



ACID SULFATE SOILS ASSESSMENT & MANAGEMENT

Acid sulfate soils are associated with the location of a property in relation to naturally occurring iron sulfides found in soils along the NSW coast and waterways.

Acid is generated when soils are exposed to air during excavations / soil disturbance that can damage new and existing building structures if left untreated.

Councils and other planning authorities are required to consider the potential for acid sulfate soils to exist on a property when assessing development applications, and usually advise of the requirement during pre-DA submission meetings.

Acid sulfate soils are assessed by field and laboratory testing to determine any requirement for treatment (if present).

Treatment involves neutralising the sulfides as soon as the soils are exposed to air to stop acid generation.

In our experience, where an assessment has been requested by council, approximately 20% of properties require treatment for acid sulfate soils.

Metech Consulting offer a full range of acid sulfate soils assessment and management services that can help you through the development application process and once development consent has been received.

Our Services

- ◆ **Technical advice** on solutions to your site-specific issues.
- ◆ **Design** of the acid sulfate soils assessment in consideration of the proposed development.
- ◆ **Assessment** using **field tests** which may conclude no potential acid sulfate soils and no requirement for further testing.
- ◆ **Assessment** using **laboratory testing** where the field tests identify potential acid sulfate soils and laboratory tests are required to confirm and determine the severity.
- ◆ Acid Sulfate Soils **Assessment Report** provides results of the field and laboratory testing and concludes whether management of the soils is required during the development.
- ◆ Acid Sulfate Soils **Management Plan** provides details of treatment method and dosage for identified acid sulfate soils.
- ◆ **Supervision** during treatment to confirm the treatment has been successful.
- ◆ **Offsite Disposal Options** when treated soils are surplus to property needs and removal is required.



Metech
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Our Projects:

- ◆ **In-ground swimming pool construction, Bundeena NSW:** Acid sulfate soils assessment which concluded that although potential acid sulfate soils were present at the site, they were located far enough below the depth of the proposed swimming pool and would not be disturbed by the works, allowing the development to proceed as proposed without treatment.
- ◆ **Waterfront residential development, Sylvania Waters NSW:** Preparation of Acid sulfate soils management plan when Council was unsatisfied with a previous consultant's plan. Council subsequently accepted Metech's plan, allowing the waterfront development to proceed as proposed.
- ◆ **Industrial development, Kurnell NSW:** Acid sulfate soils assessment which concluded no potential or actual acid sulfate soils were present at the site, allowing the development to proceed as proposed.
- ◆ **Townhouse residential development, Wyong NSW:** Acid sulfate soils assessment which concluded no potential or actual acid sulfate soils were present at the site, allowing the development to proceed as proposed.
- ◆ **Dual-occupancy residential redevelopment, Longueville NSW:** Acid sulfate soils assessment which concluded that the proposed works posed no risk of disturbance of any acid sulfate soils, allowing the development to proceed as proposed.



Metech Consulting comprises a team of industry-leading experts in the field of contaminated land, including Certified Environmental Practitioners (CEnvP) supported by our in-house NSW EPA-accredited Site Auditor, offering a full range of contamination assessment and management services.

We partner with industry-leading laboratories to ensure our clients receive the best value for money and compliance with applicable regulations and guidelines.

Our clients range from individuals, families and small business owners seeking development approval for construction / modification of residential properties, to property developers, councils, state government agencies (Transport for NSW, Rail Corporation NSW) and industrial corporations including Transurban, Bluescope and cBus.

For more information, please contact us:

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If you require further details regarding *Property Development, Waste Classification and Resource Recovery or Preliminary and Detailed Site Investigations*, please refer to our separate summaries.

For more information on how Metech Consulting can help you, please contact us to discuss further or to obtain a no obligation proposal.

