



Contract Water Treatment Services

Earth Systems provides contract water treatment services to assist clients in meeting their water quality objectives. Earth Systems' expertise in water chemistry and our understanding of water quality issues means that we can evaluate treatment requirements and provide site-specific contract treatment solutions for a wide range of water quality issues.

Water treatment and monitoring, whether they be routine or emergency response, are necessary at many sites for both water re-use and discharge. Achieving and monitoring the desired water quality outcomes can be difficult especially when the water chemistry involved is complex and in-house treatment expertise is not available, or limited.

Earth Systems understanding of water chemistry and its impact on water quality has enabled us to develop appropriate treatment responses to a wide range of water quality issues. Whether the treatment required is routine, one-off or for emergency response, Earth Systems can conduct treatment and monitor the outcomes using experienced personnel.

Earth Systems can:

- Evaluate and cost treatment requirements
- Conduct treatment to agreed water quality goals
- Provide verification that agreed treatment outcomes have been achieved
- Provide expert water quality monitoring and reporting

Our treatment services can be provided in any situation and on any basis, including:

- Short- or long-term treatment
- Routine or one-off supplemental water treatment
- Emergency response for discharge or re-use
- Stormwater and process water
- In-situ treatment of standing bodies of water, such as reservoirs, dams, pit lakes, and process ponds
- Treatment in response to plant breakdown or scheduled maintenance support

Earth Systems can provide site-specific contract treatment and monitoring solutions for clients across all sectors where there are specific water quality requirements for use, re-use, discharge, regulatory or environmental purposes.

Contract treatment provides an alternative to purchasing costly infrastructure, additional staffing and ongoing maintenance costs, thereby reducing the strain placed on in-house resources.



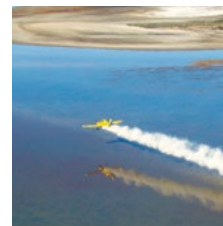
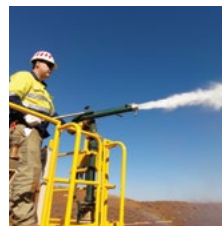
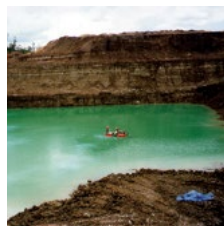
SERVICES PROVIDED

Earth Systems provides access to the expertise and equipment required to achieve a successful contract water treatment outcome.

- Pre-treatment site assessment – characterise water quality, assess relevant treatment options and reagent requirements, develop treatment plan and outline costs and achievable water quality outcomes.
- Treatment of the affected water body with suitable technologies and experienced professional staff.
- Post-treatment water quality monitoring and reporting.

PROJECT EXPERIENCE

- Contract treatment & monitoring of AMD-affected water bodies at mine sites including tailings storage facilities, process water dams, pit lakes and reservoirs.
- Contract treatment of turbidity in reservoirs, mine site dams.
- Contract treatment of acid sulfate soil impacted water bodies.
- Treatment of algal blooms and associated nutrient pollution.
- Emergency response treatment of accidental discharges.
- Acid neutralisation, demineralisation and odour control treatment programs on process water, storage impoundments and landfill leachate ponds.
- Treatment of process water for re-use / discharge.



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