

GEOLOGY SERVICES

CAPABILITY STATEMENT



WE ARE MEC MINING

MEC Mining is a global technical consulting firm specialising in mining services capabilities across the project life cycle from early-stage exploration through feasibility studies, mine planning, onsite management to mine closure and rehabilitation.

Since 2005, MEC has grown into a leading consultancy firm with an experienced team of consultants specialising in both the open cut and underground coal and minerals sectors.

Through our teams' real-world experience, our people have an owner's point of view when executing a project.

We deliver high-quality work that enhances the value of our clients' assets and our experienced team bring a diverse range on knowledge to each project.

We proud ourselves of a flexible approach to all services and will gladly tailor our services to meet individual project or company requirements.

GEOLOGICAL SERVICES

We provide geological services, designed to get our clients the best value from their tenement land holding.

- ▶ Project evaluation
- ▶ Development of exploration strategies
- ▶ Program design, planning and budgeting
- ▶ Data compilations and target development
- ▶ Exploration database development and management
- ▶ Resources modelling and estimation, code compliant reporting and competent persons
- ▶ Project management and implementation
- ▶ Production geology for open pit and underground



ADDITIONAL SERVICES

MEC geology can also support exploration and field works in ensuring industry-standard health and safety systems/ documentation for your project, including:

- ▶ Exploration field services packages
 - ▶ Soil sampling crew
 - ▶ ATV
 - ▶ Logistical support
- ▶ Provision of cloud-based safety and quality management systems
- ▶ Procedural documentation
- ▶ Environmental, heritage application and approval
- ▶ Hydrogeology, assessments and modelling
- ▶ Compliance and audit

PROFICIENT SOFTWARE

- ▶ Mapinfo
- ▶ Surpac
- ▶ Leapfrog
- ▶ Vulcan
- ▶ QGIS
- ▶ Micromine
- ▶ IOGas
- ▶ Supervisor (Geo Stats)



MINERAL RESOURCE ESTIMATION

The MEC Mining Mineral Resource estimation group is comprised of consultants that are expert in data management, QA/QC, geostatistics, geological modelling, resource modelling, risk assessment, and report writing. MEC specialise in the delivery of Independent Technical Reports that can be reported to JORC, NI43-101, or similar standards. MEC understands the importance of timely delivery of the ITR for the client's business. The technical reports may be utilised inhouse, or used for external announcements, and be included within scoping, prefeasibility, or feasibility studies.

OUR MINERAL RESOURCE ESTIMATION SERVICES

- ▶ Review of data collection techniques
- ▶ QA/QC analysis and audits
- ▶ Statistical analysis and variography
- ▶ Grade estimation and validation
- ▶ Risk analysis
- ▶ Resource reporting and classification
- ▶ JORC and NI 43-101 compliance reporting

- ▶ Reconciliation studies
- ▶ Audits and fatal flaw studies

REVIEW DATA COLLECTION TECHNIQUES

- ▶ Data management procedures
- ▶ Design and implementation
- ▶ Data capture and transformations

QA/QC AUDITS

- ▶ Quality control protocols and assessment of analytical data including assay precision, assay bias, standards, blanks, recovery, specific gravity determinations, and survey data
- ▶ Risk analysis

STATISTICAL ANALYSIS

- ▶ Classical statistical analysis
- ▶ Geological cut-off grade determination and domain decisions
- ▶ Geological Interpretation
- ▶ Geological Modelling



GEOSTATISTICAL ANALYSIS

- ▶ Modelling anisotropy and variography

GRADE ESTIMATION AND VALIDATION

- ▶ Linear and Non-linear grade interpolation methods
- ▶ Mineral Resource estimation
- ▶ Block model validation

RESOURCE REPORTING AND CLASSIFICATION

- ▶ Mineral Resource classification
- ▶ Economic cut-off calculation
- ▶ Mineral Resource reporting
- ▶ Sensitivity analysis and grade tonnage analysis
- ▶ Mineral Resource reviews and audits

JORC AND NI 43-101 COMPLIANCE REPORTING

- ▶ Statutory reporting
- ▶ Technical advice Project Review
- ▶ Evaluation
- ▶ Design and review drilling programs and data density
- ▶ Mineral Resource estimation
- ▶ Site visits and lab visit performed by the CP/QP

RECONCILIATION STUDIES

- ▶ Reconciliation of Mineral Resource estimate with actual (mill)
- ▶ Reconciliation of grade control models with actual

PROJECTS



PROJECT: MCINTOSH, KIMBERLEY WA | COMMODITY: NI-CU-PGE

Early-stage green fields exploration management

Managing all aspects of exploration activities including holding statutory position with DMIRs, target generation, planning, budgeting, safety, permitting through to on ground exploration activities within the limited field season and identifying as CP in ASX releases.



PROJECT: LIVINGSTONE PROJECT, MURCHISON WA | COMMODITY: AU

Exploration management

Managing all aspects of exploration activities including holding statutory position with DMIRs, target generation, planning, budgeting, permitting, safety through to on ground exploration activities.



PROJECT: WEEBO PROJECT, GOLDFIELDS WA | COMMODITY: AU

Drill program management

Managing 5000m RC/AC program which included all on site safety, personal and logistical support.



PROJECT: LIVINGSTONE PROJECT, MURCHISON WA | COMMODITY: AU

Green fields exploration management

Managing all aspects of exploration activities from target generation, planning, budgeting, and permitting through to on ground exploration activities, with in the limited field season.



PROJECT: JAURDI HILLS, GOLDFIELD WA

Project review & exploration recommendations

Compilation and review of project data and recommendation during due diligence for project acquisition.



PROJECT: MCINTOSH, KIMBERLEY WA | COMMODITY: NI-CU-PGE


Exploration field services

Management and acquisition of 5200 high quality -2mm soil samples over rugged terrain utilising modern All-Terrain Vehicles (ATV's).

GLOBAL EXPERIENCE



GENERAL ENQUIRIES

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