



# Nomination form for a new State Geoheritage Site

This document is the nomination form for a new State geoheritage site in Western Australia. Nomination of a site can be made by any member of the public or organisation. For a site to be included on the Register of Western Australian Sites of Geological Significance, the Executive Director Geological Survey of Western Australia uses the following definition:

**“Geological features of state-wide to international significance, being either outstanding (unique, uncommon or rare) or representative (of a feature, association or process) examples of geodiversity, of scientific and/or other value to the State of Western Australia”**

Details for where the form should be submitted are given at the end of this document. All sections must be completed.

## Contact

Name of person nominating the site: \_\_\_\_\_

Email address: \_\_\_\_\_

Contact number(s) (include country and area codes if applicable): \_\_\_\_\_ M: \_\_\_\_\_

Mailing address: \_\_\_\_\_  
\_\_\_\_\_

Organisation (if appropriate): \_\_\_\_\_

## Site details

Has this been proposed before? Y  N  When? \_\_\_\_\_

Proposed name for site (Geographical and geological): \_\_\_\_\_

*(e.g. Alkimos Dune System; Dalgaringa impact crater)*

### General location and description:

*(e.g. Archean-aged dacitic cryptodome. 23 km northeast of Kalgoorlie in the Eastern Goldfields, Yilgarn Craton. The site is an example of a submarine debris avalanche deposit formed during the collapse of a dacitic dome wall. Also contains examples of coeval felsic and ultramafic volcanism and stromatolites)*

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Coordinates (in GDA 94, Lat/Long [degree minutes seconds e.g. 32° 30 25S, 118° 30 20E])

Centroid of site: Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Northeast corner Lat: \_\_\_\_\_ Long: \_\_\_\_\_

Southwest corner Lat: \_\_\_\_\_ Long: \_\_\_\_\_

If the area is not square/rectangular, please list the site centroid here and provide a shapefile or map showing the suggested site extent.





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Access description with map\* (describe in words how to get to the nominated site from the nearest inhabited town):

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.....  
.....

Tick to confirm map attached

Provide a satellite image of the area to be nominated with boundary outlined (e.g. use aerial photography, or Google Earth).  
Provide grid coordinates on the image if possible.

Tick to confirm image attached

Provide high resolution photographs of the site (e.g. jpeg, or tiff. If the nomination is successful the images may be used for public distribution, assessing potential degradation of a site and/or educational purposes)

Tick to confirm high-resolution photos attached

Are any of the photographs likely to show sensitive cultural features or landmarks? Yes  No

If yes, please explain:

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\* Maps can be produced using DMIRS' interactive geological map (GeoView.WA) located at : <[www.dmirs.wa.gov.au/geoview](http://www.dmirs.wa.gov.au/geoview)>

Is this site already within a reserve, conservation or national park, or on any other protection register?

Australian Heritage Database: Y  N  Name on register: .....

National Park: Y  N  Name of Park: .....

Reserve: Y  N  No# (eg. R 12345): .....

Conservation covenant: Y  N

Other: .....

## Geological significance

### Conceptual categories

Type example, reference site or location  Culturally or historically significant site

Geohistorical site (ancient sequences)  Modern landscape and settings

(continued over...)





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## Significance scale

- Very large: region/terrane/basin sized (tens of kilometres or more)
- Large: landscape feature sized (kilometres)
- Medium: outcrop sized (tens or hundreds of metres)
- Small: bed sized (metres)
- Very small: crystal/grain/fossil sized (centimetres or less)

## Significance level

- International
- National
- State
- Regional
- Local

## Significance themes

- |  |  |
|--|--|
| Mineralogy <input type="radio"/>                 | Igneous geology <input type="radio"/>                    |
| Paleontology <input type="radio"/>               | Metamorphic geology <input type="radio"/>                |
| Geomorphology <input type="radio"/>              | Stratigraphy <input type="radio"/>                       |
| Hydrogeology, Hydrology <input type="radio"/>    | Structural geology, Tectonics <input type="radio"/>      |
| Regolith geology, Pedology <input type="radio"/> | Impact structures <input type="radio"/>                  |
| Sedimentary geology <input type="radio"/>        | Historical geology, Mining history <input type="radio"/> |

## Criteria

1. Events and processes: the place has outstanding geoheritage value to the State because of the place's importance in the evolution or pattern of Western Australia's geological history;
2. Rarity: the place has outstanding geoheritage value to the State because of the place's possession of unique, uncommon or rare aspects of Western Australia's geology or geomorphology;
3. Research potential: the place has outstanding geoheritage value to the State because of the place's contribution, or potential to contribute, to an understanding of Western Australia's geological history;
4. Representativeness: the place has outstanding geoheritage value to the State because of the place's importance in demonstrating the principal characteristics of:
  - 4.1. a specific feature, or association of features, of Western Australia's geology or geomorphology; or
  - 4.2. a natural process important to understanding Western Australia's geological past or present geography;
5. Geologically historical sites: the place has outstanding geoheritage value to the State because of the place's cultural importance by:
  - 5.1. exhibiting particular aesthetic characteristics valued by a community or cultural group; or
  - 5.2. being closely linked with historically significant scientific events and/or people which have furthered our understanding of Western Australia's geology and geomorphology.

## Geological value:

Describe why this site is outstanding. Features for consideration in your description could include geological age, stratigraphic relationships, unconformities, palaeogeography, type section, structural features, rock type, mineralogy and paleontology. *(e.g. Site contains excellent exposure of contemporaneous felsic and ultramafic volcanism interpreted to be a submarine sea floor setting, where basalt erupted producing pillow basalts and the subsequent growth of dacitic cryptodome. The pillows are up to 1 metre in size and clearly show a younging direction to the east (photo 2.jpg)... Komatiitic lava is identified by olivine spinifex textured (photo 3.jpg)... Dacitic breccia is characterized by... A small area (123°45'67"E, 20°59'11"S) comprises a chert with columnar stromatolites)*

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NB: Additional pages may be attached for completion of description





List any related papers or publications

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List any potential threats to preservation

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## Submission

Check list:

- All sections answered
- Attached map with location and position to nearest inhabited town
- Attached an aerial photo or satellite image of the proposed site
- Attached all high-resolution photographs (jpeg or tiff)
- Attached any relevant publications (*optional*)

Send to: Executive Director  
Geological Survey of Western Australia  
Department of Mines, Industry Regulation and Safety  
100 Plain Street, East Perth WA 6004  
Australia

Electronic delivery: email application form and all relevant documents to [geoheritage@dmirs.wa.gov.au](mailto:geoheritage@dmirs.wa.gov.au)  
An FTP link can be provided on request for application packages greater than 5 Mb

For any queries, please contact: [geoheritage@dmirs.wa.gov.au](mailto:geoheritage@dmirs.wa.gov.au)

