Australian Government
Asbestos Safety and Eradication Agency

# Asbestos cement roof hotspots study

The asbestos cement roof hotspots project was commissioned to better understand the residential asbestos cement roofing legacy.

We tested and validated a mixed methods approach, combining urban analytics, high-resolution imagery, and machine learning to detect asbestos cement roofing in specific study localities.

Analytics allowed for the entire of Australia to be scanned (at the Statistical Area 2 or SA2 level), to rank localities for the predicted presence of ACMs anywhere in the home and the potential for disturbance, based on various socio-economic and property development factors.



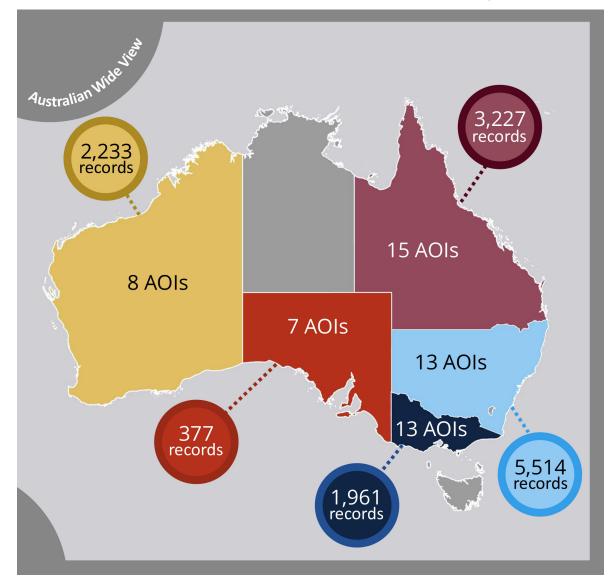
Asbestos National Strategic Plan

Implementation 2019–23

### Coverage



In this study, the highest ranked localities in NT, ACT and TAS did not reveal significant amounts of asbestos cement roofing and so these jurisdictions were excluded from further analysis.





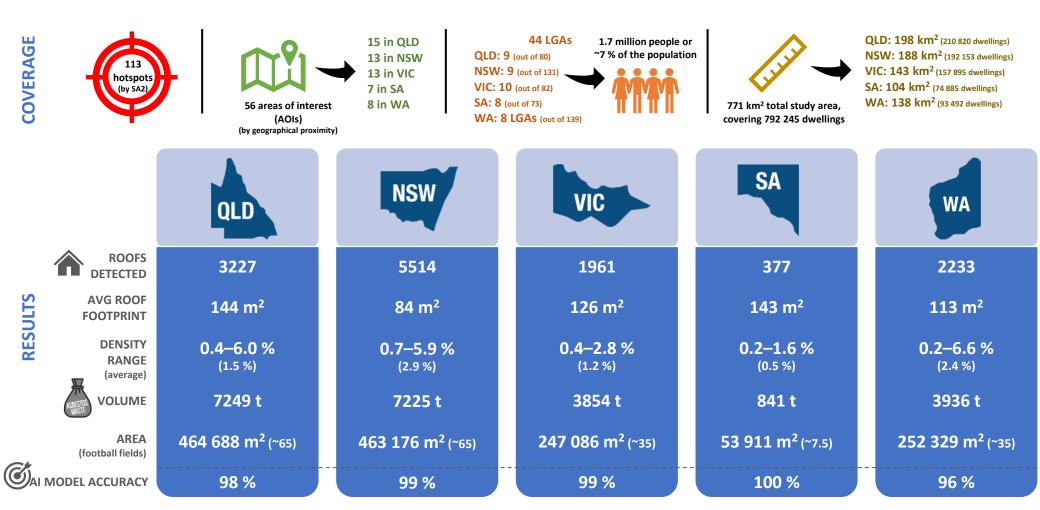
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## Asbestos cement roof hotspots – summary

asbestos cement roof count = 13 312 estimated waste volume = 23 105 t estimated waste area = 1 481 190 m<sup>2</sup> estimated waste in football fields = ~207





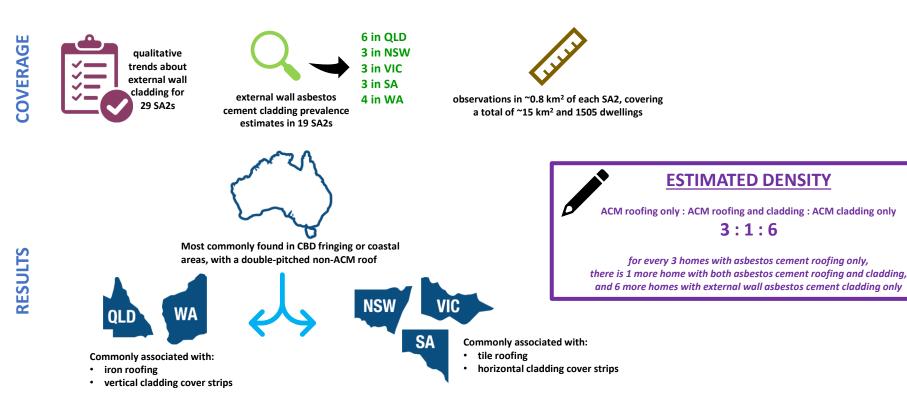


# Asbestos cement cladding – preliminary insights



Asbestos National Strategic Plan

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#### South Australia

South Australia's asbestos roofing hotspots were identified in the Alexandrina, Charles Sturt, Holdfast Bay, Marion, Onkaparinga, Playford, Port Adelaide Enfield, and Victor Harbor local government areas. The South Australia area of interests are distributed across 12 SA2s with a population of 174,135 persons in 2016. In total, 53,911 square metres of asbestos roofing were found in the state, which equates to 841 tonnes of ACM.

Garmin

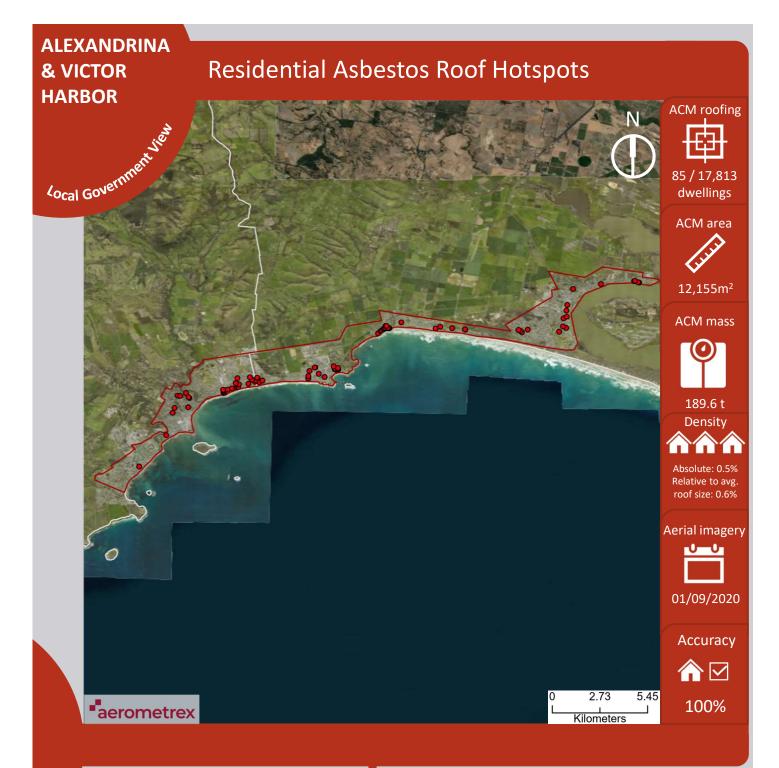
Legend

Local Government Areas

State & Territory Boundaries

Local Government Areas with Asbestos Hotspots (SA)

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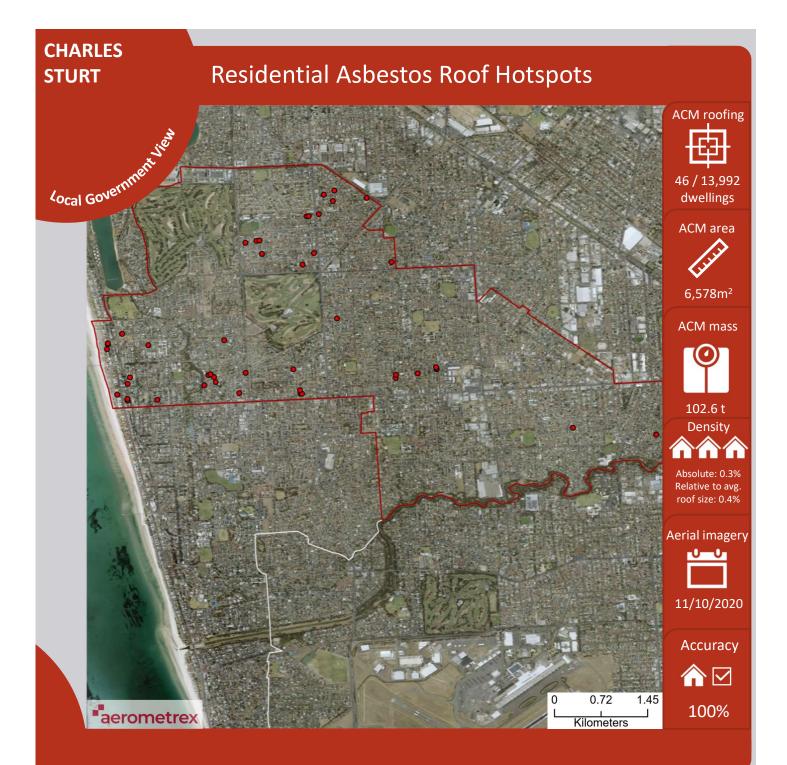


#### Port Elliot – 27.6km<sup>2</sup>

The Port Elliot area of interest is comprised of the 'Goolwa – Port Elliot' and 'Victor Harbor' SA2s. This AOI covers an area of 27.6 square kilometres with a population of 25,489 in 2016, and projected growth of 1,586 persons between 2016 and 2031. The area is located in Climate Zone 6 (i.e. mild temperate) at a latitude of 35.5 degrees.



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#### Seaton Flinders Park – 14.7km<sup>2</sup>

The Seaton Flinders Park area of interest is comprised of the 'Flinders Park' and 'Seaton – Grange' SA2s. This AOI covers an area of 14.6 square kilometres with a population of 30,781 in 2016, and projected growth of 1,583 persons between 2016 and 2031. The area is located in Climate Zone 5 (i.e. warm temperate) at a latitude of 34.8 degrees.





#### Marino Brighton – 11.6km<sup>2</sup>

The Marino Brighton area of interest is comprised of the 'Brighton (SA)' and 'Marino – Seaview Downs' SA2s. This AOI covers an area of 11.5 square kilometres with a population of 23,116 in 2016, and projected growth of 1,020 persons between 2016 and 2031. The area is located in Climate Zone 5 (i.e. warm temperate) at a latitude of 35 degrees.









#### Christies Beach – 5.3km<sup>2</sup>

The Christies Beach area of interest is comprised of the 'Christies Beach' SA2. This AOI covers an area of 5.2 square kilometres with a population of 10,256 in 2016, and projected growth of 453 persons between 2016 and 2031. The area is located in Climate Zone 5 (i.e. warm temperate) at a latitude of 35.1 degrees.



#### **PLAYFORD**

## **Residential Asbestos Roof Hotspots**





Legend
 Roofs with Asbestos Containing Material
 Area of Interest Boundaries
 Local Government Areas with Asbestos Hotspots (SA)
 State & Territory Boundaries

#### Elizabeth Smithfield – 17.3km<sup>2</sup>

The Elizabeth Smithfield area of interest is comprised of the 'Elizabeth' and 'Smithfield – Elizabeth North' SA2s. This AOI covers an area of 17.2 square kilometres with a population of 22,614 in 2016, and projected growth of 645 persons between 2016 and 2031. The area is located in Climate Zone 5 (i.e. warm temperate) at a latitude of 34.6 degrees.



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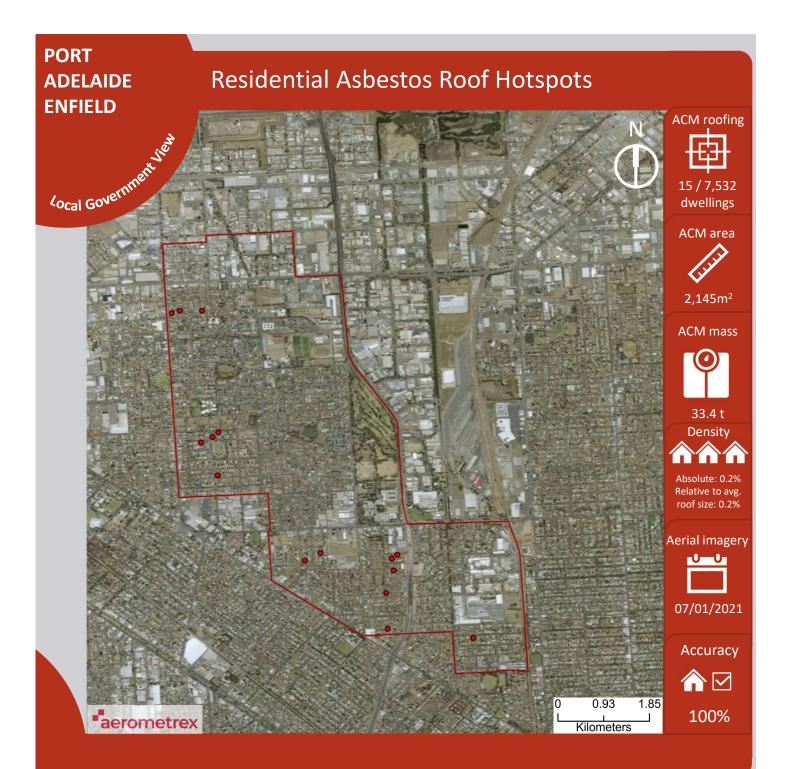




#### Enfield East – 19.1km<sup>2</sup>

The Enfield East area of interest is comprised of the 'Enfield – Blair Athol' and 'Windsor Gardens' SA2s. This AOI covers an area of 19.1 square kilometres with a population of 30,940 in 2016 (i.e., average between Enfield East and Enfield West), and projected growth of 2,673 persons between 2016 and 2031. The area is located in Climate Zone 5 (i.e. warm temperate) at a latitude of 34.8 degrees.







#### Enfield West – 8.5km<sup>2</sup>

The Enfield West area of interest is comprised of the 'The Parks' SA2. This AOI covers an area of 8.4 square kilometres with a population of 30,940 in 2016 (i.e., average between Enfield East and Enfield West), and projected growth of 526 persons between 2016 and 2031. The area is located in Climate Zone 5 (i.e. warm temperate) at a latitude of 34.8 degrees.

