

Surface Water Capabilities



Western Australia's leading independent team with a proven track record in surface water/ hydrology, groundwater/ hydrogeology, auditing, contaminated land management and development projects. We combine reliable expertise with regulatory knowledge, delivering high quality output and performance on time and budget. We welcome technically challenging projects from commercial & government clients

Surface Water/ Hydrology:

- Crop water/ irrigation requirements
- Drainage systems
- Groundwater/ surface water interactions
- Infiltration/ recharge estimates
- Mine site water management
- Monitoring program design & implementation
- Nutrient & Irrigation Management Plans (NIMPs):
 - Land-use (Runoff/ infiltration factors, Soil properties/ Landforms)
 - Water resources (surface/ groundwater)
 - Land Management
 - Nutrient application
 - Drainage controls
 - Protection of surface water/ groundwater
 - Site monitoring & reporting
 - Contingency planning
- Open pit/ water/ dam evaporative loss
- Rainfall/runoff & Infiltration factors
- Salinity studies
- Surface water/runoff quality
- Urban Water Management Plans (UWMPs):
 - Small/priority catchments/ large scale
 - Planning approval/ design/ objectives
 - Site characteristics (Land use/ soil type/ properties/ Surface water flow/ Groundwater flow/ levels/ Contamination/ Acid Sulfate Soils/ Water Sustainability (Water balance/ Conservation (alternative water sources/ xeriscaping/ AAMGL/ Water use efficiency
 - Stormwater/ Surface Water Management (Surface water (numerical) modelling/ Flood protection (1in100 year ARI) level/ Frequent Rainfall Events (1in5 (to 1in1) year ARI rainfall)/ Retention mechanisms
 - Groundwater: (Groundwater (numerical) modelling/ AAMGLs/ Wetlands/ Groundwater Dependent Ecosystems (GDEs)/ Controlled gw level/drainage/ Bioretention/ riparian controls)
 - Subdivision management: (Dewatering management plans/ Acid Sulfate Soils)
 - Monitoring programs (design/ implementation)
- Water Balance: (Rainfall run-off/ Evapotranspiration loss/ Groundwater inflows/ outflows/ Storage change)

Acid Sulfate Soils (ASS):

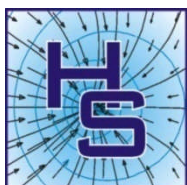
- Dewatering Management Plans
- (ASS) Management Plans (ASSMP)
- Investigation/ assessment
- Treatment options (soil/ surface water/ groundwater)
- Reporting

Groundwater/ Hydrogeology:

- Acid Rock Drainage (ARD)/ Acid sulfate soils (ASS)
- Aquifer Storage and Recovery/ Managed Aquifer Recharge (ASR/ MAR):
- Average Annual Maximum/Minimum Groundwater levels (AAMGLs)
- Dewatering investigation/ modelling/ implementation
- Exploration/ Investigation
- Groundwater Dependent Ecosystems (GDEs)
- Hydrochemical Analysis
- Feasibility studies: Mining/ Industrial/ residential
- Monitoring Programs
- Numerical Modelling studies
- Surface water/ groundwater interactions
- Tailings Dams
- Reporting
- Resource Evaluation

Also:

- Contaminated Site Audits
- Contaminated Land
- Geology\GIS
- Site Remediation



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