



Mark Milevski

Materials Testing Specialist – Heritage Services

A geomaterials scientist with a special interest in heritage conservation; education background in geology, geophysics and earth sciences; a skilled materials testing specialist with experience across a range of prominent architectural projects.

CONTACT

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ABOUT

Mark Milevski is a geomaterials scientist with an interest in heritage and conservation. He has a Bachelor of Science (Geology, Geophysics and Applied Geology) from the University of Adelaide and a Certificate II in Construction.

Mark has been with Stone Initiatives since 2014, and enjoys being a part of “breathing new life” into heritage buildings so that they can have a second chance. Outside of work, you’ll find Mark embracing the outdoors through camping, surfing or hiking.

RELEVANT INDUSTRY EXPERIENCE

2014 – Present

Stone Initiatives & Materials Testing Group

Materials Testing Specialist – Heritage Services

Responsibilities include:

- Performing physical material testing to ISO/IEC 17025 quality requirements.
- Specialised testing in heritage projects.
- Providing guidance to laboratory personnel in areas of special interest.
- Specialised testing across a range of facade/engineering projects.
- Project management, including task delegation, material testing and comprehensive reporting.
- Consulting with clients and providing detailed explanation of test results.

EDUCATION AND TRAINING

2012 – 2015

The University of Adelaide

Bachelor of Science in Geology, Geophysics and Applied Geology – electives taken in environmental and earth sciences

2015

Access Training Centre

Certificate II in construction (White Card)

LANGUAGES

English (first language)

Russian (fluent)

PUBLISHED WORK

M. Milevski, *Rising damp and salt attack: Effects and solutions*, Stone Initiatives website, March 2023.

M. Milevski, *How has heritage conservation evolved?*, Stone Initiatives website, October 2023.

CONSULTANCY HIGHLIGHTS

Currency Creek Railway Bridge

(Currency Creek SA, 2023)

Project description: Heritage restoration and maintenance works on the historic SteamRanger Railway line.

Responsibilities: Stone identification and replacement recommendations, mortar compositional analysis, cleaning methodology development, internal pier structure investigation and heritage consulting.

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Adelaide Parliament House – Cleaning and Restoration (Adelaide, SA, 2023)

Project description: Facade cleaning and heritage restoration works.

Responsibilities: Mortar compositional analysis, cleaning methodology development, stone repair recommendations and heritage consulting.

Cape Moreton Lighthouse – Heritage Works (Moreton Island, QLD, 2023)

Project description: Restoration and maintenance works of a historic lighthouse.

Responsibilities: Moisture and salt surveys, mortar compositional analysis, stone repair/replacement recommendations and heritage consulting.



Cape Northumberland Lighthouse – Heritage Works (Port MacDonnell, SA, 2023)

Project description: Restoration and maintenance works of a historic lighthouse.

Responsibilities: Moisture survey, salt survey, mortar compositional analysis, stone repair/replacement recommendations and heritage consulting.

Althorpe Island Lighthouse – Heritage Works (Althorpe Island, SA, 2023)

Project description: Restoration and maintenance works of a historic lighthouse.

Responsibilities: Moisture survey, salt survey, mortar compositional analysis, stone replacement recommendations and heritage consulting.

Old Stock Exchange Building (Science Exchange) – Adelaide South Australia (Adelaide, SA, 2023)

Project description: Investigation into basement damp issues in preparation for restoration.

Responsibilities: Moisture survey, salt survey, mortar compositional analysis, stormwater discharge mapping and heritage consulting.

Fremantle Prison – Significant Prison Cell Murals (Fremantle WA, 2023)

Project description: Conservation of significant murals within Fremantle Prison.

Responsibilities: Moisture survey, salt survey, mortar compositional analysis and heritage consulting.

Angas Flour Mill – Strathalbyn South Australia (Strathalbyn SA, 2022)

Project description: Restoration and redevelopment of a historic flour mill.

Responsibilities: Moisture survey, salt survey, mortar compositional analysis, stone replacement recommendations and heritage consulting.



West Terrace Cemetery – Significant Heritage Monuments (Adelaide, SA, 2022)

Project description: Cleaning of monuments with significant heritage value.

Responsibilities: Cleaning method trials to develop a suitable cleaning method for sensitive features.

St James Church (Brighton, Vic, 2020–2022)

Project description: Restoration of heritage Catholic church.

Responsibilities: Mortar compositional analysis and heritage consulting.

Port Pirie Former Railway Station, Customs House and Watch House (Port Pirie, SA, 2022)

Project description: Salt damp survey.

Responsibilities: Moisture survey of external walls and heritage consulting.

Glenelg Town Hall (Glenelg, SA, 2021–2022)

Project description: Restoration of the hall.

Responsibilities: Investigation into recent repair failure, moisture and condition survey, and heritage consulting.

Moonta Mines National Heritage Project (Moonta, SA, 2021–2022)

Project description: Restoration of heritage copper mine site.

Responsibilities: Mortar compositional analysis and heritage consulting.



Osborne Naval Shipbuilding Precinct (Port Adelaide, SA, 2018–2021)

Project description: Construction site for new naval shipbuilding precinct.

Responsibilities: Slip resistance testing of concrete surface finishes.

King William Street ramp; North Terrace Slate Pedestrian Paving (Adelaide, SA, 2020)

Project description: Installed Mintaro slate pavers along pedestrian walkways of King William Street and North Terrace in the Adelaide CBD.

Responsibilities: Overseeing condition survey of installed pavers.

Shrine of Remembrance (Melbourne, Vic, 2020)

Project description: Restoration and maintenance.

Responsibilities: Mortar compositional analysis and heritage consulting.

South Australian Maritime Museum

(Port Adelaide, SA, 2020)

Project description: Investigation into damp issues in wooden floorboards.

Responsibilities: Overseeing investigation and survey of damp in timber flooring.

Adelaide Supreme Court (Adelaide, SA, 2020)

Project description: Cleaning trials on sensitive sandstone ashlar.

Responsibilities: Overseeing cleaning trials and investigating effect on masonry.

Smyth Chapel (Adelaide, SA, 2018–2020)

Project description: Restoration of the Smyth Chapel located in the West Terrace Cemetery. Responsibilities: Assisting in the analysis of all masonry elements (stone, paving and mortar), surveying the masonry walls for moisture and salts. Investigation into replacement stone for gargoyle reproduction.



King William Street and North Terrace Re-grouting Project (Adelaide, SA, 2020)

Project description: Survey and record discontinuities in the condition of the existing Mintaro Slate paving.

Responsibilities: Assisting in the development and execution of a survey of each individual Mintaro Slate paver on King William Street and North Terrace (approx. 8,500 square meters of paving).

Gawler Place Upgrade (Adelaide, SA, 2019)

Project description: Granite and concrete pavers of various formats installed in Gawler Place shared pedestrian/vehicular trafficked areas.

Responsibilities: Overseeing condition survey of installed pavers.

Adelaide Festival Square Upgrade (Adelaide, SA, 2019)

Project description: Various natural stone paver types installed in public areas of the new Adelaide Festival Square development.

Responsibilities: Evaluation of various stone types proposed for use as pavers. Overseeing testing of stone finishes.

Old Adelaide Gaol Remand Wing

(Adelaide, SA, 2018)

Project description: Restoration and maintenance of the historic remand wing.

Responsibilities: Moisture survey, salt distribution survey, mortar compositional analysis and heritage consulting.

South Australian State Herbarium

(Adelaide, SA, 2018)

Project description: Investigation into rising damp issues within the lower levels of the State Herbarium.

Responsibilities: Moisture survey, salt distribution survey, paint analysis and concrete analysis.

Marble Hill Redevelopment

(Adelaide, SA, 2014–2018)

Project description: Rebuilding and restoration of the Marble Hill Manor.

Responsibilities: Assisting in the development and installation of RMV pins to allow long-term monitoring of moisture levels within the masonry.



Flinders Medical Centre Carpark

(Adelaide, SA, 2017–2018)

Project description: Construction of a new carpark at Flinders Medical Centre.

Responsibilities: Assessing slip resistance of surface finishes within the carpark and assisting in the selection of remediation surface finishes in problem areas.

Kapunda Mine (Kapunda, SA, 2017)

Project description: Restoration of heritage copper mine site.

Responsibilities: Stone, sand and mortar analysis, and heritage consulting.

Ayers House (Adelaide, SA, 2016)

Project description: Investigation into internal and external damp related issues.

Responsibilities: Moisture survey, salt distribution survey and mortar composition analysis.

Supreme Court Building (Canberra, ACT, 2016)

Project description: Survey of marble panel external cladding.

Responsibilities: Assisting in the survey of the external marble cladding and determining the extent of warping and distribution of de-bonded panels.

Warders Cottages Fremantle

(Fremantle, WA, 2016)

Project description: Heritage restoration of the historical Fremantle Prison Warders' Cottages.

Responsibilities: Assisting in the survey of salt damp and decay within the internal walls, sampling masonry to determine salt content, development of a remediation plan.



Elizabeth Quay Development

(Elizabeth Quay, WA, 2015)

Project description: Various natural stone paver types installed in public areas of the new Elizabeth Quay development.

Responsibilities: Evaluation of various stone types proposed for use as pavers. Overseeing testing of stone finishes.

Austral Black Quarry – GECA Certification

(Black Hill, SA, 2014)

Project description: Melocco Stone became the first company to achieve GECA (Good Environmental Choice Australia) certification for the hard surfacing standard.

Responsibilities: Assisting Melocco Stone in document and test certificate preparation to achieve and Australia first GECA certification on South Australian Austral Black Granite.