

## WDEQ GEM Data Query Tool

### Query Wizard

Use the Query Wizard to create ad-hoc queries in order to view GEM data. The wizard consists of 4 steps listed in the left-menu: Data Types, Display Fields, Data Filters, and Results. Going through all the steps will result in a results grid with data that can be exported to Excel.

### Data Types

The data types represent the different categories of data. Select one or more data types that you wish to view.

Query Wizard

**Data Types**  
Display Fields  
Data Filters  
Results

Select the data type(s) that you wish to view. Each data type will add more filtering options based on the data type checked.

Company  Facility  Contacts  Permit  Well  Injection Interval

Proceed

**Company:** Company information including company name, state, address, etc.

**Facility:** Facility information including facility name, number, address, etc.

**Contact:** Facility-contact information including contact name, address, email, etc.

**Permit:** Permit information including permit number, status, date application received, date issued, etc.

**Well:** Permit well information including well name, status, lat/long, state subclass, depth drilled, etc.

**Interval:** Well interval information including interval name, water classification, injection rate, formation elevations, etc.

### Display Fields

For each selected data type, you will be able to select the fields that you want displayed in your results grid. Check all fields that you wish to view and click proceed.

### Count Values

If you want to count a particular field instead, select the 'Select fields that you would like to count' option.

Query Wizard

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Select fields that you would like to see in the result set.  
 Select fields that you would like to count

| Data Type | Select Fields   |
|-----------|---|
| Company   | <input checked="" type="checkbox"/> State <input type="checkbox"/> Company Name <input type="checkbox"/> City |

Then, select the field that you want to get a count of. In this example, we will get a count of companies by state when you get to the Results step.

### Data Filters

This step allows you to pre-filter the data based on the selected data types. If no filters are set, all results will be returned when you proceed to the results step. The data filter grid consists of three columns. The first column Data Type refers to the data type from the first step. The Field Name column refers to the field in which the filter will apply. The Filter Value column contains the filter option(s). There are 3 types of filters:

**Text:** Type in the value that you want to search on. The following example will search for any companies that **contain** the words 'ab':

| Data Type | Field Name   |   |
|-----------|--------------|---|
| Company   | Company Name | Like: <input style="width: 80%;" type="text" value="ab"/> |

**Checkbox list:** Check all values for a given field that you wish to see. ***If no checkboxes are selected, all values will be displayed in the results grid.*** The following example will return all authorized and withdrawn permits:

|        |               |  |  |   |   |
|--------|---------------|--|--|---|---|
|        |               | <input checked="" type="checkbox"/> Authorized | <input type="checkbox"/> Canceled            | <input type="checkbox"/> Deficient      | <input type="checkbox"/> Denied               |
| Permit | Permit Status | <input type="checkbox"/> Expired               | <input type="checkbox"/> In Progress         | <input type="checkbox"/> Not Authorized | <input type="checkbox"/> Pending              |
|        |               | <input type="checkbox"/> Pending Under Review  | <input type="checkbox"/> Renewal In Progress | <input type="checkbox"/> Transferred    | <input checked="" type="checkbox"/> Withdrawn |

**Date:** Specify start and/or end dates on date time fields. ***If no dates are set, all records will be displayed.*** The following example will return all permits that have a Date Application Received greater than or equal to 9/1/2011:

| Data Type | Field Name                | Start Date  | End Date                                 |
|-----------|---------------------------|---|--|
| Permit    | Date Application Received | <input style="width: 80%;" type="text" value="9/1/2011"/> | <input style="width: 80%;" type="text"/> |

## Results

Once all filters have been set you can proceed onto the Results step. This step will display a data grid with all results returned based on the data fields selected and the data filters that were applied. From this grid you can:

- Export to entire data grid to Excel
- Sort the grid ascending or descending per column
- Additional filtering per column
- Page through the data
- Chart the data

2721 record(s) found. Click a column heading to sort ascending. Click the column heading again to sort descending. Use the text boxes underneath the column headings to filter the data further.

The screenshot shows a data grid with the following columns: Company Name, State, Facility Name, Facility Number, Permit Number, Permit Status, and Type. The grid contains 10 visible rows of data. The interface includes a toolbar with 'Clear Filters', 'Export to Excel', and 'Chart This Data' buttons. Below the grid is a pagination bar showing 'Page size: 100' and '2721 items in 28 pages'.

| Company Name                | State    | Facility Name                           | Facility Number | Permit Number   | Permit Status | Type |
|-----------------------------|----------|---|-----------------|-----------------|---------------|------|
| 2 C All Events Center, Inc. | Wyoming  | Septic System                           | WYS-007-029     | WQD 82-040      | Expired       |      |
| 2 C All Events Center, Inc. | Wyoming  | Septic System                           | WYS-007-029     | 5E3-98-1        | Authorized    |      |
| 3 Creek Ranch Subdivision   | Wyoming  | STORM WATER DRAINS (RESIDENTIAL HOUSES) | WYS-039-103     | Rule Authorized | Authorized    |      |
| 3 Creek Ranch Subdivision   | Wyoming  | STORM WATER DRAINS AFFORDABLE HOUSING   | WYS-039-104     | Rule Authorized | Authorized    |      |
| 3 Creek Ranch Subdivision   | Wyoming  | Storm Water Drains (Lot 6)              | WYS-039-00128   | Rule Authorized | Authorized    |      |
| 3 Creek Ranch Subdivision   | Wyoming  | STORM WATER INFILTRATOR SYSTEMS         | WYS-039-100     | Rule Authorized | Authorized    |      |
| 44 Mag Production, Inc.     | Colorado | C. SMITH 7-12I                          | WYS-005-267     | 5C5-1           | Denied        |      |
| 44 Mag Production, Inc.     | Colorado | C. Smith 3-12I                          | WYS-005-276     | 5C5-3           | Authorized    |      |
| 44 Mag Production, Inc.     | Colorado | Smith 11SR-2-54-75                      | WYS-005-00413   | 5C5-1           | Authorized    |      |
| 44 Mag Production, Inc.     | Colorado | Smith 3SR-2-54-75                       | WYS-005-00472   | 5C5-1           | Authorized    |      |