**Name of dataset or data source:** Soil Landscapes of the Penrith 1:100,000 sheet

**Custodian of the dataset or data source:** ED Science

**Description:**
This map is one of a series of soil landscape maps that are intended for all of central and eastern NSW, based on standard 1:100,000 and 1:250,000 topographic sheets. The map provides an inventory of soil and landscape properties of the area and identifies major soil and landscape qualities and constraints. It integrates soil and topographic features into single units with relatively uniform land management requirements. Soils are described in terms of soil materials in addition to the Great Soil Group and Northcote classification systems. __Related Datasets:__ The dataset area is also covered by the mapping of the [Soil and Land Resources of the Hawkesbury-Nepean Catchment interactive DVD](http://datasets.seed.nsw.gov.au/dataset/soil-and-land-resources-of-the-hawkesbury-nepean-catchment2bef0). __Online Maps:__ This and related datasets can be viewed using [eSPADE](http://espade.environment.nsw.gov.au/) (NSW’s soil spatial viewer), which contains a suite of soil and landscape information including soil profile data. Many of these datasets have hot-linked soil reports. An alternative viewer is the [SEED Map](https://geo.seed.nsw.gov.au/Public_Viewer/index.html?viewer=Public_Viewer&locale=en-AU); an ideal way to see what other natural resources datasets (e.g. vegetation) are available for this map area. __Reference:__ Bannerman S.M. and Hazelton P.A., 2011, _Soil Landscapes of the Penrith 1:100,000 Sheet_ report, digital reprint, Office of Environment and Heritage, Sydney. Bannerman S.M., Hazelton P.A. and Tille P.J., 2010, _Soil Landscapes of the Penrith 1:100,000 Sheet_ map, reprint, Department of Environment, Climate Change and Water, Sydney.

**Data quality rating:**
- ★ Institutional Environment - 5
- ★ Accuracy - 5
- ★ Coherence - 5
- ★ Interpretability - 4
- ★ Accessibility - 4

**INSTITUTIONAL ENVIRONMENT**

- Excellent

- Does the information have the potential to enhance services or service delivery?
- The data aligns with the Data Quality Framework, including:
  - Legislation
  - Policies
  - Information Asset Governance
  - Standards
  - Data Management Plans
- The following governance roles and responsibilities for this asset are clearly assigned:
  - Information Asset Owner
  - Information Asset Custodian
- **Information Steward**
  - Data collection is authorised by law, regulation or agreement
  - The Custodial agency has no commercial interest or conflict of interest in the data

**ACCURACY**  Excellent

- Data has been subject to a data assurance process (for example: Checking for errors at each stage of data collection and processing, or verifying data entry and making corrections if necessary.)
- Data is revised and the revision is published if errors are identified
- There are no known gaps in the data or if there are gaps (for example: non-responses, missing records, data not collected), they have been identified in caveats attached to the dataset.
- No changes have been made or other factors identified (for example: weighting, rounding, de-identification of data, changes or flaws in data collection or verification methods) that could affect the validity of the data; or any changes/factors have been identified in caveats attached to the asset.
- The data collection met the objectives of the primary user. The data correctly represents what it was designed to measure, monitor or report.


**COHERENCE**  Excellent

- Standard definitions, common concepts, classifications and data recording practices have been used.
- Elements within the data can be meaningfully compared.
- This data is generally consistent with similar or related data sources from the same discipline
- The data can be analysed over time (for example, there have not been any significant changes in the way items are defined, classified or counted over time).
- The data does not form part of a collection or, if it is the latest in a series of data releases, there have not been any changes in methodology or external impacts since the last data release.

**INTERPRETABILITY**  Very Good

- A data dictionary is available to explain the meaning of data elements, their origin, format and relationships
- Information is available about the primary data sources and methods of data collection (e.g. instruments, forms, instructions).
- Information is available to explain concepts, help users correctly interpret the data and understand how it can be used
- Information is available to explain ambiguous or technical terms used in the data
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For more information about this dataset or data source, contact:
Department of Planning, Industry and Environment

Data Broker email:
data.broker@environment.nsw.gov.au
Understanding the Data Quality Statement

The data quality statement aims to help you understand how a particular dataset could be used and whether it can be compared with other, similar datasets. It provides a description of the characteristics of the data to help you decide whether the data will be fit for your specific purpose.

**About the quality rating:**
The reporting questionnaire asks five questions for each of these data quality dimensions:

- Institutional Environment
- Accuracy
- Coherence
- Interpretability
- Accessibility

For each question: “yes” = 1 point; “no” = 0 points
The number of points determines the Quality Level for each dimension (high, medium, low).
Only dimensions with four or five points receive a star.

<table>
<thead>
<tr>
<th>Points</th>
<th>Quality Level</th>
<th>Star / No Star</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Poor</td>
<td>No Star</td>
</tr>
<tr>
<td>1</td>
<td>Poor</td>
<td>No Star</td>
</tr>
<tr>
<td>2</td>
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<tr>
<td>4</td>
<td>Very Good</td>
<td>Star</td>
</tr>
<tr>
<td>5</td>
<td>Excellent</td>
<td>Star</td>
</tr>
</tbody>
</table>

Evaluating data quality

Quality relates to the data's “fitness for purpose”. Users can make different assessments about the data quality of the same data, depending on their “purpose” or the way they plan to use the data.

The following questions may help you evaluate data quality for your requirements. This list is not exhaustive. Generate your own questions to assess data quality according to your specific needs and environment.

- What was the primary purpose or aim for collecting the data?
- How well does the coverage (and exclusions) match your needs?
- How useful are these data at small levels of geography?
- Does the population presented by the data match your needs?
- To what extent does the method of data collection seem appropriate for the information being gathered?
- Have standard classifications (e.g., industry or occupation classifications) been used in the collection of the data? If not, why?
- Does this affect the ability to compare or bring together data from different sources?
- Have rates and percentages been calculated consistently throughout the data?
- Is there a time difference between your reference period, and the reference period of the data?
- What is the gap of time between the reference period (when the data were collected) and the release date of the data?
- Will there be subsequent surveys or data collection exercises for this topic?
- Are there likely to be updates or revisions to the data after official release?