



TODD O'BRIEN

Project Environmental Scientist

Todd is a Project Environmental Scientist with experience working on contaminated land and civil infrastructure projects throughout Australia. Todd has experience in the assessment and protection of human health and ecological receptors with an inclination towards practical and cost effective remedial/management options.

In his work he has led and assisted in the delivery of projects from planning, management and fieldwork through to data analysis and report writing. Todd has worked with a range of clients and entities from the government sector, utility companies, mining corporations, large scale civil infrastructure firms, and residential development. He has a proven ability to work with clients and contractors to deliver practical and innovative solutions to meet project requirements.

SKILLSETS

Contaminated land assessment



Acid Sulfate Soils



Asbestos



Groundwater



Remediation



Auditing



MARKET SECTORS



Property



Construction



Government



Transport & Logistics



Industrial

CONTACT

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QUALIFICATIONS

2016 UNSW / Bachelor of Science (Earth Science)

2020 SafeWork NSW Licensed Asbestos Assessor

MAJOR PROJECTS

- South32 Cannington – Risk Assessment and Environmental Management
- Crude Oil Pipeline, Townsville – Environmental Assessment and Remediation
- WestConnex Stage 3B – Specific Resource Recovery Management
- Denmac Ford, Darra – Environmental Assessment and Remediation
- Sewage Treatment Plant, Kawana – Groundwater and acid sulfate soil management
- Lloyd Group, Canterbury South Public School – Remediation and validation

AFFILIATIONS

- Sydney Branch Committee Member, Australasian Land and Groundwater Association
- Member, Australasian College of Toxicology and Risk Assessment

EXPERIENCE

MINING AND INFRASTRUCTURE

- **Project Manager, South32 Cannington, Queensland.** Todd worked in collaboration with the site Environmental Advisors to deliver a detailed human health and ecological risk assessment following exceedances of the project Environmental Authority. The works included a detailed assessment of dust, soil and sediment, review of work practices and recommendations for improvement of site practices.
- **Approvals Manager (secondment), CGU JV, Sydney.** Todd oversaw the delivery of initial phase Construction Environmental Management Plans and associated sub plans for the M6 Stage 1 Project by CPB Ghella UGL Joint Venture. Works were completed on a full time secondment over the two month period, and included Project planning and working within a multidisciplinary team. Todd also assisted in the preparation and development of multiple Specific Resource Recovery Exemptions.
- **Project Manager, Queensland Rail Townsville, Queensland.** Todd managed the multi-phase investigation, assessment and remediation of a fractured crude oil pipeline in Northern Queensland. Works included liaison and assistance of Department of Environment and Science officers, sub-contractor engagement and site management.
- **Project Manager, Lloyd Group, New South Wales.** Todd managed assessment and remediation for the Canterbury South Public School redevelopment. Works included providing a statistical assessment of previous contamination datasets, and development of an efficient and pragmatic remediation strategy. Todd worked closely with the NSW EPA Site Auditor to ensure a streamlined methodology and delivery of the Project.
- **Project Manager, WestConnex Rozelle Interchange, New South Wales.** Todd completed a detailed assessment and management plan for Acid Sulfate Soils at the WestConnex Rozelle Interchange site. Todd directed a cost-effective remediation and treatment strategy, involving the preparation of a Specific Resource Recovery Exemption with the NSW EPA. The Specific Resource Recovery Exemption has allowed the beneficial re-use of up to 390,000 t of soils. Todd has provided ongoing auditing of the Resource Recovery program.
- **Project Manager, Kawana Sewage Treatment Plant, Queensland.** Todd was the project manager for assessment works during the upgrade of the Kawana Sewage Treatment Plant. Works included analysis of soil and groundwater conditions and development of an Acid Sulfate Soil Management Plan. Todd also completed hydrogeological analysis including aquifer testing and the preparation of a dewatering management plan.
- **Project Manager, Sibelco, Australia.** Todd was the project manager for vendor Due Diligence environmental site assessments at silica mines in New South Wales and Victoria. Works included site inspections, review of operations and the completion of intrusive soil and groundwater assessments.
- **Project Manager, New Hope Mining Group, Queensland.** Todd completed the Preliminary Site Investigation and technical review of previous reports at the former New Hope coal mine. The investigation was used to inform the site closure and rehabilitation program.
- **Project Co-ordinator, Ausgrid Various Sites, New South Wales.** Todd co-ordinated resourcing and sub-contractors for the investigation and remediation of asbestos contaminated Ausgrid assets throughout New South Wales. Works included ongoing monitoring and validation during the program.
- **Report assist, WestConnex St Peters Interchange, New South Wales.** Todd assisted in the preparation of a Human Health Gas Risk Assessment and Management Plan for the WestConnex St Peters Interchange Site. Works included the review of previous assessments and data analysis for the former landfill site.
- **Field/Report Lead, Acciona Sydney Light Rail, New South Wales.** Todd completed a detailed soil assessment at the Kingsford power substation for the Sydney Light Rail. The substation was constructed at a former landfill and required the delineation and remediation of heavy metal, PASS and PAH contamination.
- **Field Lead, Former Parramatta Gasworks Site, New South Wales.** Todd lead the field assessment of the former Parramatta gasworks as part of the Parramatta Light Rail enabling works. The assessment included a detailed soil investigation and delineation of coal tar impacted soils.
- **Field manager, Novo-rail Ourimbah, New South Wales.** Todd acted as the field manager during possession works for the northern rail upgrade. Works included noise monitoring, and monitoring of groundwater characteristics during piling works to ensure compliance with the EPL.
- **Field lead, Endeavour Energy Casula, New South Wales.** Todd completed air monitoring and oversaw the validation program during the upgrade of Endeavour Energy substation at Casula. Works included supervision of sub-contractors, and ensuring compliance with the Asbestos Removal Control Plan

PROPERTY DEVELOPMENT

- **Project Manager, Highfields Port Macquarie, New South Wales.** Todd managed the contaminated land investigation required for a State Significant tertiary education development at Port Macquarie. The investigation included a Risk Assessment of naturally elevated concentrations of heavy metals in soils.

- **Project Manager, Fulton Hogan, Northern Territory.** Todd was the Project Manager for a Due Diligence Environmental Site Assessment for divestment of a former bitumen and emulsion plant. Works included providing advice on the suitability of the site for ongoing industrial land use and identifying any potential financial risks.
- **Project Manager, Goodman Property, New South Wales.** Todd has been the project manager and field lead for multiple Due Diligence Environmental Site Assessments to inform Goodman prior to potential purchase of site's. Works required a comprehensive assessment of financial risks and site suitability during expedited due diligence time frames.
- **Project Manager, Colliers, Banksmeadow, New South Wales.** Todd was the Project Manager for a pre purchase Due Diligence Site Assessment in the Banksmeadow Environmental Management Zone. The assessment included a review of previous risk assessments, and collection of new site data to quantify potential risk associated with the site.
- **Project Manager, Zhengde Redfern, New South Wales.** Todd was the project manager and field lead for the Detailed Site Investigation of a former service station proposed for redevelopment as a commercial hotel. The investigation was audited by a NSW EPA accredited Site Auditor, and required the development and implementation of a Remedial Action Plan.
- **Project Manager, Residential Redevelopment – Carina, Queensland.** Todd managed the Detailed Site Investigation of a proposed residential development adjacent a former council landfill. Works included a review of previous investigations, site inspection, installation of a landfill gas monitoring network and management of the ongoing monitoring program. Todd completed the Construction Environmental Management Plan for the project.
- **Independent Review/Report Lead, Residential redevelopment, New South Wales.** Todd provided a technical peer review and analysis of independent third-party assessments related to a former slaughterhouse. The review identified PFAS, hydrocarbon, heavy metal and asbestos contamination, and required a review and update of remedial methodology.
- **Field Lead, Former Strathfield Fire Station, New South Wales.** Todd was the field lead for the assessment the former Strathfield fire station. The site was proposed for medium density residential development and required an assessment of soil and groundwater for PFAS and other Contaminants of Potential Concern.

CONTAMINATED LAND AUDITING

- **Auditor Assistant, St Anthony Padua Catholic School, Austral, New South Wales.** Todd was the lead auditor assistant for the statutory Contaminated Site Audit of a State Significant Development. Works included undertaking site inspections, review of previous reports, identification of data gaps, and review of an updated Remediation Action Plan.
- **Auditor Assistant, Richard Johnson Anglican School, Marsden Park, New South Wales.** Todd was the lead auditor assistant for this statutory Contaminated Site Audit. Works included undertaking site inspection, review of previous reports and site validation and assisting in the preparation of a Site Audit Report.
- **Auditor Assistant, Bankstown North Public School, New South Wales.** Todd was the lead auditor assistant for the statutory Contaminated Site Audit of a State Significant Development. Works included undertaking site inspections, review of previous reports, identification of data gaps, and review of an updated Remediation Action Plan.
- **Auditor Assistant, Kayrouz Development Kogarah, New South Wales.** Todd was the lead auditor assistant for this statutory Contaminated Site Audit. Works included review of previous reports and site validation and assisting in the preparation of a Site Audit Report.
- **Auditor Assistant, Residential Development, Dural, New South Wales.** Todd was the lead auditor assistant for this non-statutory Contaminated Site Audit. The site is proposed for low density residential development of a former landfill, and has included a detailed review of previous investigations, characterisation of risk, and assessment of potential remediation/mitigation measures.
- **Auditor Assistant, West Village Parramatta, New South Wales.** Todd was the lead assistant for the NSW EPA Site Auditor for a State Significant residential development in Parramatta. Todd's role included undertaking site inspections, reviewing independent third-party investigations, and development of a conceptual site model to evaluate potential contamination issues at the site.
- **Auditor Assistant, Amberley Defence Base, Queensland.** Todd assisted in the independent technical review of investigations and risk assessments related to potential PFAS contamination at the Amberley Defence Base.

CONTAMINATED LAND

- **Project Manager, Creative Solutions Salisbury, Queensland.** Todd was the project manager for the assessment and management at a former electrical transformer manufacturing site. Works included field sampling, reporting and ongoing monitoring in accordance with the Site Environmental Management Plan.
- **Project Manager, Cemetery Sydney, New South Wales.** Todd was the field lead for multiple investigations at an operational cemetery in Sydney that was developed on and adjacent the former Bunnerong Coal Power Station and Ampol Oil Refinery. Investigations have included soil and groundwater assessments, human health and ecological risk assessment and supervision of remediation works.
- **Project Manager, Cleanaway Blacktown, New South Wales.** Todd was the project manager for an end of lease Due Diligence Environmental Site Assessment at the Cleanaway glass recycling facility in Blacktown. Works included a review of site practices and investigation of Areas of Environmental Concern for potential soil and groundwater contamination.
- **Project Manager, Coles Express Kedron, Queensland.** Todd was the project manager for a Detailed Site Investigation at the Coles Express Kedron service station. The project required an investigation of soil and groundwater while the site was still operational as a service station. Works included sub-contractor management, health and safety planning and intrusive field sampling.
- **Project Manager, Denmac Ford Darra, Queensland.** Todd was the project manager for a statutory audited Phase 1 through to Phase 4 assessment at a former car servicing site. The investigation identified waste oil contaminated soil and ammonia contamination in groundwater. Todd managed the remediation of contaminated soils and implementation of the Remediation Action Plan. He also completed aquifer testing and fate and transport modelling for the ammonia contaminated groundwater.
- **Field/Report Lead, Waterway Constructions Parramatta, New South Wales.** Todd was the field and reporting lead for the assessment of acid sulfate soils and sediments during Parramatta Wharf upgrades. Works included the development of a management plan and validation sampling following treatment via onsite liming.
- **Project Manager, Gold Coast Council, Queensland.** Todd was the project manager for the installation and upgrade of the landfill gas monitoring network for five operational landfills for the Gold Coast City Council. Works included client liaison, sub-contractor management and permit applications.

POSITION SUMMARY

● August 2019 – Present	Project Environmental Scientist	Epic Environmental Pty Ltd
● March 2019 – August 2019	Project Environmental Scientist	Alliance Geotechnical
● April 2018 – March 2019	Project Environmental Scientist	Environmental Earth Sciences
● December 2017 – April 2018	Project Co-ordinator/ Environmental Consultant	ADE Consulting Group