





OPERATIONAL SINCE 2013

Environmental Scientists, Environmental Assessment Practitioners, Specialists,
Environmental Control Officers, Projects Managers, Legal Auditors and
Professional Engineers



MAIN DIVISIONS



Environmental



Construction



Engineering



Corporate
Environmental
Service



Mining and Geology

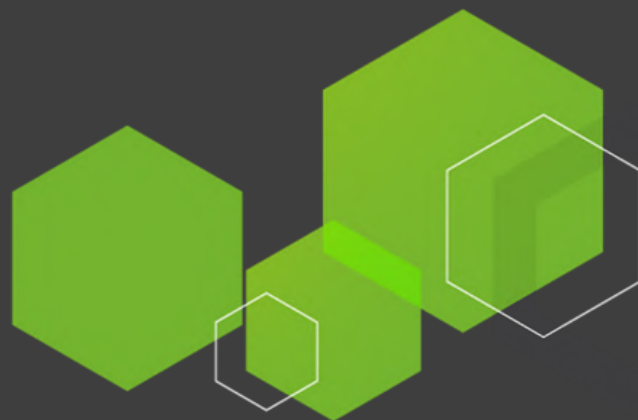


COUNTRIES OF EXPERIENCE



-
- Australia,
 - Belgium
 - Botswana,
 - Brazil,
 - Burkina Faso,
 - Colombia,
 - DRC,
 - Eswatini,
 - Ivory Coast,
 - Kenya,
 - Lesotho,
 - Liberia,
 - Libya,
 - Madagascar,
 - Mali,
 - Mauritius,
 - Namibia,
 - Oman,
 - Peru,
 - Portugal,
 - Mozambique
 - Republic of Congo,
 - Senegal,
 - Somalia,
 - South Africa,
 - Tanzania,
 - The Kingdom of Saudi Arabia,
 - United Kingdom,
 - United States of America,
 - Zambia,
 - Zimbabwe

PROFESSIONAL REGISTRATIONS & ASSOCIATIONS



Energy Permitting and Compliance

- Due Diligence and Project Feasibility
- Environmental Management
- Site Identification Services
- Environmental Registrations, Permitting and Compliance

Environmental Monitoring & Compliance



- Environmental Compliance Monitoring •
- Environmental Control Officers (ECOs) •
- Ecological Impact Assessments •
- Biodiversity Impact Assessments •
- Aquatic Ecology Assessments •
- SASS5 Biomonitoring •
- Wetland Assessments & Delineations •
- PES & EIS Determination •
- Scientific Wetland Buffer Determination •
- IHAS (Integrated Habitat Assessment Scoring) •
- Fish Response Assessment Index (FRAI) •
- Biodiversity Impact Assessments •
- Alien Invasive Species Management Plans •
- Terrestrial Ecology •
- Soils and Land Capability Impact Assessments •
- Environmental Audits •
- IWWMP (Integrated Water & Waste Management Plan) Updates •
- RSIP Updates (Rehabilitation Strategic Implementation Programme) •
- Water Conservation & Water Demand Management Plan Updates •

Tailings and Mine Waste Management

- Site evaluation and selection studies
- Feasibility studies
- Geotechnical and geohydrological site investigations
- Tailings deposition and consolidation modelling
- Mine waste and geochemical characterisation and evaluation
- Water balance and water conservation
- Dam review and inspection
- Dam rehabilitation, design and dam breach studies
- Construction monitoring and quality assurance and compliance
- Operational monitoring and instrumentation
- Closure and rehabilitation design





Environmental Authorisation Applications

- Basic Assessments (BA)
- Environmental Impact Assessments (EIA)
- General Authorisations (GA)
- Environmental Screening and Feasibility Assessments
- Environmental Site Assessments
- Environmental Risk & GAP Assessments
- Water Use Licence Applications (WULA) and Amendments
- Public Participation Process (PPP)
- Environmental Management Programmes & Plan Reports (EMPr)

Waste Management Facilities

- Tailings Storage Facility Design
- Engineer of Record
- Assistant Engineer of Record
- Waste Rock Facilities / Discard Dumps
- Embankment Dams / APP
- GISTM
- Dam Break Analysis
- Emergency Plans

Environmental Engineering

- Water Treatment / Passive Water Treatment
- Closure Designs
- Closure Audits
- Rehabilitation and Wetlands
- Water Balances
- AMD Strategies



Social Services

- Stakeholder Engagement & Public Consultation
- Social and Labour Plans
- Social Action Plans
- Social Engagement Plans
- Social Impact Assessments
- Environmental & Social Management System (ESMS) Development
- PS5 Statements
- Community Needs Assessments
- Stakeholder Mapping



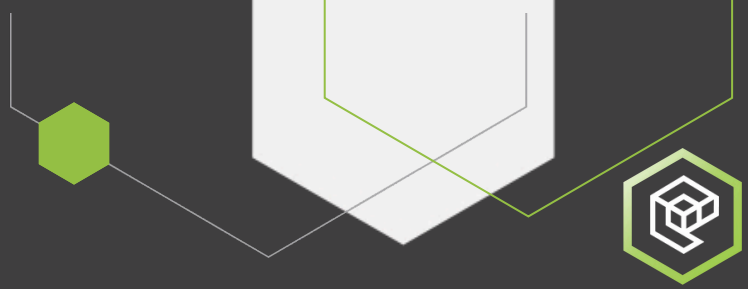
Geotechnical Engineering

- Geotechnical Investigations
- Slope Stabilities
- Seepage Analysis
- Foundation Designs

Construction

- Construction •
- Construction Costing / BoQ's •
- Site Supervision - QA/QC •
- Contracts •
- EPCM •
- PMO •





Mechanical and Electrical Engineering

- Slurry Transfer & Pumping Systems
- Water Management & Bulk Transfer Systems
- Dust Suppression, Fire Suppression & Evaporation Systems
- Water & Wastewater Treatment
- Dams and Hydrosystems
- Bulk Materials Transfer & Handling
- Industrial Design & Manufacturing
- Material Dewatering
- Underground Backfill Systems
- Lifting Equipment, HVAC for non-commercial spaces
- Electrical Control and Instrumentation
- Asset Management Services
- Project Integration & Management

Corporate Environmental

- Environmental Risk Management
- Operational Risk Mitigation
- Closure Planning, Regulatory Compliance
- Emergency Response Planning
- Environmental Sustainability
- Environmental Stewardship
- Climate Change Solutions
- Eco Feasibility Financial Solutions
- Eco-Footprint Management
- Environmental, Social and Governance (ESG) Solutions
- Environmental Footprint Analysis
- Public and Private Partnership (PPP) and Feasibility Studies
- Eco-Mitigations Management
- ISO Environmental Management Systems
- IFC Standards and Equator Principles



Civil Infrastructure

- Pump Stations
- Water / Pit Dewatering Pipelines Sewer
- Bridges
- Roads
- Concrete Structure
- Structural Integrity Management Systems (SIMS)
- Civils / Bulk Earthworks

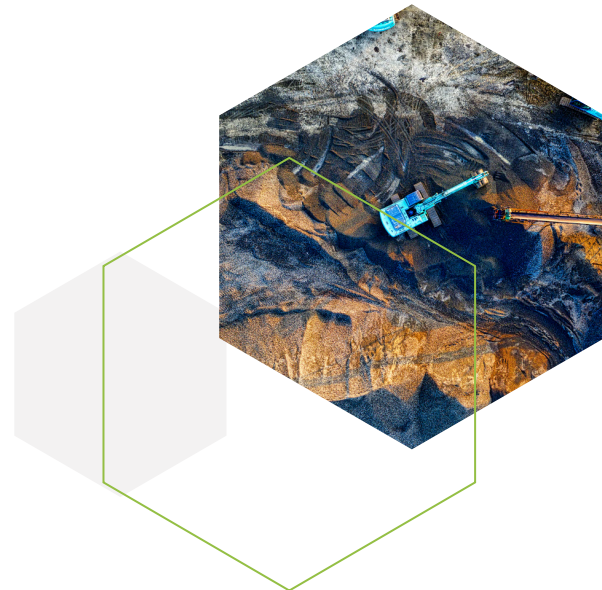


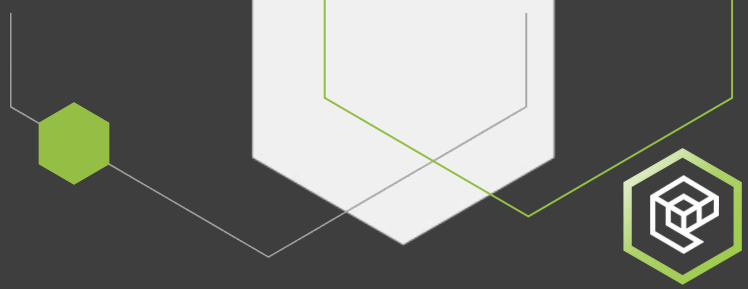
Storm Water Management

- PCD'S / RWD's •
- Stilt Retention Structures (SRT) •
- River Diversions •
- Floodlines •
- Draughting •

Scientific Services

- Air Quality Impacts
- Air Quality Compliance
- Atmospheric Emission Licences (AEL)
- Atmospheric Impact Report (AIR) and associated Atmospheric Dispersion Modelling
- National Atmospheric Emissions Reporting
- National Greenhouse Gases Emissions Reporting
- Emissions Compliance Reporting
- Pollution Trend Reports
- Major Upgrades Reports
- AEL Audits
- Air Quality Measurement Investigations
- Environmental Noise Impacts
- Design Acoustics Screening Studies
- Noise Measurement Investigations
- Visual Impacts
- Shadow Flicker Impacts
- Climate Change Impacts
- GIS and Mapping





International Organization for Standardization (ISO)

- Gap Analyses to identify deviations from ISO requirements.
- Customised Training to build internal competence.
- System Documentation Development, including policies, procedures, and manuals.
- Internal Audits for objective performance assessment.

We specialise in assisting businesses to align with and achieve certification in

- ISO 9001 (Quality Management Systems)
- ISO 14001 (Environmental Management Systems)
- ISO 45001 (Occupational Health & Safety)
- ISO 50001 (Energy Management Systems)

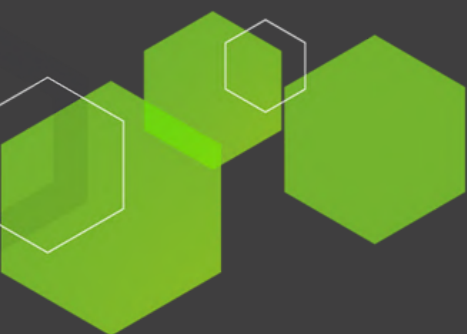
Management Systems

- ICMC Sustainable Mining Principles
- GRI Sustainability Reporting Standards
- Equator Principles for Project Finance Risk Management
- King IV Report on Corporate Governance
- Global G.A.P. for Good Agricultural Practices
- SIZA for Ethical Trade and Environmental Compliance



Geohydrology and Waste Classifications

- Geohydrological Impact Assessments
- Geohydrological Numerical Modelling
- Geohydrological Monitoring Programmes
- Waste Classifications & Risk Assessments
- Groundwater Supply
- Geophysics
- Hydrocensus
- Geochemical Analysis





+27 (0)12 807 0383

info@ecoe.co.za

www.ecoe.co.za

