facilitated by our globally networked expertise. MWH and our staff implement projects in the safest manner possible, with the appreciation and practices in-place to maximize workplace safety and health. Our primary services for the mining industry are listed below.

Environmental Planning, Permitting and Compliance

- Sustainability planning and communication
- Land use, demographic and socioeconomic assessments
- Natural resource baseline studies (biological/water/air/soil/geology)
- Environmental assessments, environmental impact statements, and environmental and social impact assessments
- Environmental permitting (water/air/waste)
- Environmental plan preparation (water/air/waste)
- Closure plans
- Compliance and due diligence audits
- Engineered risk assessments
- Environmental monitoring and reporting
- Environmental management systems (ISO 14001 compliant)
- Information and database development/management
- Regulatory negotiations, expert testimony, stakeholder involvement

Ecological Services and Natural Resource Management

- Ecological baseline and impact studies
- Ecological monitoring
- Threatened and endangered species assessments and mitigation
- Natural & biological resource management plans
- Revegetation planning
- Agronomic evaluation and site characterization
- Land and resource management
- Wetlands delineation, management and mitigation
- Vegetation and hydrologic interactions
- Terrestrial and aquatic resources
- Fisheries and fish passages
- Ecological toxicology and risk assessments
- Ecological restoration
- Natural resource damage assessment support

Civil and Geotechnical Infrastructure Development

- Operations and mine plans
- Tailings storage facilities, dams and ancillary structures
- Slope depressurization and dewatering measures
- Leach pads
- Stockpiles
- Ponds and impoundments
- Liners and covers
- Erosion and sediment control
- Seismic evaluations
- Tunnels, channels and diversion/conveyance systems
- Buildings and mechanical systems
- Electrical engineering, instruments & controls and SCADA systems
- Roads, bridges and utilities

Mine Water Supply, Management and Treatment

- Water resource evaluation, development, storage and supply
- Watershed/aquifer catchment-based management and restoration
- Dewatering, impact prediction and management
- Managed aquifer recharge
- Well field design
- Water balance studies
- Hydraulic/hydrologic modeling and structures
- Stormwater management
- Water diversion and flood control
- Water and wastewater active/passive treatment
- Pumping, storage and pipeline transmission systems

Hydrogeological, Geochemical and Water Quality Services

- Groundwater and surface water characterization
- Hydrogeologic evaluations and groundwater modeling
- Dewatering evaluations
- Water quality monitoring and evaluations
- Fate and transport modeling and studies
- Geochemical modeling
- Acid rock drainage (ARD) prediction, monitoring and management
- Leachability studies
- Pit lake assessments

Mine Waste Management, Reclamation and Closure

- Mine waste management and containment systems
- Alternative disposal technologies
- Waste minimization and source reduction
- Reclamation and closure plans
- Site evaluations
- Feasibility and treatability studies
- Reclamation and landfill engineering
- Cover and liner systems
- Resource recovery
- Demolition and decommissioning
- Construction quality assurance and reporting
- Post-closure planning and redevelopment
- Site monitoring and reporting

Hydropower and Energy

- Hydropower planning
- Hydropower plants
- Dams and reservoirs
- Inlet/outlet structures, turbines and penstocks
- Dam safety services
- Dam rehabilitation
- Potential failure modes analysis
- High voltage switchyards and distribution management
- Federal Energy Regulatory Commission (FERC) licensing

Contaminated Site Remediation

- Surface and subsurface site investigations
- Human health and ecological risk assessments
- Remedial alternatives analysis
- Risk-based and natural attenuation approaches
- In-situ and ex-situ treatment systems
- Geochemical fixation
- Passive treatment systems
- Groundwater, soil and sediment remediation
- Remediation system design and construction
- Operation & maintenance and monitoring

MWH can bring large scale projects to successful completion with effective cost, schedule, and quality control systems that meet our client's demanding requirements and stand-up to regulatory scrutiny.



MWH

BUILDING A BETTER WORLD



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Washington
Bellevue
Seattle
Wisconsin
Madison
Milwaukee

MWH employs more than 6,000 scientists, engineers and constructors worldwide. Our staff understands operating practices, processes, and regulatory requirements associated with the mining industry.

At MWH, safety comes first! We have the processes in place to ensure the safest work practices possible and conformance with our client's safety and health programs.



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