

Urban Environmental Management Consulting Services



EARTH SYSTEMS
Environment | Water | Sustainability

CAPABILITIES

Developing and implementing environmental management and compliance programs in the urban environment. Our capabilities include conducting baseline and impact analyses for proposed projects and implementing construction-phase mitigation and monitoring programs as well as environmental awareness training for construction personnel and community stakeholders.

SERVICES PROVIDED

Key services provided by Earth Systems in this sector include:

- Environmental compliance project management, successfully negotiating projects through the regional, State and Commonwealth regulatory framework.
- Interagency consultation and permitting.
- Conducting environmental compliance monitoring, auditing and reporting according to approvals specifications.
- Conducting in-situ field monitoring for water quality parameters and sampling for laboratory analyses to assess potential impacts from construction and operations relative to applicable water quality guidelines and thresholds.
- Determining potential impacts from stormwater contaminant input into receiving waters and development of passive or active water treatment systems to avoid or minimize impacts.
- Assessing the potential for soil erosion and transport during construction and operations and recommending Best Practices for maintaining surface integrity and minimizing suspended sediments.
- Measuring applicable baseline and construction noise and conducting assessments relative to current standards and project commitments.
- Determining the extent of dust emissions generated from construction activity, modelling potential impacts on residential communities and recommending mitigation measures to minimize dust dispersion.
- Assessing site contamination, including geochemical analyses of soils, identification and quantification of heavy metals and hydrocarbons and developing management plans for testing, removing or remediating contaminated materials.
- Sustainability and resource efficiency advice.



- Working with traffic engineers to determine existing baseline traffic conditions, impacts of construction and Project operations on congestion and development of mitigation measures to limit or avoid added congestion.
- Conducting database queries and field surveys for terrestrial and aquatic flora and fauna and assessing potential impacts to threatened species or species otherwise protected under regional, State, or Commonwealth regulatory framework.



EXPERIENCE

Some examples of recent projects completed by Earth Systems include

- Preparation of Environmental Impact Statements and auditing and review of site environmental management systems and environmental and socioeconomic environment plans for development projects in Australia, Indonesia, Asia and Africa.
- Preparation of Environmental Management Plans for major mining projects, hydroelectric projects and landfill sites in Australia, Asia and Africa.
- Preparation of an Environmental Management Plan for a proposed private secure landfill near Melbourne Australia.
- Conducting site energy audits under AS/NZS 3598 and preparation of site or process-specific energy management plans.
- Groundwater quality study at a manufacturing site as part of a monitoring and environmental risk assessment program.
- Design of an investigation program and potential groundwater remediation strategies for a contaminated landfill site in Sydney, Australia.
- Consultation and stakeholder identification for major project delivery for numerous Environmental Assessments and Environmental Management Plans.

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