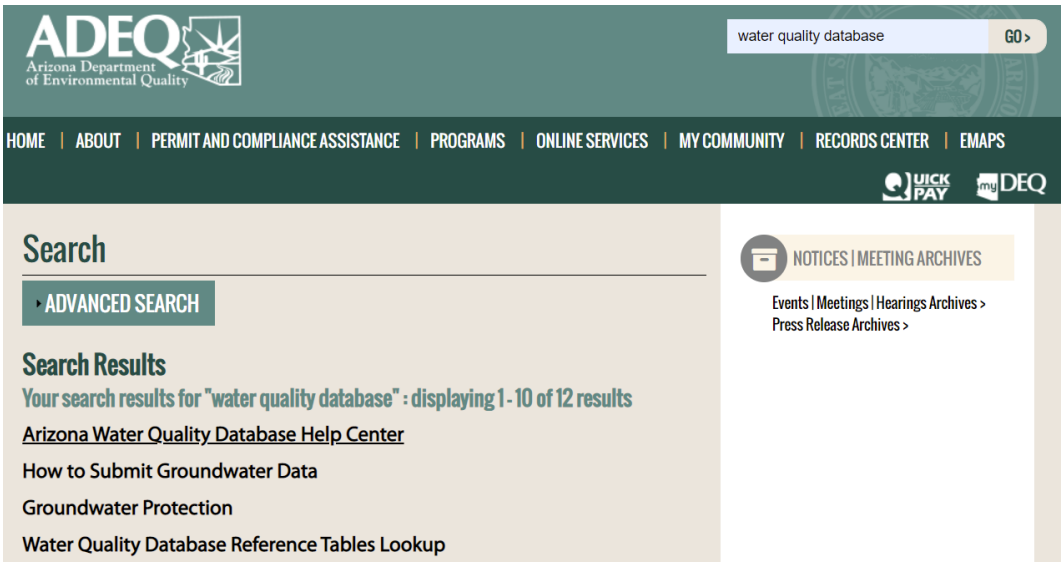
Getting Started: How to Query the Arizona Water Quality Database

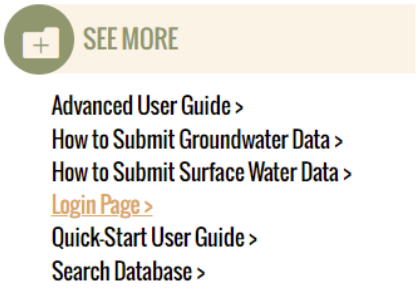
Welcome to the Arizona Water Quality Database! This Getting Started guide shows how to query the database using ***Search Criteria*** *(p. 1) and how to query using a* ***Latitude and Longitude Range*** *(p. 6), and includes* ***More Resources*** *and* ***Contact*** *information (p. 10). The preferred browser for query operations is Google Chrome; these instructions assume use of Google Chrome. Other browsers sometimes exhibit slightly different behavior in query operations.*

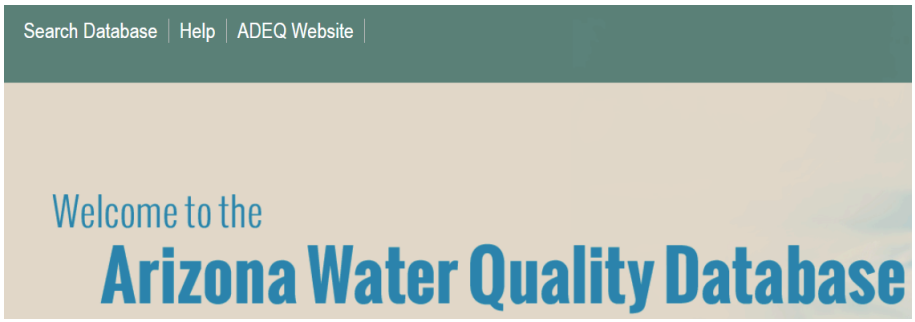
Query by Search Criteria

From main website azdeq.gov, search for "Water Quality Database", then select **Arizona Water Quality Database Help Center**:

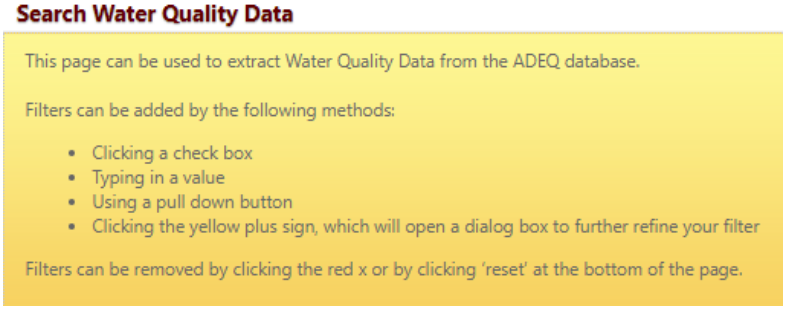


On the right-hand side banner, click **Login Page>**.
The selection will take you to http://waterdata.azdeq.gov/AZWQDB. Select **Search Database** on the main menu bar (login not necessary).





Read the instructions at the top of the search:



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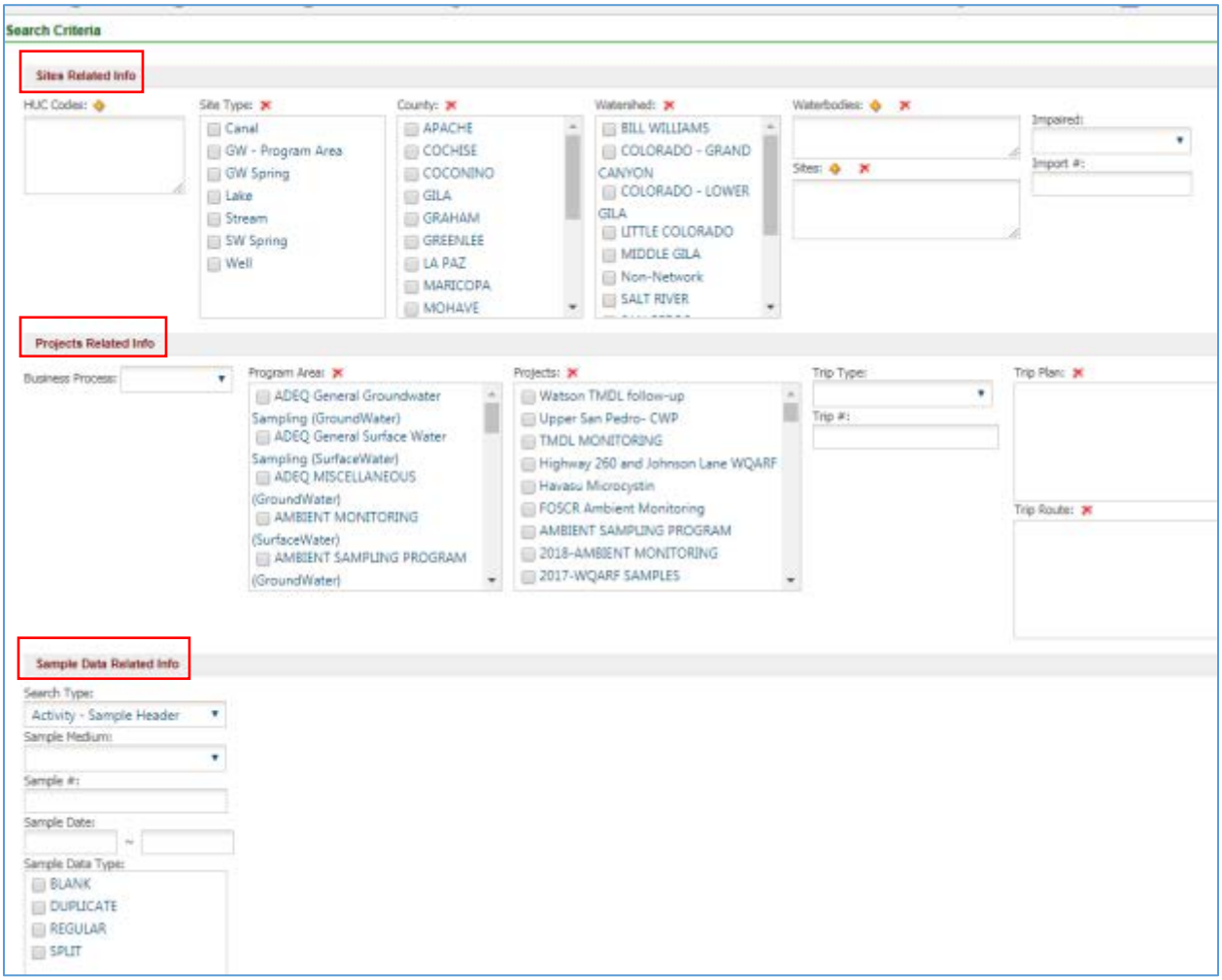
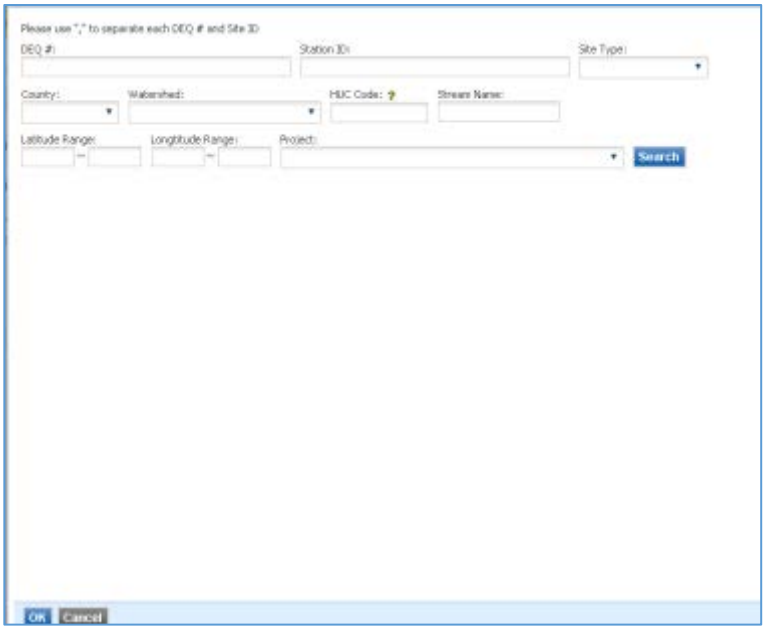
Use the search criteria in **Site Related Information**, **Project Related Information** and/or **Sample Data** to narrow your search. It is not necessary to have entries in each block.



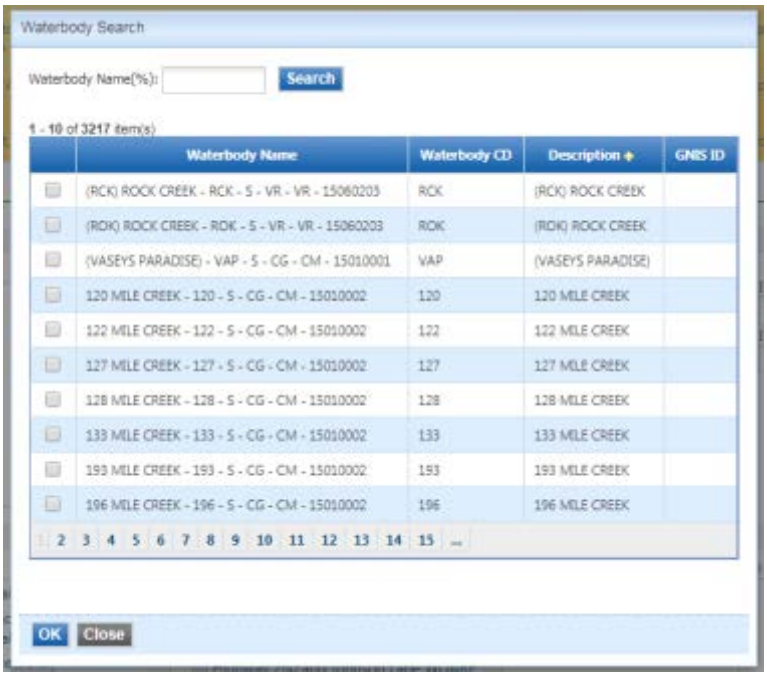
Query Tips:

- Criteria can be entered via check boxes, drop-down boxes, sub-query, or direct entry.
- The  symbol above a search box will allow for an addition of items to the search box. A new dialog box will be initiated, and the user may enter criteria for a sub-query for the item in question.
- The  symbol above a search box allows for clearing all checked boxes contained in the box.
- Where allowed, multiple direct entry items in a single box should be separated by a comma and a space.
- For additional information on contents of the search page or sub-query dialogs, see the link at the end of this quick-start guide.
- Example subquery forms are shown below.

Subquery form for sites



Subquery form for waterbodies

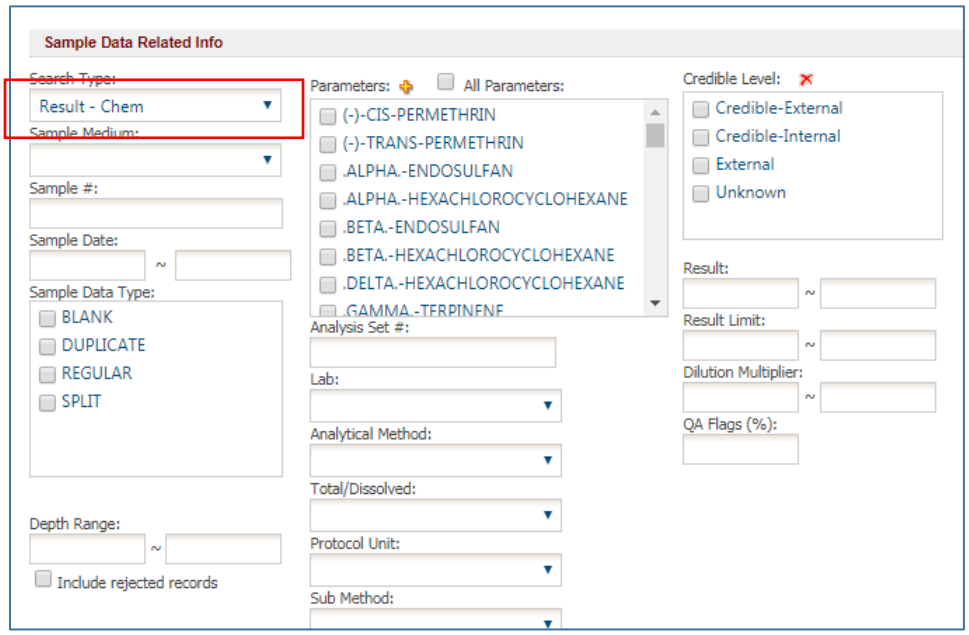


Query Tips:

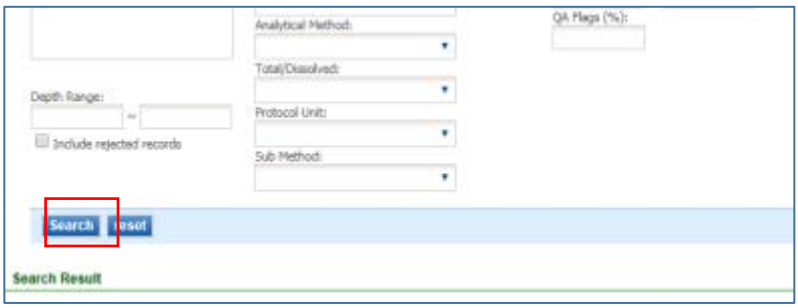
- It is not necessary to know complete waterbody names or other query criteria to execute a sub-query; partial entries will suffice, as implicit wildcards are incorporated. ADWR well numbers (starting with "55-") may be entered in the **Station ID** field.
- Note that for waterbodies, multiple entries/selections may be necessary to retrieve all data associated, as waterbodies are segmented by Hydrologic Unit Codes (HUCs).
- Click the OK button below to return to the main query page.

Sample Data Related Info

For water quality chemistry data, set the **Search Type** to "Result-Chem."

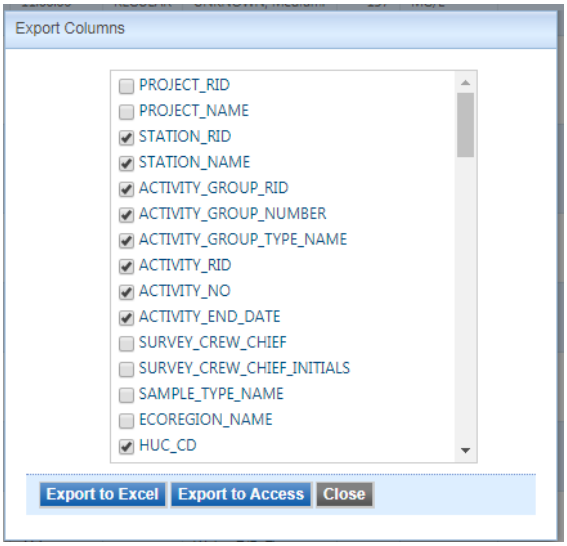


Click the **Search** button at the bottom of the page.



Refine your search if necessary to get the data required. Click the search button again to re-execute the new search.

Results may be exported to either an Excel spreadsheet or Access table by clicking the Export button below the results. Check or uncheck the individual fields you wish to export. You should get a prompt for opening or saving the file if using the IE browser. Note: Though you can still download, you may not be prompted with these options if using other browsers.

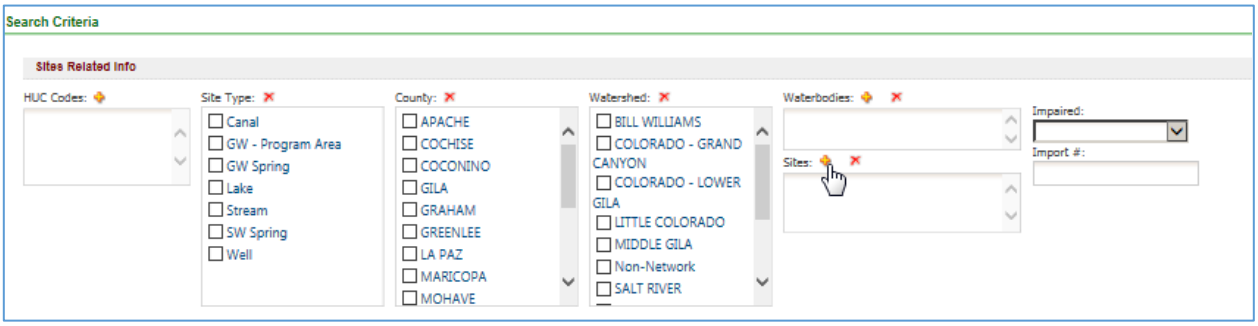


Query by Latitude and Longitude Range

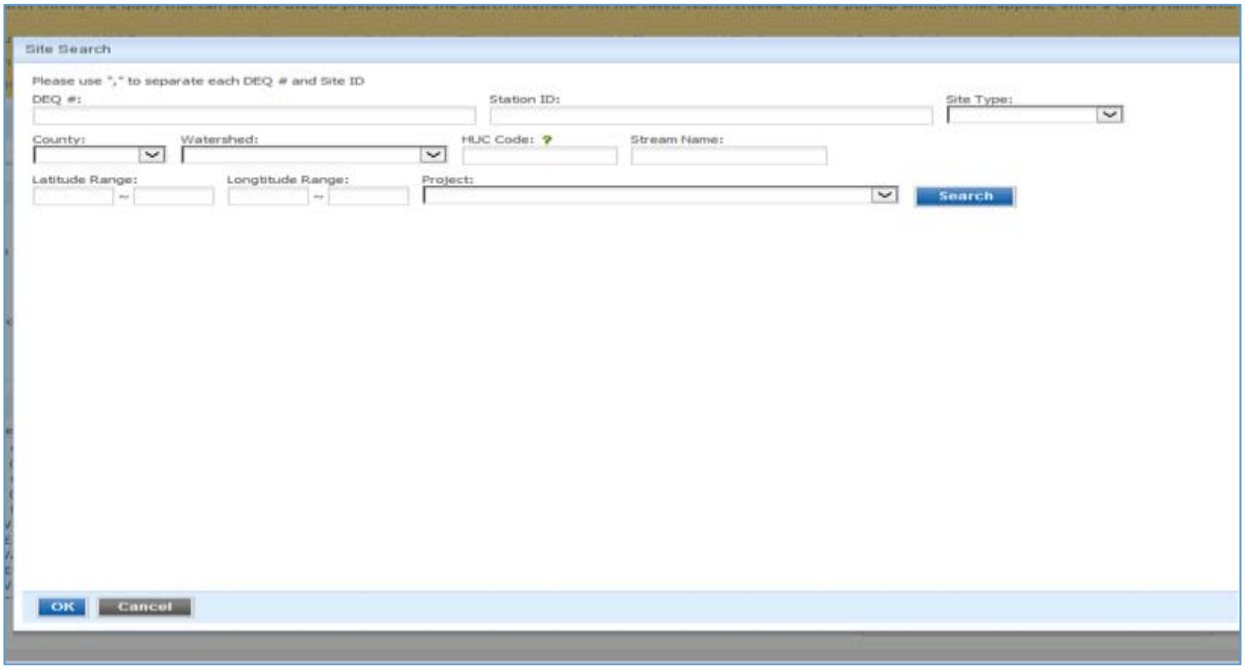
For ground water queries, it is suggested that latitude and longitude range query reports be generated to ensure you capture all the data available within your area of interest. Blocks should be limited in size to retrieve no more than approximately 50 wells in a retrieval; experience and database limitations have shown that more than this in a retrieval is unwieldy and may cause problems in exporting. A trial-and-error iterative process may be necessary to size the search block appropriately. You may successively query as many blocks as necessary for your needs.

You will use the **Site Related Info** section and the Sites criteria in this section to establish the latitude and longitude ranges for the query. Tools such as ADEQ's eMaps and Google Earth may be used to obtain the latitude and longitude coordinates for the area of interest.

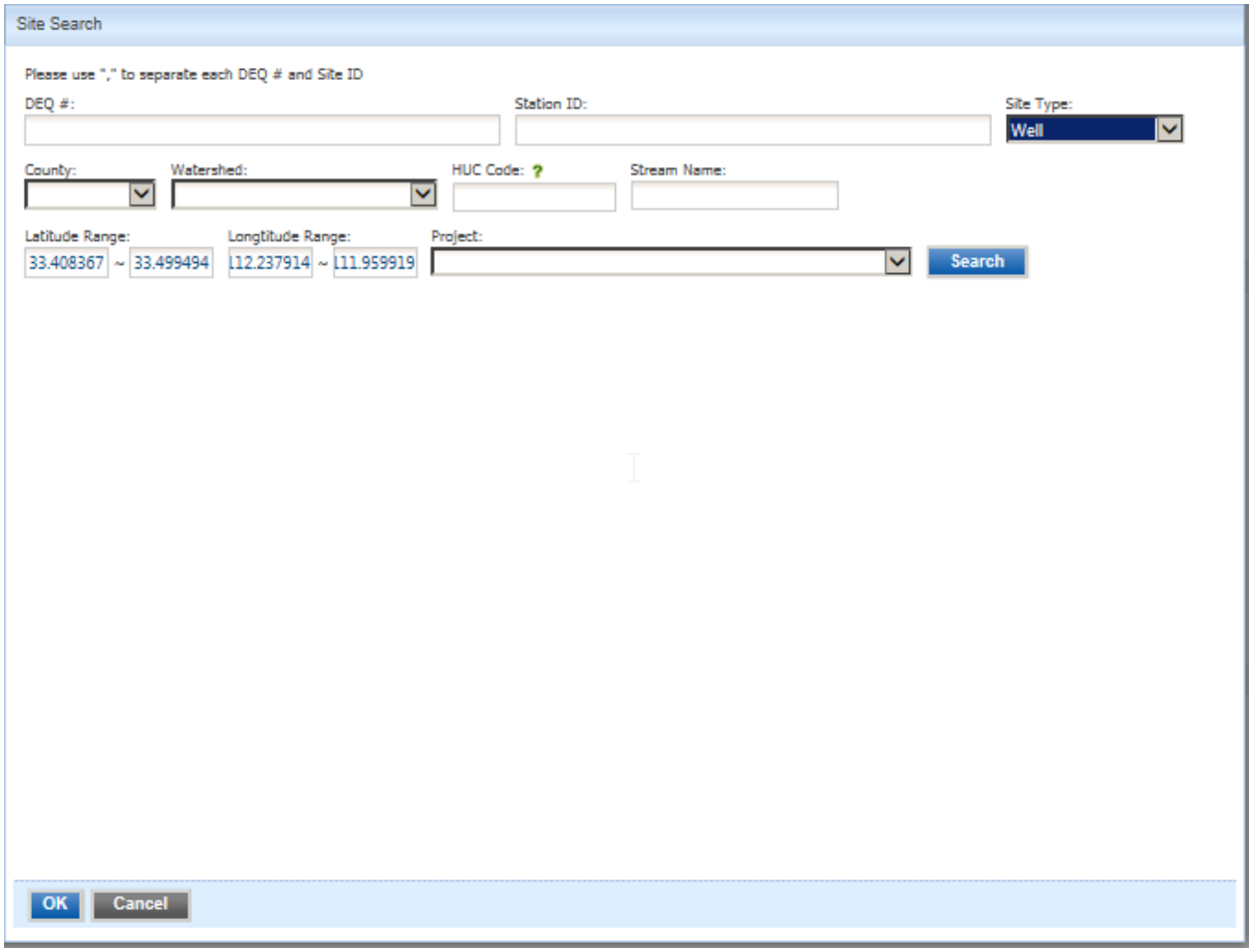
To query by latitude/longitude blocks, click on the icon following "Sites:" as shown below.



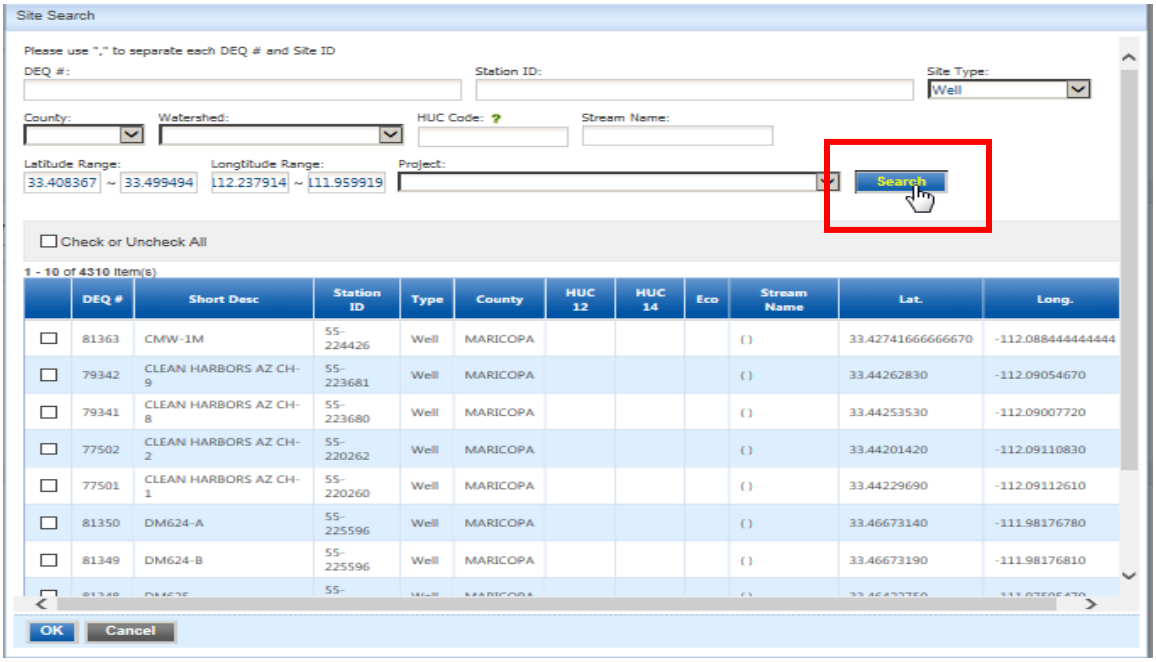
You should see the **Site Search** pop up box. You will need to populate the Site Type and Latitude Range and Longitude Range data entry fields. Use Degree Decimal aka Decimal Degree format for the query as shown in the Site Search pop up box in the second image below (latitude DD.DDDDDD and longitude -DDD.DDDDDD).



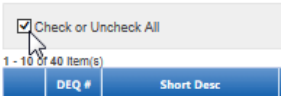
Use the drop down box to select "Well" for **Site Type**. You will need to enter in the latitude and longitude range in the data fields. Note that the longitude must be preceded by a negative sign. Enter the range with lowest value first and larger value second. Note due to the negative sign this will have the larger negative number (which is a smaller value relative to the other) being entered first and the second smaller negative number (which is a larger value relative to the other) being added second.

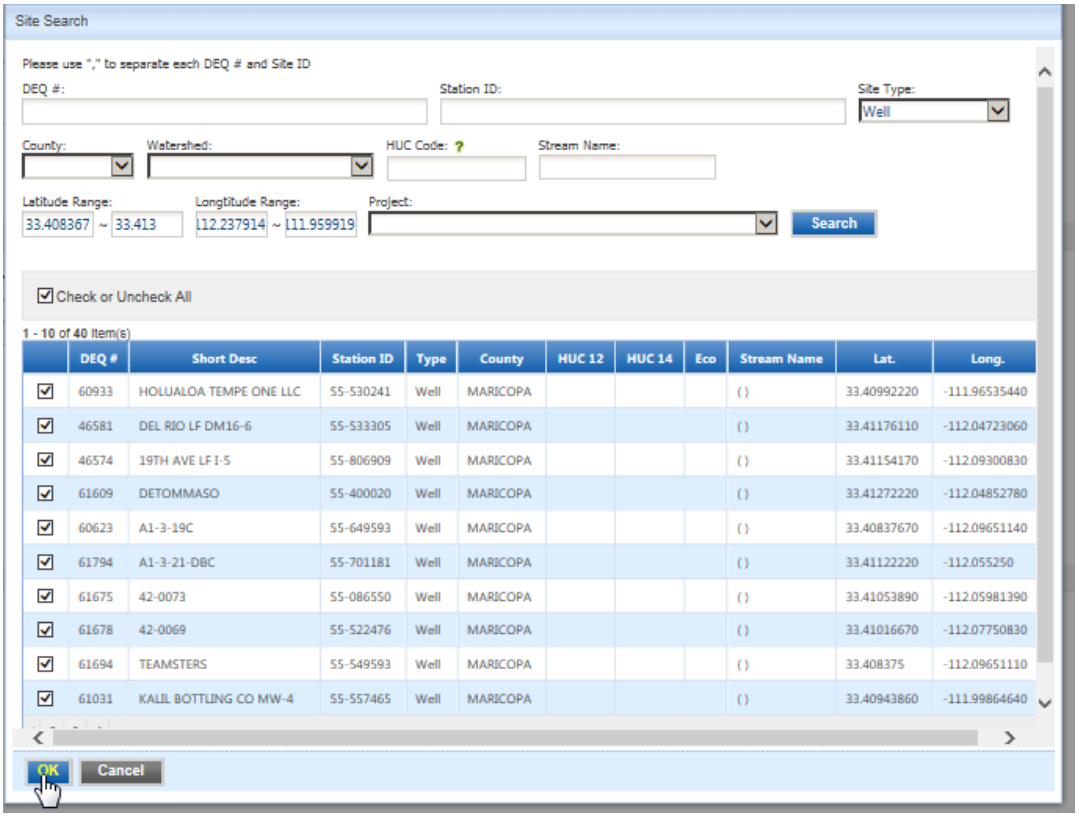


Once the data fields are populated you will click on the Search button as shown below.



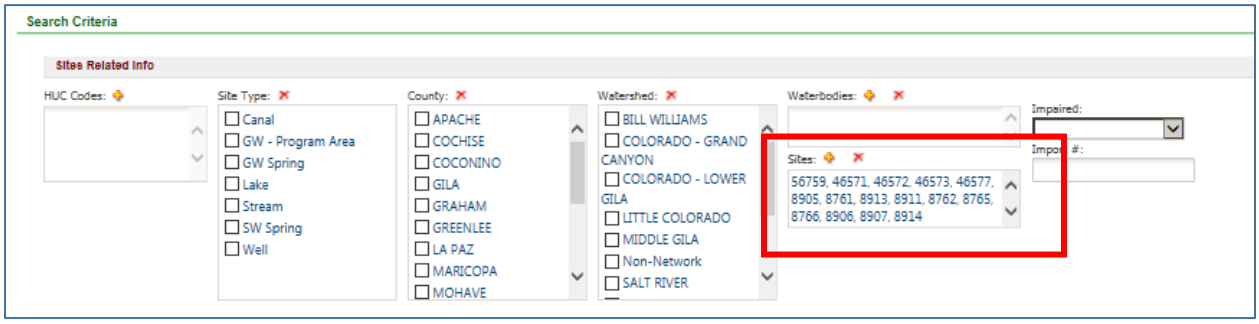
Click on "Check or UnCheck All" to check all.





Click OK. 

Your well selections will be added to the site box on the main query page as shown below.



To retrieve water quality data once the site sub-selections have been made, follow the guidelines presented in the first part of this quick-reference guide to complete your query. If after exporting you need to query additional latitude/longitude ranges, return to **Site Related Info** on the main query page, and begin the query process again with the new range. Skip **Projects Related Info**, and see **Sample Data Related Info** on p.4 to continue with the query process.

Note: Use the reset button at the bottom of the page to ensure previous selections are cleared before beginning a new query.

We value the voice of our customers. To ask questions or provide feedback, please contact:

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Surface Water Quality Data Coordinator	SWDATA@azdeq.gov | 602-771-4711