

## WATER MANAGEMENT CONSULTANTS



WMC has worked worldwide on many types of energy projects related to oil and gas, coal, and uranium. Our expertise in groundwater and surface water hydrology assessments, environmental management and complex modeling development has allowed WMC to help resource development companies meet permitting requirement and operational water management goals.

### **Our services in Energy include:**

- ~ Baseline hydrology assessments
- ~ Regulatory support and compliance
- ~ Feasibility study support
- ~ Water Management of well field operations
- ~ Water resource and supply assessments
- ~ Groundwater evaluation for in-situ uranium production
- ~ Well field optimization
- ~ Coal mining operation support
- ~ Passive treatment and natural attenuation systems
- ~ Community development support
- ~ Database management and GIS
- ~ Reclamation and remediation
- ~ Water discharge engineering and permitting

### **Representative Projects**

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#### **Collom Pit Hydrologic Assessment, Colorado, US**

WMC conducted a hydrology and hydrogeology program at this proposed new open pit coal mine to obtain information for the pre-feasibility study and baseline environmental monitoring. Extensive field testing was conducted to define the site hydrogeology, design dewatering and slope depressurization measures and obtain information for a regional groundwater model. The model will be used to evaluate other potential mining targets in the area and to provide predictions of impacts for permitting.

#### **Skyline Mines Dewatering System Design and Cost Analysis, Utah, US**

WMC completed a dewatering preliminary engineering design and analysis for the Canyon Fuel Company. The report included a conceptual design for the dewatering system, a capital and operating cost estimate including cost per acre-foot to support discussions with the local stakeholders

#### **Major Oil Company (confidential client), India**

WMC is providing a detailed and comprehensive study of saline aquifers to develop a significant groundwater resource for the support of oil field pressure and oil recovery. The study has involved data collection, exploration drilling and testing, the characterisation of several formations including detailed geophysical information, hydrogeological conceptualisation and numerical resource modelling. These studies support an ongoing EIA submission considering the potential for impacts on shallow freshwater lenses of abstraction of deeper saline water.

#### **International Economic and Energy Consultants Ltd, Republic of Poland**

The Polish hard coal industry is undergoing restructuring and privatisation assisted by the World Bank and European Community. Water Management Consultants provided hydrogeology and desalination expertise to the study team. The existing situation was evaluated with respect to mine hydrogeology and disposal of saline water from the mines.

#### **Sierra Pacific Power Company, Nevada, US**

WMC completed a detailed analysis of the hydrologic conditions beneath the North Valmy Plant landfill. The report information was used to support the closure plan for state approval.