

CWNS 2008 Reports

Contents

1. Introduction	3
1.1 Overview	3
1.2 Previous Surveys	3
1.3 Scope of CWNS 2008 Data Collection	3
1.4 Scope of CWNS 2008 Reports	4
2. Navigating CWNS 2008 Reports	5
2.1 Entering CWNS 2008 Reports	5
2.2 Application Navigation	5
2.2.1 Tabs	5
2.2.2 Breadcrumbs and links	5
2.3 Resources	5
3. Facility Fact Sheet Tab	6
3.1 Introduction	6
3.2 Selection Criteria	6
3.2.1 Basic Search	6
3.2.2 Facility/Project Advanced Search	7
3.3 Results	10
4. Summary Reports	13
4.1 Introduction	13
4.2 Selection Criteria	13
4.2.1 Data Area of Interest	13
4.2.2 Report Output	14
4.2.3 Geographic Area of Interest	16
4.3 Run Report	21
4.4 Results	21
4.4.1 Charts and Graphs	21
4.4.2 Detailed Reports	22

CWNS 2008 Reports – Online Help

5. Detail Reports	23
5.1 Introduction	23
5.2 Selection Criteria	23
5.2.1 Data Area of Interest.....	23
5.2.2 Geographic Area of Interest.....	25
5.2.3 Unit Processes of Interest	29
5.3 Run Report	29
5.4 Results	30
6. Data Downloads	30
Appendices.....	31
Appendix A: Customizing Detailed Reports	31

1. Introduction

1.1 Overview

The U.S. Environmental Protection Agency (EPA), in partnership with the States, conducts the Clean Watersheds Needs Survey (CWNS) to identify and document the cost of the capital needs required to meet the water quality and water-related public health goals of the Clean Water Act. The CWNS is required under section 205(a) of the Clean Water Act and section 516(b) of the Water Quality Act of 1987, which amended the Clean Water Act.

Every four years, the States and EPA collect information about publicly owned wastewater collection and treatment facilities; combined sewer overflow (CSO) control facilities; stormwater management activities; nonpoint source (NPS) pollution control projects; and decentralized wastewater treatment facilities. The information collected about these facilities and projects includes estimated needs, costs and technical information; location and contact information; facility population served, flow, effluent, and unit process information; and NPS best management practices (BMPs).

1.2 Previous Surveys

CWNS 2008 is the 15th survey. The first survey occurred in 1972, and the most recent survey prior to this one addressed needs as of January 1, 2004. Between 1972 and 1992, EPA conducted eleven biennial surveys on a facility-by-facility basis. During that period, the survey focused on providing an estimate of needed publicly owned wastewater treatment works (POTWs) and an inventory of existing and proposed wastewater conveyance and treatment facilities in the United States.

EPA broadened this focus in the CWNS 1992, reflecting an expansion of types of projects eligible for funding under the Clean Water State Revolving Fund (CWSRF) program. Since 1992, EPA and States have expanded data collection to include and/or improve the documentation of:

- Small communities' needs and costs
- Municipal stormwater programs' needs and costs
- Nonpoint Source (NPS) pollution Best Management Practice (BMP) implementation needs and costs
- Combines Sewer Overflow (CSO) needs and costs
- Sanitary sewer systems and sanitary sewer overflow (SSO) technical information
- Geographic location data, including watersheds, for each facility and project

The Reports to Congress and data from the 2000 and 2004 surveys are available online at <http://www.epa.gov/cwns>.

1.3 Scope of CWNS 2008 Data Collection

CWNS 2008 includes needs and relevant technical information (flow, population, discharge, effluent, unit process, and utility management data) for publicly owned municipal wastewater collection and treatment, CSO correction, municipal storm water management, NPS pollution control, and recycled water distribution. To meet some of the goals and objectives set by EPA and the States, several changes will be implemented in 2008, including:

CWNS 2008 Reports – Online Help

- The definition of needs is expanded to include 20-year needs estimates. For 2008, EPA defines a need as the unfunded capital costs of projects that address a water quality or public health problem existing as of January 1, 2008 or expected to occur within the next 20 years (by December 31, 2027).
- CWSRF eligibility is no longer a requirement for CWNS eligibility. States may enter needs for facilities and projects that are not CWSRF eligible, as long as they meet the CWNS eligibility and documentation criteria. States will then identify and certify the portion of each need that is CWSRF eligible, according to national CWSRF eligibility rules.
- Several needs categories are changed or refined. Decentralized Wastewater Management Needs (formally Category VII-L) is its own category (Category XII). Stormwater Management Program Needs (Category VI) has four new subcategories and includes needs in unregulated communities (formerly captured in Category VII-D: NPS Urban). Estuary Management is included in the NPS Needs categories as Category VII-M (formerly XI). Category XIII: Planning is added to collect the needs and costs for planning, such as developing watershed-based plans and source water protection plans. Details on the CWNS 2008 needs categories are outlined in the Data Dictionary.
- A new Web-based data entry portal (DEP) was implemented to make data entry easier. It was integrated with other EPA data systems, allowed electronic document submittal, and provided enhanced cost curves. It allowed local users to submit CWNS data to their States electronically and multiple State users (e.g. stormwater personnel entering stormwater needs) to submit data.
- The scope of eligible nonpoint source (NPS) pollution control projects now includes both needs addressing impaired waters and NPS prevention activities for all waters.
- In addition to Unit Process data, Utility Management data is being collected. This supports EPA's SI initiative by helping to assess the degree of adoption and implementation of various voluntary utility management programs by facilities and collecting more current and complete treatment technology data.

1.4 Scope of CWNS 2008 Reports

The following options for data access and reports are provided:

- **Facility/Project Fact Sheets** summarizes data for selected facility(ies)/project(s) in an easy to read PDF fact sheet(s).
- **Summary Reports** display selected CWNS data for chosen geographic areas in bar graphs and pie charts.
- **Detail Reports** display selected CWNS data for chosen geographic areas. The output is displayed in tables which can be exported as csv files.
- **Data Download** provides a downloadable Microsoft Access database of all available data elements for a selected geographic area (state or nation).

2. Navigating CWNS 2008 Reports

2.1 Entering CWNS 2008 Reports

Users can enter the CWNS 2008 Reports through the CWNS website (<http://www.epa.gov/cwns>), and then selecting the “2008 Data & Reports” option on the top navigation bar.

Note: Internet Explorer 7.0 or higher is recommended, however, performance is better with Internet Explorer 8.0 or higher.

2.2 Application Navigation

2.2.1 Tabs

The tabs across the top of the page allow users to navigate among the different options for data access and reports. The current tab is white; all other tabs are light blue (Figure 1).

- Move to a different report type by clicking on the desired tab.



Figure 1: Tab navigation

2.2.2 Breadcrumbs and links

The Breadcrumbs (e.g., **You are here:** [EPA Home](#) >> [OW](#) >> [OWM](#) >> [CWNS](#)>> [Detail Reports](#)) in the top left corner of the screen indicate the current page and provide a link to return to any of the listed pages (Figure 1).

2.3 Resources

The following resources are available to assist users:

- The Help link launches a pop-up window with the CWNS 2008 Reports User Manual.
- The Data Dictionary link launches a pop-up window with a list of all the data elements, included the detail reports and Microsoft Access database, and their definitions.

For specific questions about the Reports or the data, contact the EPA CWNS team at cwns@epa.gov.

3. Facility Fact Sheet Tab

3.1 Introduction

Facility Fact Sheet summarizes CWNS data for chosen facility/project(s) in an easy to read PDF fact sheet. Users can search for specific Facility Fact Sheets using either the Basic Search or Advanced Search.

- *Click on the link [Basic Search](#) to do a quick search or the link [Advanced Search](#) to do a more detailed search (Figure 2).*

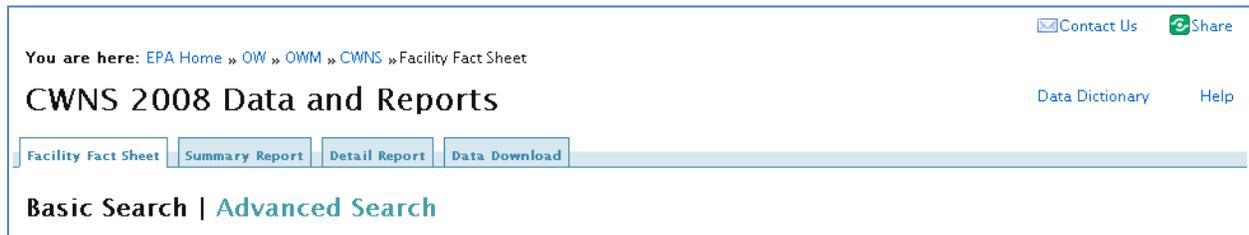


Figure 2: Facility Fact Sheet

3.2 Selection Criteria

3.2.1 Basic Search

The Basic Search allows users to perform a keyword search of Facilities/Projects, either nationwide or within a selected state. Users can search for text that is part of the CWNS Number, Facility/Project Name, NPDES Permit Number, County, Watershed, and Authority data fields (Figure 3).

- *Select the geographic area for the search, either a specific state or the entire nation. Note: Alaska, American Samoa, North Dakota, Rhode Island, and Virgin Islands are not listed, because they did not report data for CWNS 2008.*
- *Type the keyword(s) in the text box. Keyword(s) can be a full phrase or part of a phrase included in the Facility/Project Name, CWNS Number, Permit, County, Watershed, or Authority.*
- *Click .*



Figure 3: Facility Fact Sheet - Basic Search

3.2.2 Facility/Project Advanced Search

The Advanced Search allows users to search the Facilities/Projects on one or more of the criteria provided in Table 3-1 (Figure 4).

- After entering one or more search criteria, click .
- Click to delete all entered search criteria from the Advanced Search

CWNS 2008 Data and Reports
[Data Dictionary](#) [Help](#)

Facility Fact Sheet
Summary Report
Detail Report
Data Download

Basic Search | Advanced Search

Facility/Project Name <input style="width: 90%;" type="text"/>	State <input style="width: 90%;" type="text" value="Nation"/> <small>AK, AS, ND, RI and VI did not report data.</small>
Authority <input style="width: 90%;" type="text"/>	System Name <input style="width: 90%;" type="text"/>
County Name <input style="width: 90%;" type="text"/>	Watershed <input style="width: 90%;" type="text"/>
Overall Type <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> Decentralized Wastewater Treatment Nonpoint Source Plan Development </div>	Facility Type <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> Agriculture - Animals Agriculture - Cropland Biosolids Handling Facility </div>
Cost Categories <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> Secondary Treatment Advanced Treatment Infiltrate/Inflow Correction </div>	Permit Number <input style="width: 90%;" type="text"/>
Total Needs <input style="width: 90%;" type="text"/> (\$, Official, Adjusted) <div style="margin-top: 5px;"> > <input style="width: 20px;" type="text"/> </div>	Present Design <input style="width: 90%;" type="text"/>
Document Published Date <input style="width: 90%;" type="text"/> <div style="margin-top: 5px;"> < <input style="width: 20px;" type="text"/> </div>	Present Population <input style="width: 90%;" type="text"/>
Document Type <input style="width: 90%;" type="text"/>	

Figure 4: Facility Fact Sheet - Advanced Search

Table 3-1: Explanation of Advanced Search criteria.

Search Criteria	Explanation
Facility/Project Name	Performs a keyword search on the data field Facility/Project Name. <i>Type the phrase of part of the phrase in the text box.</i>
State	Limits the Facility/Project List to the selected State. The default selection is Nation. A State must be selected in order to search by System Name, County, and/or Watershed. <i>Select the desired State from the dropdown list.</i> Note: Alaska, American Samoa, North Dakota, Rhode Island, and Virgin Islands are not listed, because they did not report data for CWNS 2008.
Authority	Performs a keyword search on the data field Authority. <i>Type the phrase of part of the phrase in the text box.</i>

CWNS 2008 Reports – Online Help

System Name	Limits the Results to the selected System Name in a specified state. <i>First, select a State in the State search criteria. Type the phrase of part of the phrase in the text box to perform a keyword search on the System Name this data field. Or, click  to launch the System Name Lookup and view the list of System Names. Click the radio button of the desired System Name and then <input type="button" value="Select"/> . The selected System Name is populated in the text box.</i>
County	Limits the Results to the selected County. <i>First, select a State in the State search criteria. Type the phrase of part of the phrase in the text box to perform a keyword search on the County name. Or, Click  to launch the County/FIPS Code Lookup and view the list of all Counties/FIPS Codes in the State. Click the radio button of the desired County/FIPS Code and then <input type="button" value="Select"/> . The selected County/FIPS Code is populated in the text box.</i>
Watershed	Limits the Results to the selected Watershed. <i>First, select a State in the State search criteria. Type the phrase of part of the phrase in the text box to perform a keyword search on the Watershed name. Click  to launch the Watershed Lookup and select view the list of all Watersheds in the State. Click the radio button of the desired Watershed and then <input type="button" value="Select"/> . The selected Watershed is populated in the text box.</i>
Overall Type	Limits the Results to the selected Overall Type(s). <i>Select one or more from the following: Wastewater, Decentralized Wastewater Treatment, Point Source, Nonpoint Source, Stormwater, Plan Development. Use the Control key to highlight more than one Overall Type.</i>
Facility Type	Limits the Results to the selected Facility Type. <i>Select one or more Type from the provided list. Use the Control key to highlight more than one Type.</i> Definitions of the Facility Types are available in the Data Dictionary.
Cost Categories	Limits the Results to the selected Cost Categories. <i>Select one or more Cost Category from the provided list. Use the Control key to highlight more than one Cost Category.</i> Definitions of the Cost Categories are available in the Data Dictionary.

CWNS 2008 Reports – Online Help

Total Needs	Limits the Results to facilities/projects that are greater than, less than, or equal to the entered Documented Need Amount. <i>Select either > (greater than), < (less than), or = (equal to) from the dropdown list under the heading Total Need. Then enter a numeric amount in the text box as an integer (no commas, no decimal points). Remember: The search is based on documented needs adjusted to January 1, 2008 dollars.</i>
Document Publish Date	Limits the Results to facilities/projects with documentation entered before, after, or on the specified date. <i>Select either > (after), < (before), or = (on) from the dropdown list under the heading Documentation. Then enter the date in the mm/dd/yyyy format or click  to launch a calendar and select a date.</i>
Document Type	Limits the Results to the selected Document Type. <i>Select one or more Document Type(s) from the list provided. Use the Control key to highlight more than one Document Type.</i>
Permit Number	Limits the Facility/Project List to facilities/projected associated with the entered permit number. <i>Enter the permit number.</i>
Present Flow	Limits the Results to facilities/projects with specified present flow values, in MGD. <i>Select from the dropdown list: Infiltration, Industrial, Municipal, Total or Wet Weather Peak. Select either > (greater than), < (less than), or = (equal to) from the dropdown list under the heading Present Flow. Then enter the flow in MGD as an integer (no commas, no decimal points).</i>
Present Population	Limits the Results to facilities/projects with specified population values. <i>Select from the dropdown list: Residential Receiving Collection, Residential Onsite Wastewater Treatment, Residential Clustered Systems, Non-residential Receiving Collection, Non-residential Onsite Wastewater Treatment, Non-residential Clustered Systems. Select either > (greater than), < (less than), or = (equal to) from the dropdown list under the heading Present Population. Then enter the number of persons as an integer (no commas, no decimal points).</i>

3.3 Results

The Results is a list of all of the facilities and projects that meet the entered search criteria. The first twenty facilities/projects that meet the search criteria are listed in the Results. The total number of

CWNS 2008 Reports – Online Help

Facilities/Projects that meet the search criteria is indicated at the bottom of the Results (e.g. 1-20 of 65) (Figure 5).

Results:

You will need Adobe Acrobat Reader to view some of the files on this table. See EPA's [PDF](#) page to learn more about PDF, and for a link to the free Acrobat Reader.

Select to Download	Fact Sheet	CWNS Number	Facility/Project Name	Permit Number	County	Watershed	Authority
<input type="checkbox"/>		41000015145	'10 Children's Clean Water Festival		Tillamook	Wilson-Trusk-Nestuccu	Tillamook Estuaries Partnership
<input type="checkbox"/>		36009066003	(T) Amherst, Stormwater		Erie	Niagara	Town of Amherst
<input type="checkbox"/>		36005040002	(V) Schuylerville, Stormwater		Saratoga	Hudson-Hoosic	Village of Schuylerville
<i>(this area has been truncated)</i>							
<input type="checkbox"/>		55000000100	Adams Co. - NPS		Adams	Castle Rock	ADAMS CO. LAND & WATER CONS. DEPT.

[Clear All](#) | [Download Selected \(Max 20\)](#) | [Download All on Page](#) |
 |<< | [Prev](#) | 1 - 20 of 4160 | [Next](#) | >>|

Figure 5: Facility Fact Sheet - Results list

The Results are organized into the following columns:

- **Select to Download:** A checkbox to mark the fact sheet for download.
- **Fact Sheet:** A PDF icon () that can be clicked to open a PDF version an individual facility fact sheet.
- **CWNS Number:** A unique 11-digit identification number assigned to the facility/project by the State. The first two digits are the Federal Information Processing Standards (FIPs) code for the State.
- **Facility/Project Name:** The State’s unique name for the facility/project.
- **Permit Number:** The number of NPDES permit associated with the facility.
- **County:** The County identified as the Primary County in which the facility/project is located.
- **Watershed:** The watershed identified as the Primary Watershed in which the facility/project is located.
- **Authority:** Name of the system (group of facilities) to which the facility has been assigned.

For each facility listed, a Fact Sheet is available. The Fact Sheet summarizes CWNS data for chosen facility/project(s) in an easy to read PDF fact sheet. The fact sheet contains data on the following:

- Facility/Project name, CWNS number, permit, and point of contact information
- County, watershed, and Congressional District information
- Map showing the location
- Facility/Project description
- Total documented needs and documented needs by category
- Population information for centralized and decentralized wastewater treatment systems
- Flow , discharge, and effluent information for centralized wastewater treatment systems
- Population problems and 303(d) impaired waters information

CWNS 2008 Reports – Online Help

Click on  to open a PDF version of an individual Fact Sheet (Figure 6).



ABBEVILLE STP

2008 Clean Watersheds Needs Survey

Point of Contact:	ABBEVILLE, CITY OF
CWNS Number:	22000005001
Permit Number(s):	LA0039748*
County:	Vermilion (Primary)
Watershed(s):	Vermilion (Primary)
Congressional District:	7th CONGRESSIONAL DISTRICT (Primary)
Address:	1908 E. LAFAYETTE STREET, VERMILION PARISH, ABBEVILLE, LA,70511-1170

(this area has been truncated)

Figure 6: Facility Fact Sheet

Select one or more fact sheets by marking a check in the checkbox in the Select column. Then click the link [Download Selected](#) to download a zip file containing individual PDF files of all the selected Facility Fact Sheets. To download all the Fact Sheets on the current page, click the link [Download All on Page](#) (Figure 7).

Results:

You will need Adobe Acrobat Reader to view some of the files on this table. See EPA's [PDF](#) page to learn more about PDF, and for a link to the free Acrobat Reader.

Select to Download	Fact Sheet	CWNS Number	Facility/Project Name	Permit Number	County	Watershed	Authority
<input checked="" type="checkbox"/>		41000015145	'10 Children's Clean Water Festival		Tillamook	Wilson-Trusk-Nestuccu	Tillamook Estuaries Partnership
<input type="checkbox"/>		36009066003	(T) Amherst, Stormwater		Erie	Niagara	Town of Amherst
<input checked="" type="checkbox"/>		36005040002	(V) Schuylerville, Stormwater		Saratoga	Hudson-Hoosic	Village of Schuylerville
(this area has been truncated)							
<input type="checkbox"/>		55000000100	Adams Co. - NPS		Adams	Castle Rock	ADAMS CO. LAND & WATER CONS. DEPT.

[Clear All](#) | [Download Selected \(Max 20\)](#) | [Download All on Page](#) | [|<<](#) | [Prev](#) | 1 - 20 of 4160 | [Next](#) | [>>|](#)

Figure 7: Facility Fact Sheet - Downloading Fact Sheet(s)

Open or Save the zip file containing the selected Fact Sheets (Figure 8).

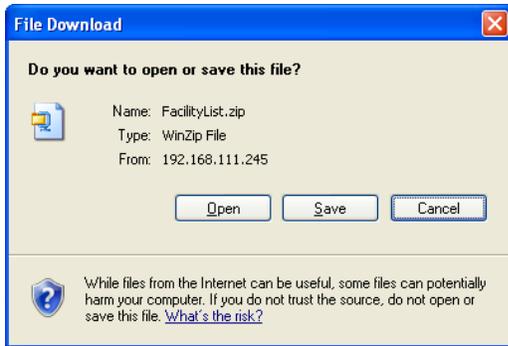


Figure 8: Zip file - Open or Save

To print all the Fact Sheets, open the zip file. Highlight all the PDF files and go to File> Print (Figure 9).

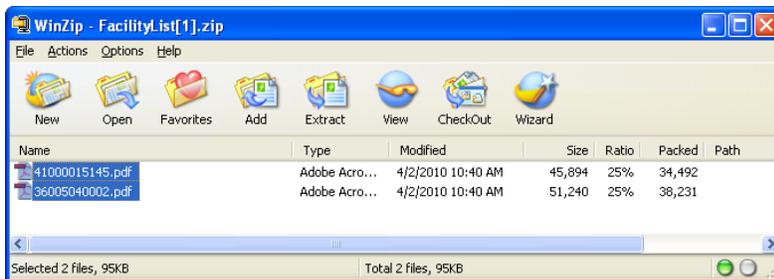


Figure 9: Print Fact Sheet(s)

4. Summary Reports

4.1 Introduction

Summary reports display selected CWNS data for chosen geographic areas in bar graphs and pie charts.

4.2 Selection Criteria

4.2.1 Data Area of Interest

Select the radio button for either:

- *Water Quality Facility/Project Needs, which include needs and technical data (e.g. population served, flow) for the selected geographic area (Figure 10).*
- *Needs related to Impaired Waters, which include needs from the CWNS database and Impaired Waters information based on indexing the facility/project location in the CWNS database for the selected geographic area. **Note: These reports are under development and will be available soon.***

You are here: [EPA Home](#) » [OW](#) » [OWM](#) » [CWNS](#) » [Summary Reports](#) [Contact Us](#) [Share](#)

CWNS 2008 Data and Reports

[Data Dictionary](#) [Help](#)

Facility Fact Sheet
Summary Reports
Detail Reports
Data Downloads

Summary reports display selected CWNS data for chosen geographic areas in bar graphs and pie charts.

1. Select Data Area of Interest

Water Quality Facility / Project Needs
 Needs related to Impaired Waters

2. Select One or More Types of Report Output*

Official Needs By Category
 Other Documented Needs By Category (Nonpoint Source Control and Decentralized Wastewater Treatment)
 Total Official Needs By State**
 Number of Facilities with Needs (Wastewater and Stormwater)
 Number of Facilities with Needs by State (Wastewater and Stormwater)**
 Number of Facilities by Present Residential Population Served
 Needs by Category and Present Residential Population Served

* If no report type is selected, then output is displayed for all report types.
** Only available at the Regional and National-level. Regional reports provide the data by State, and National reports provide the data by Region.

3. Select Geographic Area of Interest

For state-, regional-, or national-level summaries, select "Nation", EPA region or State(s) and click on 'Run Report' button.

EPA Region: Nation

State: No State Selected
AL - Alabama
AR - Arkansas
AZ - Arizona
CA - California

(Hold down the Ctrl key to select more than one state)
AK, AS, ND, RI and VI did not report data.

For watershed-, county-, or Congressional District-level summaries, first select one State. Then select one of the following: watershed, county, or Congressional District. Click map or list to select areas. Click on 'Run Report' button.

Watershed (Hydrologic Unit Code) [Map](#) or [List](#)
 County Name [List](#)
 Congressional District [List](#)

Selected Watershed or County or Congressional District
 (Display Only)

Run Report Reset

Figure 10: Summary Report – Water Quality Facility / Project Needs search

4.2.2 Report Output

- *Select the one or more types of report outputs (Table 4-1). If no report type is selected, then output is displayed for all report types (Figure 10).*

For Water Quality Facility/Project Needs reports, needs are considered to be one of the following:

- **Official Needs (ON):** The unfunded capital costs of projects as of January 1, 2008 that (1) address a water quality or water quality-related public health problem existing as of January 1, 2008, or expected to occur within the next 20 years and (2) meet the CWNS documentation

CWNS 2008 Reports – Online Help

requirements outlined in Chapter 1 of the Report to Congress. Official Needs can only be reported in Categories I, II, III, IV, V, VI, and X.

- **Other Documented Needs (ODN):** Meet the same criteria as Official Needs, but are for needs that are not explicitly required in the CWNS Report to Congress by Clean Water Act section 516(b)(1). Other Documented Needs can only be reported in Categories VII and XII.
- **Unofficial Cost Estimates (UCE):** These cost estimates do not meet the definition of need and/or the documentation requirements outlined in the Report to Congress. States entered these cost estimates for purposes other than this Report, such as State-level planning and communication with State legislatures and other groups involved with addressing and preventing water quality problems. Costs in categories VIII, IX, and XIII are always considered Unofficial Cost Estimates. In addition, costs in all other categories may be Unofficial Cost Estimates.

Table 4-2: Explanation of Types of Report Output.

Types of Report Output	Description
Water Quality Facility/Project Needs Reports	
Official Needs By Category	A bar chart displaying the dollar amount of wastewater treatment and collection, recycled water distribution, and stormwater management (categories I-VI, X) Official Needs by category for the selected geographic area. Official Needs are rounded up to the nearest million. Needs less than \$1 Million are shown as \$1 Million.
Other Documented Needs By Category (Nonpoint Source Control and Decentralized Wastewater Treatment)	A bar chart displaying NPS and decentralized wastewater treatment (categories VII, XII) Other Documented Needs by category for the selected geographic area. Needs less than \$1 Million are shown as \$1 Million.
Total Official Needs By State	A bar chart displaying the total wastewater treatment and collection, recycled water distribution, and stormwater management (categories I-VI, X) Official needs by state or EPA Region. Needs less than \$1 Million are shown as \$1 Million. Note: This chart is only available at the Regional and National-level. Regional reports provide the data by State, and National reports provide the data by EPA Region. When this report is selected, the ability to select State, County, Watershed, or Congressional District as a geographic area is disabled.
Total Other Documented Needs By State	A bar chart displaying NPS and decentralized wastewater treatment (categories VII, XII) "Other Documented Needs" by state or EPA

CWNS 2008 Reports – Online Help

	<p>Region. Needs less than \$1 Million are shown as \$1 Million.</p> <p>Note: This chart is only available at the Regional and National-level. Regional reports provide the data by State, and National reports provide the data by EPA Region. When this report is selected, the ability to select State, County, Watershed, or Congressional District as a geographic area is disabled.</p>
Number of Facilities with Needs (Wastewater and Stormwater)	A pie chart that indicates how many wastewater and stormwater management facilities have (1) no documented needs; (2) only Official Needs documented; (3) both Official Needs and Unofficial Cost Estimates; (4) only Unofficial Cost Estimates in the selected geographic area.
Number of Facilities with Needs by State (Wastewater and Stormwater)	<p>A multiple bar chart that indicates how many wastewater and stormwater management facilities have (1) no documented needs; (2) only Official Needs documented; (3) both Official Needs and Unofficial Cost Estimates; (4) only Unofficial Cost Estimates by state or EPA Region.</p> <p>Note: This chart is only available at the Regional and National-level. Regional reports provide the data by State, and National reports provide the data by EPA Region. When this report is selected, the ability to select State, County, Watershed, or Congressional District as a geographic area is disabled.</p>
Number of Facilities by Present Residential Population Served	A pie chart that indicates how many wastewater facilities that currently serve residential (1) populations of less than 1,000; (2) populations of 1,000 to 3,499; (3) populations of 3,500 to 9,999; (4) populations of 10,000 or more in the selected geographic area.
Needs by Category and Present Residential Population Served	A multiple bar chart that indicates the amount of Official needs by category for wastewater facilities that serve residential (1) populations of less than 10,000; and (2) greater than 10,000.

4.2.3 Geographic Area of Interest

Summary reports can be run at the National-, EPA Regional-, State-, Watershed-, County-, or Congressional District- level (Figure 10).

Geographic Area	Explanation

CWNS 2008 Reports – Online Help

EPA Region	<p><i>For data by one of EPA's ten Regions, select the appropriate region. States located in each Region are listed after the Region's number.</i></p> <p><i>For national data, select "Nation." For State, watershed, county, and Congressional District queries, also select "Nation."</i></p>
State	<p><i>Select one or more state. (Multiple states can be selected by holding down the Ctrl key while selecting states.)</i></p> <p><i>Note: Alaska, American Samoa, North Dakota, Rhode Island, and Virgin Islands are not listed because they did not report data for CWNS 2008.</i></p>
Watershed	<p><i>First, select one state. Then, click the radio button labeled Watershed.</i></p> <p><i>Watershed(s) can be selected in two ways:</i></p> <p><i>(1) To select a watershed(s) by viewing a map, click Map. A map of the selected state will launch in a pop-up window. HUC 8 watersheds are outlined in purple. Click within the outline of the desired watershed and a pop-up box will launch to indicate the name and HUC of the selected watershed. Click OK to select this watershed or Cancel to select a different watershed. After clicking OK, the name of the watershed will be listed in the "Selected Watersheds" box. Repeat process to select additional watersheds. When selection is complete, click  (Figure 11).</i></p>

CWNS 2008 Reports – Online Help

Click the map to select a Watershed. Watersheds are outlined in purple.

Selected Watersheds

Broadkill-Smyrna, Cohanse-Maurice

(Display Only)

Submit Reset

Figure 11: Select Watershed(s) from map

The watershed name(s) will be listed in the Selected Watershed or County or Congressional District box (Figure 12).

3. Select Geographic Area of Interest

For state-, regional-, or national-level summaries, select "Nation", EPA region or State(s) and click on 'Run Report' button.

EPA Region:

State: (Hold down the Ctrl key to select more than one state)

AK, AS, ND, RI and VI did not report data.

For watershed-, county-, or Congressional District-level summaries, first select one State. Then select one of the following: watershed, county, or Congressional District. Click map or list to select areas. Click on 'Run Report' button.

Watershed (Hydrologic Unit Code) [Map](#) or [List](#)

County Name [List](#)

Congressional District [List](#)

Selected Watershed or County or Congressional District

Broadkill-Smyrna, Cohanse-Maurice

(Display Only)

Run Report Reset

Figure 12: Selected Watershed or County or Congressional District

(2) To select a watershed(s) by viewing a list of all watersheds in the state, click [List](#).

CWNS 2008 Reports – Online Help

Click to highlight the desired watershed (use the Control key to select multiple watersheds) and then click ➤ to select the watershed(s). When selection is complete, click (Figure 13). The watershed name(s) will be listed in the Selected Watershed or County or Congressional District box.

Repeat these steps to add additional watersheds from a different state.

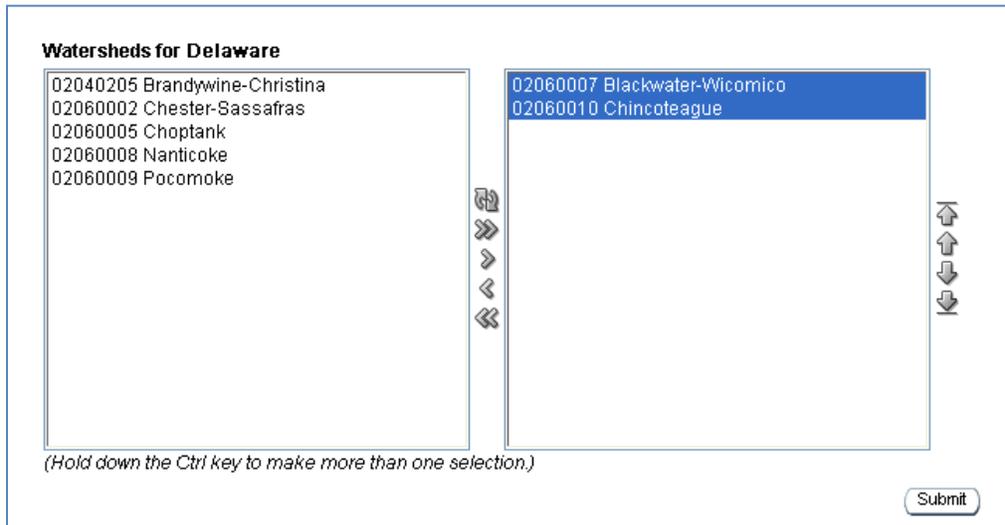


Figure 13: Select Watershed(s) from list

County

First, select one state. Then, click the radio button labeled County.

To select a county(ies) by viewing a list of all counties in the state, click [List](#). Click to highlight the desired county (use the Control key to select multiple counties) and then click ➤ to select the county(ies). When selection is complete, click (Figure 14). The county name(s) will be listed in the Selected Watershed or County or Congressional District box.

Repeat these steps to add additional counties from a different state.

4.3 Run Report

- After selecting desired report outputs and geographic areas, click  to view charts and graphs.

4.4 Results

4.4.1 Charts and Graphs

All selected output reports are listed on page containing the title of the Report (e.g., State Report for Alabama, Watershed Report for Chipola (Alabama)). The Table of Contents allows the user to navigate to the desired chart or graph. For all charts and graphs, a printer friendly version is available by clicking on the link in the second footnote (Figure 16).

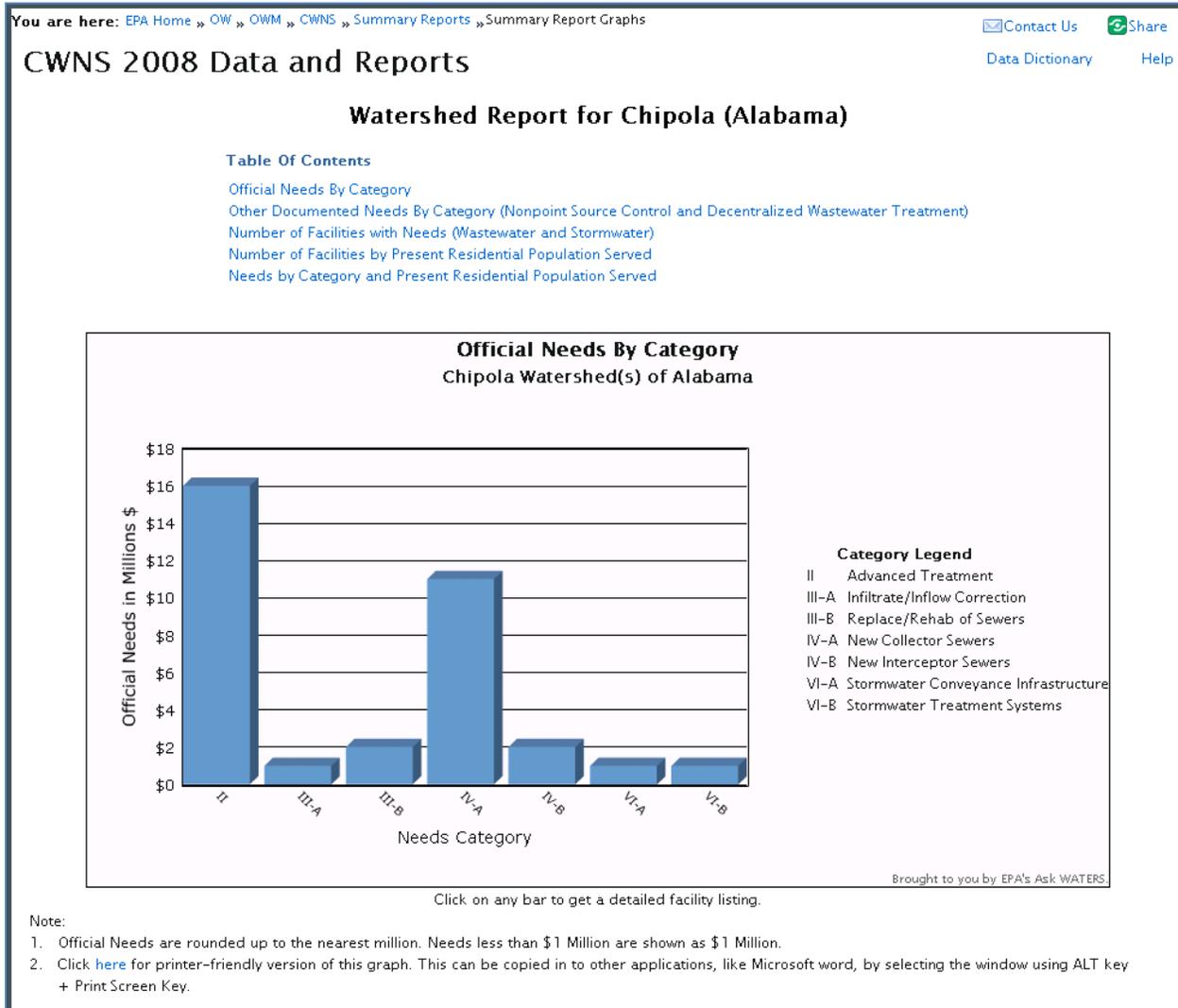


Figure 16: Summary Report - results

4.4.2 Detailed Reports

For all charts, click on any wedge or bar to get a detailed facility listing. The detailed facility listing provides data on all the individual facilities/projects from which the summary data presented in the charts was derived (Figure 17).

The detail reports are displayed as a table with a predetermined set of columns. The report may be further customized using the tools provided. The user is able to:

- Search the columns
- Select the number of rows to display per page
- Create break groups one or more columns
- Highlight cells or rows based on user defined characteristics
- Add computed columns to the table
- Perform computations on selected columns

CWNS 2008 Reports – Online Help

- Create a chart from the data
- Select which columns to display
- Sort columns
- Filter the data
- Download displayed data in CSV format

Detailed information on how to use the software tools for the detail reports is available in [Appendix A](#).

Facility/Project Name	CWNS Number	Total Official Needs	Cost Category Code	Cost Category Name	Cost Category Official Needs	Permit Number	Permit Type
ASHFORD WWTP	01000011001	\$4,286,703	IV-A	New Collector Sewers	\$164,584	AL0057878	Discharge
DOTHAN CYPRESS CREEK WWTP	01000061001	\$15,298,000	IV-A	New Collector Sewers	\$7,990,000	AL0072737	Discharge
COTTONDALE STP	12000250001	\$5,847,239	IV-A	New Collector Sewers	\$1,055,844	-	-
MARIANNA WWTP	12000256001	\$3,384,827	IV-A	New Collector Sewers	\$1,357,551	-	-

Figure 17: Summary Report – Detail Report

5. Detail Reports

5.1 Introduction

Detail reports display selected CWNS data for chosen geographic areas. The output is displayed in tables which can be exported as csv files.

5.2 Selection Criteria

5.2.1 Data Area of Interest

- *Select one or more Data Areas of Interest (Table 5-1). If no Data Area is selected, then output is displayed for Water Quality Project Needs (Figure 18).*

Table 5-3: Explanation of Data Areas of Interest.

Data Area of Interest	Description
Water Quality Project Needs	<p>A table containing of costs by needs category for the facilities/projects located in the selected geographic area. Select one of the following:</p> <ul style="list-style-type: none"> • Official Needs (ON): The results are limited to the unfunded capital costs of projects as of January 1, 2008 that (1) address a water quality or water quality-related public health problem existing as of January 1, 2008, or expected to occur within the

CWNS 2008 Reports – Online Help

	<p>next 20 years and (2) meet the CWNS documentation requirements outlined in Chapter 1 of the Report to Congress. Official Needs can only be reported in Categories I, II, III, IV, V, VI, and X.</p> <ul style="list-style-type: none"> • Other Documented Needs (ODN): The results are limited to projects that meet the same criteria as Official Needs, but are for needs that are not explicitly required in the CWNS Report to Congress by Clean Water Act section 516(b)(1). Other Documented Needs can only be reported in Categories VII and XII. • Unofficial Cost Estimates (UCE): The results are limited to the cost estimates do not meet the definition of need and/ or the documentation requirements outlined in the Report to Congress. States entered these cost estimates for purposes other than this Report, such as State-level planning and communication with State legislatures and other groups involved with addressing and preventing water quality problems. Costs in categories VIII, IX, and XIII are always considered Unofficial Cost Estimates. In addition, costs in all other categories may be Unofficial Cost Estimates. • All: The results contain Official Needs, Other Documented Needs, and Unofficial Cost Estimates.
Wastewater Treatment Plant Flows	A table containing flow information (existing total, present design, and projected design) for the wastewater treatment plant facilities in the selected geographic area.
Population Receiving Treatment (Centralized and Decentralized)	A table containing population receiving treatment information for the centralized and decentralized wastewater treatment facilities in the selected geographic area.
Wastewater Facility Discharge Methods	<p>A table containing discharge methods for the wastewater treatment facilities in the selected geographic area. Because a single wastewater treatment facility may have multiple discharge methods, it is possible that the same facility would have multiple lines on this table.</p> <p>This data area cannot be combined with other data areas.</p>
Treatment Technologies (Unit Processes)	A table containing treatment technologies (unit processes) for the facilities/projects in the selected geographic area. Because a single facility/project will likely have multiple treatment technologies, it is likely that the same facility/project would have multiple lines on this table.

CWNS 2008 Reports – Online Help

	This data area cannot be combined with other data areas
--	---

You are here: [EPA Home](#) » [OW](#) » [OWM](#) » [CWNS](#) » Detail Reports [Contact Us](#) [Share](#)

CWNS 2008 Data and Reports

[Data Dictionary](#) [Help](#)

Facility Fact Sheet
Summary Reports
Detail Reports
Data Downloads

Detailed reports display selected CWNS data for chosen geographic areas. The output is displayed in tables which can be exported as csv files.

1. Select Data Area of Interest

Water Quality Project Needs

 Wastewater Treatment Plant Flows
 Population Receiving Treatment (Centralized and Decentralized)
 Needs related to Impaired Waters
 Wastewater Facility Discharge Methods*
 Treatment Technologies (Unit Processes)*

Official Needs Other Documented Needs
 Unofficial Cost Estimates All

* *Cannot be combined with other data areas.*

2. Select Geographic Area of Interest

For state-, regional-, or national-level summaries, select "Nation", EPA region or State(s) and click on 'Run Report' button.

EPA Region:

State:

No State Selected
 AL - Alabama
 AR - Arkansas
 AZ - Arizona
 CA - California

(Hold down the Ctrl key to select more than one state)
AK, AS, ND, RI and VI did not report data.

For watershed-, county-, or Congressional District-level summaries, first select one State. Then select one of the following: watershed, county, or Congressional District. Click map or list to select areas. Click on 'Run Report' button.

Watershed (Hydrologic Unit Code) [Map](#) or [List](#)
 County Name [List](#)
 Congressional District [List](#)

Selected Watershed or County or Congressional District

(Display Only)

[Run Report](#)
[Reset](#)

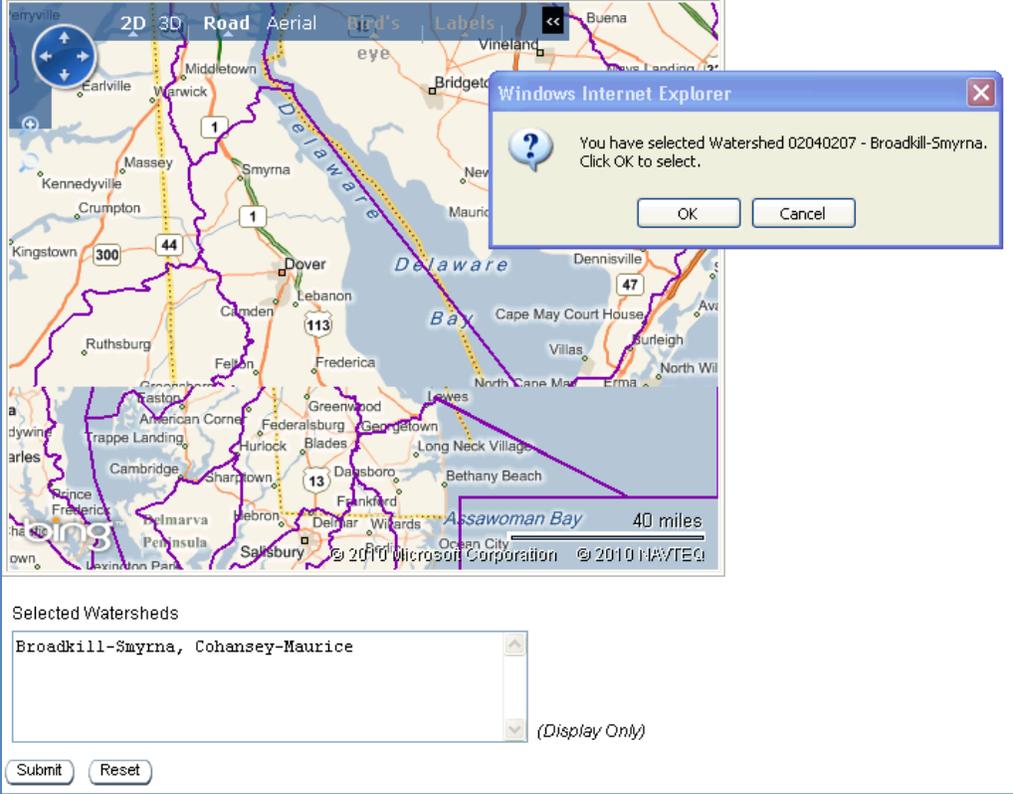
Figure 18: Detail Report - search criteria

5.2.2 Geographic Area of Interest

Detail reports can be run at the National-, EPA Regional-, State-, Watershed-, County-, or Congressional District- level (Figure 18).

Geographic Area	Explanation
EPA Region	<p><i>For data by one of EPA's ten Regions, select the appropriate region. States located in each Region are listed after the Region's number.</i></p> <p><i>For national data, select "Nation." For State, watershed, county, and Congressional</i></p>

CWNS 2008 Reports – Online Help

	<p><i>District queries, also select "Nation."</i></p>
<p>State</p>	<p><i>Select one or more state. (Multiple states can be selected by holding down the Ctrl key while selecting states.)</i></p> <p>Note: Alaska, American Samoa, North Dakota, Rhode Island, and Virgin Islands are not listed because they did not report data for CWNS 2008.</p>
<p>Watershed</p>	<p><i>First, select one state. Then, click the radio button labeled Watershed.</i></p> <p><i>Watershed(s) can be selected in two ways:</i></p> <p><i>(1) To select a watershed(s) by viewing a map, click Map. A map of the selected state will launch in a pop-up window. HUC 8 watersheds are outlined in purple. Click within the outline of the desired watershed and a pop-up box will launch to indicate the name and HUC of the selected watershed. Click OK to select this watershed or Cancel to select a different watershed. After clicking OK, the name of the watershed will be listed in the "Selected Watersheds" box. Repeat process to select additional watersheds. When selection is complete, click <input type="button" value="Submit"/> (Figure 19).</i></p> <div data-bbox="412 961 1425 1797" style="border: 1px solid black; padding: 5px;"> <p>Click the map to select a Watershed. Watersheds are outlined in purple.</p>  <p>Selected Watersheds</p> <p>Broadkill-Smyrna, Cohanse-Maurice</p> <p>(Display Only)</p> <p><input type="button" value="Submit"/> <input type="button" value="Reset"/></p> </div> <p>Figure 19: Select Watershed(s) from map</p>

CWNS 2008 Reports – Online Help

The watershed name(s) will be listed in the Selected Watershed or County or Congressional District box (Figure 20).

3. Select Geographic Area of Interest

For state-, regional-, or national-level summaries, select "Nation", EPA region or State(s) and click on 'Run Report' button.

EPA Region: Nation

State: CA - California
CO - Colorado
CT - Connecticut
DC - District of Columbia
DE - Delaware (Hold down the Ctrl key to select more than one state)
AK, AS, ND, RI and VI did not report data.

For watershed-, county-, or Congressional District-level summaries, first select one State. Then select one of the following: watershed, county, or Congressional District. Click map or list to select areas. Click on 'Run Report' button.

Watershed (Hydrologic Unit Code) Map or List
 County Name List
 Congressional District List

Selected Watershed or County or Congressional District
Broadkill-Swyrna, Cohansey-Maurice (Display Only)

Run Report Reset

Figure 20: Selected Watershed or County or Congressional District

(2) To select a watershed(s) by viewing a list of all watersheds in the state, click [List](#). Click to highlight the desired watershed (use the Control key to select multiple watersheds) and then click ➤ to select the watershed(s). When selection is complete, click (Figure 21). The watershed name(s) will be listed in the Selected Watershed or County or Congressional District box.

Repeat these steps to add additional watersheds from a different state.

Watersheds for Delaware

02040205 Brandywine-Christina
02060002 Chester-Sassafras
02060005 Choptank
02060008 Nanticoke
02060009 Pocomoke

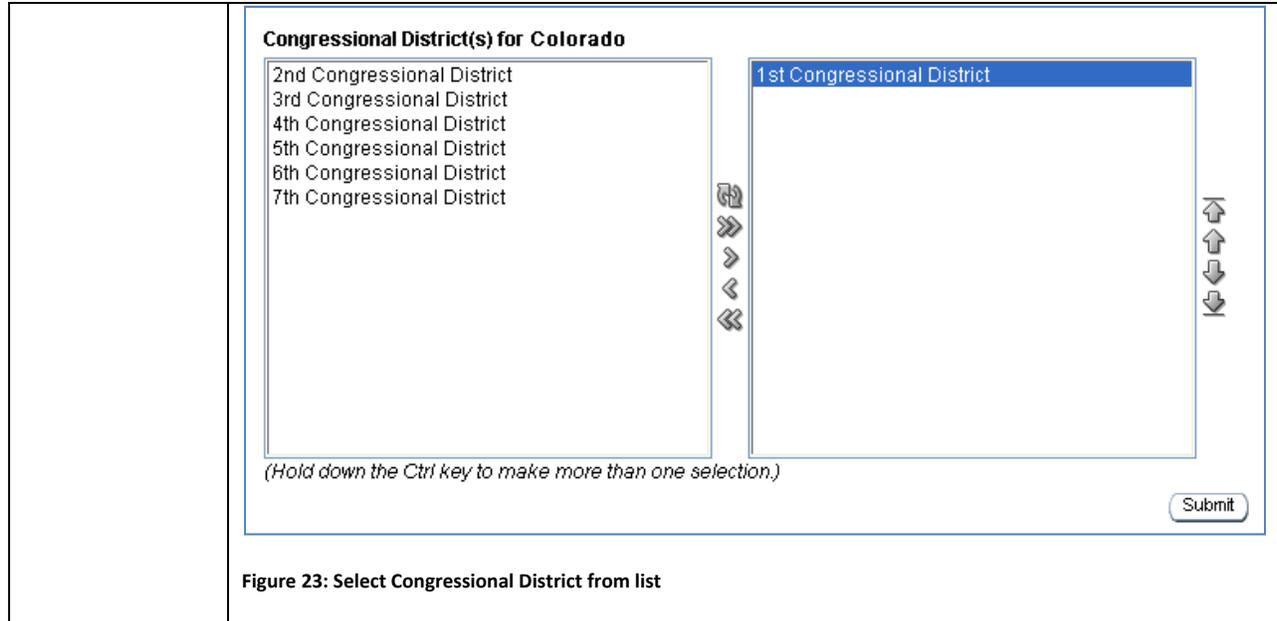
02060007 Blackwater-Wicomico
02060010 Chincoteague

(Hold down the Ctrl key to make more than one selection.)

Submit

Figure 21: Select Watershed(s) from list

CWNS 2008 Reports – Online Help



5.2.3 Unit Processes of Interest

This is only applicable when the Data Area of Interest Treatment Technologies is selected.

- Click to highlight the desired unit process (use the Control key to select multiple unit processes) and then click ➤ to select the unit process(es). Click ➤➤ to select all unit processes in the list (note: If no unit process is selected, then report is displayed for all unit processes). Click ⏪ to unselect highlighted unit process(es). Click ⏪ or 🖱️ to unselect all unit processes.

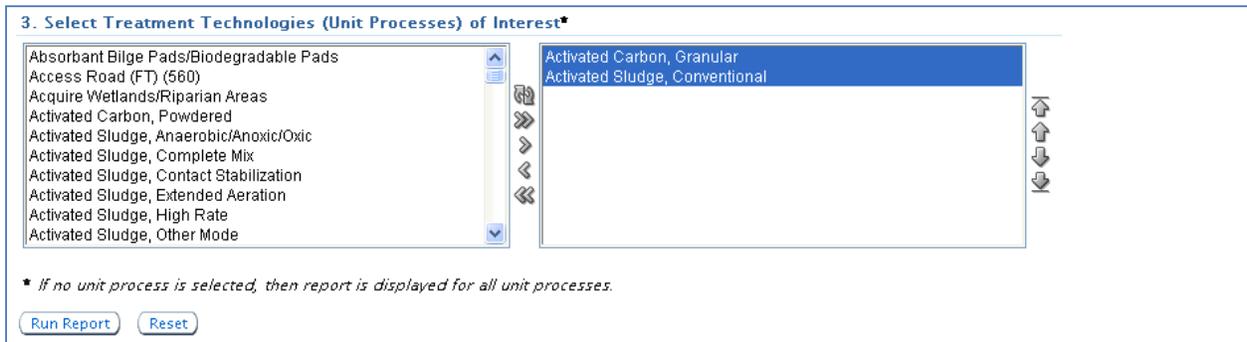


Figure 24: Detail Report - Treatment Technologies selection

5.3 Run Report

After selecting desired report outputs, geographic areas and unit process (if applicable), click

Run Report to view data tables.

5.4 Results

The detail reports are displayed as a table with a predetermined set of columns (Figure 25). The report may be further customized using the tools provided. The user is able to:

- Search the columns
- Select the number of rows to display per page
- Create break groups one or more columns
- Highlight cells or rows based on user defined characteristics
- Add computed columns to the table
- Perform computations on selected columns
- Create a chart from the data
- Select which columns to display
- Sort columns
- Filter the data
- Download displayed data in CSV format

Detailed information on how to use the software tools for the detail reports is available in [Appendix A](#).

CWNS 2008 Data and Reports
 Detailed listing of Wastewater Treatment Plant Flows by CWNS facility/project for State(s) of Guam

Number Of Facilities	Sum Existing Total Flow (Mgal/d)	Sum Present Design Total Flow (Mgal/d)	Sum Projected Design Total Flow (Mgal/d)
6	17.03	25.79	26.53

1 - 6 of 6

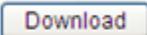
Facility/Project Name	CWNS Number	Existing Total Flow (Mgal/d)	Present Design Total Flow (Mgal/d)	Projected Design Total Flow (Mgal/d)	Permit Number	Permit Type	Authority Name
AGAT DISTRICT WWTF	66000001001	1.13	.75	1.39	GU0020222	Discharge	Guam Waterworks Authority
AGANA DISTRICT WWTF	66000001002	7.5	12	12	GU0020087	Discharge	Guam Waterworks Authority
NORTHERN DISTRICT WWTF	66000001003	7.8	12	12	GU0020141	Discharge	Guam Waterworks Authority
INARAJAN DISTRICT WWTF	66000001005	.07	.19	.19	-	-	Guam Waterworks Authority
TALAFORO DISTRICT WWTF	66000001006	.25	.6	.6	GU0020095	Discharge	Guam Waterworks Authority
UMATAC-MERIZO WWTF	66000001008	.28	.25	.35	-	-	Guam Waterworks Authority

1 - 6 of 6

Figure 25: Detail Report Results

6. Data Downloads

Allows the user to download a Microsoft Access database of the CWNS 2008 data for a particular state or for the nation (Figure 26).

- Select one State or Nation from the dropdown list and click 
- Save the Microsoft Access file to the desired location.

CWNS 2008 Reports – Online Help

The Data Dictionary explains the data elements that are provided in the Microsoft Access database.

The screenshot shows a web page titled "CWNS 2008 Data and Reports". At the top right, there are links for "Contact Us" and "Share". Below the title, there are links for "Data Dictionary" and "Help". A navigation bar contains tabs for "Facility Fact Sheet", "Summary Report", "Detail Report", and "Data Download". The "Data Download" tab is active. The main content area is titled "Access Database" and contains the instruction: "Select a state and click on 'Download' button to download data in Microsoft Access database format." Below this, there is a "State:" label, a dropdown menu with "Nation" selected, and a "Download" button. A note below the dropdown reads: "(AK, AS, ND, RI and VI did not report data.)"

Figure 26: Select State for Data Download

Appendices

Appendix A: Customizing Detailed Reports

Detail Report Help

A Detail Report displays a predetermined set of columns. The report may be further customized with an initial filter clause, a default sort order, control breaks, highlighting, computations, aggregates and a chart. Each Report can then be further customized and the results can be viewed or downloaded.

An Interactive Report can be customized in three ways: the search bar, actions menu and column heading menu.

Search Bar

At the top of each report page is a search region (Figure A-1). The region provides the following features:

- **Select columns icon** () allows you to identify which column to search (or all).
- **Text area** allows for case insensitive search criteria (no need for wild cards).
- **Rows** selects the number of records to display per page.
- **[Go] button** executes the search.
- **Actions Menu icon** () displays the actions menu (discussed next).

Please note that all features may not be available for each report.

CWNS 2008 Reports – Online Help

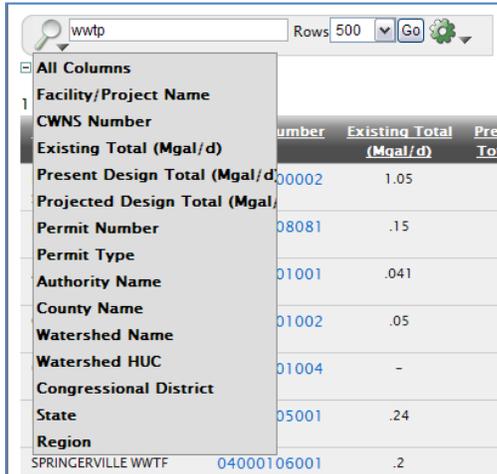


Figure A-1: The search bar allows you to search for a word or phrase on either all columns or a selected column.

Actions Menu

The actions menu (Figure A-2) is used to customize the display of your Interactive Report.

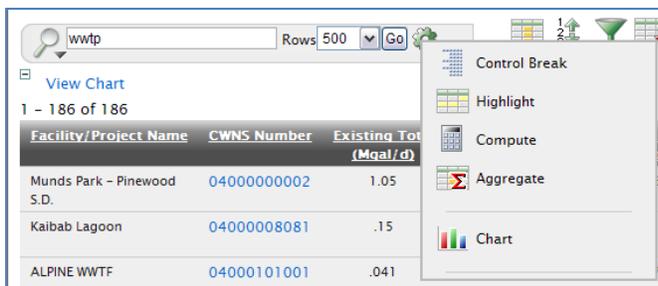


Figure A-2: The Actions Menu allows customization of the report

Control Break

Used to create a break group on one or several columns (Figure A-3). This pulls the columns out of the Interactive Report and displays them as a master record. This may be useful for viewing facilities/projects by county or watershed or Congressional District within a State.

CWNS 2008 Reports – Online Help

The screenshot shows the 'Control Break' dialog box in the top left, which allows users to define breaks based on data in one or more columns. The dialog has a table with 6 rows, each with a 'Column' dropdown and a 'Status' dropdown (all set to 'Enabled'). Below the dialog, there are checkboxes for 'County Name' and a 'View Chart' link. The main data area shows a table for 'County Name : Apache' and 'County Name : Cochise'. The Apache table lists facilities like Concho, ALPINE WWTF, EAGAR WWTP, SPRINGERVILLE WWTF, ST JOHNS WWTP, and GREER WWTF. The Cochise table lists WILLCOX WWTF and NICKVILLE SEPTIC SYSTEM. The table columns include Facility/Project Name, CWNS Number, and various category totals (Cat. I to Cat. X), Total ON, Permit Number, and Permitted.

Facility/Project Name	CWNS Number	Cat. I ON	Cat. II ON	All Cat. III ON	All Cat. IV ON	Cat. V ON	All Cat. VI ON	Cat. X ON	Total ON	Permit Number	Permitted
Concho	04000101004	\$1,880,958	-	-	\$7,332,914	-	-	-	\$9,213,872	-	-
ALPINE WWTF	04000101001	-	-	-	-	-	-	-	-	AZ0025089	Disch
EAGAR WWTP	04000105001	-	\$104,393	\$5,110,563	-	-	-	-	\$5,214,956	-	-
SPRINGERVILLE WWTF	04000106001	\$389,379	-	\$279,055	-	-	-	-	\$668,434	-	-
ST JOHNS WWTP	04000107001	\$915,086	-	\$66,774	\$1,696,624	-	-	-	\$2,678,484	-	-
GREER WWTF	04000101002	\$210,176	-	-	-	-	-	-	\$210,176	-	-

Facility/Project Name	CWNS Number	Cat. I ON	Cat. II ON	All Cat. III ON	All Cat. IV ON	Cat. V ON	All Cat. VI ON	Cat. X ON	Total ON	Permit Number	Permitted
WILLCOX WWTF	04000314001	-	-	-	-	-	-	-	-	AZ0024830	Disch
NICKVILLE SEPTIC SYSTEM	04000315009	-	-	-	-	-	-	-	-	-	-

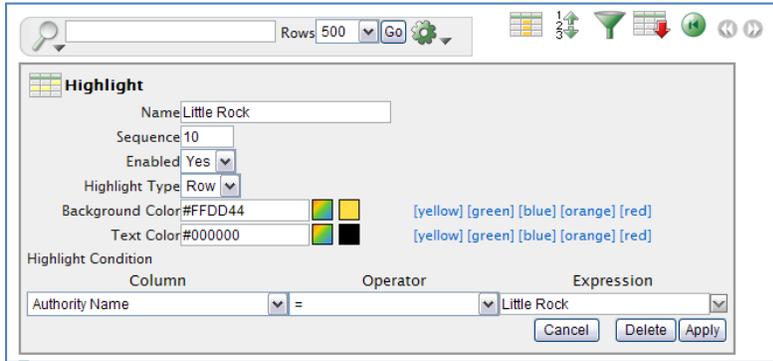
Figure A-3: The Control Break function allows the creation of breaks based on data in one or more columns.

Highlight

Highlighting allows for specifying a filter (Figure A-4). The rows that meet the filter are highlighted using the characteristics associated with the filter.

- **Name** is used only for display.
- **Sequence** identifies the sequence in which the rules will be evaluated.
- **Enabled** identifies if the rule is enabled or disabled.
- **Highlight Type** identifies whether the Row or Cell should be highlighted. If Cell is selected, the column referenced in the Highlight Condition is highlighted.
- **Background Color** is the new color for the background of the highlighted area.
- **Text Color** is the new color for the text in the highlighted area.
- **Highlight Condition** defines your filter condition.

CWNS 2008 Reports – Online Help



Cat. - Category; ON - Official Needs; ODN - Other Documented Needs; UCE - Unofficial Cost Estimates

Rows: 500

Little Rock

1 - 182 of 182

Facility/Project Name	CWNS Number	Cat. I ON	Cat. II ON	All Cat. III ON	All Cat. IV ON	Cat. V ON	All Cat VI ON	Cat. X ON	Total ON	Permit Number	Permit Type
Little Rock - Fourche Creek WWTP	05000001001	-	-	\$28,168,724	\$10,109,796	-	-	-	\$38,278,520	AR0040177	Discharge
Little Rock - Adams Field WWTP	05000001008	-	-	\$32,196,081	\$5,510,284	-	-	-	\$37,706,365	AR0021806	Discharge
North Little Rock - Faulkner Lake	05000003002	-	\$4,816,979	\$2,981,689	-	-	-	-	\$7,798,668	AR0020303	Discharge
North Little Rock - 5 Mile Creek	05000003003	-	-	\$450,000	-	-	-	-	\$450,000	AR0020320	Discharge
North Little Rock - White Oak Bayou	05000003004	-	\$4,500,000	\$1,140,000	-	-	-	-	\$5,640,000	AR0038288	Discharge
Blytheville - North WWTP	05000009002	-	-	-	\$3,057,835	-	-	-	\$3,057,835	AR0022586	Discharge
Blytheville - South WWTP	05000009003	-	-	-	\$1,962,452	-	-	-	\$1,962,452	AR0022578	Discharge
Conway - Stone Dam Creek WWTP	05000014001	-	-	\$8,075,497	-	-	-	-	\$8,075,497	AR0033359	Discharge

Figure A-4: The Highlight function allows for highlighting rows that meet a certain condition. In this case, highlighted rows have the word “Little Rock” in the Authority column.

Compute

Computations allow you to add computed columns to your report (Figures A-5 and A-6). These can be mathematical computations (e.g. `NBR_HOURS/24`) or standard Oracle functions applied to existing columns (some have been displayed for example, others, like `TO_DATE`, can also be used).

- **Computation** allows you to select a previously defined computation to edit.
- **Column Heading** is the column heading for the new column.
- **Format Mask** is an Oracle format mask to be applied against the column (e.g. `$9999`).
- **Computation** is the computation to be performed. Within the computation, columns are referenced using the aliases displayed.

Below computation, the columns in your query are displayed with their associated alias. Clicking on the column name or alias will write them into the Computation. Next to Columns is a Keypad. These are simply shortcuts of commonly used keys. On the far right are Functions.

CWNS 2008 Reports – Online Help

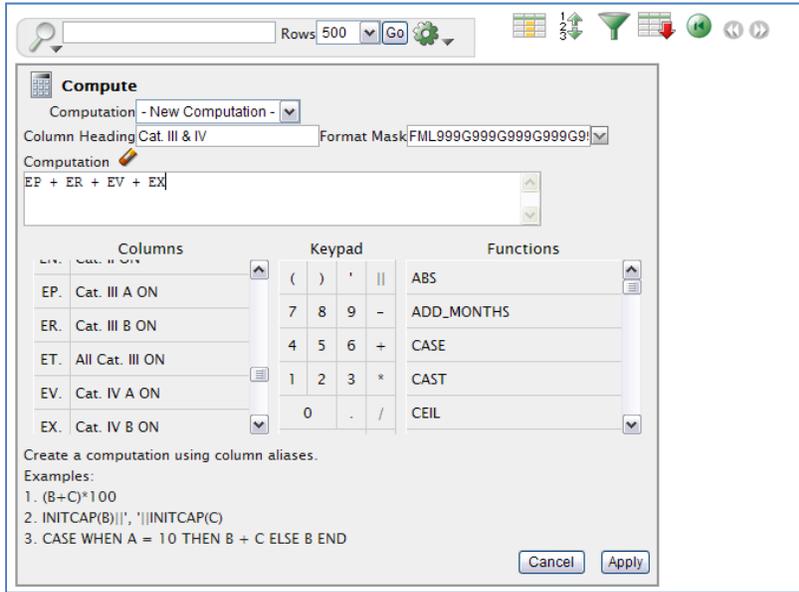


Figure A-5: The Computation function allows for calculations on selected columns. In this example, Category III & IV needs are being added to determine all Collection System needs for each facility.

Facility/Project Name	CWNS Number	Cat. I ON	Cat. II ON	All Cat. III ON	All Cat. IV ON	Cat. III & IV	Cat. V ON	All Cat. VI ON	Cat. X ON
Little Rock - Fourche Creek WWTP	05000001001	-	-	\$28,168,724	\$10,109,796	\$38,278,520.00	-	-	-
Little Rock - Adams Field WWTP	05000001008	-	-	\$32,196,081	\$5,510,284	\$37,706,365.00	-	-	-
North Little Rock - Faulkner Lake	05000003002	-	\$4,816,979	\$2,981,689	-	-	-	-	-
North Little Rock - 5 Mile Creek	05000003003	-	-	\$450,000	-	-	-	-	-
North Little Rock - White Oak Bayou	05000003004	-	\$4,500,000	\$1,140,000	-	-	-	-	-
Blytheville - North WWTP	05000009002	-	-	-	\$3,057,835	-	-	-	-

Figure A-6: The result of the calculation is displayed as a new column in the table.

Aggregate

Aggregates are mathematical computations performed against a column (Figure A-7 and A-8). Aggregates are displayed after each control break and at the end of the report within the column they are defined.

- **Aggregation** allows you to select a previously defined aggregation to edit.
- **Function** is the function to be performed (e.g. SUM, MIN).
- **Column** is used to select the column to apply the mathematical function to. Only numeric columns will be displayed.

CWNS 2008 Reports – Online Help

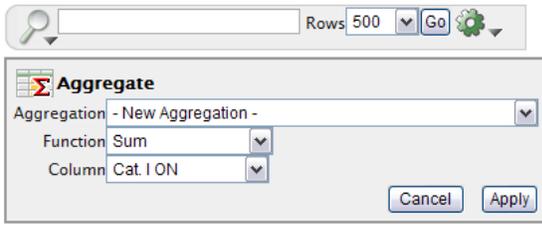


Figure A-7: The Aggregate function allows for a calculation on a single column. In this example, the sum of Category I needs for the entire state.

1 - 9 of 9										
Facility/Project Name	CWNS Number	Cat. I ON	Cat. II ON	All Cat. III ON	All Cat. IV ON	Cat. III & IV	Cat. V ON	All Cat VI ON	Cat. X ON	Total ON
Horseshoe Lake WWTP	0500028001	-	-	-	\$588,572	-	-	-	-	\$588,572
Jennette WWTP	0500039001	\$512,097	-	-	\$3,982,979	-	-	-	-	\$4,495,076
Crawfordsville WWTP	05000199001	-	-	-	\$389,055	-	-	-	-	\$389,055
Earle WWTP	05000200001	-	-	\$3,144,723	-	-	-	-	-	\$3,144,723
Edmondson WWTP	05000201001	-	-	-	\$1,024,194	-	-	-	-	\$1,024,194
Gilmore WWTP	05000202001	\$20,484	-	-	-	-	-	-	-	\$20,484
Marion WWTP	05000203001	-	-	-	\$168,936	-	-	-	-	\$168,936
Turrell WWTP	05000207001	\$36,913	-	-	\$118,903	-	-	-	-	\$155,816
Jericho Collection System	05000208001	-	-	-	\$714,854	-	-	-	-	\$714,854
Sum: \$569,494										

Figure A-8: The results are displayed at the end of the column.

Chart

You can include one chart per Interactive Report (Figures A-9 and A-10). Once defined, you can switch between the chart and report views using links below the search bar.

- **Chart Type** identifies the chart type to include. Select from horizontal bar, vertical bar, pie or line.
- **Label** allows you to select the column to be used as the label.
- **Axis Title for Label** is the title that will display on the axis associated with the column selected for Label. This is not available for pie chart.
- **Value** allows you to select the column to be used as the value. If your function is a COUNT, a Value does not need to be selected.
- **Axis Title for Value** is the title that will display on the axis associated with the column selected for Value. This is not available for pie chart.
- **Function** is an optional function to be performed on the column selected for Value.

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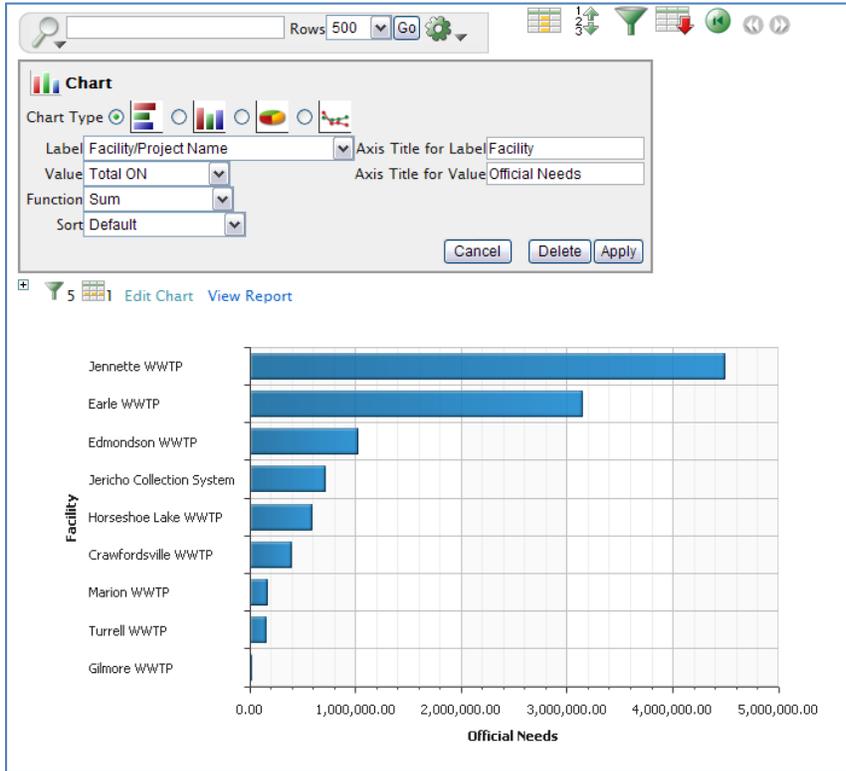


Figure A-9: Example of a bar graph comparing the total needs per facility in a specified county.

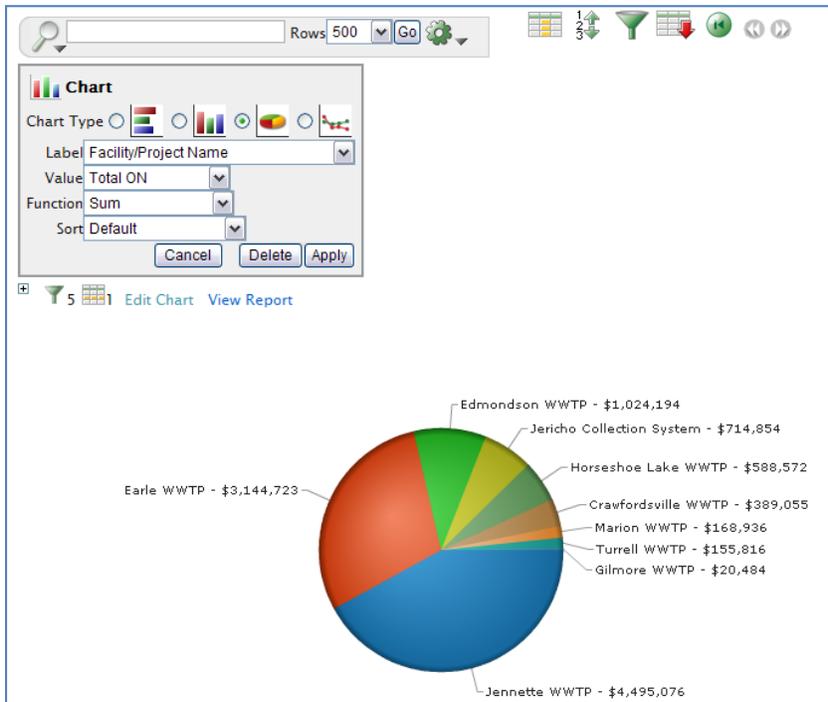


Figure A-10: Example of a pie chart displaying the same data as Figure A-9, the total needs per facility in a specified county.

Select Columns

Used to modify the columns displayed (Figure A-11). The columns on the right are displayed. The columns on the left are hidden. You can reorder the displayed columns using the arrows on the far right. Computed columns are prefixed with **.

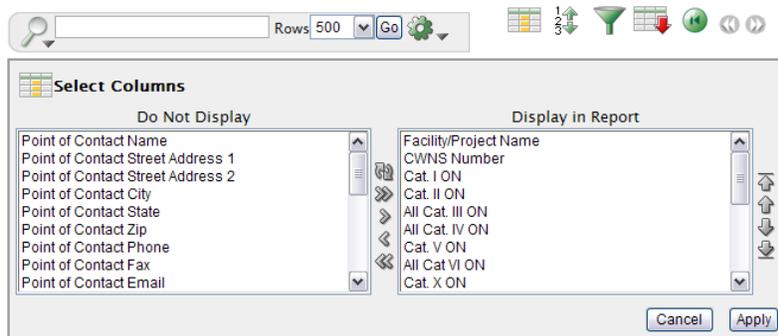


Figure A-11: The select column function allows you to increase or decrease the number of columns displayed. For all CWNS reports, default “Display in Report” columns have been selected. Additional data is available by adding the “Do Not Display” columns.

Filter

Used to add or modify the where clause on the query (Figure A-12). You first select a column (it does not need to be one that is displayed), select from a list of standard Oracle operators (=, !=, not in, between), and enter an expression to compare against. The expression is case sensitive and you can use % as a wild card (e.g. STATE_NAME like A%).

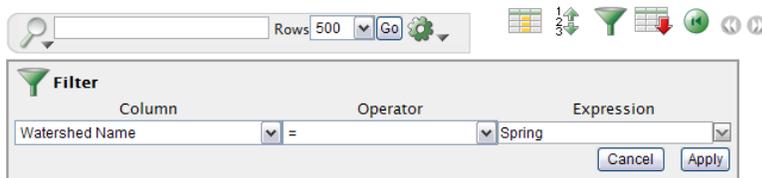


Figure A-12: The Filter function allows you to further refine your original query. In this example, after adding the filter, only entries for the Spring watershed will be displayed.

Sort

Used to change the column(s) to sort on and whether to sort ascending or descending (Figure A-13). You can also specify how to handle nulls (use the default setting, always display them last or always display them first). The resulting sorting is displayed to the right of column headings in the report.

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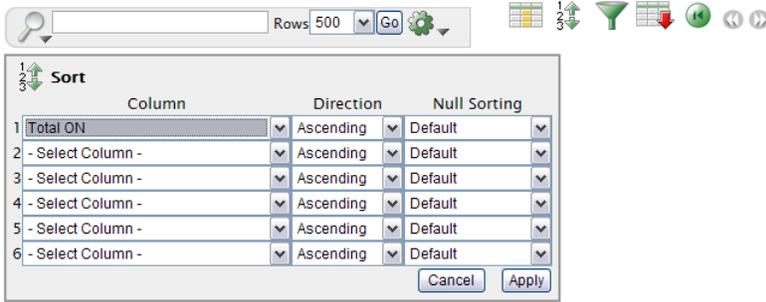


Figure A-13: The sort function allows you to sort by column(s). In this example, the data will be sort from the lowest Total Official Needs (ON) to the highest.

Download

Allows the current result set to be downloaded in CSV format (Figure A-14).

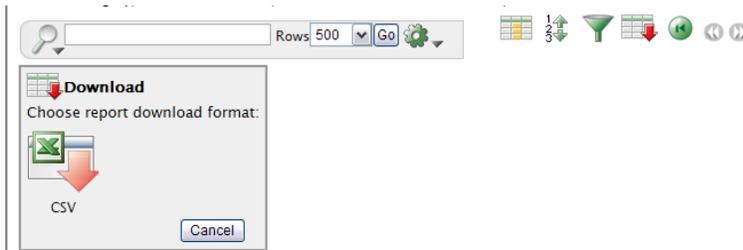


Figure A-14: The Download function allows you to download to CSV format to be viewed in Excel. Note: the current displayed results will be downloaded.

Reset

Resets the report back to the default settings, removing any customizations that you have made.

Skip to First/ Last Page

Allows you to navigate to the first or last page of the results.

Column Heading Menu

Clicking on any column heading exposes a column heading menu.

- **Sort Ascending icon** () sorts the report by the column in ascending order.
- **Sort Descending icon** () sorts the report by the column in descending order.
- **Break Column** () creates a break group on the column. This pulls the column out of the report as a master record.
- **Text Area** is used to enter case insensitive search criteria (no need for wild cards). Entering a value will reduce the list of values at the bottom of the menu. You can then select a value from the bottom

CWNS 2008 Reports – Online Help

and the selected value will be created as a filter using '=' (e.g. column = 'ABC'). Alternatively, you can click the flashlight icon and the entered value will be created as a filter with the 'LIKE' modifier (e.g. column LIKE '%ABC%').

- **List of Unique Values** contains the first 500 unique values that meet your filters. If the column is a date, a list of date ranges is displayed instead. If you select a value, a filter will be created using '=' (e.g. column = 'ABC').

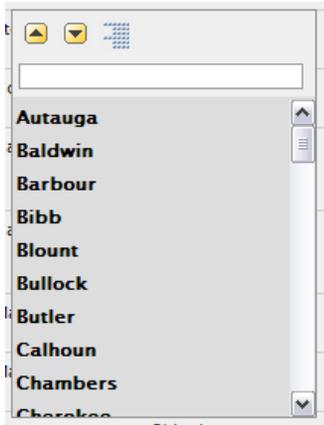


Figure A-15: Column heading options