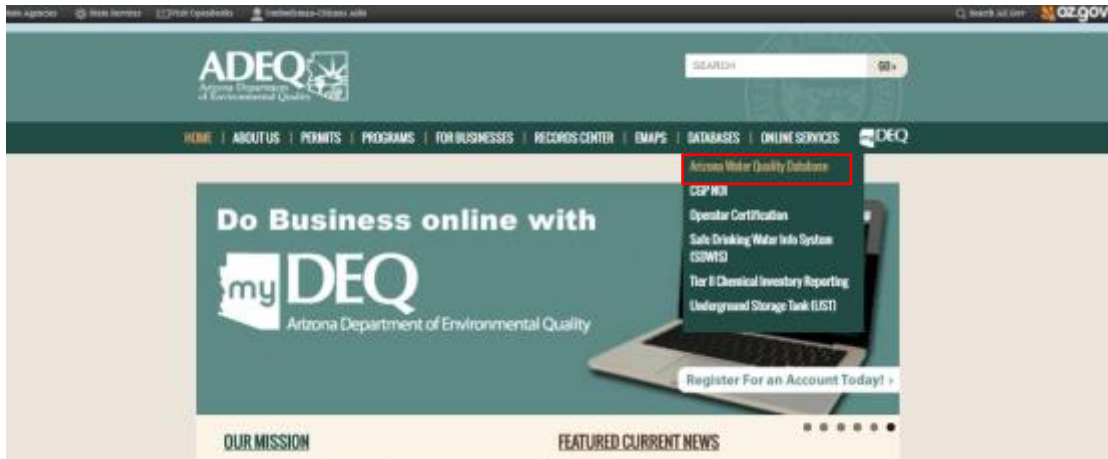


Welcome to the Arizona Water Quality Database! This Getting Started guide shows how to query the database using **Search Criteria** (p. 1) and how to query using a **Latitude and Longitude Range** (p. 6), and includes **More Resources** and **Contact** information (p. 10). The preferred browser for query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

Query by Search Criteria

From main website <http://azdeq.gov/>, click **Databases** on the banner, then select **Arizona Water Quality Database**.



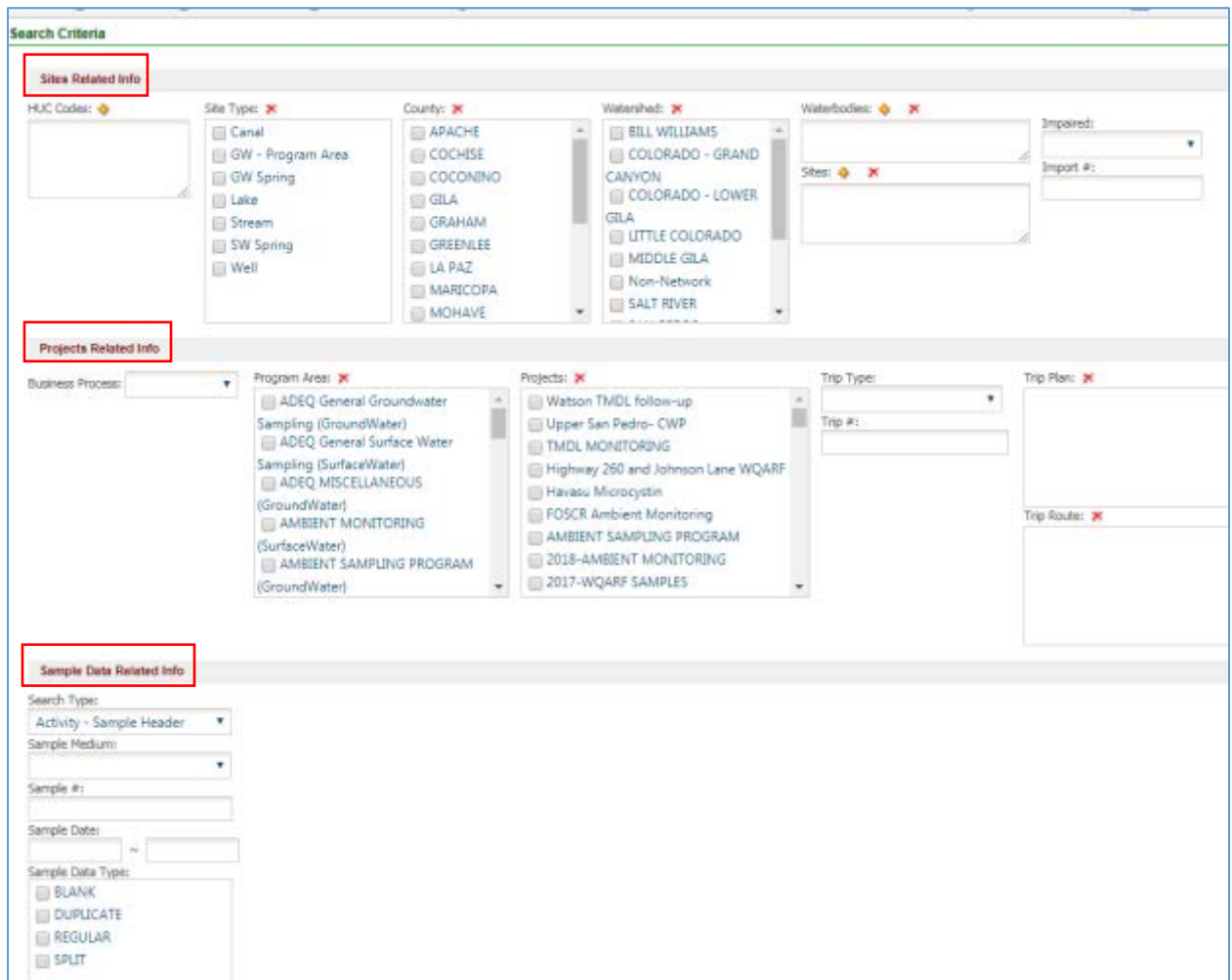
The selection will take you to <http://waterdata.azdeq.gov/AZWQDB>. Select **Search Database** on the main menu bar (login not necessary).



Read the instructions at the top of the search.



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.



Search Criteria

Site Related Info

HUC Codes:

Site Type: Canal
 GW - Program Area
 GW Spring
 Lake
 Stream
 SW Spring
 Well

County: APACHE
 COCHISE
 COCONINO
 GLA
 GRAHAM
 GREENLEE
 LA PAZ
 MARICOPA
 MOHAVE

Watershed: BILL WILLIAMS
 COLORADO - GRAND CANYON
 COLORADO - LOWER
 GILA
 LITTLE COLORADO
 MIDDLE GLA
 Non-Network
 SALT RIVER

Waterbodies:

Imported:

Import #:

Sites:

Projects Related Info

Business Process:

Program Area: ADEQ General Groundwater Sampling (GroundWater)
 ADEQ General Surface Water Sampling (SurfaceWater)
 ADEQ MISCELLANEOUS (GroundWater)
 AMBIENT MONITORING (SurfaceWater)
 AMBIENT SAMPLING PROGRAM (GroundWater)

Projects: Watson TMDL follow-up
 Upper San Pedro- CWP
 TMDL MONITORING
 Highway 260 and Johnson Lane WQARF
 Havasu Microcystin
 FOSCR Ambient Monitoring
 AMBIENT SAMPLING PROGRAM
 2018-AMBIENT MONITORING
 2017-WQARF SAMPLES

Trip Type:

Trip #:

Trip Plan:

Trip Route:

Sample Data Related Info

Search Type:

Activity - Sample Header:



Sample Medium:

Sample #:

Sample Date:

Sample Data Type: BLANK
 DUPLICATE
 REGULAR
 SPLIT

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

Please use "," to separate each CEQ # and Site ID

DEQ #: Station ID: Site Type:

County: Watershed: HUC Code: Stream Name:

Latitude Range: - Longitude Range: - Project:

Subquery form for waterbodies

Waterbody Search

Waterbody Name(%):

1 - 10 of 3217 item(s)

	Waterbody Name	Waterbody CD	Description	GNIS ID
<input type="checkbox"/>	(RCK) ROCK CREEK - RCK - S - VR - VR - 15060203	RCK	(RCK) ROCK CREEK	
<input type="checkbox"/>	(ROK) ROCK CREEK - ROK - S - VR - VR - 15060203	ROK	(ROK) ROCK CREEK	
<input type="checkbox"/>	(VASEYS PARADISE) - VAP - S - CG - CM - 15010001	VAP	(VASEYS PARADISE)	
<input type="checkbox"/>	120 MILE CREEK - 120 - S - CG - CM - 15010002	120	120 MILE CREEK	
<input type="checkbox"/>	122 MILE CREEK - 122 - S - CG - CM - 15010002	122	122 MILE CREEK	
<input type="checkbox"/>	127 MILE CREEK - 127 - S - CG - CM - 15010002	127	127 MILE CREEK	
<input type="checkbox"/>	128 MILE CREEK - 128 - S - CG - CM - 15010002	128	128 MILE CREEK	
<input type="checkbox"/>	133 MILE CREEK - 133 - S - CG - CM - 15010002	133	133 MILE CREEK	
<input type="checkbox"/>	193 MILE CREEK - 193 - S - CG - CM - 15010002	193	193 MILE CREEK	
<input type="checkbox"/>	196 MILE CREEK - 196 - S - CG - CM - 15010002	196	196 MILE CREEK	

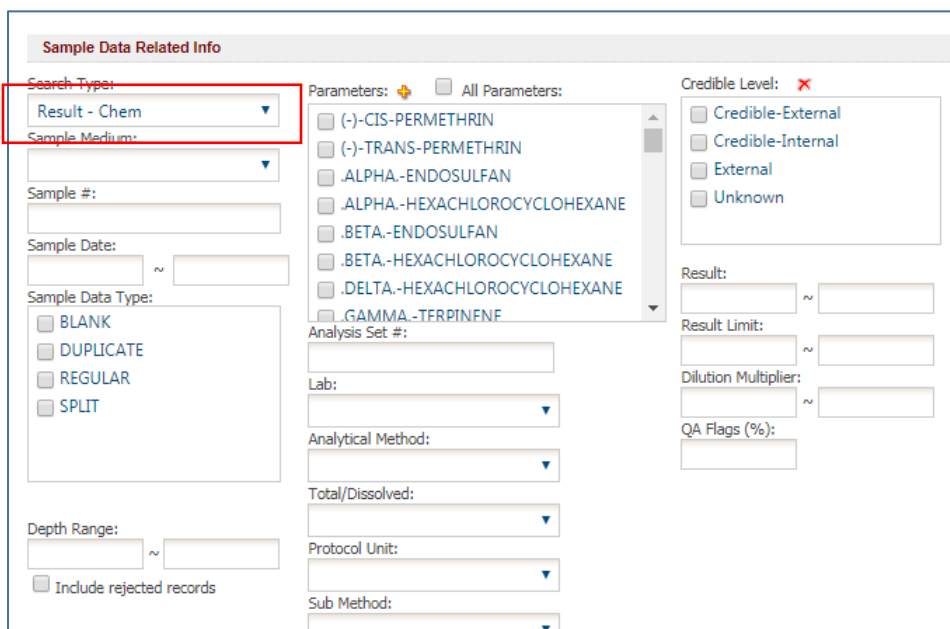
2 3 4 5 6 7 8 9 10 11 12 13 14 15 ...

Query Tips:

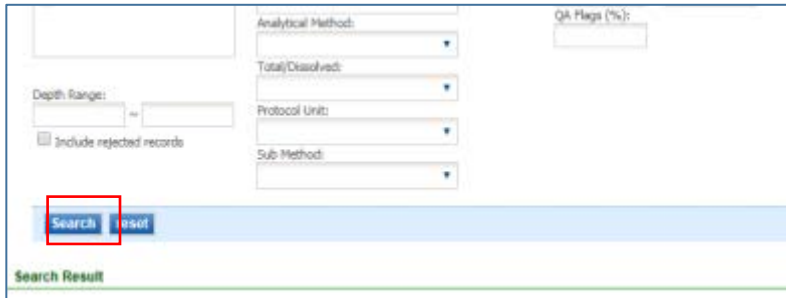
- It is not necessary to know complete waterbody names or other query criteria to execute a sub-query; partial entries will suffice, as implicit wildcards are incorporated. ADWR well numbers (starting with "55-") may be entered in the **Station ID** field.
- Note that for waterbodies, multiple entries/selections 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."

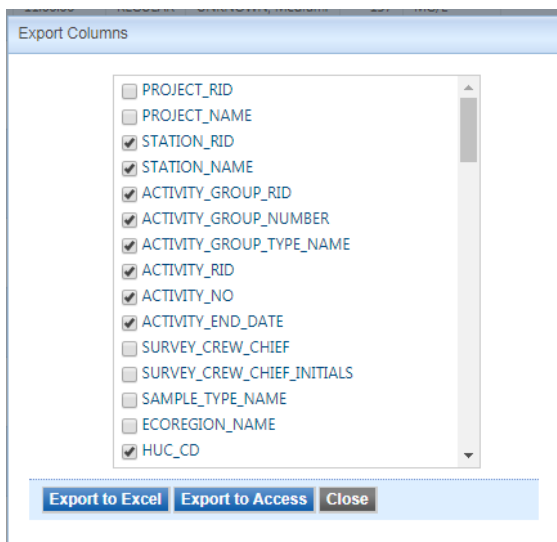


Click the **Search** button at the bottom of the page.



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.

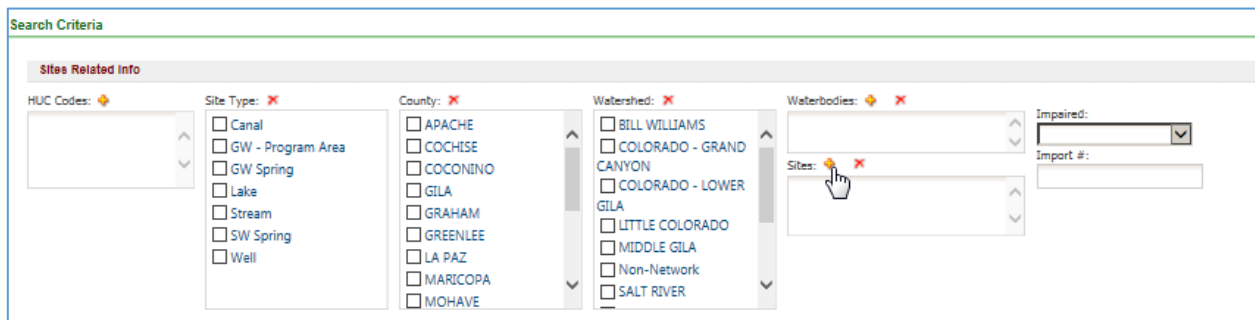


Query by Latitude and Longitude Range

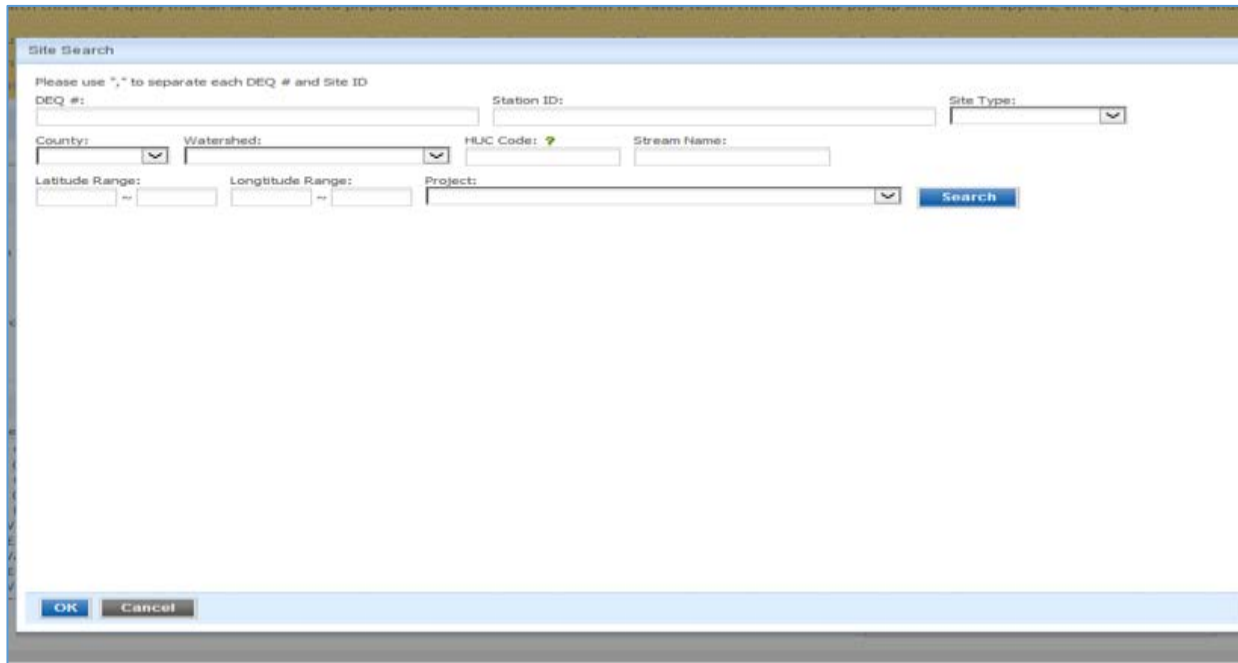
For ground water queries, it is suggested that latitude and longitude range query reports be generated to ensure you capture all the data available within your area of interest. Blocks should be limited in size to retrieve no more than approximately 50 wells in a retrieval; experience and database limitations 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.



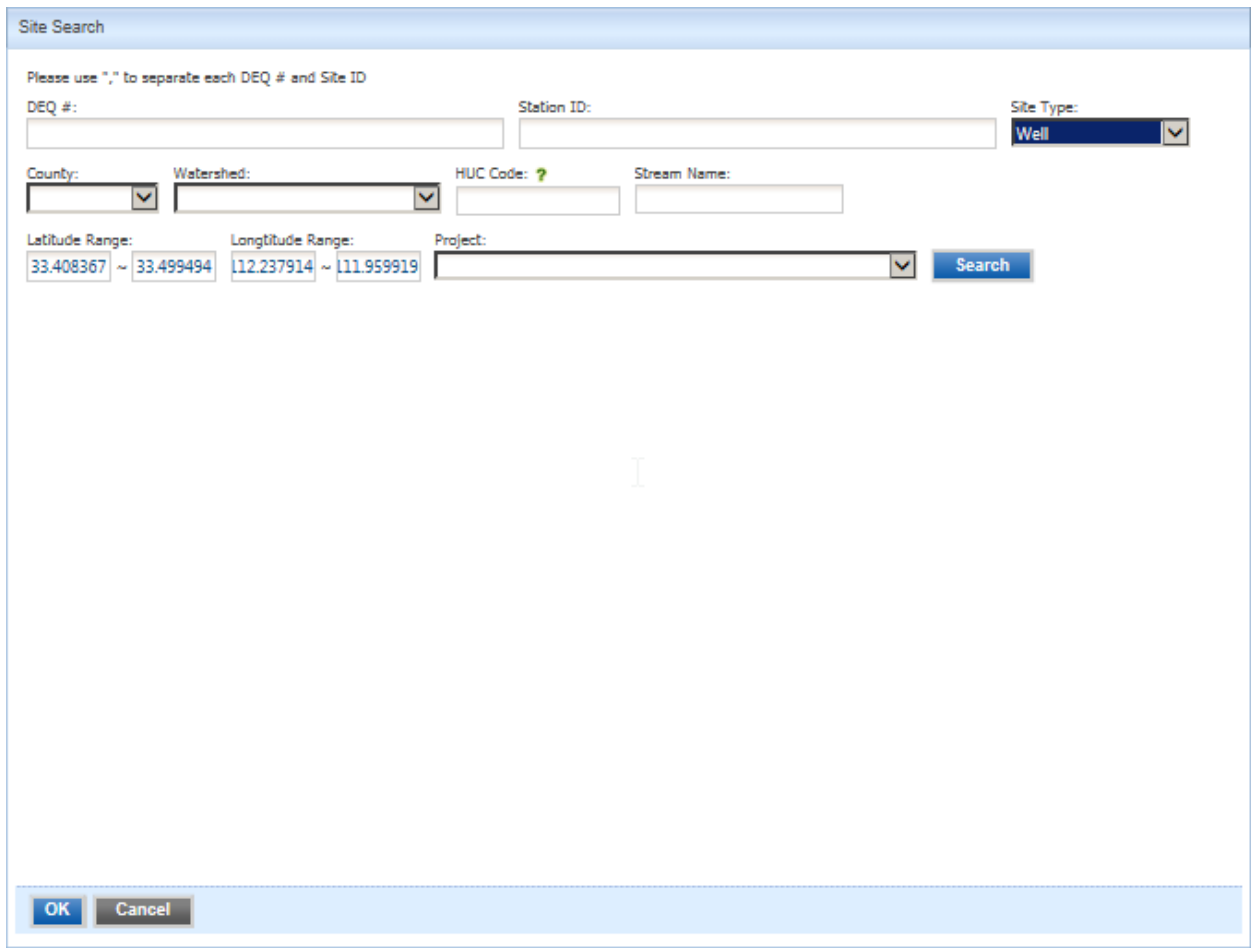
You should see the **Site Search** pop up box. You will need to populate the Site Type and Latitude Range and Longitude Range data entry fields. Use Degree Decimal aka Decimal Degree format for the query as shown in the Site Search pop up box in the second image below (latitude DD.DDDDDD and longitude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



The screenshot shows a 'Site Search' dialog box with the following fields and controls:

- DEQ #:
- Station ID:
- Site Type:
- County:
- Watershed:
- HUC Code:
- Stream Name:
- Latitude Range: ->
- Longitude Range: ->
- Project:
- Search:
- OK:
- Cancel:

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.



The screenshot shows a web form titled "Site Search" with the following fields and controls:

- DEQ #:
- Station ID:
- Site Type: (dropdown menu)
- County: (dropdown menu)
- Watershed: (dropdown menu)
- HUC Code: (with a question mark icon)
- Stream Name:
- Latitude Range: ~
- Longitude Range: ~
- Project: (dropdown menu)
-
-

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

Please use "," to separate each DEQ # and Site ID

DEQ #: _____ Station ID: _____ Site Type: **Well**

County: _____ Watershed: _____ HUC Code: ? _____ Stream Name: _____

Latitude Range: 33.408367 ~ 33.499494 Longitude Range: 112.237914 ~ 111.959919 Project: _____

Search

Check or Uncheck All

1 - 10 of 4310 Item(s)

	DEQ #	Short Desc	Station ID	Type	County	HUC 12	HUC 14	Eco	Stream Name	Lat.	Long.
<input type="checkbox"/>	81363	CMW-1M	55-224426	Well	MARICOPA				()	33.42741666666670	-112.088444444444
<input type="checkbox"/>	79342	CLEAN HARBORS AZ CH-9	55-223681	Well	MARICOPA				()	33.44262830	-112.09054670
<input type="checkbox"/>	79341	CLEAN HARBORS AZ CH-8	55-223680	Well	MARICOPA				()	33.44253530	-112.09007720
<input type="checkbox"/>	77502	CLEAN HARBORS AZ CH-2	55-220262	Well	MARICOPA				()	33.44201420	-112.09110830
<input type="checkbox"/>	77501	CLEAN HARBORS AZ CH-1	55-220260	Well	MARICOPA				()	33.44229690	-112.09112610
<input type="checkbox"/>	81350	DM624-A	55-225596	Well	MARICOPA				()	33.46673140	-111.98176780
<input type="checkbox"/>	81349	DM624-B	55-225596	Well	MARICOPA				()	33.46673190	-111.98176810
<input type="checkbox"/>	81348	DM624-C	55-225596	Well	MARICOPA				()	33.46673250	-111.98176840

OK **Cancel**

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

Check or Uncheck All

1 - 10 of 40 Item(s)

DEQ # Short Desc

Please use "," to separate each DEQ # and Site ID

DEQ #: _____ Station ID: _____ Site Type: **Well**

County: _____ Watershed: _____ HUC Code: ? _____ Stream Name: _____

Latitude Range: 33.408367 ~ 33.413 Longitude Range: 112.237914 ~ 111.959919 Project: _____

Search

Check or Uncheck All

1 - 10 of 40 Item(s)

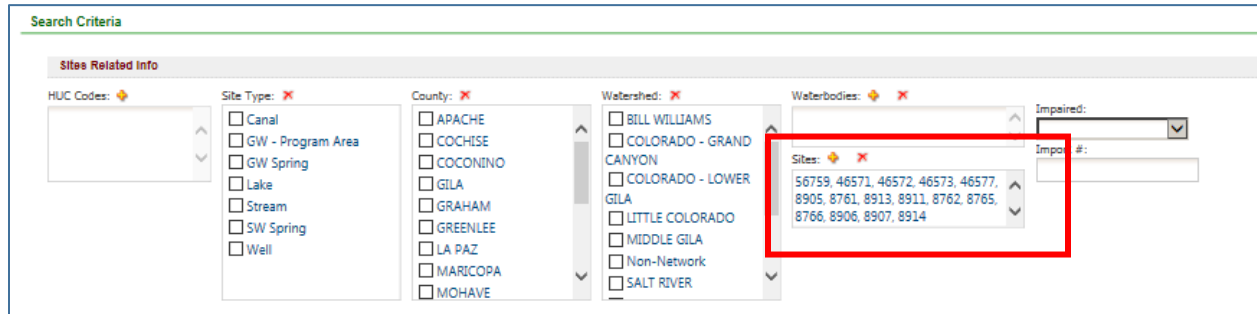
	DEQ #	Short Desc	Station ID	Type	County	HUC 12	HUC 14	Eco	Stream Name	Lat.	Long.
<input checked="" type="checkbox"/>	60933	HOLLUALOA TEMPE ONE LLC	55-530241	Well	MARICOPA				()	33.40992220	-111.96535440
<input checked="" type="checkbox"/>	46581	DEL RIO LF DM16-6	55-533305	Well	MARICOPA				()	33.41176110	-112.04723060
<input checked="" type="checkbox"/>	46574	19TH AVE LF I-5	55-806909	Well	MARICOPA				()	33.41154170	-112.09300830
<input checked="" type="checkbox"/>	61609	DETOMMASO	55-400020	Well	MARICOPA				()	33.41272220	-112.04852780
<input checked="" type="checkbox"/>	60623	A1-3-19C	55-649593	Well	MARICOPA				()	33.40837670	-112.09651140
<input checked="" type="checkbox"/>	61794	A1-3-21-DBC	55-701181	Well	MARICOPA				()	33.41122220	-112.055250
<input checked="" type="checkbox"/>	61675	42-0073	55-086550	Well	MARICOPA				()	33.41053890	-112.05981390
<input checked="" type="checkbox"/>	61678	42-0069	55-522476	Well	MARICOPA				()	33.41016670	-112.07750830
<input checked="" type="checkbox"/>	61694	TEAMSTERS	55-549593	Well	MARICOPA				()	33.408375	-112.09651110
<input checked="" type="checkbox"/>	61031	KALLI BOTTLING CO MW-4	55-557465	Well	MARICOPA				()	33.40943860	-111.99864640

OK **Cancel**



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.

For more resources on the AZ Water Quality Database, visit <http://azdeq.gov/wqdatabase-user-resources>

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

Lowell Carty (Ground Water)
Aiko Condon (Surface Water)

Carty.Lowell@azdeq.gov | 602-771-4413
Condon.Aiko@azdeq.gov | 602-771-4448