

Australian National Soil Information System

portal.ansis.net

Version 2.0.1

May 24, 2025

For public release of ANSIS v 2.0.1

User Guide

Supported Browsers

The ANSIS Portal is validated to operate on the following **browsers** and their respective versions.



Google Chrome

Versions: 116.0.5845.97 and onwards



Microsoft Edge

Versions: 119.0.2151.93 and onwards



Mozilla Firefox

Versions: 120.0 and onwards

To get the best experience while using the ANSIS Portal, we highly recommend accessing it via a desktop view. This is because the Portal has been specifically optimised to ensure that the query breakdown and rendering of the map are both as efficient and effective as possible on a desktop. By accessing the Portal on a desktop, you can be certain you will have access to all the features and capabilities of ANSIS without any limitations or restrictions.

While the ANSIS Portal will operate on mobile devices, some of the features and visualisations may not perform optimally and data access and download may be affected.

Welcome

The Australian National Soil Information System (ANSIS) brings together soil data from across Australia, connecting to multiple data providers and giving access to nationally consistent soil data and information. ANSIS does not hold a centralised data base, it connects directly to data services made available by data providers.

ANSIS delivers Findable, Accessible, Interoperable and Reuseable (FAIR) soil data to users in a nationally consistent, standardised JSON format. More information on the ANSIS data schema is available at <https://ansis.net/data/information-model/>. More information regarding the Australian soil data standards and terminologies adopted for use in ANSIS can be found at <https://ansis.net/standards/>.

ANSIS does not provide analytical tools or applications, neither does it provide a mechanism to display returned data, other than a rudimentary view through the data hierarchy. Because of the complex nature of soil data and the relationship between soil entities and the data that describe them, soil data is not easy to represent in data tables or spreadsheets.

ANSIS has been established by creating a collaborative, federated data ecosystem that facilitates the discovery and exchange of vital soil data across various entities. This includes contributions from the federal and state governments, research organisations, industry, the private sector, and the wider community. By leveraging the collective expertise and resources of these diverse stakeholders, ANSIS delivers the best available, up-to-date soil data that can be used to develop information, tools and applications to help inform policy decisions, support sustainable land management practices, and promote better environmental outcomes.

For more information about the ANSIS project and the Data Portal, please visit <https://ansis.net/about/>

For any comments or suggestions regarding this User Guide v0.5 or ANSIS v2.0.1 please email the ANSIS Team ansis@csiro.au

Contents

Supported Browsers.....	2
Welcome	3
ANSIS Portal General User Guide	5
Creating an ANSIS account.....	6
Maintaining your account details	7
Signing into the Data Viewer	7
Requesting a new password / Lost password.....	8
Verifying an email address.....	9
Navigating the ANSIS Portal.....	11
Basic features of the Data Portal	11
Basic features of the map	12
Exploring available data, soil sites and map layers.....	15
Filtering query functions of the Data viewer for soil sites.....	15
Displaying the Map Layers	17
Using the Horizontal view	19
Single pane view	20
Creating markers on the map	21
Selecting sites for data request	24
Requesting data for the sites.....	25
Request status.....	27
Requesting access to restricted data sets.....	28
Restricted data request decisions and status	28
Continue with my request	Error! Bookmark not defined.
Requests page	29
Loading the query in detail	30
Viewing and using data from ANSIS.....	33

ANSIS Portal General User Guide

NOTE – this draft version 2.0.1 of the ANSIS User Guide is provided for the public release of ANSIS v2.0.

Some errors and omissions may reflect ANSIS processes or functions which are not currently functional in this release version.

The ANSIS Portal allows you to find, explore and access soil data from across Australia, including all states and territories, Christmas Island and parts of Antarctica. The ANSIS Portal is designed to help you discover and explore the availability of detailed soil site and analytical data that has been captured over time at specific locations. It provides you with a window into the wealth of descriptive data associated with soil sites, profiles, layers/horizons and the analytical data available about them collected through field assessments and laboratory analyses.

The user-friendly interface allows users to easily search and navigate to find available soil data and information from multiple providers. The ANSIS query engine allows you to filter results by date, data providers, or specific soil attributes, making it easy to find the soil data relevant to your specific need.

As a registered ANSIS user, you can easily identify and select required soil sites and then request access to download soil data from multiple providers in a nationally consistent, standardised and analysis ready format. This significantly improves soil data discovery and access and helps you to efficiently undertake analyses and assessments that provide targeted information to make timely and informed policy decisions, support sustainable land management practices, and promote better productivity and environmental outcomes. ANSIS is an excellent resource for everyone, whether you are policy maker, a researcher or student, or a farmer or gardener who wants to learn more about Australia's important soil resources.

New to Version 2 of the ANSIS Portal is the integration of the Standardised Data Repository (SDR). This repository acts as a middleman for requests, enabling much faster response times for requests by storing harmonized data for sites on an opt out basis. Users can choose to route requests to the SDR or the Harmoniser, and providers have tools available for opting out of the SDR at a project or provider level.

Sign up today and start exploring the fascinating world of Australian soil via <https://portal.ansis.net/>

This user guide offers step-by-step instructions on how to effectively use the ANSIS Portal.

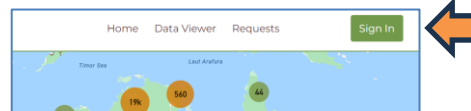
These guides are designed to meet your specific needs. By following the guides, you can expect to gain a thorough understanding of the Portal's functionalities and features.

Creating an ANSIS account

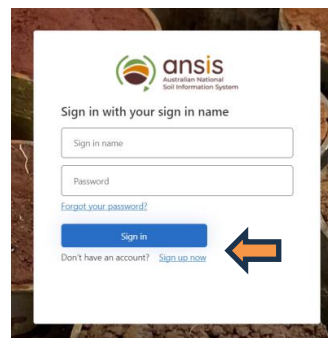
You can access the ANSIS Portal directly at <https://portal.ansis.net/> or via the quick links on the <https://ansis.net/> website – “I want to view soil maps”, the “Access soil data” button or the “Data Portal” link on the <https://ansis.net/data/> page.

The ANSIS Portal opens on the main Data viewer page. Note that the “Home” link on this page takes you to <https://ansis.net> for more information about the ANSIS project and soil data and information standards.

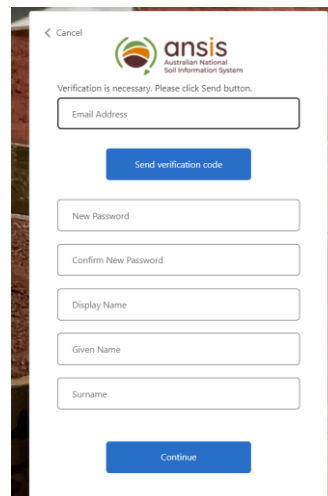
1. On the home page click the ‘Sign In’ button in the top right corner.



2. Click the ‘Sign up now’ button that appears at the bottom of the screen.



3. Provide your details in the fields shown. Before using the ‘Continue’ button at the bottom of the screen you’ll need to verify your email address. You can do this by clicking the ‘Send verification code’ button after entering the address – we’ll send a code to that email which you’ll need to enter.



NOTE:

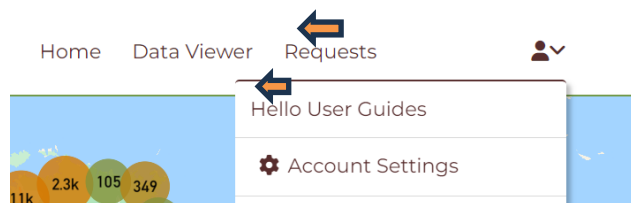
The **email address** you provide will become your ‘Sign in name’ and this cannot be changed. Passwords must be 8-16 characters, containing 3 out of 4 of the following:

- Lowercase characters (a – z)
- Uppercase characters (A – Z)
- Digits (0-9)
- Special characters (@ # \$ % ^ & * - _ + = [] { } | \ : ' , ? / ` ~ " () ;)

Success! Once you’ve verified your email address and clicked continue, you’ll be returned to the main page and can begin using the data viewer.

Maintaining your account details

If you need to review your account details you can do so by clicking the person icon in the top right corner of the screen, and then clicking 'Account Settings'.



The following **Personal details** screen will be displayed

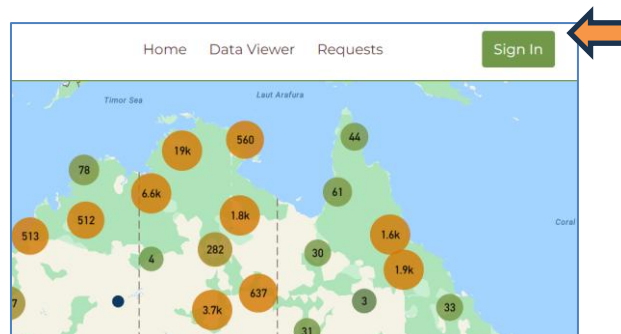
Select [Edit] to make any changes and save.

Signing into the Data Viewer

It's important to sign in to the ANSIS Portal if you wish to access and download soil data from the system. While non-registered users can still query/filter and view available soil site meta-data on the ANSIS Portal, they cannot access and download data from providers without signing in. Once you create an account and sign in, you can search for soil data, select the soil site data you need, and request to download it.

This allows you to access nationally consistent standardised soil data from multiple disparate data provider sources, which greatly improves the efficiency in access and use of soil data. Unofficially, ANSIS aims to improve soil data access from what can currently take users over 6 months, down to just minutes!!

1. So, if you want to download soil data from ANSIS, you will need to create an account and sign in. On the home page click the 'Sign In' button in the top right corner.



2. On the next page enter your 'Sign in name' which is the email address you created your account with, as well as your password. If you can't recall your password you can use the 'Forgot your password?' option which is covered in the next section.

 A screenshot of the ANSIS sign-in page. The page features the ANSIS logo at the top, followed by the text 'Sign in with your sign in name'. Below this are two input fields: 'Sign in name' and 'Password'. There is a blue 'Sign in' button. Below the button, there is a link for 'Forgot your password?' and a link for 'Don't have an account? Sign up now'.

Requesting a new password / Lost password

1. If you can't recall your password, you can use the 'Forgot your password?' option that appears on the sign in page.
2. You'll be prompted to enter your email address for verification. For more detail on this process, you can check the 'Verifying your email address' section.

 A screenshot of the ANSIS sign-in page, identical to the one above. The 'Forgot your password?' link is highlighted with a blue underline.

 A screenshot of the ANSIS verification page. The page has a 'Cancel' button in the top left. Below the ANSIS logo, it says 'Verification is necessary. Please click Send button.' There is an input field for 'Email Address'. Below the input field are two buttons: 'Send verification code' and 'Continue'.

3. After verifying your email address you'll receive a confirmation screen – click the 'Continue' button.
4. You'll now be able to set a new password.
 Passwords must be 8-16 characters, containing 3 out of 4 of the following
 - Lowercase characters
 - Uppercase characters
 - Digits (0-9)
 - Special characters (@ # \$ % ^ & * - _ + = [] { } | \ : ' , ? / ` ~ " () ;)

After entering your new password into both fields click the 'Continue' button to complete the forgotten password process.

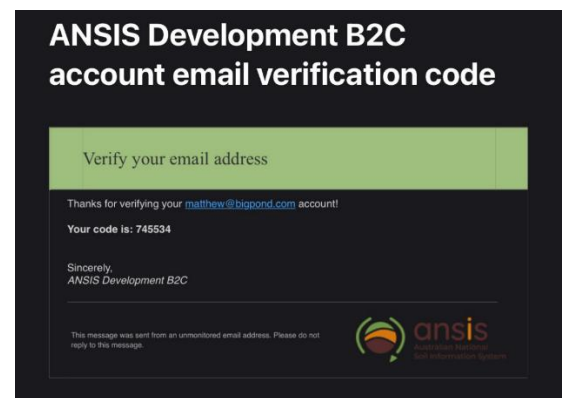
The top screenshot shows the 'E-mail address verified' screen with a 'Continue' button. The bottom screenshot shows the 'New Password' and 'Confirm New Password' screens with a 'Continue' button.

Verifying an email address

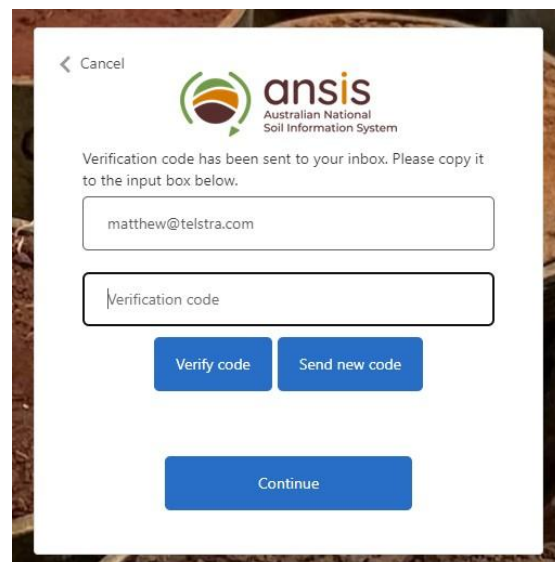
1. When creating a new account or requesting a new password you'll need to verify your email address. To do this enter your email address into the field provided and click the 'Send verification code' button.
2. An email will be sent to the email address you provided. It will be sent from the msonlineserviceteam@microsoftonline.com email address and the sender's name will be "Microsoft on behalf of ANSIS B2C" or similar.

Note: If this email does not arrive within a few minutes check your SPAM folder.

The screenshot shows the 'Email Address' field and the 'Send verification code' button.



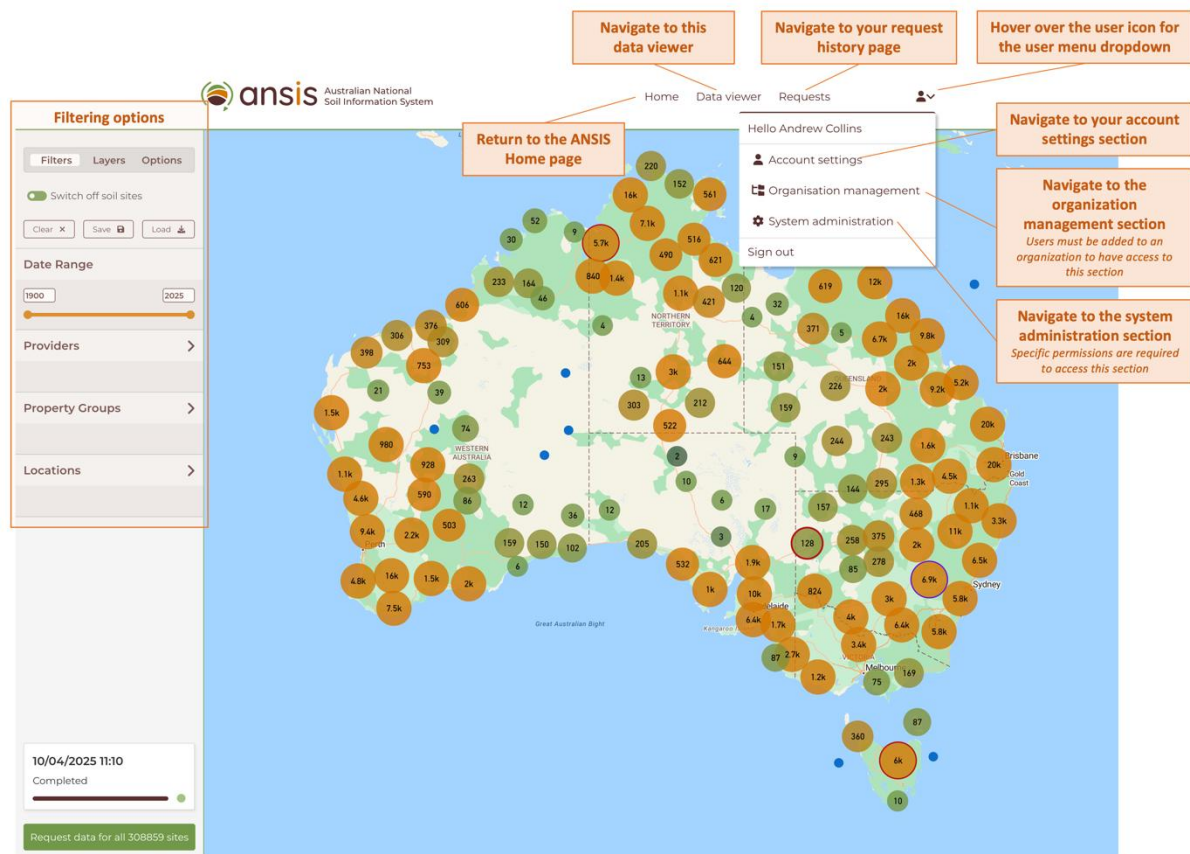
3. Copy the verification code you received in the previous step and enter it into the 'Verification code' field, then click the 'Verify code' button.



The screenshot shows a mobile application interface for ANSIS (Australian National Soil Information System). At the top left is a back arrow and the word "Cancel". To the right is the ANSIS logo, which consists of a stylized green and orange circular icon followed by the text "ansis" in bold, with "Australian National Soil Information System" in smaller text below it. Below the logo, a message states: "Verification code has been sent to your inbox. Please copy it to the input box below." There are two input fields: the first contains the email address "matthew@telstra.com", and the second is labeled "Verification code" with a cursor. Below these fields are two blue buttons: "Verify code" and "Send new code". At the bottom of the screen is a larger blue button labeled "Continue".

Navigating the ANSIS Portal

Upon accessing the ANSIS Portal you will see the main Data viewer page which has set of data query and search features and functionalities, data visualisations, and links to other data request and exploration and, depending on your account privileges, administrative components of ANSIS that make up the ANSIS Portal.



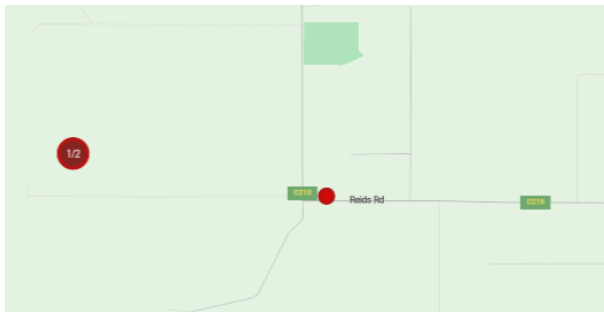
Basic features of the Data Portal

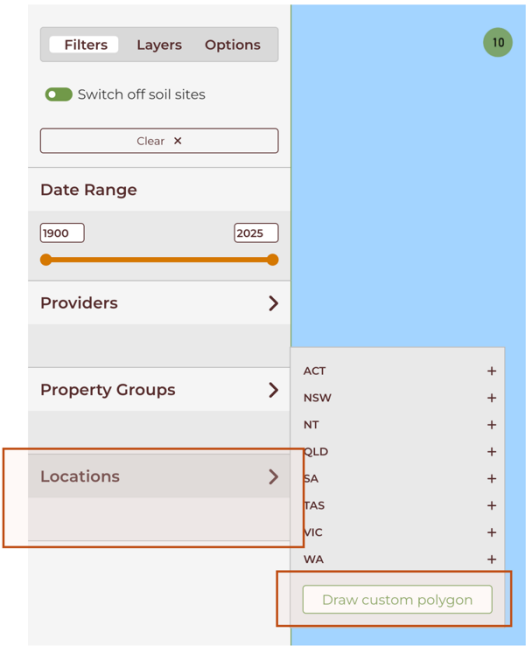

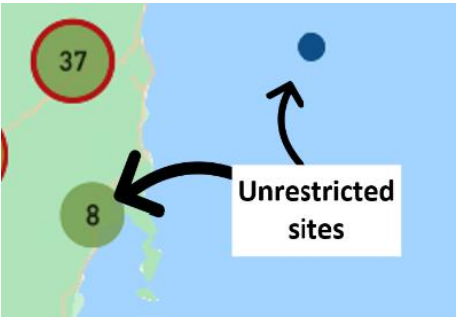
Feature	Description
Home	Returns to the ANSIS.net project homepage
Data viewer	View the geospatial map and observe the available metadata for any soil site.
Requests	View a history of all submitted and processed data requests
User Account (person icon)	<p>User account modules including details of any associated or affiliated organisations and system administration.</p> <p>Please note:</p> <p>Organisation management module</p> <p><i>Users must be associated to an organisation to be able to access and manage details and if available data associated with the organisation.</i></p> <p>System administration module</p>

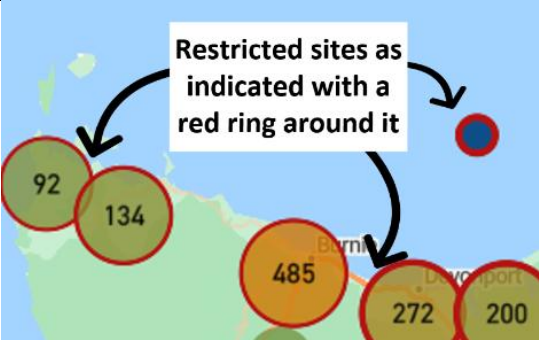
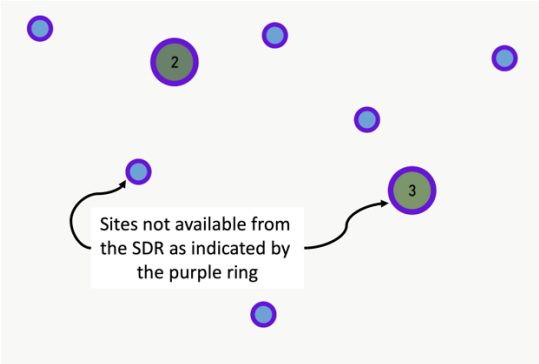
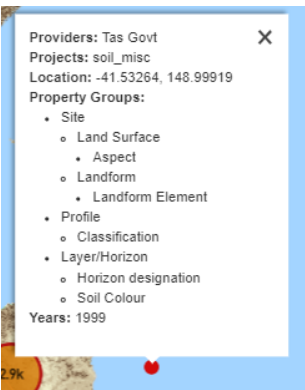
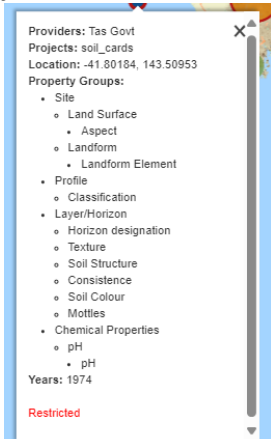
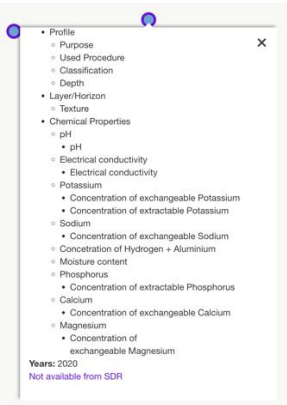
Feature	Description
	<i>Please note, specific system admin permissions are required to manage this module.</i>
Filtering functions	These are the controls for setting parameters and selecting soil properties in your filter query regarding soil sites and map layers.

Basic features of the map

The map of the world allows you to display the whole of Australia including surrounding Australian territories, and by using the mouse left-click and scroll-wheel functions, you can pan around the map and zoom in to specific locations of interest.

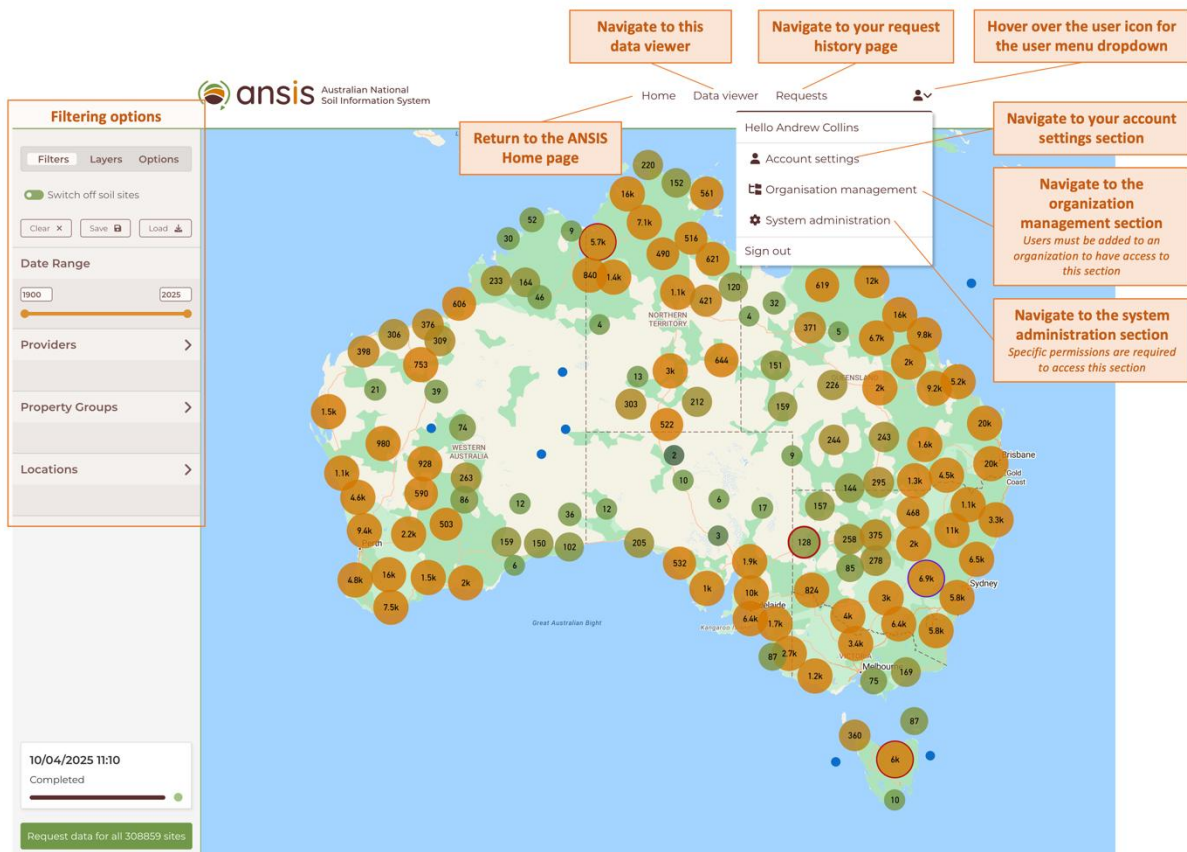
Feature	Description
Zooming into the map or location	Scroll forward using the mouse's wheel or keyboard shortcut of ctrl[+] key or if using a touchscreen device, use two fingers on the screen and bring together. You can also left mouse button double click on the map.
Zooming out of the map or location	Using the mouse's wheel, scroll back or use the keyboard shortcut key of ctrl[-] or if using a touchscreen device, use two fingers on the screen and push apart.
Navigation of the map	Hold down the mouse left button or use the navigation arrow keys of the keyboard to move the map in any direction.
Selecting a site	<p>To select sites you can click on the individual sites, and they will turn from blue to red.</p>  <p>Alternatively, you can use the Locations – Draw custom polygon tool to draw a polygon around an area of interest or multiple polygons. To do this, you need to select Location on the left side of the screen menu and then [Draw custom polygon]. This is a drawing tool where you can draw any shape. By double-clicking the final action to complete the shape, the specific area is taken into consideration for the site selection.</p>

Feature	Description
	 <p>Drawing polygons can be drawn using point to point lines or even freehand.</p> 
General site	<p>Indicated on the map as a blue dot as a single site to a large, coloured circle with a number at the centre, indicating the number of sites within the location. Zoom in on the large circles to see the individual site locations. You can left mouse button click on a circle to zoom in and split it up.</p> 
Restricted site	<p>Like a general site, restricted sites are Indicated on the map with a red ring around it. Obtaining data for these sites will require the data provider's approval which can be requested through the ANSIS Portal.</p>

Feature	Description
	
<p>Site not available from the SDR</p>	<p>Like a general site, sites not available from the Standardised Data Repository (SDR) are Indicated on the map with a purple ring around it. Obtaining data for these sites will require the request to be routed directly to the provider. Sites which are available from the SDR will return data much faster, as harmonised result for this site has already been created and stored in the repository.</p> 
<p>Viewing the properties available at the site</p>	<p>Using the mouse pointer, hover over the site and a metadata list will be displayed as follows:</p> <div data-bbox="427 1261 770 1778"> <p><i>Properties displayed for an unrestricted site:</i></p>  </div> <div data-bbox="778 1261 1074 1778"> <p><i>Properties displayed for a restricted site:</i></p>  </div> <div data-bbox="1082 1261 1385 1778"> <p><i>Properties displayed for a non-SDR site:</i></p>  </div>

Exploring available data, soil sites and map layers

On this page you will be able to search across all Australian states and territories all the different soil sites from various data providers details of soil attributes and profiles. You can also display a number of map layers, such as the Soil and Landscape Grid of Australia soil property estimates to help narrow your search for relevant soil site data.



Filtering query functions of the Data viewer for soil sites

Searching for sites that have particular soil properties of interest is assisted by the following query filters –

- **Date range** – use the slider to set the minimum and maximum years of interest. Note that some sites may have been visited multiple time and sites will be filtered if any of the visits fall in the set range
- **Providers** – limit the query to specific data providers or add number of them by clicking on the name or the + sign.

- Property groups – add whole groups of properties by clicking on the + sign or expand the list using the > arrow and selecting individual properties of interest. Note that individual properties are applied as an “and” filter – e.g. search for sites that have a Profile classification AND Chemical analysis results for pH. Adding whole Property groups, e.g. Site, queries for sites that have “any” of the available soil site properties recorded.

When a user zooms into a location with a forward scroll of the mouse, a single site can be seen. To select a site for inclusion in a data request, mouse left button click on it and the site will change colour from blue to red. Multiple sites can be selected by using the Locations and/or Custom polygon options as described below. Selected sites can be removed from the set by clicking on them or removing applied Location or polygon shape filters.

Please note the following menu options and functions -

Switch off soil sites: Ability to switch on or off the display of sites on the map.

Options to:

[Clear] – clears the current search and filter parameters

[Save] – saves the query/search parameters

[Load] – the option to Load the metadata on either Saved searches or previous search requests.

Search Query Filters –

Date Range: of available data, currently from 1900 to 2024

Providers: A list of available data providers currently associated with ANSIS.

Property groups: provide a hierarchy of soil properties sorted by the different soil features: Site, Profile, Layer/Horizon, Chemical properties, and Physical properties.

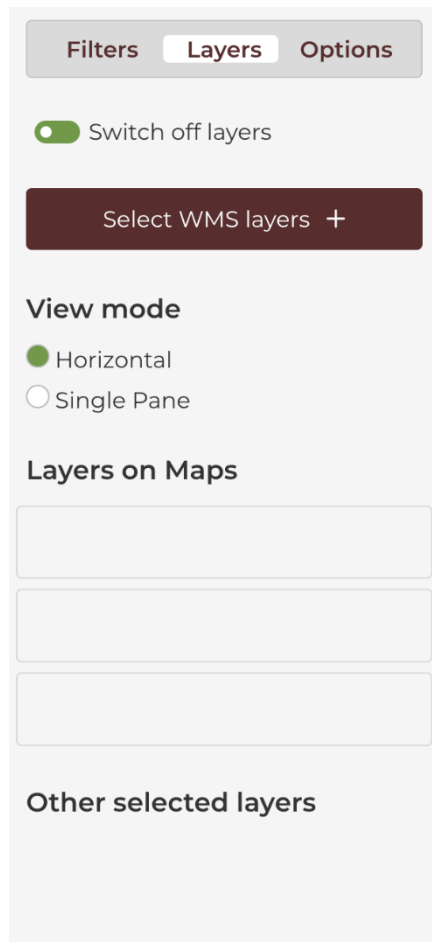
Site selection tool – Note ‘selected sites’ are those used as the set of sites for a data request. Sites may be ‘selected’ using this function or by clicking on individual sites – See ‘Selecting sites for data request’ section below.

Locations: Select sites within specific Australian states and territories or draw custom polygons to select individual or multiple sites.

Sites can be selected or deselected by mouse click directly on the site.

Displaying the Map Layers

The ANSIS Data viewer can display map layers which are available from many sources as Web Map Services (WMS). Use the button on the top left of the Data viewer menu panel to navigate to the Map Layers view.



Ability to Switch on or off the display of map layers in the geospatial map.

Select WMS layers to add to the viewer. The ability to select one or more service layers.

View modes:

Horizontal (side by side or comparative view) or Single Pane (single view) stacked layers

Layers on maps—Users can add multiple layers to view. Up to 3 layers can be displayed in the Horizontal view. Maps can be reordered to a different display order or interchanged by dragging and dropping the layer to replace. In the Single Pane view, you can drag and drop additional WMS layers to stack them on the map. Different layers can be displayed by selecting the required layer tab in the legend menu. The scroll bar above the menu tab lets you see any of the added map layers.

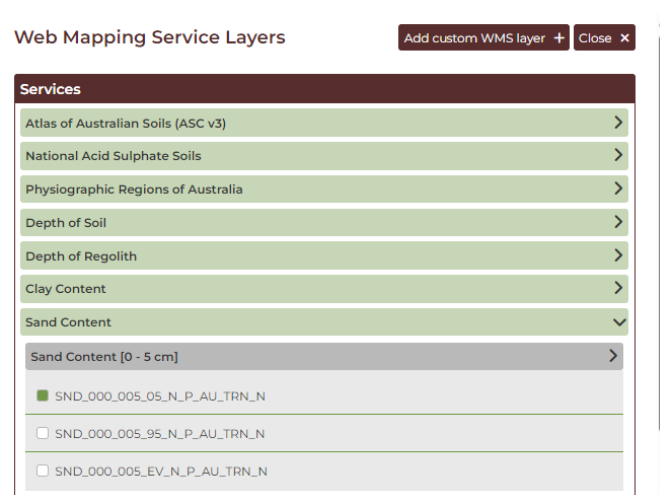
Other selected layers

Shows a list of multiple map layers that have been selected and can be added to the viewer.

Click on the 'Select WMS layers +' button to display a list of currently available maps.



Click on the title of a map service listed in the Web Mapping Service Layers window to expand the contents and access available layers. Services can have grouped sets of layers. If this is the case, click on the title to expand the grouped layers. Click on the small white box to the left of a service layer to select it – the box will turn green.

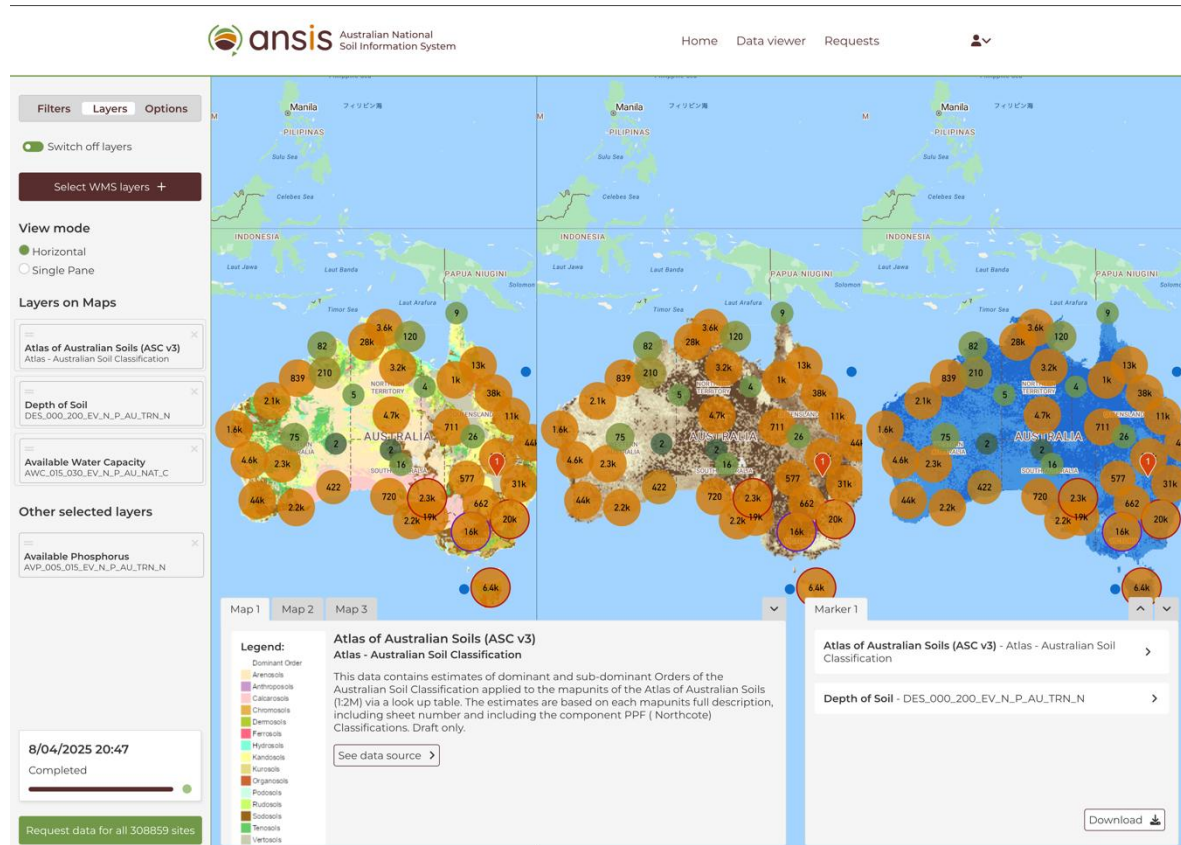


Select other layers of interest then close the window using the Close button at the top right of the list or click on the greyed map window.

The selected map layers will appear at the bottom of the Map Layers left side menu window under 'Other selected layers' heading. Click on and drag a map layer from under the 'Other selected layers' heading into the one of the slots above, under the 'Layers on Maps' heading. The map layer will be displayed, and a legend (if available) appears in a tab at the bottom left of the map.

Using the Horizontal view

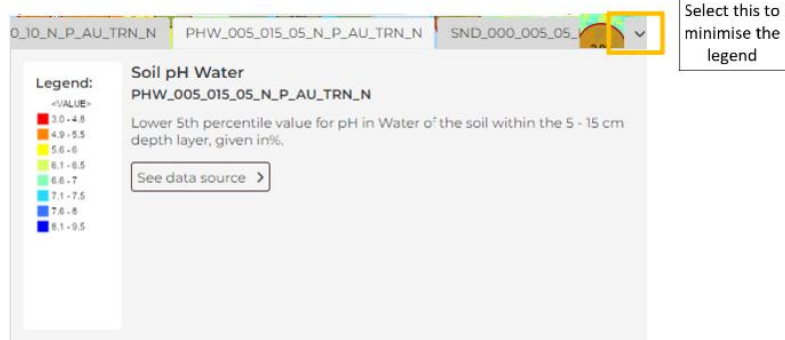
Once the WMS layers are selected, drag, and drop the items into Layers on Maps. In the Horizontal view, you will have the option to drag and drop up to three layers at a time to view the data rendered onto the map.



Each layer will display its own legend and description. Click the inverted arrow at the top right of the legend tab to minimise these legends, or use the up arrow to expand them again.

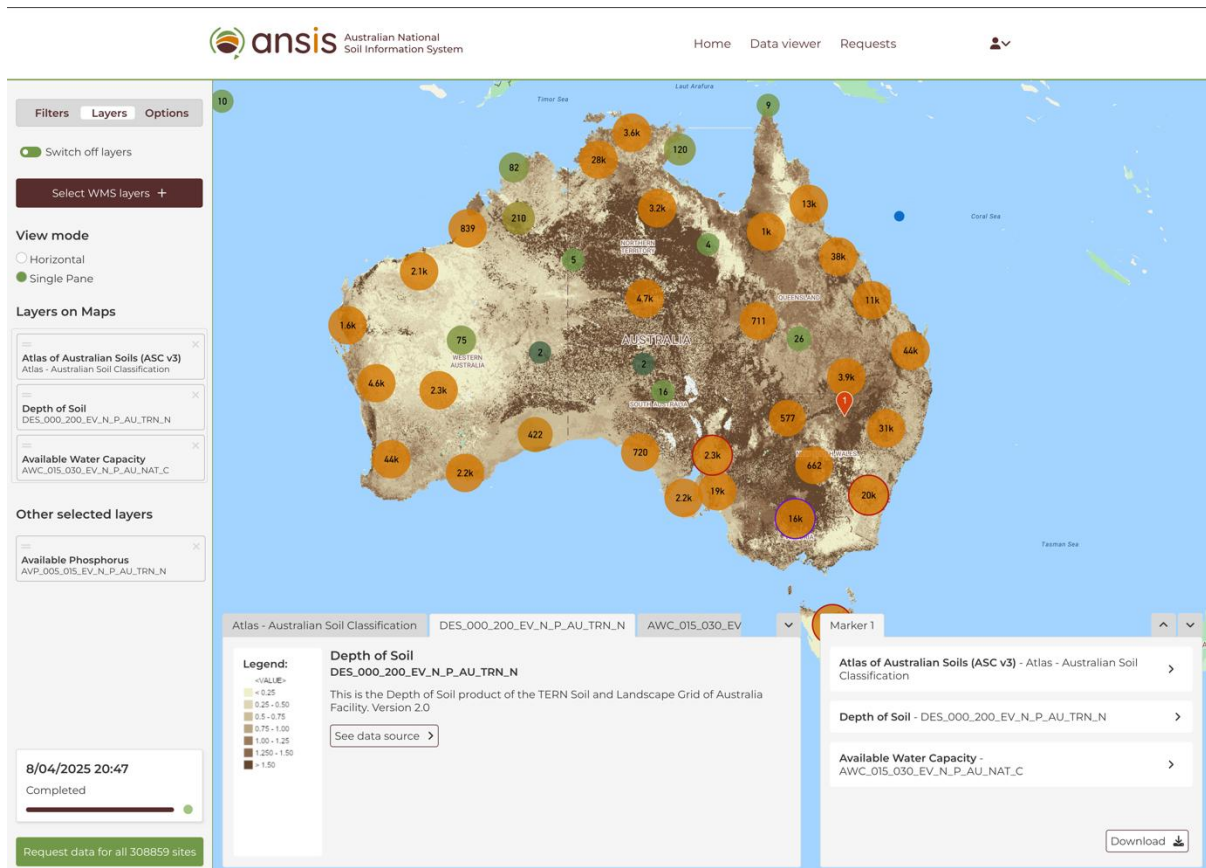
You will see the map and legends update by dragging another layer to the 'Layers on Maps' area. In the example above, the horizontal view mode provides a comparative view across the three selected map layers.

The legend displayed in the bottom left corner of the view also details the descriptions of each of the respective maps and provides a link to the source capabilities response.



Single pane view

If you select the **Single pane** view, you will see a single map displayed with tab options from the Legend to change which layer is shown on the map view. Other “Layers on Maps” are still included in the map and ready for query, however they are obscured by the top map in the single pane view.

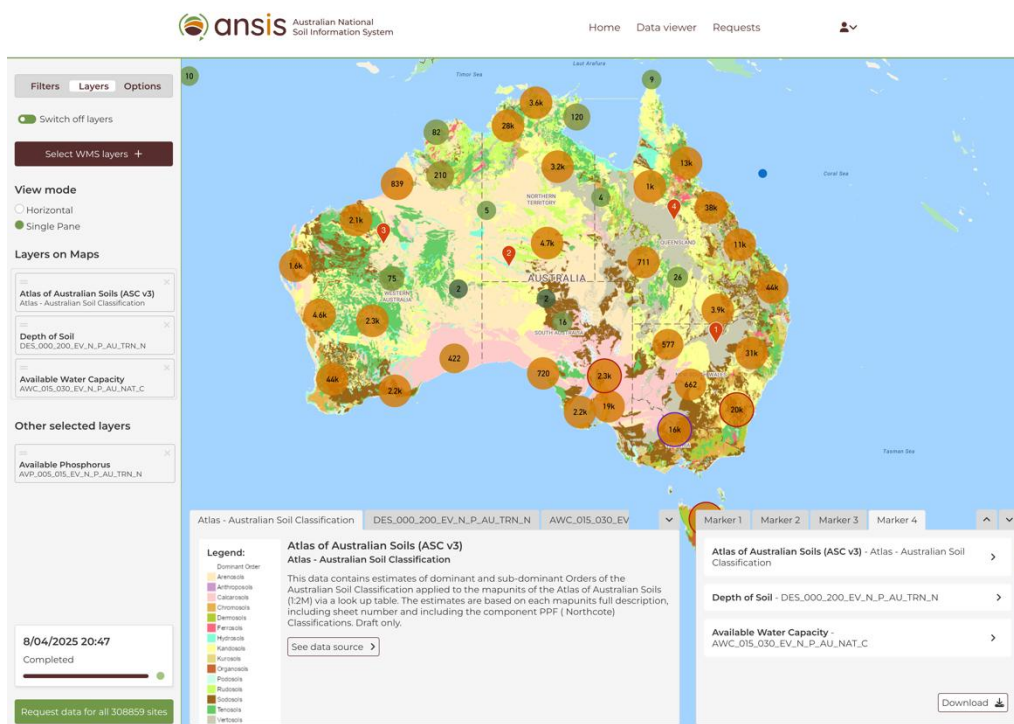


Creating markers on the map

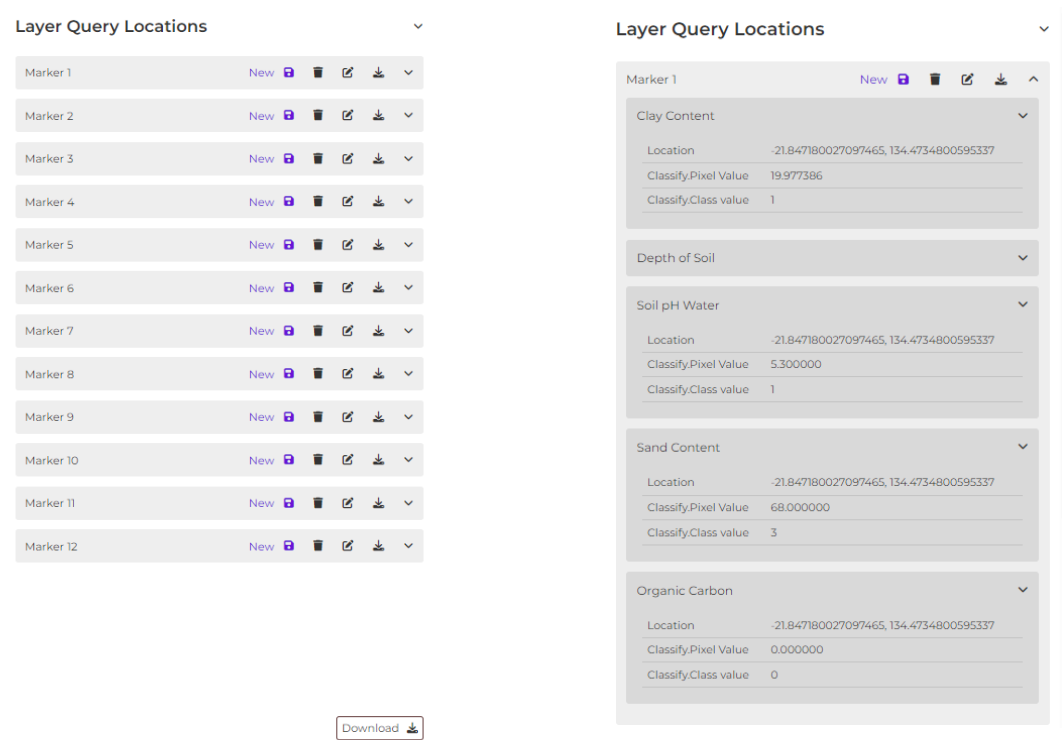
You can add “Markers” on the map to points of interest. These can be used to interrogate underlying map layers in both horizontal and single pane views.

To drop a marker, just left click at the desired location on the map and a red numbered pin will appear. You will also see a Markers menu displayed in the bottom right corner of the map screen which when expanded has numbered tabs labelled for your Markers.

In this example, we have dropped a dozen markers, nine of which are within the polygon as drawn in central NT, two markers in South Australia, and one out at sea in the Great Australian Bight.



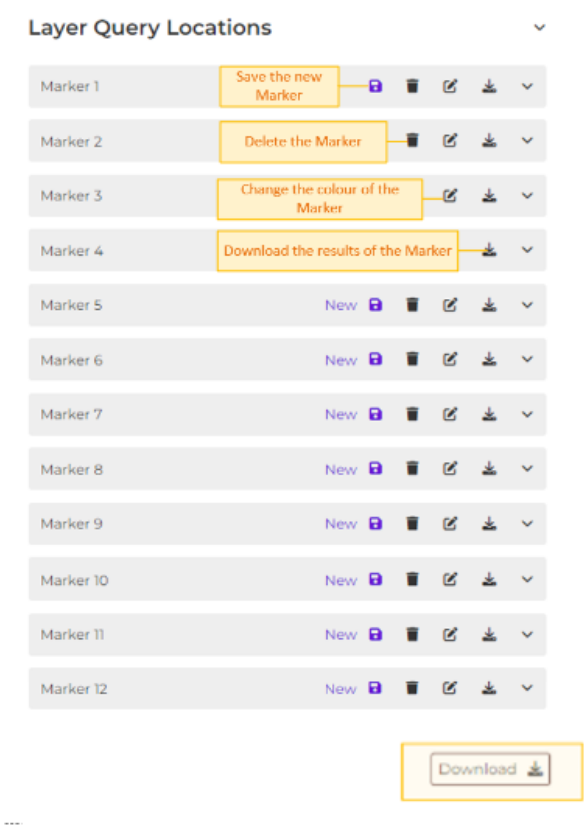
Details of the markers are listed in the bottom right side of the screen. This legend can be maximised to view greater detail or minimised to save on screen real estate. When expanding you will see the details as follows:



This is the listing of all twelve markers in our example.

Expanding Marker 1 tab will display the values associated with each of the WMS map layers under the marker.

By expanding the Marker tab using the additional up arrow on the top right you can edit, move and personalise your Markers. For each marker you can:



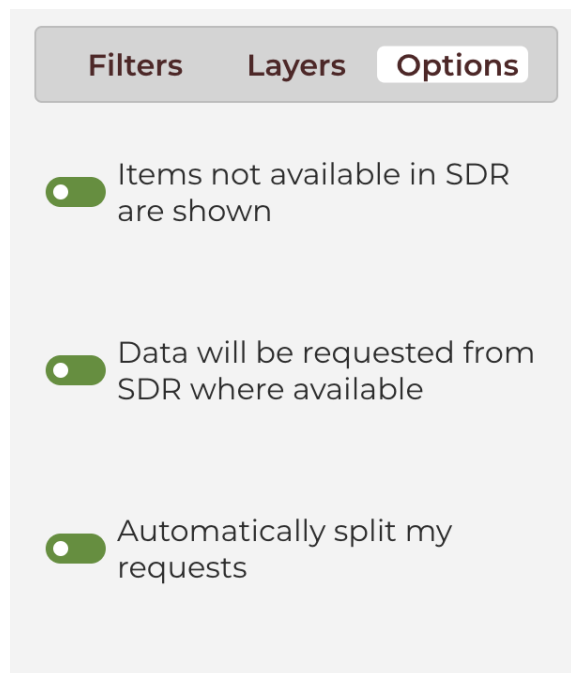
You can also [Download] the WMS layer data values for each of the Markers in a simple JSON format. This can be done individually for each Marker from the initial Marker tab, or as a single file for all Markers by using the Download button on the fully expanded Marker tab.

This sample extract shows an example the JSON output file:

```
[{"service":"Clay Content","layer":"CLY_000_005_95_N_P_AU_TRN_N","result":{"Classify.Pixel Value":"19.977386","Classify.Class value":"1"},"position":[134.4734800595337,-21.847180027097465]},{ "service":"Clay Content","layer":"CLY_000_005_95_N_P_AU_TRN_N","result":{"Classify.Pixel Value":"19.646221","Classify.Class value":"1"},"position":[134.32576564207966,-24.012258013718053]},{ "service":"Clay Content","layer":"CLY_000_005_95_N_P_AU_TRN_N","result":{"Classify.Pixel Value":"25.201790","Classify.Class value":"2"},"position":[135.7958184834124,-23.609248883767506]}
```

Request options interface

The following options are available in the request options tab -



Items not available in SDR are show/hidden – toggling this option will show / hide sites which are not available from the SDR, as denoted by the purple ring on the map

Data will be requested from SDR where available – When toggled on, data requests will be routed to the SDR, which will enable responses to be returned much faster than going through the harmoniser process. Data stored in the SDR is updated regularly, but if the most up to date data is required, turn this option off and all site data will be requested directly from the providers.

Automatically / Don't split my requests – Data requests are chunked to improve the speed of data return. When this option is turned on, you will be able to open and view the partially completed response before the whole response is returned. When this toggle is set to off, the request page will show the completed response by default.

Selecting sites for data request

Once a user has explored and filtered the available soil site data they can 'select' sites to be used as the set of sites for a data request. Sites may be 'selected' in the following ways -

- Clicking directly on individual sites (the blue dots will turn red)
- Selecting all sites in a state/territory(s) using the Menu Locations option
- Drawing a custom polygon around the sites of interest using the Menu Locations option.

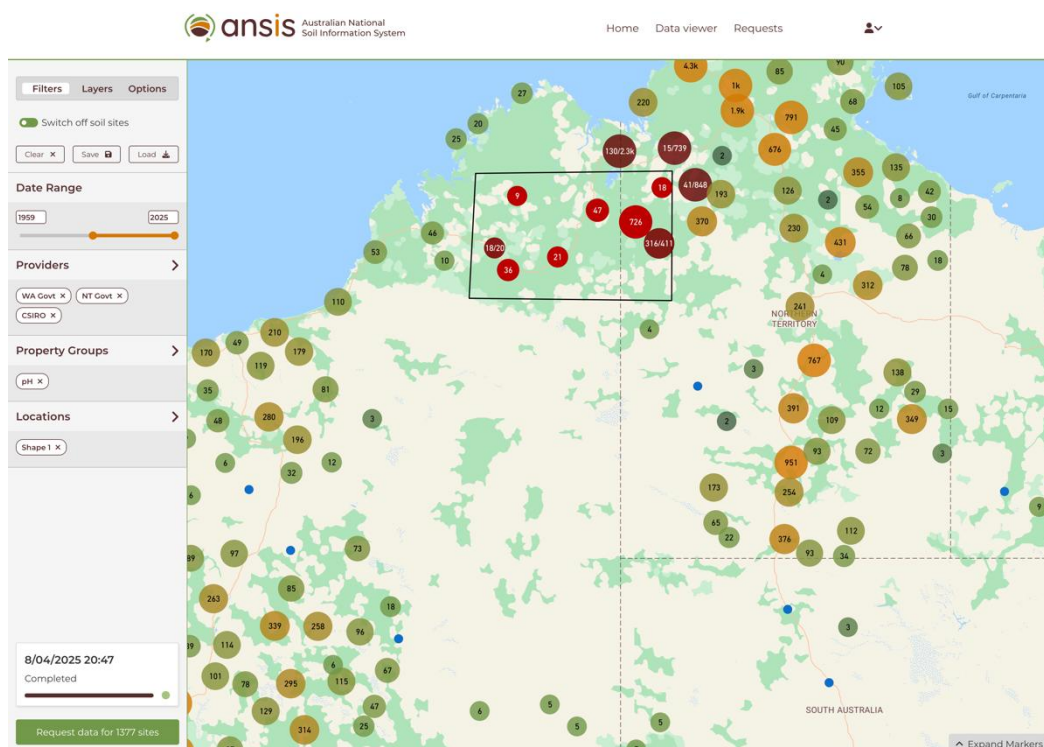
The selected sites will turn from blue to red and the Green "Request data for all XXX sites" will display the number of sites selected.

User can deselect sites individually by clicking on them. If the Location filter or Custom polygon has been used to select a number of sites, these can be deselected by removing the shape from the locations filter.

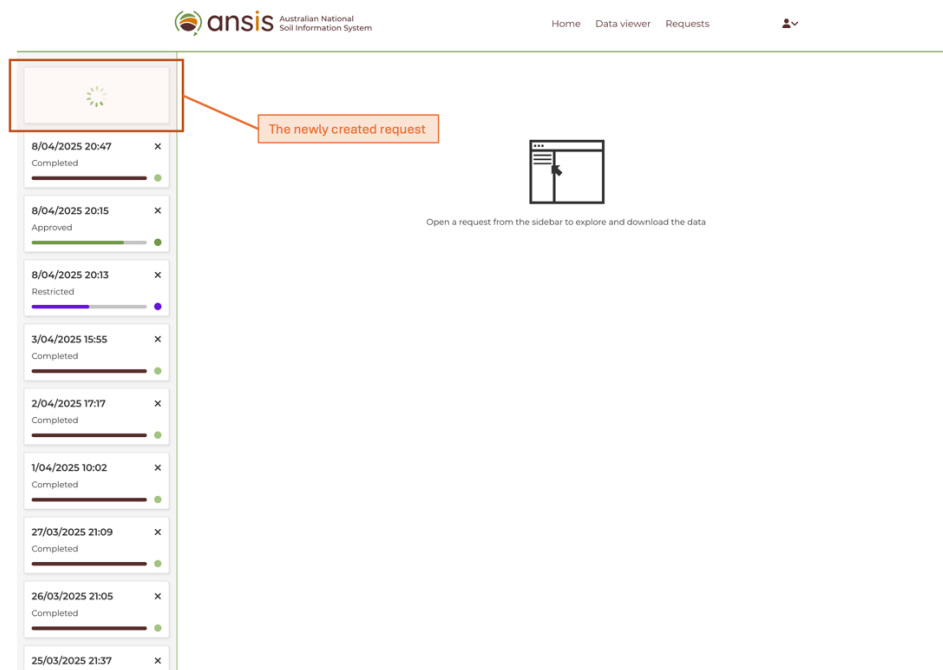
Requesting data for the sites

As a registered ANSIS Portal user, once you have established your query filters and site selections you can submit a request to obtain the data for the sites of interest by clicking on the green 'Request data for all XXXX sites' button found at the lower left of the Data viewer menu pane.

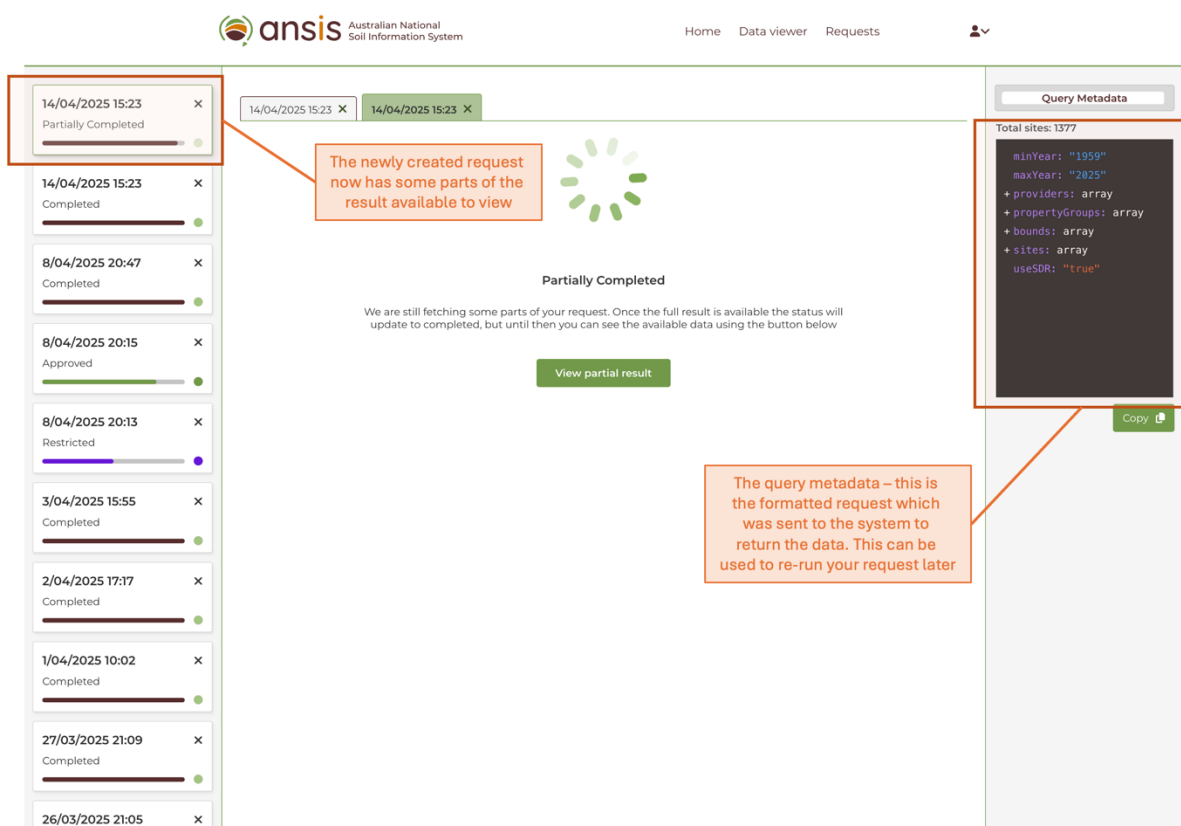
Below is an example where we have used the filters to show only the data we are interested in (Sites from WA Govt, NT Govt and CSIRO providers which have pH information since 1959 in the Purnululu region). We can now request the data for the sites with the green "Request data for 1377 sites" button.



Once triggered, the request will be created and sent to the appropriate data providers for processing. You will see the current request at the bottom of the Data viewer menu pane. Click on it or use the Requests menu option above the map pane to be taken to the Request screen. Click on a submitted request in the list on the left pane to view progress of the Request processing. You will see the following:



Once the request is accepted by the system, the status will update and the request will become openable. See the requests statuses table below for an explanation of stage.



Requests may take from a few seconds to a few hours for large requests to complete, depending on the location of the data requested. Data which comes from the SDR will always be faster than data

passing through the harmonisation process at time of request. Using more specificity when filters data on the map will improve response times.

Once a Request is completed then the data is available for view within ANSIS and to download in a standardised, structured, well described, analysis ready ANSIS.json file format.

Please note that all requests and their associated data from the query will expire after 90 days.

Requests can be re-run by opening a Request, clicking on the Query Metadata window 'Copy' button and then pasting the meta-data into the Data viewer Soil sites Load section, then using the green Request button. See the "Requests page" section below.

Request status

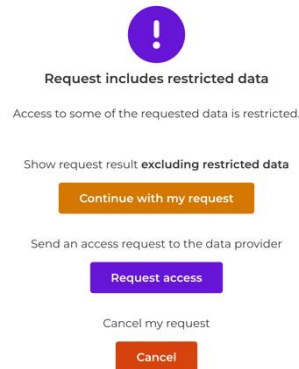
Generally, when the request is submitted to obtain the data, the following status messages may appear:

Request Statuses	Description
Queued	The request is created but not yet uploaded. This is to manage and sort concurrent requests.
Pending	The request is created and uploaded but not yet picked up.
Processing	The request is authorised to be processed.
Restricted	The request contains some data which has been marked as restricted and which you do not have access to. Opening this request will allow you to create and access request, or process to access that data which was returned excluding the restricted data.
Not Approved	When at least one restricted data provider has denied the request.
Approved	When all restricted data providers have approved the request. Open this request to resubmit.
Partially Completed	Some of the data requested has been returned, but not yet all the data. Open this request to see the data available. This status will persist for far longer where the request includes data from both SDR and Harmoniser.
Completed	The request is completed and all data has been returned, the result will be available for up to 90 days.
Expired	After 90 days from the creation of the request, all requests and their associated data will expire
Error	An error occurred processing the request. Please try again, and if the issue persists please get in touch. Include your user account email address and the date and time of the requests.

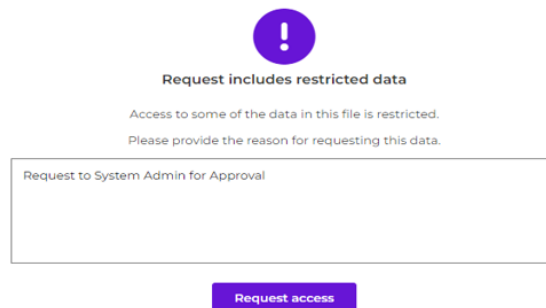
These requests will be logged in the Requests section.

Requesting access to restricted data sets

When making a request for data, you may be able to access information from unrestricted projects without any additional steps. However, there are certain projects that have access restricted by the Data providers and require you to obtain permission from the data provider(s) before accessing the data.



If you are trying to access a restricted project data set, you can click on the "Request access" button. This will allow you to write a message to explain why you need access to the data set(s) you don't currently have permission for. You may also choose to continue with your request by excluding any restricted data that you don't have the necessary access to or cancel the request altogether.



Once you submit your query request, keep an eye on the Request status. If the status changes to "Pending Approval," it means that your request is being reviewed by the relevant parties. At this point, a screen will be displayed with further instructions.

Restricted data request decisions and status

When requesting access to sites from a restricted project, the data provider will review the request to determine whether to grant access. As a general user, you can track the status of your restricted data request over time. The request status will be shown as "**Pending Approval**" when you first submit your request. Once the provider begins processing your request and grants access to all

requested restricted project data sets, the status will change to **"Approved"** at which point you can resubmit your request. When the data associated with your request is ready for download and available up to 90 days from the original request date, the status will change to **"Completed"**. However, if at least one of the access requests is denied by a provider, the status will be shown as **"Not Approved"**. Lastly, access to the data associated with the requests, if greater than 90 days, then the status will change to **"Expired"**. In that case, a new request will be required if you need further access to the data set.

Requests page

This is a repository of all the queries previously created by a user and submitted since the creation of the account.

The screenshot displays the ANSIS (Australian National Soil Information System) interface. The top navigation bar includes the ANSIS logo, the text "Australian National Soil Information System", and links for "Home", "Data viewer", and "Requests". A user profile icon is visible on the right.

The main content area is divided into three sections:

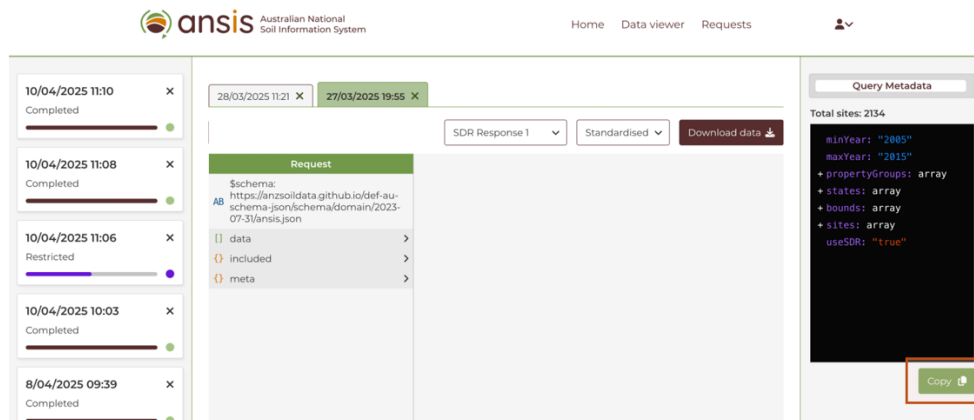
- Left Sidebar:** A list of requests with their status and completion time. The bottom-most request, dated 6/03/2025 00:21, is marked as "Expired".
- Central Panel:** A large blue warning triangle icon with an exclamation mark. Below it, the text reads: "Data request has expired". A message states: "Your request has expired. Download your request again to view the most current data." Below this is the request ID: "ID: a0307708-e5f6-44c1-bf00-98bc45cddfd5" and a "Request again" button.
- Right Panel:** A "Query Metadata" section showing "Total sites: 13" and a JSON-like structure of query parameters:


```
minYear: "1980"
maxYear: "1982"
+ propertyGroups: array
+ sites: array
useSDR: "false"
```

 A "Copy" button is located below the metadata.

Please note, all submitted requests and associated data will expire after 90 days. However, you will have the ability to re-run the request should it be needed using the [Request again] function or using the Query Metadata to copy the query and load a new request. The query metadata is essentially the parameters used in your query to filter the data you require based on date, providers, soil properties and location attributes. The metadata query could also be shared with others by copying the query and emailing.

As a registered ANSIS Portal user, when reviewing previous requests, you can re-run the previous meta data queries by starting with the [Copy] button.

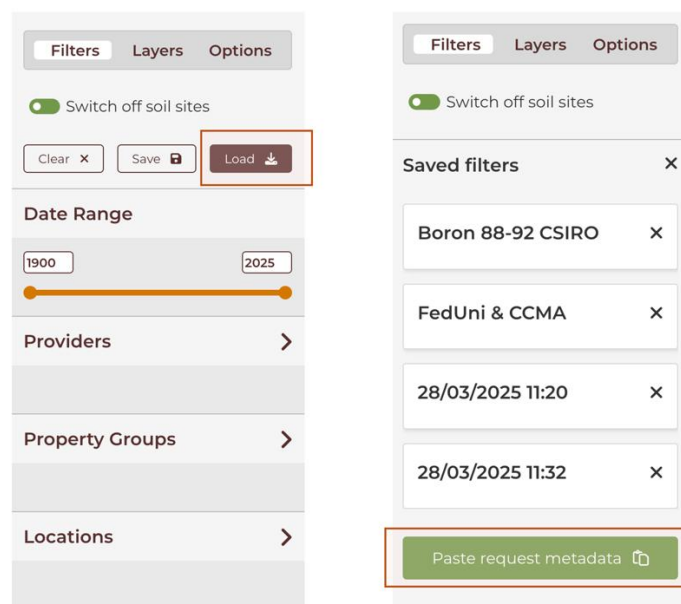


What the metadata looks like:

```
{
  "minYear": 2005,
  "maxYear": 2015,
  "providers": null,
  "propertyGroups": [
    "3-3"
  ],
  "states": [
    "NSW"
  ],
  "bounds": [
    [
      [
        126.72201004868236,
        -18.34985274253718
      ],
      [
        123.0944770479473,
        -18.54648777193803
      ],
      [
        123.19812084796803,
        -12.305672699420654
      ],
      [
        127.13658524876553,
        -13.089261608890482
      ],
      [
        126.72201004868236,
        -18.34985274253718
      ]
    ]
  ],
  "sites": [
    [
      {
        "provider": "NewSouthWales",
        "sites": [
          "10018", "1004", "10023", "10036", "10065", "10068", "10074", "10088", "10140", "10095", "10170"
        ]
      },
      {
        "provider": "CSIRO CSIS",
        "sites": [
          "10180", "1070", "11986", "1209", "13833", "14367", "1673", "1678", "1882", "3058", "3840", "439", "4649", "5246", "5260", "5295", "5444", "5469", "5470"
        ]
      },
      {
        "provider": "Queensland",
        "sites": [
          "1626", "2621", "427", "742", "899"
        ]
      }
    ]
  ],
  "useSDR": true
}
```

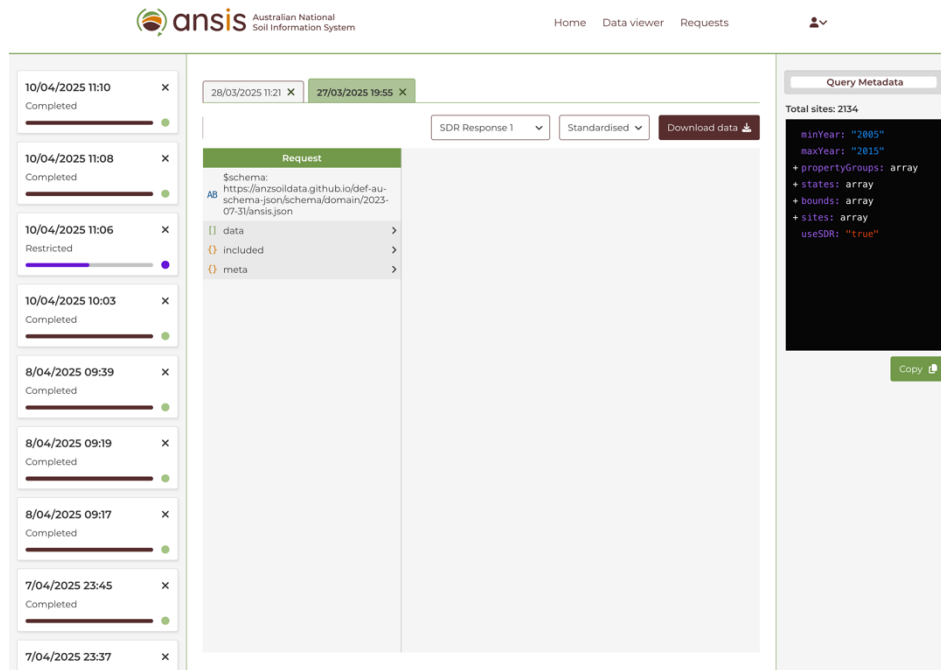
Loading the query in detail

The alternative option to search is using the [**Paste request metadata**] function. This search is only available on the [Soil Sites] Data viewer menu, where the user can Load the metadata request. Essentially, you can obtain previous requests (and modify them if needed) and then conduct the query.

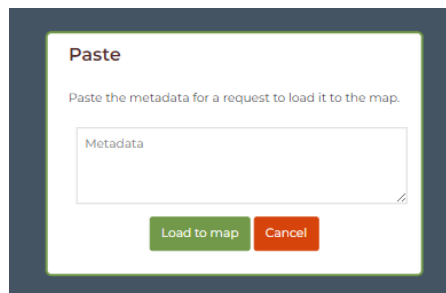


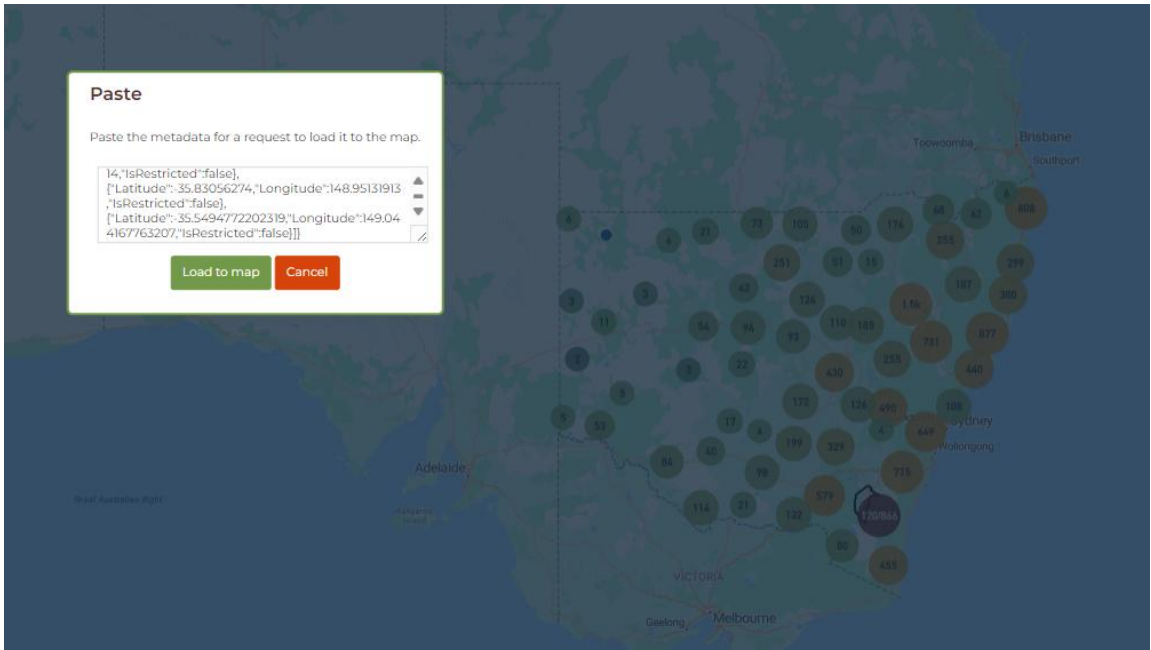
To obtain the metadata query, go to [Requests] and select the request from your history and on the right side of the screen the [Query Metadata] will be displayed.

[Copy] the query and you can paste the request via the [Load] function of the [Soil Site] query.



Paste the query via the [Paste request metadata] pop up, make any required adjustments to the attribute values, and then run the search via [Load to Map].





The request will then display “Processing” and once the results are obtained, the status of the request will be updated to “Completed”.



Processing

Your request is processing. This page will be updated with your information once processing is completed.
ID: cable4016131434bcecf94b110d300d2f7cdf5dbe52c19alc2d737cfaeab4312

Viewing and using data from ANSIS

Users can view and [Download data] as required via the Requests screen.

The screenshot shows the ANSIS Requests screen. On the left, a list of requests is displayed with their completion status and timestamps. The main area shows a selected request (27/03/2025 19:55) with a tree view of the response data. Callouts highlight the following features:

- Which request is open:** Points to the selected request in the list.
- Which chunk of the response is open and downloadable:** Points to the 'data' chunk in the tree view.
- The current view mode:** Points to the 'Standardised' dropdown menu.
- Download the current chunk:** Points to the 'Download data' button.

The right sidebar shows 'Query Metadata' for the selected request, displaying details like 'Total sites: 2134', 'minYear: "2005"', 'maxYear: "2015"', and 'useSDR: "true"'. A 'Copy' button is also present.

ANSIS provides a viewer for the standardised, yet complex soil data that has been accessed from multiple providers. The Requests data viewer has a Standardised view and a Raw JSON option available from the view mode dropdown.

Data is returned from the system in chunks to ensure responses are returned promptly. Use the chunk selection tool to view each piece of the response individually, or the “complete response” option which will combine the chunks into one file.

The Standardised view provides an expandable tree structure so users can step through the ANSIS schema data hierarchy and see relevant details associated with soil Projects (included), Soil Sites (data), site Visits, Profiles, Layers/Horizons and Chemical and Physical results.

Clicking the [Download data] will download the current open chunk. Use the [Complete response] option to download the entire response as one file.

Note that the main goal of ANSIS is to allow easy discovery and access of user relevant soil data from multiple providers that individually deliver data in many varied forms and formats. The ANSIS data

harmonisation and standardisation processes repackages provider data to be compliant with a single well described, national data schema (see <https://ansis.net/data/information-model/> for more information and links to the ANSIS Schema). This means that soil data delivered through ANSIS conforms to a consistent format and is immediately ready for use in data analysis, integration and other applications.

Raw ANSIS.json is not intended for general consumption. Tools and applications which utilise the data and provide more consumable visualisation and use of the raw data are in development. An ANSIS community tools and applications sharing page will be developed on ansis.net in the future.

END OF DOCUMENT