



Putting the Environmental Dataset Gateway (EDG) to Use

About EDG REST Outputs

The EDG's REST (Representational State Transfer) API (Application Programming Interface) provides you with a powerful way to access and embed EDG content directly and dynamically in other web applications or pages. When you search the EDG, links to internet and intranet REST results are displayed below the search results. The internet URLs provide access to only unrestricted metadata records when the user is not logged in to the EDG; the user must log in to view restricted records. The intranet URLs provide access to all EPA metadata records without requiring that the user log in to the EDG. The internet URLs should be used for public websites.

Why Use EDG Outputs?

The EDG's reusable outputs allow you to easily promote your resources with minimal effort. For example, by copying and pasting simple EDG REST URLs into your web pages, you can:

- Embed custom views of your metadata in your websites
- Access your metadata from any web page
- Apply your own styles and customizations
- Allow users to subscribe to dynamic feeds that inform them of updates or changes to your records
- Visualize your data and metadata in new and exciting ways

REST Output	Integrates With
GEORSS	Web browsers, RSS readers, web mapping applications
HTML/FRAGMENT	Web pages, Content management systems, Wikis
KML	Web mapping applications, standalone KML viewers

How to Embed EDG REST Outputs in Your Website

To embed REST outputs into your website, follow these simple steps:

1. Perform a search in the EDG
2. Scroll to the bottom of the results list and open a REST link in your web browser (**GEORSS, HTML, HTML FRAGMENT, KML, JSON, or CSV**)
3. Paste the desired URL into a web page as `<href>` or `<iframe>`. You can use additional parameters to customize your REST URLs. For example, the `iframe` code to embed an internet HTML REST URL for the search term "ecoregions" is as follows:

```
<iframe src="https://edg.epa.gov/metadata/rest/find/document?searchText=ecoregions&f=html&xs1=fgdc"/>
```

You can stylize EDG HTML output to match your organization's look and feel. To do this, use the `&style` parameter to link to a stylesheet in css format. For example:

```
<a href="https://edg.epa.gov/metadata/rest/find/document?searchText=ecoregions&f=html&xs1=fgdc&style=[your.css]">
```

Full documentation of the [EDG REST API syntax](#) is available in the [Help Pages](#).

How to Include Stylesheets

The EDG allows you to apply custom stylesheets to the REST interface HTML output and to individual metadata records. Stylesheets allow you to format the look and feel of EDG outputs to meet your needs. To apply the stylesheet of your choice, edit the URL of your EDG record so that the `&xsl=` parameter is followed by one of the following options: `fgdc_geography_network`, `fgdc`, `fgdc_classic`, `fgdc_faq`, `fgdc_esri`, `fgdc_plus`, `iso`, `iso_geography_network`. You can also create your own custom stylesheet and have it hosted at the EDG. For example, the `fgdc_faq` stylesheet would be specified as:

```
http://edg.epa.gov/metadata/rest/document?id={Your Record's ID}&xsl=fgdc_faq
```

EPA Office of Water (OW): Impaired Waters with TMDLs NHD Indexed Dataset

FGDC Metadata
Show Definitions
Description | Spatial | Data Structure | Data Quality | Data Source | Data Distribution | Metadata

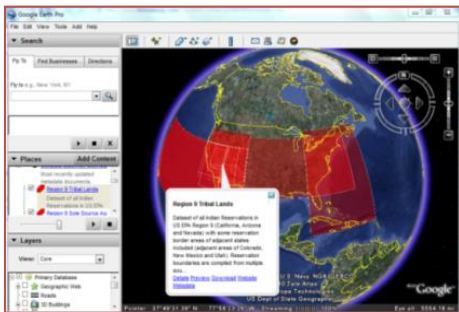
Description

Citation

Title: EPA Office of Water (OW): Impaired Waters with TMDLs NHD Indexed Dataset
Originators: US Environmental Protection Agency, Office of Water
Publisher: U.S. Environmental Protection Agency
Publication place: Washington, DC
Publication date: 20100108
Edition: 20100108
Data type: vector digital data
Data location: http://watersgeo.epa.gov/ArcGIS/rest/services/OWRAD/ALL_OW RAD_NAD83/MapServer/, <http://www.epa.gov/waters/data/downloads.html>

Description

Abstract: The Total Maximum Daily Load (TMDL) Tracking System contains information on waters that are Not Supporting their designated uses. These waters are listed by the state as impaired under Section 303(d) of the Clean Water Act. The status of TMDLs are also tracked. TMDLs are pollution control measures that reduce the discharge of pollutants into impaired waters. A TMDL, or Total Maximum Daily Load is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources. What is a total maximum daily load (TMDL)? Water quality standards are set by States, Territories, and Tribes. They identify the uses for each waterbody, for example, drinking water supply, contact recreation (swimming), and aquatic life support (fishing), and the scientific criteria to support that use. A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and nonpoint sources. The calculation must include a margin of safety to ensure that the waterbody can be used for the purposes the state



How to Embed EDG KML Output in a Map

For web users without access to GIS software, web-based maps (such as Google or Bing) provide a convenient way to view geospatial data. Overlaying the EDG's KML output on a web-based map can provide your users with a view of the geographic extent of your data. To embed a KML Output in a Google or Bing map on your website, copy the REST Output (KML) from your search results and paste the link into your website's map as a KML Layer. The output KML will include bounding boxes showing the extent of each dataset with links to the full metadata and any other access points.

How to Embed the EDG Search Widget in Your Website

The EDG Search Widget makes it possible to search the EDG from another web page or application. The search widget can be included on your website by simply inserting one or two lines of code. Users can type a search term or lucene search query in the search field and retrieve a pop-up list of records that match that search.

To embed the EDG Search Widget in your site, you have two options. The easiest method is to place this script tag on the page where the widget is to appear:

```
<script type="text/javascript" src="https://edg.epa.gov/metadata/widgets/searchjs.jsp?title=Search the EDG"></script>
```

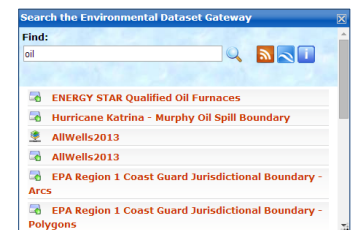
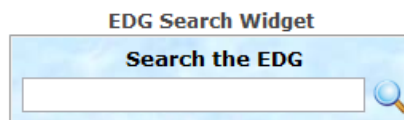
The title parameter is optional and may be edited or omitted.

A second option allows the widget code to be separated from its location in the page. This might be required by some content management systems, such as Drupal, as well as scenarios where asynchronous page loading is desired. For this option, place the following div tag where the widget should appear:

```
<div id="edgsearch">
```

And the following script tag in an appropriate location – either in the page header or, for lazy loading, the page footer:

```
<script type="text/javascript" src="https://edg.epa.gov/metadata/widgets/searchjs_div.jsp?title=Find Data"></script>
```



For more help, follow the [Reuse Components](#) link on the EDG Homepage or contact edg@epa.gov.