

## ACLCA SA SHORT COURSE

# Conceptual Site Model Fundamentals Presented by Industry Specialists Thursday 23 September 2021

### Synopsis

This half-day Conceptual Site Model Fundamentals class is aimed at **emerging professionals** and is presented by **Mark Chapman**, Technical Director – Risk Assessor with AECOM, **Melinda Morris** Principal Adviser with the EPA and **Belinda Goldsworthy** – Ecological Risk Assessor at AECOM.

A Conceptual Site Model (CSM) provides the framework for identifying sources of contamination, contaminant migration pathways, receptors and exposure mechanisms. The NEPM highlights that the CSM is not a static report or diagram, but an iterative tool for understanding, guiding, and explaining site conditions and risks. It forms the basis for the linkage between Detailed Site Investigations and site-specific risk assessment. The complexity of the CSM should correspond to the scale and complexity of the known or potential contamination impacts and provide a roadmap to understand how best to identify key data gaps, prioritise additional works and assess risks that may require management or mitigation.

The course covers the essential elements of a CSM:

- known and potential sources of contamination and contaminants of concern including the mechanism(s) of contamination
- potentially affected media
- understanding that the physico-chemical properties of different contaminants (e.g. their solubility, mobility, biodegradability, volatility) influence their behaviour in the environment and therefore how we best investigate them
- understanding human and ecological receptors (both on- and off-site)
- potential and complete exposure pathways (both on- and off-site, including preferential pathways).
- an introduction to site specific health and ecological risk assessments

CSMs should take into account:

- how representative the available data is
- the potential sources of variability and uncertainty and their relative significance
- how important the identified data gaps are to the objectives and reliability of the site assessment

Case studies presenting the iterative nature of assessment and CSM refinement for common contamination scenarios will be presented to demonstrate the applied fundamentals.

### Our Presenters

**Mark Chapman** is an Environmental Risk Assessor and Technical Director at AECOM Australia and has over 23 years' experience in site contamination consulting specialising in risk assessment, vapour assessment and remediation.

**Melinda Morris** is a Principal Hydrogeologist and Certified Practitioner (Site Contamination) with over 25 years' experience in site contamination. She currently leads the Orphan Site Team (OST) in the Site Contamination Branch of the South Australian Environment Protection Authority.

**Belinda Goldsworthy** is a risk assessor at AECOM Australia and has over 17 years' experience in the contaminated sites industry specialising in human health and ecological risk assessments. Belinda has provided risk assessment training for the Australian Government, regulators, industry and environmental consultants.

### Details

Time: 8:15am for 8:30am start – until 12:30pm  
Venue: Adelaide Pavilion  
Cnr South Terrace & Peacock Road

### Cost\*:

Member:	\$400
Non-Practising attendees:	\$400
Non-Member:	\$600
Student:	\$200

*\*Includes morning tea and any printed course material.*

### To register

Submit the Registration form to [sa@aclca.org.au](mailto:sa@aclca.org.au) by 9 September 2021.

*Once the form has been received a tax invoice will be issued for payment. Payment to be made before attending. All registrations are taken as confirmed, unless cancelled by the above date. No refunds will be given thereafter although a substitute will be accepted.*

# REGISTRATION FORM – ACLCA SA SHORT COURSE

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<b>COST:</b>	\$400.00 per person \$400.00 per person	ACLCA Members Non-Practicing Attendees (EPA, Local Government, Planning, Health etc.)
	\$600.00 per person	Non-ACLCA Members (Consultants & Practitioners)
	\$200.00 per person	Student (ID to be provided)

Note: ACLCA is not registered for GST

Registration Details:		
Name of Company/Person making booking:		
Address:		
Contact Details:		
Name of Attendee(s)	Email address	Phone number
Amount Payable:		
No of attendees:	@	Cost (\$) (no GST)
	<input type="checkbox"/> \$ 400 (ACLCA Members) <input type="checkbox"/> \$ 400 (non-practising attendees) <input type="checkbox"/> \$ 600 (non ACLCA members) <input type="checkbox"/> \$ 200 (student)	
<b>Total Payable:</b>		
Payment Details: <b>NO CREDIT CARD PAYMENTS!</b>		
<input type="checkbox"/> EFT (only option)	EFT reference - "Company Name" Bank: Bendigo Bank BSB: 633-000 Account number: 171813751	
<b>Email form to <a href="mailto:sa@aclca.com.au">sa@aclca.com.au</a></b> <b>Payment due by 9 September 2021</b>		

*Are you a member of a professional association? This course is likely to be valid for CPD points (or similar).*