



BEACH ADVISORY AND CLOSING ONLINE NOTIFICATION (BEACON) 2.0

User's Guide

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BEACON 2.0 CONTACTS

For questions about the BEACON 2.0 application, please email the [eBEACHES Help Desk](mailto:ebeaches@induscorp.com) (ebeaches@induscorp.com).

Additional information about the data available in BEACON 2.0 is available at [Submitting Data to EPA](#).

The data available through BEACON have been provided to EPA by the coastal and Great Lakes states, tribes and territories that receive grants under the BEACH Act. For the most up-to-date information, contact the state or local beach program manager using the contact information at: <https://www.epa.gov/beaches/state-and-local-beach-programs>.

REVISION HISTORY

User Guide Version	Date	Description of Changes
1.0	1/24/2012	Initial draft
1.1	11/29/2012	National List of Beaches report - Added a new section to the User's Guide describing how to use the new National List of Beaches report.
1.1	11/29/2012	Detailed Revision History - Refer to Appendix B for a more detailed revision history.
1.2	05/09/2013	Several bug fixes and minor changes were made to the BEACON 2.0 reports. Refer to APPENDIX B – Detailed Revision History for more details.
1.3	07/26/2013	Some text and screenshots were updated to document minor updates to the National List of Beaches report and the BEACON 2.0 reports. Refer to APPENDIX B – Detailed Revision History for more details.
1.4	11/20/2014	Some text and screenshots were updated to document minor updates to the National List of Beaches report and the BEACON 2.0 reports. Refer to APPENDIX B – Detailed Revision History for more details.
1.5	5/20/2015	Some text and screenshots were updated to document the BEACON 2.0 reports. Refer to APPENDIX B – Detailed Revision History for more details.
1.6	8/18/2015	Some text and screenshots were updated to document the BEACON 2.0 reports. Refer to APPENDIX B – Detailed Revision History for more details.
1.7	2/2/2016	Some text and screenshots were updated to document changes made to BEACON 2.0 reports in Releases 1.13.9, 1.14 and 1.14.1. Refer to APPENDIX B – Detailed Revision History for more details.
1.8	5/19/2016	Some text and screenshots were updated to document the changes made to BEACON 2.0 reports in Releases 1.14.3. Refer to APPENDIX B – Detailed Revision History for more details.
1.9	11/16/2016	Some text and screenshots were updated to document changes made to BEACON 2.0 reports in Releases 1.14.4. Refer to APPENDIX B – Detailed Revision History for more details.

A. INTRODUCTION

The U.S. Environmental Protection Agency (EPA) created the BEach Advisory and Closing Online Notification (BEACON) system to meet the Agency's requirement to provide to the public a database of pollution occurrences for coastal recreation waters.¹ EPA's response to this requirement, BEACON, contains "state"-reported² beach monitoring and notification data and is available online. EPA recently updated BEACON to include several enhancements and has named the new system BEACON 2.0. This User's Guide describes how to use the online [BEACON 2.0 system](#) to obtain state-reported beach monitoring and notification data.

A.1 BEACON 2.0 Features

The revised BEACON system includes several enhancements from the previous version and now provides several ways to access beach monitoring and notification data. Enhancements include:

- **Revised mapping interface:** The new BEACON 2.0 map includes many new features and has greater functionality.
- **New report creation wizard:** This tool walks users through three steps to select beaches, set search filters and view BEACON 2.0 reports.
- **New RSS feed generator:** The BEACON RSS ("Really Simple Syndication") Generator provides you with the ability to generate an RSS feed for an area of interest.

Each feature is accessible from the BEACON 2.0 interface.

BEACON 2.0 reports have the functionality to accommodate a wide range of users. These user roles include:

- **Basic:** You can access reports via the map interface. Selecting the reports via the map will return data for the select beach only.
- **Intermediate:** You can use the report creation wizard to select data by any combination of state/tribe/territory, county, and/or beach. The complete list of BEACON 2.0 reports is available in the wizard.
- **Advanced:** Once a report is opened, you can use the filtering tools available on the report page to modify previously selected filters and/or add new, more advanced filters, as well as change the look and feel of a report.

¹ Specifically, the Beaches Environmental Assessment and Coastal Health (BEACH) Act (section 406(e)) requires EPA to establish, maintain, and make available to the public by electronic and other means a national coastal recreation water pollution occurrence database.

² As used in this document, "state" includes tribes and territories in the Beach Program.

A.2 What are the sources of BEACON information?

The data available through BEACON have been provided to EPA by the coastal and Great Lakes states, tribes and territories that receive grants under the BEACH Act. For the most up-to-date information, contact the state or local beach manager using the contact information provided at:

<https://www.epa.gov/beaches/state-and-local-beach-programs>.

The state-reported data found in BEACON come from the following EPA databases:

- **Reach Address Database (RAD)**. RAD contains geographic data that define each beach's location and the location of water quality monitoring stations. BEACON pulls this data to display the beaches and stations on a map. For more information on RAD, see [EPA's Reach Address Database page](#).
- **STorage and RETrieval (STORET) database and Water Quality Exchange (WQX)**. STORET is EPA's repository of the water quality monitoring data collected by water resource management groups across the country. WQX is the framework by which organizations submit data to STORET. BEACON pulls water quality monitoring data from WQX/STORET. For more information on WQX/STORET, see <https://www.epa.gov/waterdata/storage-and-retrieval-and-water-quality-exchange>.
- **PRogram tracking, beach Advisories, Water quality standards, and Nutrients (PRAWN)**. PRAWN stores beach administrative, advisory and closing data. For more information on PRAWN, see the Notification Data section of [EPA's Submitting Data to EPA page](#).
- **Beach-related national geospatial downloads and fact sheet** are available for the BEACH Act program. For more information on PRAWN, see the Locational Data section of [EPA's Submitting Data to EPA page](#).

B. HOW TO USE THE “FIND A BEACH” BEACON 2.0 MAP TOOL

The new BEACON 2.0 “Find a Beach” mapping interface includes several improvements over the original version. New features include dynamic maps (as opposed to static), enhanced search tools to find the beach of interest, and several options for basemaps. The mapping tool can be accessed by clicking the “Find a Beach” tab on the BEACON 2.0 interface.

B.1 About the Map Tool Interface

This section describes the layout and components of the map interface (i.e., the “Find a Beach” tab).

B.1.1 Default View

As shown in Exhibit 1 below, the default view (or, extent) shows the “lower 48” view of the United States, with States in the Beach Program colored green. The view also contains several boxes and map elements, which are described in the following sections.

Exhibit 1. BEACON 2.0 Map Tool Default View.



For additional maps of Office of Water program data, see the EPA My WATERS Mapper page.

B.1.2 “Go To” Search Fields

For more information on these fields, see Section B.3.3 – Using the “Go To” Search Fields.

B.1.3 View Navigation Buttons

The right side of the top toolbar contains 3 buttons (see Exhibit 2) for basic view navigation.

Exhibit 2. View Navigation Buttons.



- **Back:** Navigates to a previous selection.
- **U.S. View:** Returns to the default view.
- **Forward:** If the Back button has been used, the Forward button will go back to the previous selection.

B.1.4 Coordinates Box

The coordinates box at the top-left side of the screen contains the geographic coordinates (longitude and latitude) of the current map location based on the position of the mouse pointer.

Exhibit 3. Coordinates Box.

Latitude: 37.9924 Longitude: -78.2998

B.1.5 Basemap Selector Box

The basemap selector box (see Exhibit 4) allows you to change the map style. This feature is similar to options available in many popular online mapping services. BEACON 2.0 offers three map styles (Streets, Imagery, and Topography), which can be changed at any time. Each style is described below.

Exhibit 4. Basemap Selector Bar.



B.1.5.1 STREETS BASEMAP

The **Streets** basemap is a graphical map that shows a variety of location features (e.g., state borders, street lines, natural features). The level of detail and types of features that are viewable will change depending on the zoom level. This basemap is provided via the Microsoft Bing Map service.

B.1.5.2 IMAGERY BASEMAP

The **Imagery** basemap consists of a patchwork of aerial photographs, with location feature information superimposed on the images. As with the other basemaps, zooming in will reveal a greater level of detail. The aerial images are provided via the Microsoft Bing Map service.

B.1.5.3 TOPOGRAPHY BASEMAP

The **Topography** basemap also is a graphical map, but, as the name implies, this map includes more topographical information than the other maps. This basemap includes administrative boundaries, cities, water features, physiographic features, parks, landmarks, highways, roads, railways, airports, and buildings overlaid on land cover and shaded relief imagery for added context. This basemap is hosted by ArcGIS Online.

B.1.5.4 AUTOMATIC BASEMAP SELECTION ENABLED BOX

When this option is selected, the basemap will change depending on the map scale. For example, the default Streets basemap will be switched with the Imagery basemap at a map scale of 1:1,155,583.42, which is approximately the spatial extent of a county boundary. Deselecting this option will maintain the currently selected basemap at any scale.

B.1.6 Pan and Zoom Tools

The pan and zoom tools are located on the left side of the map, just below the coordinates box. You also can pan and zoom using a mouse (as described below).

To pan (i.e., to move across the map):

- Click a directional arrow on the pan cross. The map will shift in the selected direction.
- Alternatively, use a mouse to pan by left clicking anywhere on the map (holding the left mouse button down) and dragging in the desired direction. Release the left mouse button to stop panning.

Zoom methods:

- Double-click the left mouse button to zoom in; hold the control key (Ctrl) and double-click the left mouse button to zoom out.
- Use the mouse wheel button. Rolling the wheel forward will zoom in; rolling the wheel backwards will zoom out.
- Use the slider bar just under the pan tool. Zoom in a single zoom level by clicking the plus sign at the top of the vertical slider; zoom out a single level by clicking the minus sign at the bottom of the slider. Or, left click and drag the arrow to the desired zoom level. When grabbing the slider, the scale name will appear to the right of the slider if using a mouse,
- You also can use the Shift key and drag the mouse to define a zoom extent. The zoom extent displays as a red rectangle. This area will be enlarged and centered in the new view.

B.1.7 Legend

The legend pane is located at the bottom left of the screen. This box is open at the default map view, and will collapse upon zooming in. Refer to Section B.2 for more information about the legend.

B.1.8 Alaska, Hawaii, US Territories and Tribes box

This box, located at the bottom-right corner, contains links for zooming to the other states, tribes and territories in the Beach Program. This box is open at the default map view, and will collapse upon zooming in.

B.1.9 Scale Bar

The scale bar is located at the bottom center of the View Frame. The scale bar relates inches on the map to both miles and kilometers on the ground. So, when opening the application, the entire United States is shown and the scale bar shows that roughly 2 inches on the screen equals 1000 miles on the map. The scale bar is approximate and depends upon many factors including the resolution of the screen but it is helpful in determining distances on the ground.

B.2 Symbology for BEACON 2.0 Elements

This section describes the map symbology for BEACON 2.0 map elements. Exhibit 5 below shows the map legend. **Note:** Map elements may take time to load and, therefore, may not be immediately viewable.

Exhibit 5. Map Legend.**B.2.1 Jurisdictions with beach data: States, Counties, and Tribes**

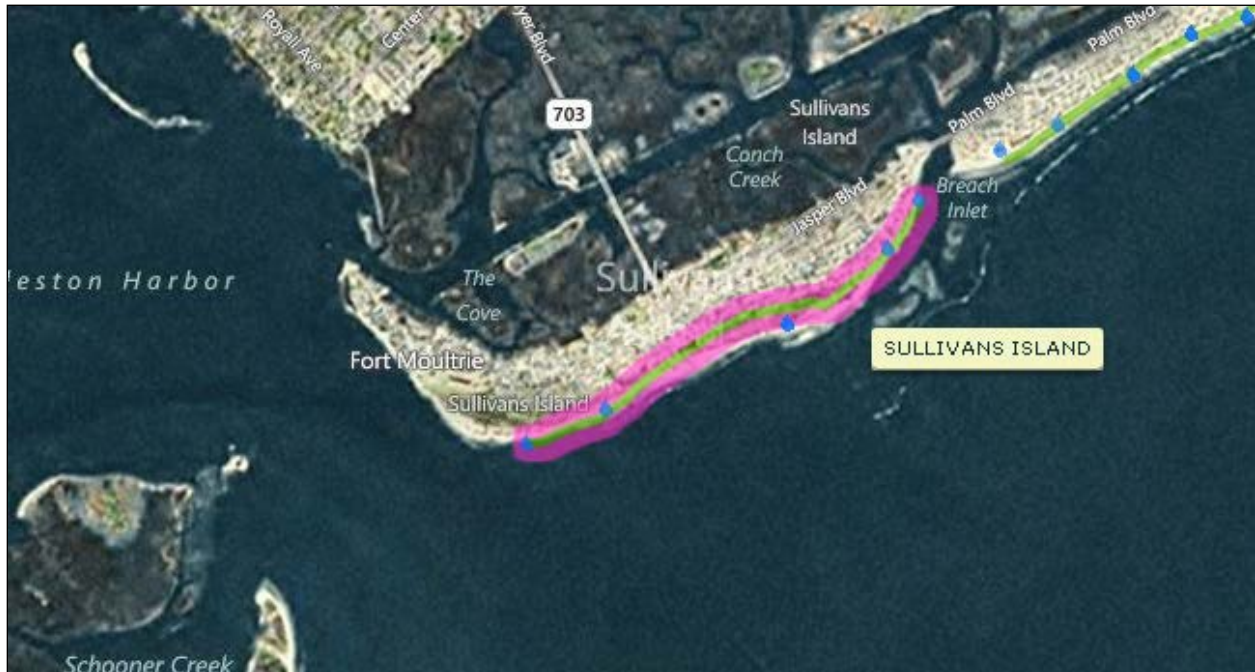
As noted in Section B.1.1 above, States with available beach data are colored green. Similarly, counties with available beach data are also colored green. Tribes with available beach data are colored blue.

B.2.2 Beaches (by last reported Status)

Beaches with available beach data appear as colored line segments on the map. The segment color depends on the most recent beach status reported to EPA. The beach status and associated colors are:

- Green – Beaches that are open,
- Yellow – Beaches that are under advisory,
- Red – Beaches that have been placed under a temporary closure action,
- Grey – Beaches that have not been reported on, or are not expected by the state to be reported on for upto two years are classified as dormant, and
- Khaki – Historical beaches.

Mousing over a beach will highlight the beach segment and reveal the beach name, as shown in Exhibit 6 below.

Exhibit 6. Beach Segment Appearance in BEACON 2.0.**B.2.3 Water Quality Monitoring Stations (STORET Stations)**

Monitoring stations appear as blue water drops on the map. Mousing over a monitoring station will highlight the station symbol.

B.3 Finding a Beach

This section describes different methods for locating beach information using the BEACON 2.0 map.

Notes:

- Map elements may take time to load and, therefore, may not be immediately viewable.
- If beach is not located but is listed in BEACON reports, the beach has not been indexed and, therefore, is not yet available on the map.

B.3.1 Simple Zoom

If the location (or general location) of the desired beach is known, simply use the zoom tool or mouse to zoom to the beach area. At the county level scale (approximately), beach segments will appear. Mousing over a beach will highlight the beach and show the beach's name. Click the segment to view a pop-up containing information about and links for the selected beach.

Zooming in two levels closer will reveal monitoring station locations (shown as water drop icons). Click an icon to view a pop-up containing information about and links to the selected station(s). Note that a

single water drop icon may represent multiple stations that are in close proximity to each other; clicking the water drop icon will reveal all of the associated station ID(s) in the pop-up.

See Section B.4 for more information about beach and monitoring station pop-up contents.

B.3.2 Using the Map to “Zoom to” Features

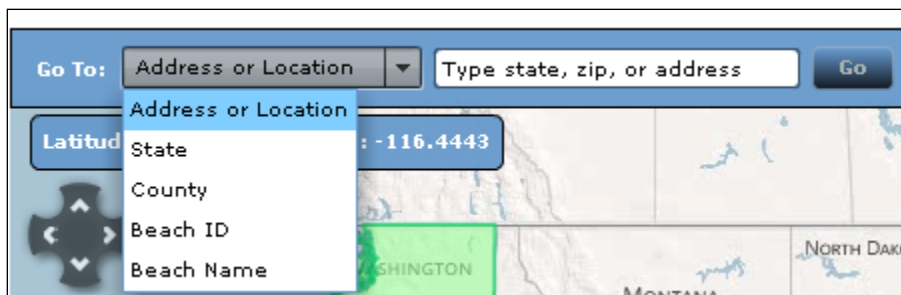
Follow the below steps for a point-and-click approach to zooming to features:

1. Click any state, territory, or tribe with beaches in the Beach Program (i.e., those colored green, or in the box). Then, in the pop-up, either click on the link to the “state” beach website, or click “Zoom to State” (or “Zoom to Tribe”) to stay on the EPA website and zoom to the counties in that “state” that contain active or historical beaches.
2. Click any county that is colored green. Then, in the pop-up, click “Zoom to [County Name]” to zoom to the active beaches and monitoring stations in that county. Mousing over a beach segment will reveal the beach name. Click a segment or station to view a pop-up containing links to information about the selected beach or station (see Section B.4.—Beach and Monitoring Station Details Pop-ups).
3. Optionally, after clicking on a beach line location, click “Zoom to Beach” in the pop-up to zoom to the beach.

B.3.3 Using the “Go To” Search Fields

The left side of the top toolbar contains the **Go To** tool. The default selection is drop-down menu with the **Address or Location** option selected and a corresponding text field.

Exhibit 7. “Go To” Search Fields.



There are several ways to use this tool:

B.3.3.1 “ADDRESS OR LOCATION” – ENTER A STATE, ZIP CODE, OR STREET ADDRESS IN THE TEXT FIELD

Select **Address or Location** from the drop-down, then type a state name, zip code, or street address in the text field to zoom to the respective location. After entering the information, hit Enter or click the **Go** button to zoom. If using a street address, also include a zip code. Do not use Rural Routes or P.O. Box numbers.

B.3.3.2 "STATE" OR "COUNTY" OPTIONS

If the **State** option is selected from the **Go To** drop-down menu (see Exhibit 8), a new drop-down menu will appear. This menu contains a list of states and territories that have available beach data. Select an item from the list, and then click the **Go** button to zoom to the selected location.

Note: This menu does not contain tribes. To select a tribe, use the list located in the **Alaska, Hawaii, US Territories, and Tribes** box.

Exhibit 8. "State" Go To Option.



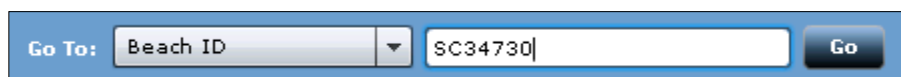
The screenshot shows a search interface with a blue border. On the left, it says "Go To:". To its right is a dropdown menu with "State" selected. Further right is a text input field containing "Virginia". To the right of the text field is a button labeled "Go".

Similarly, selecting the **County** option will reveal a new a state drop-down menu and a county drop-down menu. To use this search method, first select a state or territory, and then select a county. Click the **Go** button to zoom to the selected county.

B.3.3.3 "BEACH ID" OPTION

From the **Go To** drop-down, you also can choose to search by **Beach ID**. Beach IDs are unique identifiers assigned by EPA. Beach IDs will be familiar to more advanced users, and are found in BEACON 2.0 reports and other Program materials. This option will zoom to the extent of the selected beach. After entering the Beach ID, click the **Go** button to zoom.

Exhibit 9. "Beach ID" Go To Option.



The screenshot shows a search interface with a blue border. On the left, it says "Go To:". To its right is a dropdown menu with "Beach ID" selected. Further right is a text input field containing "SC34730". To the right of the text field is a button labeled "Go".

B.3.3.4 "BEACH NAME" OPTION

The **Go To** drop-down also allows you to navigate to a beach by entering a beach name. After selecting the **Beach Name** option from the **Go To** drop-down, a new **Select state** drop-down menu (containing a list of states and territories state that have available beach data) and **Type beach name** text field will appear. First select a state or territory, then enter a beach name in the text field. As a beach name is entered, BEACON searches for matches and returns a list of beaches containing the entered text. Select a beach, then click the **Go** button to zoom. **Note:** Only beaches with available beach data will be listed.

B.4 Beach and Monitoring Station Details Pop-ups

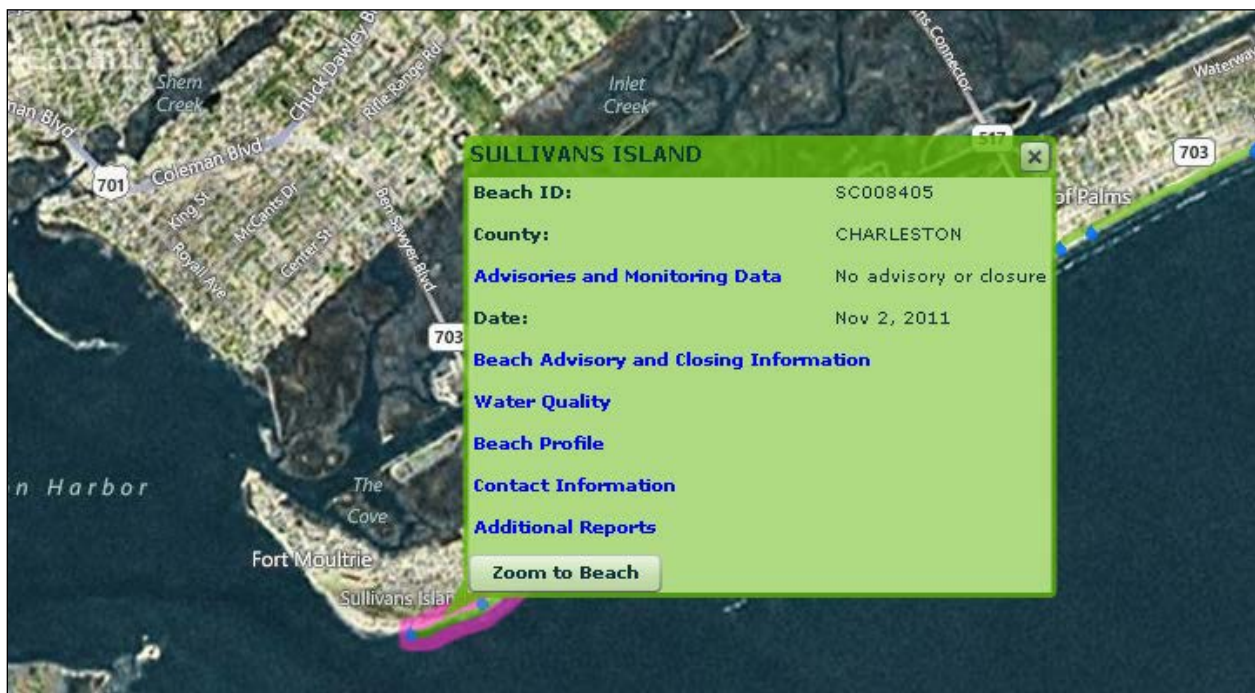
This section describes the pop-up menus that appear when clicking on a beach or monitoring station.

B.4.1 Beach Details Pop-up

When clicking on a beach segment, a beach details pop-up box will appear (see Exhibit 10). This box contains:

- **Beach ID:** A unique identifier for the beach.
- **County:** Identifies the county that the beach resides in.
- **Advisories and Monitoring Data:** This link provides advisories and water quality data submitted in the prior two weeks; in most cases, this will only return data during the beach season if the “state” reports to EPA frequently.
- **Beach Advisory and Closing Information:** Click this link to see dates of advisories and closures for the selected beach. See Appendix A for an example report.
- **Water Quality:** Click this link to view the water quality report for the selected beach. See Appendix A for an example report.
- **Beach Profile:** Click this link to find administrative information, e.g., how frequently this beach is monitored and information about the swim season. See Appendix A for an example report.
- **Contact Information:** Click this link to get contact information for the selected beach (this is a section in the Beach Profile).
- **Additional Reports:** Click this link to access more BEACON 2.0 reports in a new webpage. See Appendix A for additional example reports.

Exhibit 10. Beach Details Pop-up.



B.4.2 Monitoring Station Details Pop-up

When clicking on a monitoring station, a station details pop-up box will appear. If the station point is associated with a single monitoring station, the pop-up will appear as shown in Exhibit 11. If more than one station is associated with the station symbol, the pop-up will appear as shown in Exhibit 12; this box contains a button for each station (click on the station name/ID to open view the station's details).

The monitoring station pop-ups contain:

- **Station ID:** A unique identifier for the station.
- **Organization ID:** The ID of the organization that reports monitoring data to WQX/STORET.
- **Organization Name:** The name of the organization that reports monitoring data to WQX/STORET.
- **More details button:** Click this button to view the BEACON 2.0 Water Quality Report for the station. The report will open in a new window. For an example of this report, see Appendix A.

Exhibit 11. Monitoring Station Details Pop-up – Single Station.

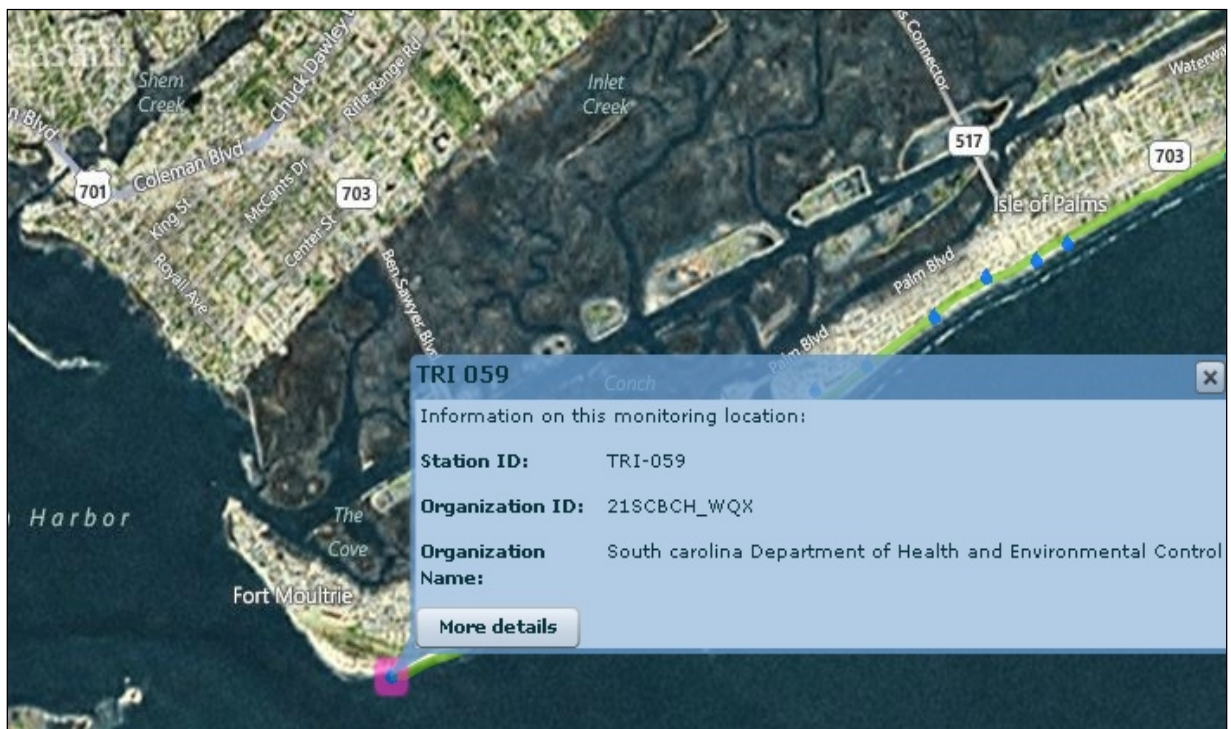


Exhibit 12. Monitoring Station Details Pop-up – Multiple Stations.

B.5 How to Find beaches by Hydrologic Unit Code (HUC)

BEACON 2.0 does not currently support searches by HUC. To look up beach names grouped by HUC, please use the link “EPA My WATERS Mapper” below BEACON map or go to [My WATERS Mapper \(https://map24.epa.gov/mwm/\)](https://map24.epa.gov/mwm/) application, then return to BEACON 2.0 to view beach data for the beach(es) in the HUC(s) of interest, as described in the below steps:

- In My WATERS Mapper, open the **Other EPA Water Data** panel on the right and check the boxes for **Watershed Boundaries (WBD)** and **Beaches**.
- To locate beaches by HUC, from the **Go To** dropdown menu select **Watershed Boundaries (WBD)**. Enter any 2- to 12-digit HUC in the text field and click **Go**.
- To find the HUC code for a beach, select **Beaches** from the **Go To** dropdown menu. Enter a beach name in the text field and click **Go**.

To view BEACON data for the desired beaches, you must return to BEACON 2.0 and find the beaches using the search tools.

C. HOW TO USE THE BEACON 2.0 REPORTS WIZARD

Beach advisory and closing reports can be generated using the Reporting tool in BEACON 2.0. This tool can be accessed by clicking the "Reports" tab.

The Reports tool is a 'wizard' that allows you to create BEACON 2.0 reports in three steps. Step 1 allows you to select the beaches for a report pre-grouped by EPA Region or Great Waterbody, or to select by a combination of state/tribe/territory, county, and/or beach. Step 2 allows you to add filtering by date and alter other miscellaneous filters. Step 3 displays a list of available reports for use with the filters selected from the first two steps.

Note: If too many filters are applied, the application will return an error message indicating that fewer selections should be made.

C.1 Step 1 – Location Filters

Step 1 allows for selection of one of three location filter types. Each type is described in the sections below.

Note:

- At least one location must be selected in order to generate reports – however, only one location filter group should be used. If multiple location filter groups are applied (e.g., Select by EPA Region and Select by state), only the first one listed on the Step 1 wizard page is applied.
- Only EPA Regions, states/tribes/territories, and counties with beaches in the Beach Program are listed as options in the location filters.
- Historical and Private beaches are not included in the report location filters; they are filtered out in the reports but are included in the map functionality. See Step 2 – Additional Filtering for instructions on including historical and private beaches in the search criteria for the reports.

C.1.1 Select by National or EPA Region

Using this option will filter for beaches in the selected EPA Region(s). Multiple regions can be selected by holding the control (CTRL) key. To select all beaches in the Beach Program, select the "National – All states/tribes/territories" option from the list (see Exhibit 13). **Note:** Hold down the control key to deselect an entry.

Exhibit 13. BEACON 2.0 Reports Wizard – Step 1: Location Filter by EPA Region.

Step 1 - Location Filter Step 2 - Additional Filtering Step 3 - Report Selection

Notes: You must select at least one location filter. In order to look up beach names grouped by HUC code, use the following:

- ▼ **Select by EPA Region** (click to open/close selection list)
 - National - All States/Tribes/Territories
 - Region 1 - CT, MA, ME, NH, RI
 - Region 2 - NJ, NY, PR, VI
 - Region 3 - DE, MD, PA, VA
 - Region 4 - AL, FL, GA, MS, NC, SC
 - Region 5 - GP, IL, IN, MI, MN, OH, WI
 - Region 6 - LA, TX
 - Region 9 - AS, CA, GU, HI, MP
 - Region 10 - AK, MK, OR, WA
- ▶ **Select by Great Waterbody** (click to open/close selection list)
- ▶ **Select by State/Tribe/Territory, County, and/or Beach** (click to open/close selection list)

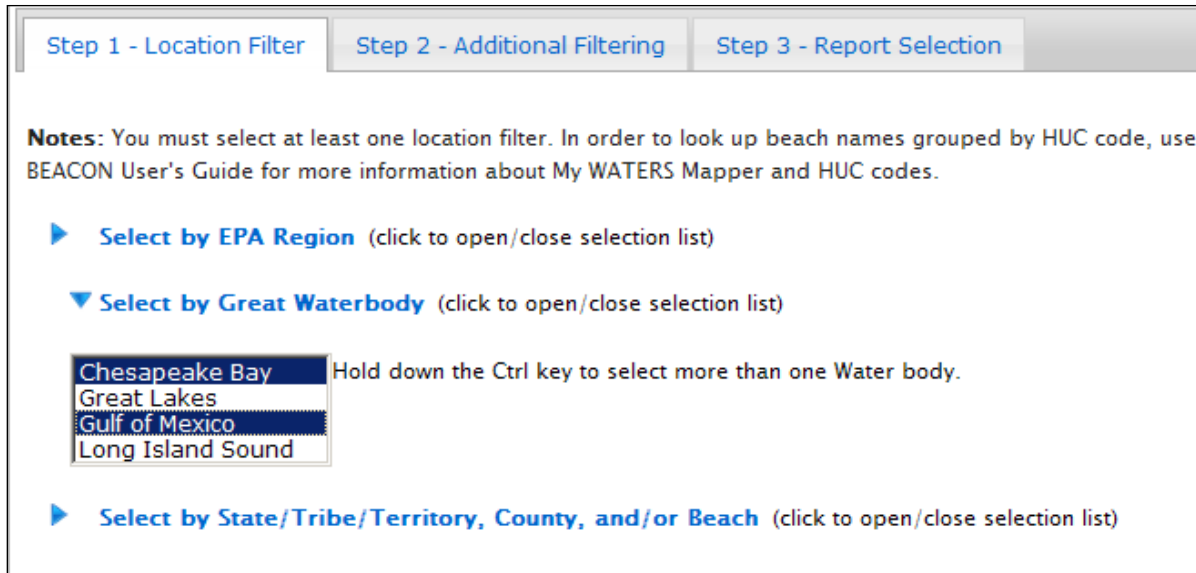
Hold down the Ctrl key to select more than one region.

C.1.2 Select by Great Waterbody

You also can filter for beaches by Great Waterbody, as seen in the image below (see Exhibit 14). This filter will return beaches from multiple states, tribes, territories, and/or counties that are on the

selected Great Waterbody. Multiple Great Waterbodies can be selected by holding the control (Ctrl) key.
Note: Hold down the control key to deselect an entry.

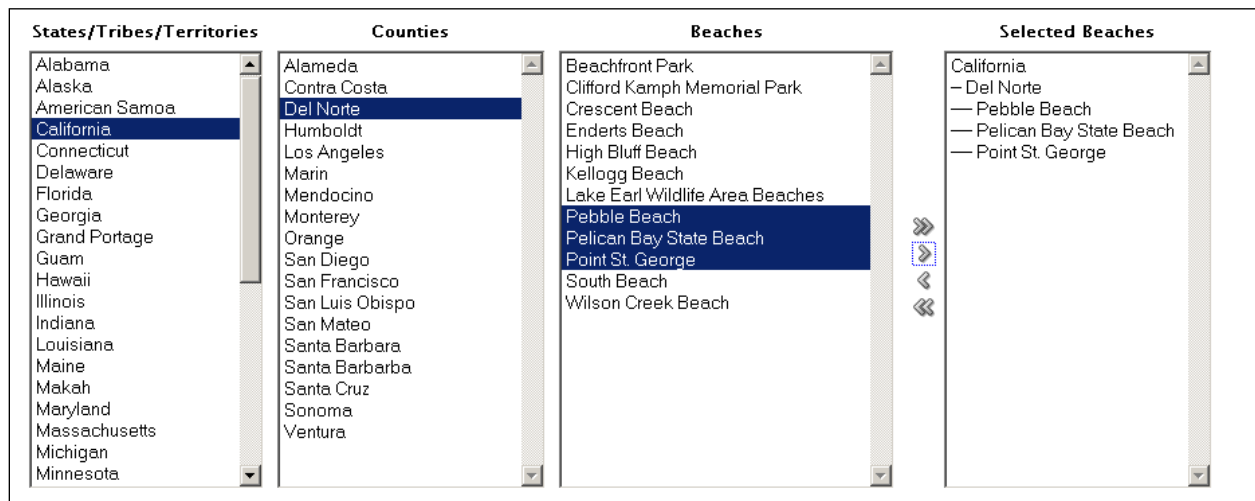
Exhibit 14. BEACON 2.0 Reports Wizard – Step 1: Location Filter by Great Waterbody.



C.1.3 Select by State/Tribe/Territory, County, and/or Beach

The third location filter option will filter for beaches by the selected states, tribes, territories, counties, and/or beaches. This method involves using the selection tool shown in Exhibit 15 below.

Exhibit 15. BEACON 2.0 Reports Wizard – Step 1: Location Filter by state/tribe/territory, county and/or beach.



Select beaches to include in the BEACON 2.0 reports by moving selections from the **States** (includes States/Tribes/Territories), **Counties** and/or **Beaches** boxes on the left side to the **Selected Beaches** box on the far right.

How to add items to the Selected Beaches box:

- Find a single beach by clicking on the state/tribe/territory, county, and then beach name. Add the beach to the **Selected Beaches** box by clicking on a beach name and clicking the single right arrow.
- Multiple beaches can be selected by holding the control key and clicking on each beach name. After the beaches have been selected the single right arrow can be used to move the beaches to the **Selected Beaches** box.
- All beaches in a state/tribe/territory can be added to the **Selected Beaches** box by selecting the state/tribe/territory and using the single right arrow. Multiple groups can be added, but must be added one at a time.
- All beaches in a county can be moved to the **Selected Beaches** box selecting a county and then using the single right arrow. Multiple groups can be added, but must be added one at a time.

How to remove items from the Selected Beaches box:

- To remove specific beaches or groups, use the single left arrow to remove the selections one at a time. See Section G.7 – Removing selections from the Selected Beaches box for additional information on removing items.
- To clear the Selected Beaches box, click the double left arrow.

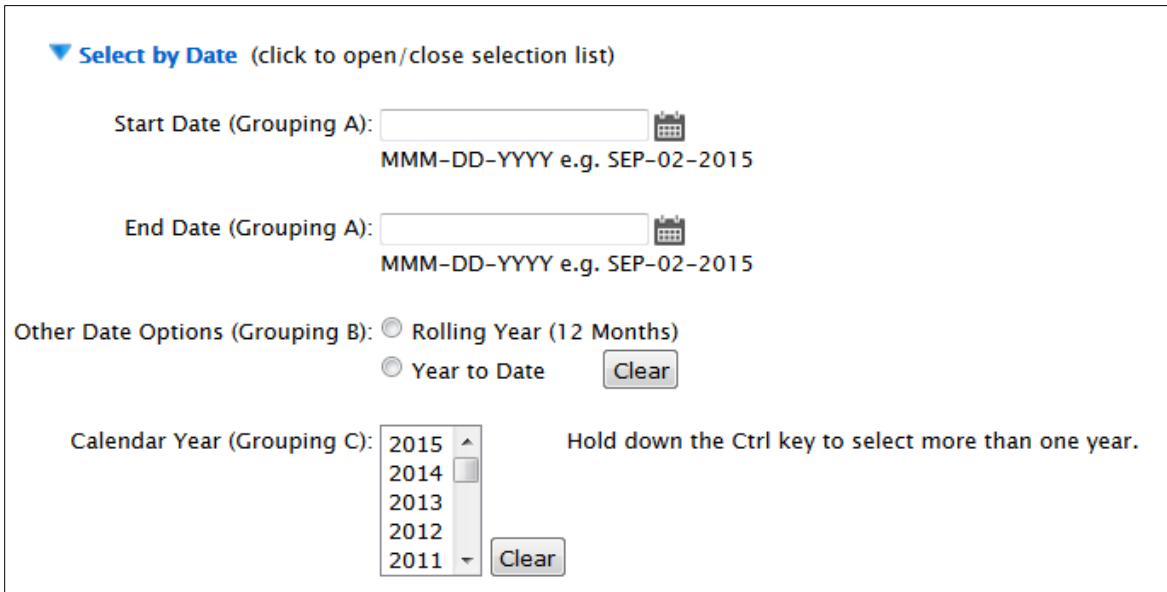
C.2 Step 2 – Additional Filtering

The additional filter page allows you to add filtering by date and alter other miscellaneous filters.

C.2.1 Select by Date

The date filter menu contains three options for filtering by date (see Exhibit 16 below). **Note:** Only one option group should be used when using the Select by Date filter.

Exhibit 16. BEACON 2.0 Reports Wizard – Step 2: Additional Filtering by Date.



Select **one** of the options listed below:

- **Start/End Dates Option (Grouping A):** Enter a date range to filter reports for beach activity and action data falling within the selected range.
- **Other Date Options (Grouping B):** You can only select one of these “Other” options. The rolling year select will return any records in the preceding 12 months. The year to date option will return any records since January 1st of the current year. The clear button may be used to clear the currently selected option under Grouping B.
- **Calendar Year Option (Grouping C):** The calendar year option displays a list of years that can be selected. When one or more of these values are selected, then the reports are filtered to bring back data for this selection. The clear button may be used to clear the currently selected option(s) under Grouping C.

C.2.2 Selecting by Miscellaneous Filters

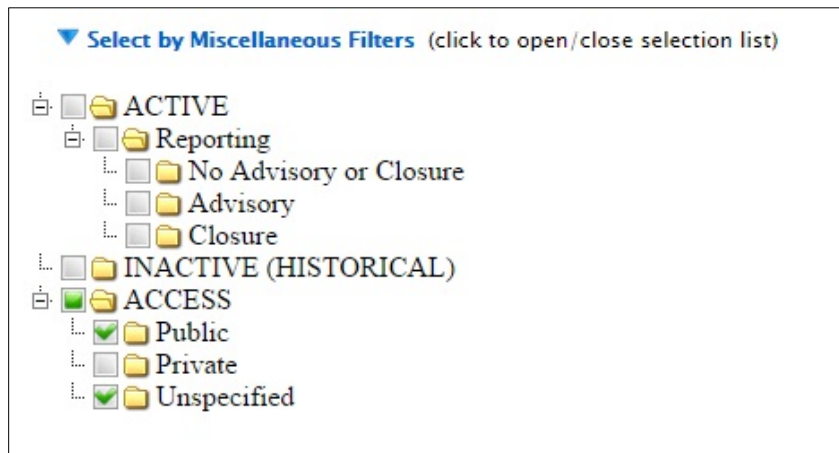
This outline will allow you to select alternative filter combinations than those preset for the reports. The preset filters show a green checkmark and include beaches that have the following characteristics: Public and or Unspecified Access. Note that the tree structure is fully expanded automatically to display all miscellaneous filtering options. You can turn off a preset filter by clicking in a checked box (thereby excluding beaches with that characteristic), or add a filter by clicking in an empty box (thereby adding beaches with that characteristic). For example, because the INACTIVE (HISTORICAL) check box defaults to unchecked, those beaches will not be included in your report. To include historical beaches in your

report, click in the check box to add the green check mark. This method involves using the miscellaneous filters selection tool shown in Exhibit 17 below.

Note:

- Historical beaches are sometimes flagged as private beaches and also sometimes the Reported flag is not Y. So to see the historical beaches, in addition to selecting the INACTIVE (HISTORICAL) option, for most states, you have to change the Access (e.g. selecting Private option) and Reporting (e.g. unselecting Advisory and Closure options) filters.
- These automatic filters are not applied when reports are accessed from the mapping portion of the application. These filters can be adjusted in the wizard and after a report is opened (see Section D –About BEACON 2.0 Reports for more information).

Exhibit 17. BEACON 2.0 Reports Wizard – Step 2: Select by Miscellaneous Filters.




C.3 Step 3 – Report Selection

The report selection page displays a list of available reports for use with the filters selected from the first two steps. The report selection page also includes a link to a Real Simple Syndication (RSS) generator for the beaches selected (for more information on using the RSS generator, see Section E – RSS Feeds). Exhibit 18 below shows the report name and description for each available BEACON 2.0 report. On the BEACON 2.0 web page, click on a report name to open the report in a new window For examples of the reports, see Appendix A.

Exhibit 18. BEACON 2.0 Reports List.

Report	Description
Action Duration	<u>For each BEACH Act beach with an action:</u> Each action for each beach is sorted into one of five action duration groups (1 day duration, 2 days duration, 3-7 days duration, 8-30 days duration, or greater than 30 days duration). The list is sorted by county and beach name. Note: An action can be based on a model or policy and not be a monitored beach.

Report	Description
Advisory and Monitoring	<u>For each BEACH Act beach:</u> Presents a condensed combination of the "Action" and "Water Quality" Reports for the most recent 2 week period of submitted data (most recent to older order) including: dates, duration of actions, basis for action, possible cause and source, monitoring results. The list is sorted by "state", county, and beach name. Note: This report will not return data if none has been submitted in the prior two weeks.
Beach Actions (Advisories and Closures)	<u>For each beach action at a BEACH Act beach:</u> Presents details of each beach action including: (1) type of action (e.g., closure, rain advisory, contamination advisory), (2) starting and ending date of the action, (3) duration of the action in days (day" is defined as: an action lasting less than 24 hours will have a duration of 1 day. Any action lasting 24 hours or more will have a duration equal to the number of days on which the action occurred), (4) action reason, source, and the indicator used to trigger the action. The list is sorted by county, beach name and action start date. The default "1. Primary Report" combines into one line all action Reasons, Indicators, and Possible Sources as a "Main Report". To see a detailed listing, move your cursor to the right and click on "Detailed Report". Note: An action can be based on a model or policy and not be a monitored beach.
Beach Attributes	<u>For each BEACH Act beach:</u> Identifies attributes of each beach including: (1) beach tier ranking, (2) beach length, and (3) latitude/longitude. The list is sorted by county and beach name.
Beach Days	<u>For each BEACH Act beach:</u> The number of beach days in the swimming season (based on swimming season length) is presented for each beach. If the beach had an action (1) the total number of action days and (2) the percentage of beach days the beach was under an action are also presented. The list is sorted by county and beach name. Note: This report includes monitored and non-monitored beaches. An action can be based on a model or policy and not be a monitored beach.
Beach Monitoring Frequency	<u>For each BEACH Act beach:</u> Identifies swim season and monitoring attributes of each beach including: (1) swimming season length and (2) in- and off-season monitoring frequency. The list is sorted by county and beach name.
Beach Profile	<u>For each BEACH Act beach:</u> Presents beach administrative information including: beach name, beach ID, location, contact information, public access, Tier, swim season, monitoring and reporting frequency, possible pollution sources. The list is sorted by "state", county, and beach name.
Possible Pollution Sources	<u>For each BEACH Act beach:</u> Identifies if possible pollution sources have been investigated or associated with a Beach Action and, if so, what are the possible sources that might affect beach water quality. The list is sorted by county and beach name.
RSS Feed	<u>News feed for Beaches:</u> Brief news feed that links to the advisory and monitoring report for the selected beach. The RSS feed link can only display about 200 beaches at a time. If too many beaches are selected to display in the RSS feed, then any over the 200 limit will be excluded. In order to view an RSS feed, the user must have an RSS feed reader installed. Some browsers may come standard with feed readers but other browsers may require a separate download. More information about news feeds (also called "RSS") from USA.gov. 

Report	Description
State Summary	For each county: Displays key summary statistics concerning BEACH Act beaches including: (1) number and length of monitored beaches, (2) number of monitored Tier 1 beaches, (3) number and durations of monitored beach actions, and (4) the number of monitored beach days under an action. The list is sorted by county name. Please note: this report can take several minutes to load if only a few filters have been applied.
Tier 1 Stats	For each BEACH Act beach designated as Tier 1: Presents beach attributes and action information including : (1) beach length, (2) swim season monitoring frequency, (3) number of beach days, and (4) number of days under an action. The list is sorted by county and beach name. Please note: this report can take several minutes to load if only a few filters have been applied.
Water Quality	For each monitored BEACH Act beach: Presents details of water quality monitoring results collected for the beach program (from WQX/STORET) including: beach ID, beach name, sampling station ID, date/time of sample, collection method, characteristic(s) (e.g., pathogen indicator) sampled, results, analytical method, statistic type (e.g. geometric mean). The list is sorted by "state", county, and beach ID, station ID. date of sample (recent to older).

D. ABOUT BEACON 2.0 REPORTS

BEACON 2.0 reports are interactive reports, which means you can further customize the reports manually from the report screen. Some of the available features allow you to:

- Alter the layout of report data by selecting columns, applying filters, highlighting, and sorting.
- Define breaks, aggregations, charts, group bys, and add user-defined computations.
- Download report data (multiple formats available).

More information on customizing reports is provided in the following sections.

D.1 Report Page Elements

Exhibit 19 below shows the layout and elements of the BEACON 2.0 reports pages. Each page element is described below the exhibit.

Exhibit 19. BEACON 2.0 Reports – Page Elements.

Beach Attributes

Note: For some users, depending on screen resolution, this report extends beyond the window's border to the right. Please use the browser's horizontal scroll-bar to scroll to the right, to access the vertical scroll-bar to scroll through the report vertically to see all the rows of data; or you can click in the body of the report and use your up and down arrow keys.

Report Toolbar: Search, Go, 1. Primary Report, Actions, Bottom of page

Report Filters:

- Beach Access in 'Public, null'
- Historical Record in 'N'
- Reported in 'Y'
- State in 'MI'
- Status in 'Active, Advisory, Closure'
- Year in 2014
- State
- Year

Control Break: State : MI, Year : 2014

Report Headers:

Beach ID	Beach Name	County	Beach Ownership/ Beach Accessibility	Beach Length (Mi)	Beach Tier	Start Latitude	Start Longitude	End Latitude	End Longitude
MI000293	Black River Public Access	ALCONA	Public/Public	.261	3	44.812119	-83.296127	44.82	-83.298553
MI908114	Greenbush Township	ALCONA	Public/Public	.012	3	44.56321	-83.313507	44.563019	-83.313538
MI388337	Harrisville Public Access	ALCONA	Public/Public	.191	3	44.662197	-83.285957	44.660801	-83.286255
MI000348	Harrisville State Park	ALCONA	Public/Public	.59	2	44.652565	-83.289696	44.650002	-83.295006
MI589651	Negwegan State Park	ALCONA	Public/Public	2.361	3	44.858559	-83.321533	44.830597	-83.301659
MI556458	Point Rd. Beach	ALCONA	Public/Public	.569	3	44.714291	-83.273788	44.710781	-83.271149

Report Navigation: Rows 1 - 50

Report Data

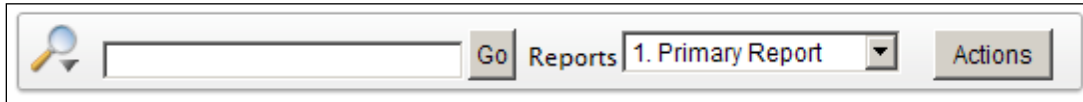
Browser Scrollbar

- **Report toolbar** – See Section D.2 for information about the report toolbar.
- **Report filters** – List of filter values currently applied to the report. These filters can be toggled on and off using the checkboxes; to delete a filter, click the red x on the filter icon. Filter settings can be changed by clicking the filter name. See Section D.2.1.2 for further information about customizing filters. **Note:** Some of the filters cannot be changed in the State Summary report.
- **Control break** – The values the data are grouped together in the report. Most reports are grouped together by state and year. See Section D.2.1.4.2 for more information about control breaks.
- **Report headers** – The report headers for each column. You can select these column headers to further filter the report by values in the column. **Note:** If the report contains a lot of data, it may take extra time for the filter selection to appear when you select the header.
- **Report data** – The returned data for the report based on the filters currently applied for the selected columns. **Note** - A '-' in the column data indicates no data was submitted yet for that data element.
- **Report navigation** – The reports contain the ability to navigate to next or previous pages in the report using the arrow buttons. You can also go directly to a page containing a specific row range using the drop down box.

D.2 Report Toolbar

Exhibit 20 below shows the layout and elements of the BEACON 2.0 Report Toolbar. Each page element is described below.

Exhibit 20. Report Toolbar.



At the top of each report page is a tool bar that provides the following features:

- **Select columns icon (magnifying glass):** Specifies which report/data column will be searched (based on the text field entry).
- **Text search field:** Enables you to enter search criteria. You can use wildcards by entering the “%” sign. For example, select the beach name field from the magnifying glass and enter the characters “%beach%” to return any records with the word “beach” in them. Each new search field entry applies a new filter to the report. These text filters can be toggled on or off, or deleted.
- **Go button:** Executes the search.
- **Reports:** Enables you to select between the various versions of the report. The “Primary Report” is the default selection and groups the data by state (except for the beach actions report, which is grouped by beach). Other options include “Most Recent”, which displays only the most recent records available in the system, “Total by County”, which groups the data by county, and “Total of all Jurisdictions”, which groups all jurisdictions (when multiple jurisdictions are selected) in order to provide a multi-jurisdictional count total for most data columns. **Note:** Not all reports have these additional report options. Also, reports can take several minutes to load.
- **Actions Menu:** Provides report customization options (see the next section for more details). Anytime an option from the action menu is used to change the report filter, the entire page is refreshed with the new dataset. To remove new filters from the report and restore the default settings, click the Reset button.

D.2.1 Actions Menu

The Actions menu appears to the right of the **Go** button on the search bar. You can use this menu to customize an interactive report. Each customization option is described below.

Exhibit 21. Actions Menu Overview.

Beach Days

Note: For some users, depending on screen resolution, this report extends beyond the window's border to the right. Please use the browser's horizontal scroll-bar to scroll to the right, to access the vertical scroll-bar to scroll through the report vertically to see all the rows of data; or you can click in the body of the report and use your up and down arrow keys.

Search: Go 1. Primary Report Actions Bottom of page

- Beach Access in 'Public, null'
- County in 'WAYNE'
- Historical Record in 'N'
- Reported in 'Y'
- State in 'MI'
- Status in 'Active, Advisory, Closure'
- Year = 2015
- State
- Year

Actions Menu:

- Select Columns
- Filter
- Rows Per Page >
- Format >
- Flashback
- Reset
- Help
- Download

State : MI, Year : 2015

Beach ID	Beach Name	County	No. of Days Under Beach Action	Percent Days Under a Beach Action	No. of Days Not Under Beach Action	Percent Days Not Under a Beach Action
MI000322	Belle Isle Beach	WAYNE	0	0%	107	100%
MI000344	Pier Park	WAYNE	0	0%	98	100%
Count:2			0		205	

Rows 1 - 2

D.2.1.1 SELECT COLUMNS

This feature allows you to modify which data columns are shown in the report. Selecting this option will reveal a new box that contains a list of columns not currently displayed (left-hand box) and a list of columns displayed (right-hand box) in the report. Move columns to either list using the single and double arrows. In the displayed columns list, you can change the column order by selecting an item and using the up or down arrows. **Note:** Computed columns are prefixed with “**” in the list. Click the Apply button to refresh the report with the selected modifications.

Exhibit 22. Actions Menu > Select Columns.

Beach Days

Note: For some users, depending on screen resolution, this report extends beyond the window's border to the right. Please use the browser's horizontal scroll-bar to scroll to the right, to access the vertical scroll-bar to scroll through the report vertically to see all the rows of data, or you can click in the body of the report and use your up and down arrow keys.

Search: [] Go 1. Primary Report Actions Bottom of page

Select Columns

Do Not Display	Display in Report
Beach Action in 2010?	Beach ID
Beach Access	Beach Name
Beach Owner	County
Filter Waterbody	State
Historical Record	No. of Days Under Beach Action
No. of Beach Days Reported	Percent Days Under a Beach Action
Status	No. of Days Not Under Beach Action
Waterbody Name	Percent Days Not Under a Beach Action
Waterbody Type	Year

State : MI, Year : 2015

Beach ID	Beach Name	County	Beach Action	Action	Beach Action	Action
MI000322	Belle Isle Beach	WAYNE	0	0%	107	100%
MI000344	Pier Park	WAYNE	0	0%	98	100%
Count:2			0		205	

Rows 1 - 2

D.2.1.2 FILTER

This feature allows you to create a data filter to apply for the report. Selecting this option will reveal a new box that contains options for two filter types (column and row), as described below.

D.2.1.2.1 Column filter

This filter option contains a column selector, operator selector, and expression text field.

Exhibit 23. Actions Menu > Column Filter.

To filter by column:

1. Select a column (does not need to be one that is displayed in the report).
2. Select an operator (e.g., =, !=, not in, between). The operator/condition options available in the drop-down list are explained with greater detail in Oracle reference materials. The list below gives the section where each operator/condition can be found:
 - i. [Oracle Database SQL Language Reference](#)
(http://docs.oracle.com/cd/B28359_01/server.111/b28286/toc.htm)
 1. "LIKE" and "matches regular expression" are covered under the [Pattern-matching Conditions section](#)
(http://docs.oracle.com/cd/B28359_01/server.111/b28286/conditions07.htm#BABGDGIH).
 2. Equals (=) and Does not Equal (!=) are covered under the [Comparison Conditions section](#)
(http://docs.oracle.com/cd/B28359_01/server.111/b28286/conditions02.htm#i1033286).
 3. "Is Null" and "Is Not Null" are covered under the [Null Conditions section](#)
(http://docs.oracle.com/cd/B28359_01/server.111/b28286/conditions08.htm#i1050977).

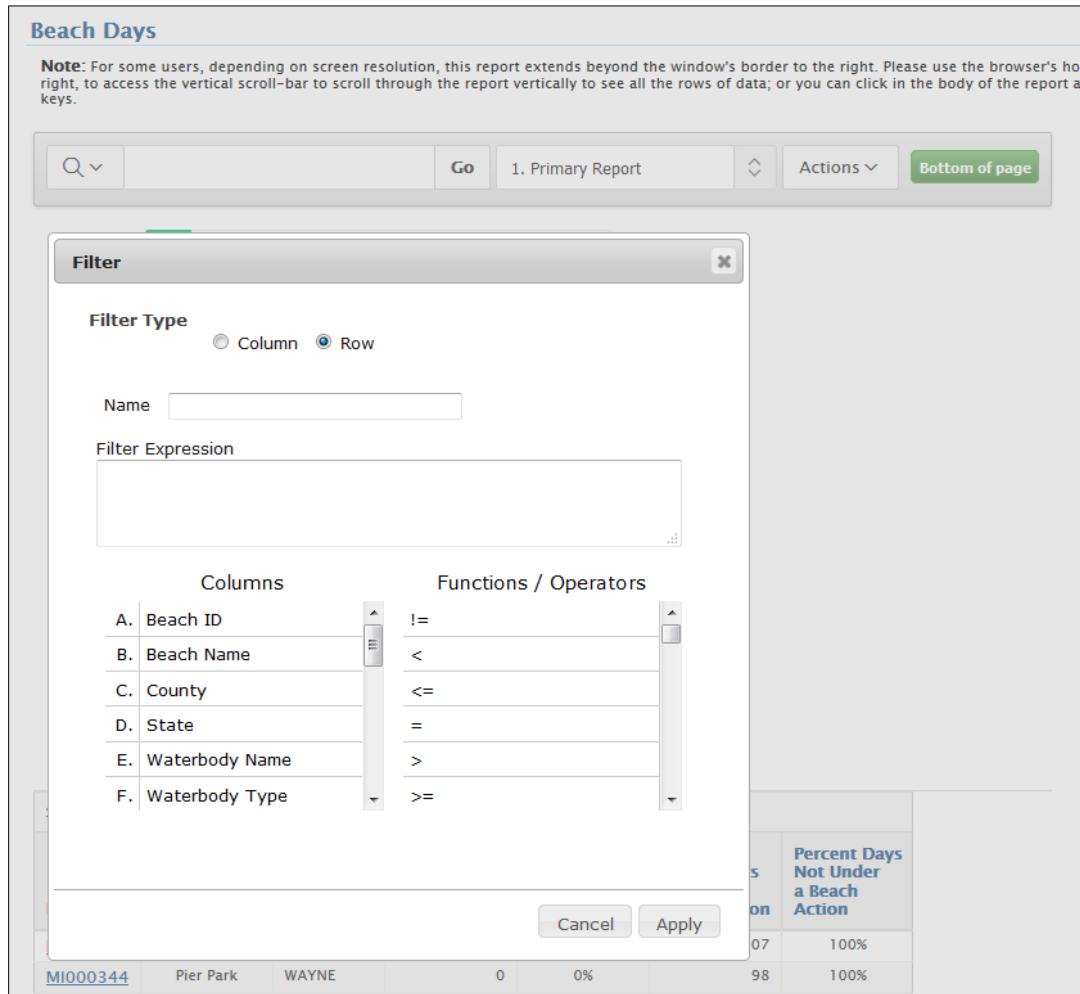
4. "IN" and "NOT IN" are covered in the ["IN" Condition section](http://docs.oracle.com/cd/B28359_01/server.111/b28286/conditions013.htm#i1050801) (http://docs.oracle.com/cd/B28359_01/server.111/b28286/conditions013.htm#i1050801).
- ii. [Oracle Text Reference](#) (http://docs.oracle.com/cd/B19306_01/text.102/b14218/toc.htm)
 1. The "CONTAINS" filter performs a string comparison on each of the column values returned. Further information regarding CONTAINS can be found in the [CONTAINS section](#) of the Oracle Text Reference (http://docs.oracle.com/cd/B19306_01/text.102/b14218/csql.htm#sthref122).
3. Enter an expression or value in the text field.
 - i. Expression: Enter a search expression in the text field (note: expressions are case sensitive). For example, using the wildcard character (%) in the expression "STATE_NAME like A %" will return all states and territories beginning with the letter "A" (note: only locations with BEACON data would be returned).
 - ii. Value: Type a value into the text box or click the arrow next to the text field to show a list of available values for the selected column.
4. Click the Apply button to apply the filter to the report.

The created filter will appear in the settings list below the tool bar. To modify the filter, click the filter name to open the filter options box. The filter can be turned off by un-checking the check box or deleted by clicking the red X icon.

D.2.1.2.2 Row filter

This filter option contains a column selector, function/operator selector, and filter naming field as shown in the filter expression window.

Exhibit 24. Actions Menu > Row Filter.



To filter by row:

- You can create complex WHERE clauses using column aliases and any Oracle functions or operators (for example, A = 'AL769933', where A is the alias for Beach Id).
- The created filter will appear in the filters list below the tool bar. To modify the filter, click the filter name to open the filter options box. The filter can be turned off by unchecking the check box or deleted by clicking the red X icon.

D.2.1.3 ROWS PER PAGE

Sets the number of records to display per page.

D.2.1.4 FORMAT

Format enables you to customize the display of the report. Format contains the following options:

Exhibit 25. Actions Menu > Format.

Action Duration

Note: For some users, depending on screen resolution, this report extends beyond the window's border to the right. Please use the browser's horizontal scroll-bar to scroll to the right, to access the vertical scroll-bar to scroll through the report vertically to see all the rows of data; or you can click in the body of the report and use your up and down arrow keys.

Search: [Q v] Go 1. Primary Report Actions Bottom of page

- Select Columns
- Filter
- Rows Per Page
- Format**
 - Sort
 - Control Break
 - Highlight
 - Compute
 - Aggregate
 - Chart
 - Group By
- Flashback
- Reset
- Help
- Download

State : MI, Year : 2014

Beach Id	Beach Name	County	No. of beach actions	No. of Days Under Action	No. of actions of 1 day duration	No. of actions of 2 day duration	No. of actions of 3 - 7 day duration	No. of actions of 8 - 30 day duration	No. of actions greater than 30 day duration
MI000348	Harrisville State Park	ALCONA	1	1	1	-	-	-	-
MI001551	Arenac County Park	ARENAC	1	7	-	-	1	-	-

D.2.1.4.1 Sort

This feature allows you to sort the report data by defining sort criteria for up to six columns. The Sort tool options include:

- **Column:** Use the drop-down menu to select a column to sort. Up to six columns can be selected (note: the column order determines sort priority).
- **Direction:** Choose whether to sort in ascending or descending order.
- **Null Sorting:** Specify how to handle NULLs (i.e., empty fields). The default setting displays NULLs last. The selected sorting displays to the right of column headings in the report.

D.2.1.4.2 Control Break

Used to create a break group on one or several columns. This pulls the columns out of the interactive report and displays them as separate sections.

D.2.1.4.3 Highlight

Enables you to define a filter to highlight records and values in the report. The rows (or cells) that meet the filter criteria display as highlighted using the characteristics associated with the filter. Options include:

- **Name** is used only for display (the name will appear in the filters list after creating a filter).
- **Sequence** identifies the sequence in which the rules are evaluated.
- **Enabled** identifies if a 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.

Exhibit 26 below shows an example report with a highlight filter applied. Here, beaches with a Beach Length less than one mile are highlighted blue.

Exhibit 26. Example Report with Applied Highlight.

Reported in 'Y, N'

Status in 'Active, Advisory, Closure'

State

Year

less than one mile

State : FL, Year : 2008

County	Beach ID	Beach Name	Beach Ownership/ Beach Accessibility	Beach Length (Mi)	Beach Tier	Start Latitude	Start Longitude	E
BROWARD	FL557837	BAHIA MAR	Public/Public	1.384	1	26.25035158	-80.08457787	2
BROWARD	FL132276	BIRCH STATE PARK	Public/Public	1.849	1	26.25035158	-80.08457787	2
BROWARD	FL541601	COMMERCIAL BLVD	Public/Public	1.637	1	26.25035158	-80.08457787	2
BROWARD	FL604188	CUSTER STREET	Public/Public	1.42	1	26.0587962	-80.1109056	2
BROWARD	FL467332	DANIA BEACH	Public/Public	.955	1	26.0587962	-80.1109056	2
BROWARD	FL968060	DEERFIELD BEACH PIER	Public/Public	.992	1	26.3211648	-80.07489091	2
BROWARD	FL154380	DEERFIELD BEACH SE 10TH STREET	Public/Public	3.437	1	26.31657828	-80.07486749	2
BROWARD	FL738221	GEORGE ENGLISH PARK	Public/Public	.226	1	26.13738532	-80.11799362	2
BROWARD	FL287753	HALLANDALE	Public/Public	1.058	1	25.98986829	-80.11747902	2

Note: Click on the filter name in the filter list to change the filter settings.

D.2.1.4.4 Compute

Enables you to add computed columns to your report (see Exhibit 27 below). These can be mathematical computations (for example, `NBR_HOURS / 24`) or standard Oracle functions applied to existing columns. Some display as examples and others (such as `TO_DATE`) can also be used).

Options include:

- **Computation** drop-down menu enables 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 (for example, `S9999`).
- **Computation** text box is the computation to be performed. Within the computation, columns are referenced using the aliases displayed.

Below the **Computation** text box are the **Columns** (lists the columns in your query with their associated alias), **Keypad**, and **Functions** menus. Clicking any item in these menus will add the item to the Computation.

The options in the **Functions** menu are explained with greater detail in [About SQL Functions section of the Oracle Database SQL Language Reference guide](#)

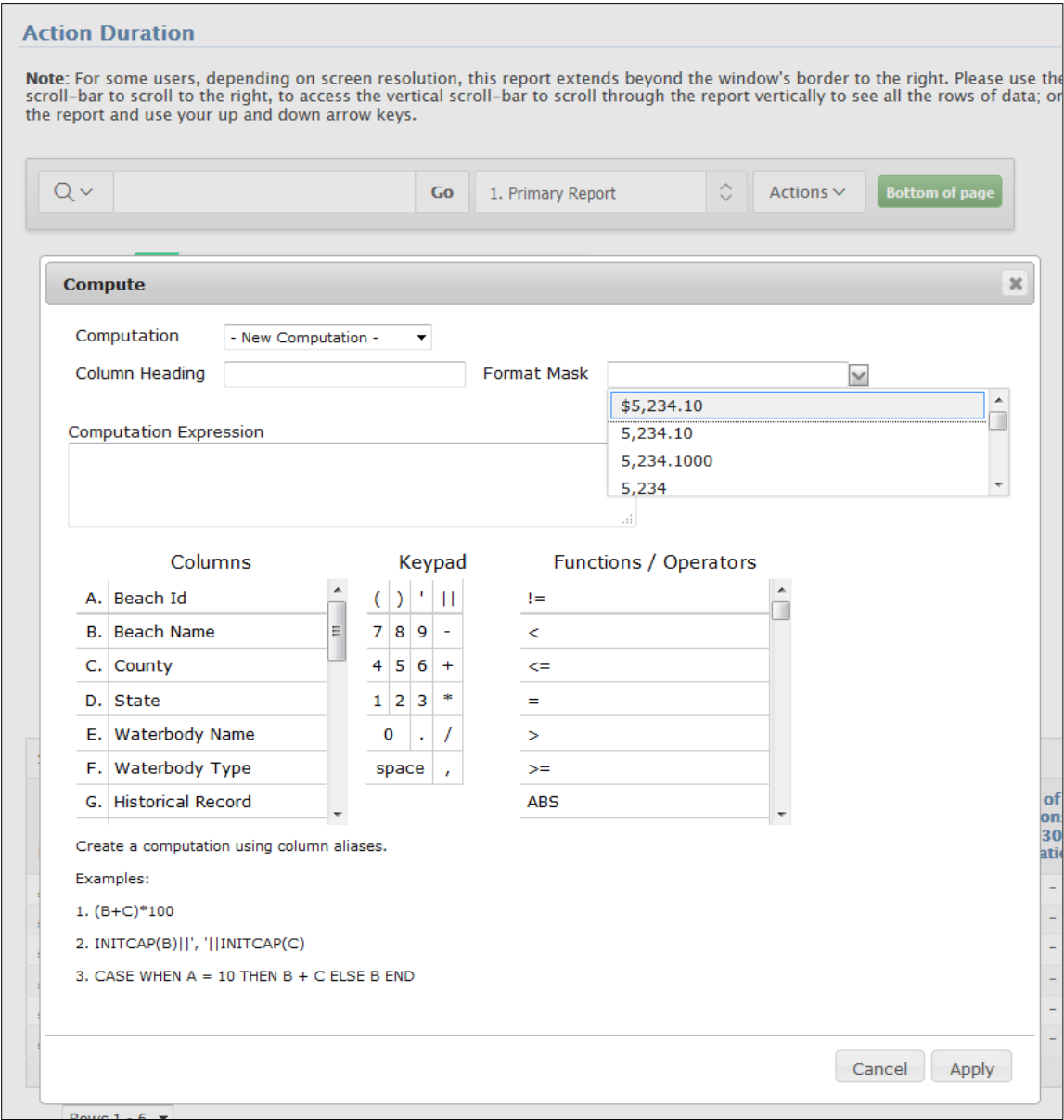
(http://docs.oracle.com/cd/B28359_01/server.111/b28286/functions001.htm#i88893).

The following example computation demonstrates how to display the number of beach actions for a 1-day duration, plus the number of beach actions for a 2-day duration for each record:

`N + 0` (where N is 1-day duration, 0 is 2-day duration)

Exhibit 27 shows an example with a new column heading entry and format mask selection.

Exhibit 27. Actions Menu > Format > Compute.



Note: Click on the filter name in the filter list to change the filter settings.

D.2.1.4.5 Aggregate

Aggregates are mathematical computations performed against a column. Aggregates display after each control break and at the end of the report within the column they are defined.

Options include:

- **Aggregation** enables you to select a previously defined aggregation to edit.
- **Function** is the function to be performed (for example, SUM, MIN).

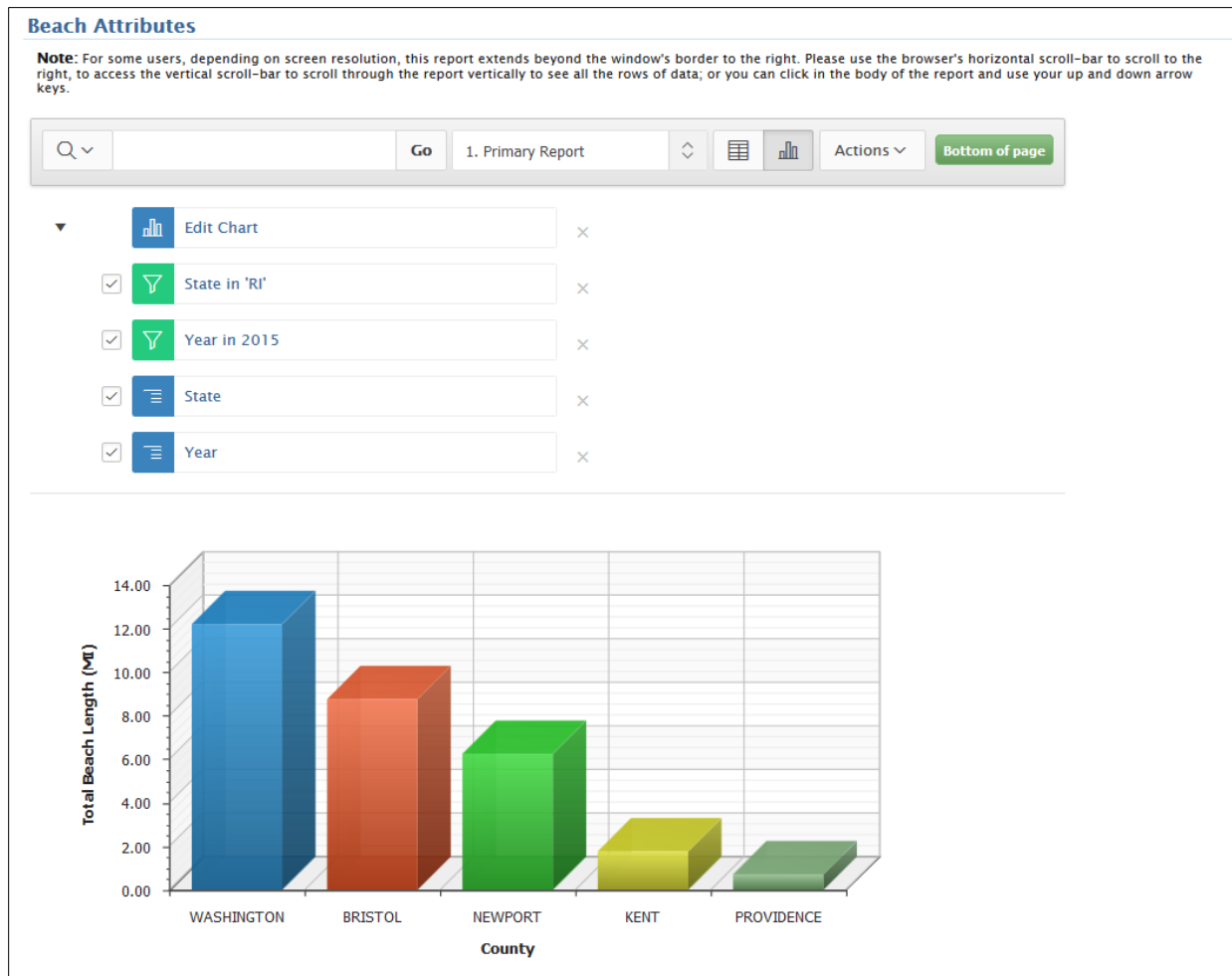
- **Column** is used to select the column to apply the mathematical function to. Only numeric columns are displayed.

D.2.1.4.6 Chart

You can define one chart per saved report. Once a chart is defined, you can switch between the chart and report views using links below the Search bar. Options include:

- **Chart Type** identifies the chart type to include. Select from horizontal bar, vertical bar, pie, or line.
- **Label** enables you to select the column to be used as the label.
- **Axis Title for Label** is the title that displays on the axis associated with the column selected for Label. This is not available for pie chart.
- **Value** enables 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 displays 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.
- **Sort** allows you to sort your result set.

Exhibit 28 below shows an example chart.

Exhibit 28. Actions Menu > Chart.**D.2.1.4.7 Group By**

You can define one Group By report per saved report. Once a Group By is defined, you can switch between the Group By and report views using links below the Search bar. To create a Group By report, select:

- the columns on which to group (up to 3 columns can be selected),
- the columns to aggregate along with the function to be performed (average, sum, count, etc.), and
- the columns to use for sorting (up to 3 columns can be selected along with direction and null sorting options).

D.2.1.5 FLASHBACK

A flashback query enables you to view the report data structure as it existed at a previous point in time. The default amount of time that you can flashback is 3 hours (or 180 minutes) but the actual amount will differ for each database.

D.2.1.6 RESET

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

D.2.1.7 DOWNLOAD

Enables the current result set to be downloaded. The download formats differ depending upon your installation and report definition but include comma-separated values (CSV), Hypertext Markup Language (HTML), or Email. It is recommended that when printing wide BEACON 2.0 reports to download the report in CSV to XLS and format the data to fit on one page before printing. You may also want to save a screen shot of your report settings and structure to aid in reproducing the report in the future.

D.2.2 Column Heading Menu

Clicking on any column heading exposes a column heading menu. Options include:

- **Sort Ascending** icon (up arrow) sorts the report by the column in ascending order.
- **Sort Descending** icon (down arrow) sorts the report by the column in descending order.
- **Hide Column** icon (red x box) hides the column. Not all columns can be hidden. If a column cannot be hidden, there will be no Hide Column icon.
- **Break Column** creates a break group on the column. This pulls the column out of the report as a master record. The master record is displayed at the top of the break group. For example, the default master record in the Tier 1 Stats report is the state and year values.
- **Column Information** displays help text about the column, if available.
- **Text Area** is used to enter case insensitive search criteria (no need for wild cards). Entering a value reduces the list of values at the bottom of the menu. You can then select a value from the bottom and the selected value will be created as a filter using '=' (for example, `column = 'ABC'`). Alternatively, you can click the Flashlight icon and enter a value to be created as a filter with the 'LIKE' modifier (for example, `column LIKE '%ABC%'`).
- **List of Unique Values** contains the first 500 unique values that meet your filter criteria. If the column contains dates, a list of date ranges is displayed instead. If you select a value, a filter will be created using '=' (for example, `column = 'ABC'`).

D.2.2.1 REPORT SETTINGS

If you customize an interactive report, the report settings display below the Search bar and above the report. This area can be collapsed and expanded using the icon on the left.

This section describes how to change the filters (or, selections) defined in Steps 1 and 2 from the report screen. For example, if a user originally decided (in Step 2) to include only publically accessible beaches, the user can make a change from the report screen by clicking the red X to delete the filter or the check mark next to the "Beach Access in 'Public'" filter to turn off filter and return both public and private access beaches data.

Note: Some reports may take a few minutes to load based on changes made to report filters.

For each report setting, you can:

- Edit a setting by clicking the name.
- Disable/Enable a setting by unchecking or checking the Enable/Disable check box. Use this control to temporarily turn a setting off and on.
- Remove a setting by clicking the Remove icon.
- If you have created a chart or group by, you can toggle between them and the base report using the Report View, Chart View, and Group By View links shown on the right. If you are viewing the chart or group by, you can also use the Edit link to edit the settings.

E. RSS FEEDS

BEACON 2.0 also features a Really Simple Syndication (RSS) feed generator that allows you to receive BEACON data via an RSS feed. RSS feeds can be created in two ways:

E.1 Creating an RSS Feed using the RSS link on the Reports page.

To use this method, select any filter criteria as described in Section C – How to use the BEACON 2.0 Reports Wizard. Then, from the Report Selection tab, click on "RSS Feed." You can save the RSS generated link and/or add the feed to an RSS reader. The feed will provide updates of the latest advisory and monitoring data reported to EPA for the selected beach(es) and search criteria.

E.2 Creating an RSS Feed using the RSS Generator

This tool can be accessed by clicking the "RSS Generator" tab. The tool operates in the same manner as described in Section C.1.3—Select by State/Tribe/Territory, County, and/or Beach. You can save the RSS generated link and/or add the feed to an RSS reader. The feed will provide updates of the latest advisory and monitoring data reported to EPA for the selected beach(es) and search criteria.

Exhibit 29. RSS Generator.

RSS Generator

[About Beacon](#) [Find a Beach](#) [Reports](#) [RSS Generator](#)

The BEACON 2.0 RSS Generator provides you with the ability to generate an RSS feed for an area of interest. Select the state, county, then move any beaches to the list to the far right using the arrows. Beaches from any state and county can be added to this list. The double arrows will move all of the records in the box to or from depending on which direction is selected. The single arrows will move the currently selected record to or from the box. Select the Generate RSS feed button to create the links.

In order to view an RSS feed, you must have an RSS feed reader installed. Some browsers may come standard with feed readers but other browsers may require a separate download. [More information about news feeds \(also called "RSS"\) from USA.gov.](#)

Note: You can view RSS feeds from the Reports tab in Step 3 of the wizard to take advantage of a report configuration.

State	County	Beaches
Alabama		
Alaska		
American Samoa		
California		
Connecticut		
Delaware		
Florida		
Georgia		
Grand Portage		
Guam		
Hawaii		
Illinois		
Indiana		
Louisiana		
Maine		
Makah		
Maryland		
Massachusetts		
Michigan		
Minnesota		

[Generate RSS Feed](#)

Note: In order to view an RSS feed, an RSS reader must be installed on the computer. For more information about RSS, see [USA.gov's "What is RSS?" page](#).

F. THE NATIONAL LIST OF BEACHES

This section describes the layout and components of the [National List of Beaches web pages](#).

F.1 What is the National List of Beaches?

EPA has published a list of coastal recreation waters adjacent to beaches (or similar points of access) used by the public in the U.S. The list, required by the [Beaches Environmental Assessment and Coastal Health Act \(BEACH Act\)](#), identifies waters that are subject to a state beach water quality monitoring and public notification program consistent with the National Beach Guidance and Required Performance Criteria for [BEACH Act Grants](#).

EPA published the National List of Beaches every two years between 2004 and 2010, as a static PDF file. Starting with the 2011 swimming season, the list is available in a dynamic format (the [National List of Beaches: Interactive Version](#)) that links to [EPA's Beach Advisory and Closing On-line Notification \(BEACON\)](#) system where further details about each beach can also be found. The list contains the most recent information reported to EPA by coastal and Great Lakes states, territories, and eligible tribes.

The list provides a national baseline of the extent of state, territorial and tribal beach monitoring across the country. It helps EPA measure improvements in monitoring and notification at all coastal and Great Lakes beaches and determine how to better implement the BEACH Act.

F.2 How did EPA get this information?

States, territories and tribes provide to EPA monitoring and notification data for each swimming season no later than January 31 of the following year. Many jurisdictions report data more frequently. EPA updates the List of Beaches as we receive new information.

F.3 How do I find more information about beaches in my state?

Contact the state or local beach program manager using the contact information at: <https://www.epa.gov/beaches/state-and-local-beach-programs>.

For more information on the BEACH Act and the EPA Beach Program, visit our website at: <https://www.epa.gov/beaches>.

F.4 Viewing National List of Beaches Reports

This section describes the [National List of Beaches: Interactive Version](#). As shown in Exhibit 30 below, the main page shows the Number of BEACH Act Beaches Reported national and jurisdiction totals (Note

- the counts also includes private beaches). This “current” list shows the most recent information reported to EPA by the states, tribes and territories that are subject to the BEACH Act.

Exhibit 30. National List of Beaches Interactive Version Default View.

BEACON - Beach Advisory and Closing On-line Notification

Number of BEACH Act Beaches Reported

Current list of beaches ▾

Total Jurisdictions	Total Beaches	Monitored	Not Monitored	Beach Length (Mi)
39	6247	3580	2667	6050.18

Totals

Jurisdiction	Total Beaches	Monitored	Not Monitored	Beach Length
ALABAMA*	25	25	0	11.15
ALASKA*	4	4	0	1.99
CALIFORNIA*	424	424	0	765.23
CONNECTICUT	74	71	3	15.53
DELAWARE*	15	15	0	17.26
FLORIDA*	566	258	308	1143.09
GEORGIA*	42	28	14	122.45
HAWAII*	409	126	283	303.1
ILLINOIS*	60	51	9	17.69
INDIANA*	26	25	1	24.45
LOUISIANA	30	24	6	25.31
MAINE*	67	60	7	31.02
MARYLAND*	70	70	0	20.13
MASSACHUSETTS*	568	564	4	177.26
MICHIGAN*	570	230	340	460.57

F.4.1 Number of BEACH Act Beaches Reported

To access a National List of Beaches report, select "Current list of beaches" (this is the default selection) or select an historic swimming season from the drop-down menu. Reports for the [2004](#), [2008](#) and [2010](#) swimming seasons are static PDF files. Starting with the 2011 swimming season, the reports are dynamically created. The “current” list shows the most recent information reported to EPA by the states, tribes and territories that are subject to the BEACH Act.

F.4.2 Select a State, Tribe or Territory

To view details for a state, tribe, or territory, click the name of the desired jurisdiction. The jurisdiction reports (described further in the next section) provide the list of beaches for the selected jurisdiction. Data for States marked with an asterisk is undergoing final state approval and are subject to change.

F.5 Jurisdiction Reports

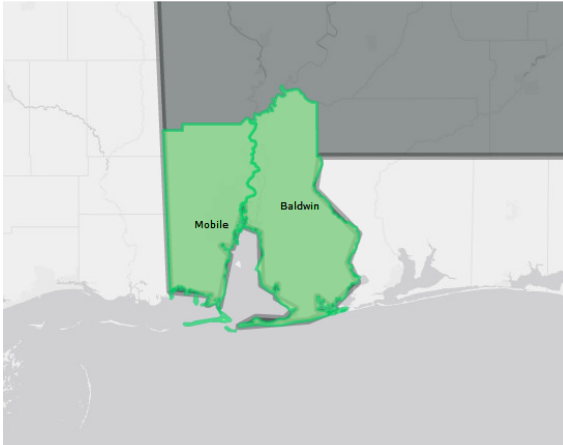
The jurisdiction reports provide a state map that shows counties with BEACH Act beaches, summary data, and the list of beaches for the selected jurisdiction (see Exhibit 31).

Exhibit 31. National List of Beaches -- County Level.

BEACON – Beach Advisory and Closing On–line Notification [Contact Us](#) [Share](#)

You are here: [EPA Home](#) » [Beaches](#) » [National List of Beaches](#) » [National List of Beaches: Interactive Version](#) » [Number of BEACH Act Beaches Reported – By Jurisdiction](#)

Alabama



Number of BEACH Act Beaches Reported

County ↑	Total Count	Monitored Count	Not Monitored Count	Beach Length (Mi)
Baldwin	21	21	0	8.65
Mobile	4	4	0	2.5
Report Totals:	25	25	0	11.15

Only coastal beaches are included on these lists.

For more information contact:

1 - 1

Contact Name	Contact Email	Contact Phone	Agency Name	Agency URL
Suzi Rice	srice@adem.state.al.us	251-450-3400	Department of Environmental Management	Website

1 - 1

Disclaimer
Data for this state is undergoing final state approval and are subject to change.

List of Beaches

Go Actions v

State Code x

County x

State Code : AL, County : Baldwin

Beach Name	Monitored	Not Monitored	Tier Rank	Comments	Beach Length (Mi)
ALABAMA POINT (GULF OF MEXICO)	Yes	-	2	-	1
BEAR POINT CIVIC ASSOCIATION	Yes	-	3	-	.1
BON SECOUR NATIONAL WILDLIFE REFUGE	Yes	-	3	-	1
CAMP BECKWITH	Yes	-	1	-	.25
CAMP DIXIE	Yes	-	1	-	.25
COTTON BAYOU	Yes	-	1	-	.2
ESCAMBIA AVENUE	Yes	-	3	-	.01
FAIRHOPE PUBLIC BEACH	Yes	-	1	-	.25

Note: Clicking on the hyperlinked counties will take you to that county section in the List of Beaches report.

Each list is primarily organized by county. For some territories and Hawaii, the beaches are listed by island. Alaska's beaches are reported by community. Tribal beaches are listed by name. Beach names are listed with their monitoring status for the selected swimming season. We include only coastal and Great Lakes beaches in these lists. The lists do not include beaches on inland waters because they are not subject to the BEACH Act.

Clicking a beach name in a jurisdiction report will guide you to a map view of the selected beach. That view shows the extent of the beach, provides the most recent advisory or closure status and water quality monitoring data that the state has reported, and links to the state's website for the most up-to-date information. Those beach views, a national map of BEACH Act jurisdictions and 12 standard reports with information about water quality monitoring events and results, advisory and closure durations, and pollution sources are available in [BEACON](#).

F.5.1 State Map

Counties with available beach data are colored green. The map can be used to filter the List of Beaches section; to view data for a specific county, click the county on the map. To change the report to show all counties remove the county filter, click on the red 'X' next to the county name, which will appear underneath the map in the List of Beaches section.

F.5.2 Number of BEACH Act Beaches Reported

This table provides summary data for the jurisdiction. The Monitored Count figures are for beaches that are monitored regularly. The Unmonitored Count figures are for beaches that are not regularly monitored.

F.5.3 Contact Information

This section provides contact information for the jurisdiction's contact person(s) from whom you can obtain more information.

F.5.4 List of Beaches

The List of Beaches section provides beach data by county (counties are listed in alphabetical order), The report contains four columns: Beach Name, Monitored, Not Monitored and Tier Rank. The totals for each column are reflected in the row titled "Count" at the bottom of each county.

F.5.4.1 USING THE REPORT QUERY TOOLBAR

Please refer to Section D. About BEACON 2.0 Reports for more information on the report elements and query toolbar.

F.5.4.2 BEACH NAME LINKS

Clicking a beach name in a jurisdiction report will guide you to a map view of the selected beach. This page shows the extent of the beach, provides the most recent advisory status and water quality monitoring data that the state has reported, and links to the state's website for the most up-to-date information. Those beach views, a national map of BEACH Act jurisdictions and 12 standard reports are available in [BEACON \(Beach Advisory and Closing On-line Notification\) 2.0](#).

G. KNOWN ISSUES

G.1 Bing-related Search Issues

The Zoom to State feature may return unexpected results. For example, when "California" is entered in the **Go To** text field and the map zooms to California, Maryland, entering "CA" instead would return the state California. Typing "Washington" results in the map zooming to Washington, DC. Typing "New York" into the **Go To** text field and the map zooms to New York, NY (not the centroid of the state).

The Zoom to a Beach sometimes shows a different beach name that comes from Bing basemap service. The beach name that pops up during mouse over the colored line segments on the map is the beach name coming from Beacon.

There is potential for other similar issues as well. These issues are inherent with the Bing mapping service and are not BEACON 2.0 errors.

G.2 Delays in layer visibility

Map elements may take time to load and, therefore, may not be immediately viewable when first opening the map or upon zooming or panning.

G.3 Layers disappear after subsequent pan or zoom.

This happens because the layer is shown outside of its pre-set visibility scale. Every data layer (e.g., states, counties, tribes, beaches, and STORET monitoring locations) has a set scale level that determines layer visibility. This is done for performance reasons, and to show the more detailed data layers as you move from a national view.

When zooming to these features using either the **Go To** search tool or the Zoom button in the pop-up window on a feature, the feature's data layer will become visible automatically. The logic for when the data layers are shown using their set scale level is only overridden during this initial zoom from the pop-up window or from the search tool. When subsequently using the normal navigation functions of pan, zoom in, zoom out, forward, back, and U.S. View, the data layers turn on and off at their set visibility scale levels.

As an example, if you are at the U.S. View and you click on the state of California, zooming to the state from the pop-up window will zoom to a view that shows all the counties in California with active beaches. In this case, because these counties span the length of California, the view is zoomed out farther than the preset scale at which county symbology is visible. Once you navigate using a pan or any other navigation, the normal visibility scales take over.

G.4 Beach features not visible when using Zoom to County.

The size of beach features varies, and some features can be very small. In counties with multiple beaches, the zoom is determined by the bounding box of all the features in that county boundary. If the beaches are spread out, the bounding box that contains these features is large and therefore the scale will be more zoomed out to be able to fit all the features in the map view. If there are very small features, they might not be viewable at the county extent.

G.5 Beach features are difficult to identify

If the Imagery basemap is turned on, the green colored beach segments may blend into the background images. Zooming in closer will make the beaches more apparent on the map. Also, beach segments might be more visible if the Streets basemap is turned on instead.

G.6 Too many filter values selected for reports

If too many filters are applied, the application will return an error message indicating that fewer selections should be made.

G.7 Removing selections from the Selected Beaches box

Removing single beaches. The single left arrow will remove the specific item you have added and any of the additional data pertaining to this item unless there is another item present that applies to the additional data. For example, if remove a single beach using the single arrow, the state, county, and beach name will be removed. In the below example, removing "Keller Beach" will also remove "Contra Costa" and "California". However, if two beaches in Contra Costa had been selected, and you then removed only one of the beaches, "Contra Costa" and "California" would remain.

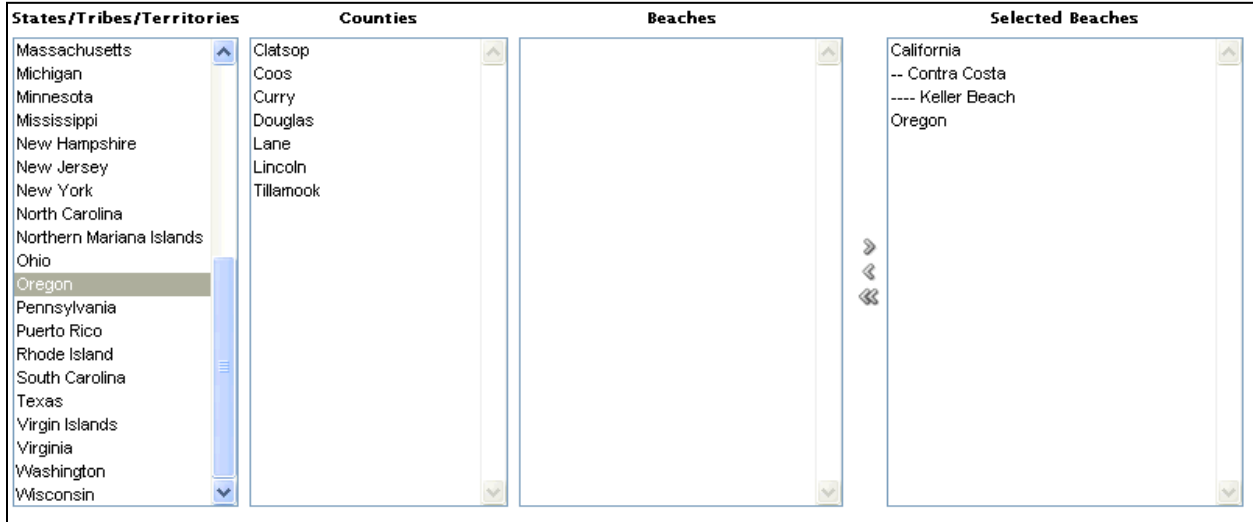
Removing groups. Groups of beaches (e.g., a state or county) can be removed using the single arrow, but note that this only applies if the group was added using an add group procedure. In the example below, "Oregon" was added as group; thus, all beaches in Oregon would be included in the report. Removing "Oregon" from the Selected Beaches box using the single arrow will remove this group. Note that "Contra Costa" and "California" have no bearing on data grouping and are only shown to help the user identify the selected beach(es) within the Selected Beaches box.

G.8 Reselecting values from Step 2 filters

When after running reports a user comes back to change filter values from under Step 2 - Additional filtering, but doesn't change anything under Step 1 Location Filter, the values selected before under Step

1 will be lost. The work around is to change selections under Step 2 but also click on Step 1 tab even though the user doesn't have anything to change and then re-run the reports.

Exhibit 32. Example Select by State/Tribe/Territory, County, and/or Beach tool.



G.9 Loading icon issue with Water Quality report

A larger loading icon has been implemented for all BEACON 2.0 reports and this has caused a minor bug when running the Water Quality report in certain browser versions. When manually changing the report filter settings or using pagination to view page results greater than fifty, the loading icon stays on the page.

If this occurs, it is recommended to try using a different browser when accessing the BEACON 2.0 reports for a better user experience. If trying a different browser is not a viable option, executing a page refresh will remove the loading icon from the page. To refresh the web page, press the F5 key or click the refresh icon (in Internet Explorer, the refresh icon is located to the right of the URL address in the top toolbar).

G.10 Data found exceeds maximum row limit with Water Quality report

For the Water Quality report, if the search returns more than 50,000 results, an error message is shown to filter data more to ensure complete results.

G.11 Linking directly to BEACON reports

Advanced users may wish to link directly to BEACON reports that include desired filters. This can be accomplished by configuring a custom URL. Below is an example.

Custom URLs for BEACON APEX Reports –Example for Water Quality Report

This example will produce a URL that links to a filtered Water Quality report. A jurisdiction can, for example, embed the link in their webpage to display the real-time Water Quality report from BEACON. Other links to reports can also be constructed (see link to Oracle guidance at end of example).

Example URL:

https://ofmpub.epa.gov/apex/beamon2/f?p=BEACON2:38:0:::RIR:IRIN_STATE_CODE,IRIN_YEAR,IRIN_STATUS:MD,2013,\Active,Advisory,Closure

Note: Paste the URL into a browser instead of opening from this document.

Explanation of URL construction:

The URL has been marked with colored highlight, which corresponds to details below.

https://ofmpub.epa.gov/apex/beamon2/f?p=BEACON2:38:0:::RIR:IRIN_STATE_CODE,IRIN_YEAR,IRIN_STATUS:MD,2013,\Active,Advisory,Closure

- <https://ofmpub.epa.gov/apex/beamon2/f?p=BEACON2> – Consider this portion standard.
- [:38](#) - The 38 represents the page number for the **Water Quality** report. You can see the page numbers for the other reports by looking at their URLs.
- [:0:::RIR:](#) - This portion will remain the same for most cases.
- The next part lists all the desired filter **fields**, separated by commas, and then the **filter values**, separated by commas. The order of the values should correspond to the order of the fields. The list of fields and list of values are separated by a colon.
 - *How to list the fields:* [IRIN_STATE_CODE,IRIN_YEAR,IRIN_STATUS](#)

The “IR” part is standard. The <operator> used is "IN", which is used to specify multiple values. For simplicity, use this even when specifying only one value. Then, after the underscore, put the column name (note that an underscore should replace any spaces in a column name, and there is no space after the comma between column names).

- *How to list the values:* [MD,2013,\Active, Advisory, Closure](#)

The example specifies multiple values for the Status field; to do so in the URL, place "\" slashes before and after the values to group them.

Reference:

Advanced Interactive Reporting: <http://www.oracle.com/technetwork/issue-archive/2010/10-mar/o20browser-098978.html>.

G.12 Report header freeze functionality not available

Due to a change in the Apex software, the previous option to freeze headers of a report is now limited to reports without row groupings. Until we can create alternative reports you can either use a simpler query or keep the user guide headers page open (paper or split screen) for reference.

H. DEFINITIONS

The following definitions are also displayed on the State Summary BEACON 2.0 report:

BEACH Act Beaches: BEACH Act refers to the Beaches Environmental Assessment, Closure, and Health Act of 2000 which focuses on coastal recreational waters. States/territories provide EPA with a list of their coastal recreational beaches

Monitored beaches: Beaches that have a reporting frequency greater than zero or has monitoring results in WQX/STORET.

Tier 1 beaches: States and territories designate their significant public beaches as Tier 1 beaches (requirement of BEACH Act grant program). These are the beaches that have the highest risk.

Beach actions: Beach-specific advisories or closings issued by the reporting state or local governments. An action is recorded for a beach even if only a portion of the beach is affected.

Action duration: Action duration is based on the times an action begins and ends. One "day" is defined as: an action lasting less than 24 hours will have a duration of 1 day. Any action lasting 24 hours or more will have a duration equal to the number of days on which the action occurred. For example, an action that lasts 26 hours is recorded as a two-day action.

Swim season: States indicate to EPA the period of time they consider to be the swim (or recreational) season for each beach.

Beach days: The number of days in the swim season.

The following definitions are also displayed on the Possible Pollution Sources and Beach Actions (Advisories and Closures) BEACON 2.0 reports:

RUNOFF: Non-storm related, dryweather runoff.

STORM: Storm related, wet-weather runoff.

AGRICULTURAL: Agricultural runoff.

ALGAE: Algae Sources.

BOAT: Boat discharge.

CAFO: Concentrated animal feeding operation.

CSO: Combined sewer overflow.

SSO: Sanitary sewer overflow.

POTW: Publicly-owned treatment works.

SEWER LINE: Sewer line leak, blockage, or break.

SEPTIC: Septic system leakage.

WILDLIFE: Wildlife pollution.

OTHER: Other source known but not listed above.

UNKNOWN: Source exists but unidentified.

E.coli: The name of a microbiological indicator used in freshwater quality sampling to indicate possible fecal contamination.

PreEmpt: An abbreviation of “preemptory action” (advisory/closure) that some jurisdictions issue to inform the public of possible fecal contamination, issued based on past experience, prior to receiving from the laboratory a confirming water quality sample.


Elev_Bact (elevated bacteria – confirmed by a water quality sample).

ENTERO: ENTERO stands for enterococci (an indicator bacterium used in water quality sampling).

APPENDIX A – EXAMPLES OF BEACON 2.0 REPORTS

Note: Many of these reports were published for states from 1999 through 2012. Please see: Annual Swimming Season Statistics (1999-2012) [https://www.epa.gov/beach-tech/annual-swimming-season-statistics-1999-2012].)










Exhibit 33. Action Duration.

State : MI, Year : 2015										
Beach Id	Beach Name	County 	No. of beach actions	No. of Days Under Action	No. of actions less than 1 day duration	No. of actions of 1 day duration	No. of actions of 2 day duration	No. of actions of 3 – 7 day duration	No. of actions of 8 – 30 day duration	No. of actions greater than 30 day duration
MI000374	Henes Park	MENOMINEE	4	21	0	2	0	1	1	0
MI001272	Memorial Beach	MENOMINEE	1	1	0	1	0	0	0	0
MI000379	Sterling State Park	MONROE	1	2	0	0	1	0	0	0
MI331336	Rogers Park–MDOT	SCHOOLCRAFT	1	1	0	1	0	0	0	0
MI000373	Chrysler Park Beach	ST. CLAIR	3	4	0	2	1	0	0	0
MI000409	Conger–Lighthouse Beach	ST. CLAIR	3	4	0	2	1	0	0	0
MI819055	Fort Gratiot County Park	ST. CLAIR	3	3	0	3	0	0	0	0
MI000408	Holland Road Beach	ST. CLAIR	4	4	0	4	0	0	0	0
MI001382	Keewadhin Road Beach	ST. CLAIR	2	2	0	2	0	0	0	0
MI000359	Lakeport State Campground	ST. CLAIR	1	1	0	1	0	0	0	0
MI000407	Lakeside Beach	ST. CLAIR	3	3	0	3	0	0	0	0
Count:61			102	327	0	66	17	11	7	1

< Rows 51 - 61 >

Navigation: The reports contain the ability to navigate to next or previous pages in the report using the arrow buttons. You can also go directly to a page containing a specific row range using the drop down box.

Exhibit 34. Beach Profile List.

State Code : MI, Year : 2014								
	Beach Id	Beach Name	County 	Beach Status	Beach Access	Beach Owner	Reported	Tier
	MI000293	Black River Public Access	ALCONA	Active	Public	Public	Y	3
	MI908114	Greenbush Township	ALCONA	Active	Public	Public	Y	3
	MI388337	Harrisville Public Access	ALCONA	Active	Public	Public	Y	3
	MI000348	Harrisville State Park	ALCONA	Active	Public	Public	Y	2
	MI589651	Negwegon State Park	ALCONA	Active	Public	Public	Y	3
	MI556458	Point Rd. Beach	ALCONA	Active	Public	Public	Y	3
	MI680454	Trask Lake Road Beach	ALCONA	Active	Public	Public	Y	3
	MI152478	Au Train Beach	ALGER	Active	Public	Public	Y	3

Note: Clicking on the magnifying glass shown in the above image will open the report shown in Exhibit 40.

Note: The exhibit below shows the default Beach Action (Advisories and Closures) report (one line per Action). If the Detailed Report is displayed, click the [Main Report](#) button to return to this report.

Exhibit 35. Beach Actions (Advisories and Closures) – 1 of 2.

State : AK, County : KENAI PENINSULA, Year : 2013, Beach Id : AK551272														
Beach Name	Beach Status	Reported	Station ID	Activity ID	Action Type	Action Start Date	Action End Date	Action Duration Days	Percentage of time beach was affected during open hours	Time affected (in hours)	Time beach is open (in hours)	Action Reasons	Action Indicator	Action Possible Source
North Kenai Beach	Active	Y	-	419516	Contamination Advisory	21-JUL-13	28-JUL-13	7	100	-	24	ELEV_BACT	ENTERO,FECAL_COL	UNKNOWN
North Kenai Beach	Active	Y	-	419515	Contamination Advisory	30-JUN-13	07-JUL-13	7	100	-	24	ELEV_BACT	FECAL_COL	UNKNOWN
Count:2								14						
State : AK, County : KENAI PENINSULA, Year : 2013, Beach Id : AK802097														
Beach Name	Beach Status	Reported	Station ID	Activity ID	Action Type	Action Start Date	Action End Date	Action Duration Days	Percentage of time beach was affected during open hours	Time affected (in hours)	Time beach is open (in hours)	Action Reasons	Action Indicator	Action Possible Source
South Kenai Beach	Active	Y	-	419521	Contamination Advisory	06-AUG-13	11-AUG-13	5	100	-	24	ELEV_BACT	FECAL_COL	UNKNOWN
South Kenai Beach	Active	Y	-	419520	Contamination Advisory	16-JUL-13	28-JUL-13	12	100	-	24	ELEV_BACT	ENTERO,FECAL_COL	UNKNOWN
South Kenai Beach	Active	Y	-	419519	Contamination Advisory	25-JUN-13	09-JUL-13	14	100	-	24	ELEV_BACT	FECAL_COL	UNKNOWN
South Kenai Beach	Active	Y	-	419522	Contamination Advisory	11-AUG-13	11-AUG-13	1	100	-	24	ELEV_BACT	ENTERO	UNKNOWN
Count:4								32						
State : OR, County : CLATSOP, Year : 2013, Beach Id : OR277842														
Beach Name	Beach Status	Reported	Station ID	Activity ID	Action Type	Action Start Date	Action End Date	Action Duration Days	Percentage of time beach was affected during open hours	Time affected (in hours)	Time beach is open (in hours)	Action Reasons	Action Indicator	Action Possible Source
Cannon Beach	Active	Y	-	391391	Contamination Advisory	27-JUN-13	28-JUN-13	1	100	-	-	ELEV_BACT	ENTERO	UNKNOWN
Cannon Beach	Active	Y	-	391392	Contamination Advisory	28-AUG-13	29-AUG-13	1	100	-	-	ELEV_BACT	ENTERO	UNKNOWN
Count:2								2						

Note: The exhibit below shows the Detailed version of the Beach Action (Advisories and Closures) report (multiple lines per Action if multiple sources were possible), shown by clicking the [Detailed Report](#) button on the default version (e.g. Main Report) of the Beach Action (Advisories and Closures) report.

Exhibit 36. Beach Actions (Advisories and Closures) – 2 of 2.

State : CA, County : ALAMEDA, Year : 2015, Beach Id : CA549911

Beach Name	Beach Status	Reported	Station ID	Action Code	Action Type	Action Start Date	Action End Date	Action Duration Days	Percentage of time beach was affected during open hours	Time affected (in hours)	Time beach is open (in hours)	Action Reasons	Action Reasons Comment	Action Indicator	Action Indicator Comment	Action Possible Source	Action Possible Source Comment
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Bath House	466585	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	ECOLI	E. coli	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Bath House	466585	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	FECAL_COL	Fecal Coliform	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Bath House	466585	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	ENTERO	Enterococci	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Bird Sanctuary	466586	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	RATIO	Total/Fecal Ratio	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Bird Sanctuary	466586	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	TOTAL_COL	Total Coliform	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Bird Sanctuary	466586	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	ECOLI	E. coli	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Bird Sanctuary	466586	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	FECAL_COL	Fecal Coliform	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Bird Sanctuary	466586	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	ENTERO	Enterococci	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Windsurfer Corner	466587	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	RATIO	Total/Fecal Ratio	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Windsurfer Corner	466587	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	TOTAL_COL	Total Coliform	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Windsurfer Corner	466587	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	ECOLI	E. coli	UNKNOWN	Unknown
Crown Beach (Alameda Co)	Active	Y	CABEACH_WQX\Crown Windsurfer Corner	466587	Contamination Advisory	15-OCT-15	16-OCT-15	1	100	-	24	ELEV_BACT	Monitoring that revealed elevated bacteria levels	FECAL_COL	Fecal Coliform	UNKNOWN	Unknown

Exhibit 37. Beach Attributes.

State : MI, Year : 2014									
Beach ID	Beach Name	County 	Beach Ownership/ Beach Accessibility	Beach Length (Mi)	Beach Tier	Start Latitude	Start Longitude	End Latitude	End Longitude
MI000409	Conger-Lighthouse Beach	ST. CLAIR	Public/Public	.621	1	43.012295	-82.424385	43.009998	-82.425385
MI819055	Fort Gratiot County Park	ST. CLAIR	Public/Public	.038	2	43.083569	-82.468758	43.081612	-82.467796
MI000408	Holland Road Beach	ST. CLAIR	Public/Public	.062	1	43.017895	-82.427216	43.02	-82.427559
MI000391	Jeddo Road Beach	ST. CLAIR	Public/Public	.124	2	43.155231	-82.498688	43.155167	-82.49868
MI001382	Keewadhin Road Beach	ST. CLAIR	Public/Public	.124	1	43.040318	-82.443802	43.040195	82.443748
MI001294	Krafft Road Beach	ST. CLAIR	Public/Public	.124	2	43.025841	-82.433022	43.029999	-82.433449
MI000359	Lakeport State Campground	ST. CLAIR	Public/Public	.932	2	43.119354	-82.490791	43.130001	-82.492767
MI000358	Lakeport State Park	ST. CLAIR	Public/Public	.357	2	43.104794	-82.486404	43.110001	-82.487083
MI000407	Lakeside Beach	ST. CLAIR	Public/Public	.497	1	43.018948	-82.428169	43.02	-82.430321
MI000369	Marine City Beach	ST. CLAIR	Public/Public	.124	2	42.723885	-82.496277	42.720001	-82.496407

Exhibit 38. Beach Days.


State : CT, Year : 2015						
Beach ID	Beach Name	County 	No. of Days Under Beach Action	Percent Days Under a Beach Action	No. of Days Not Under Beach Action	Percent Days Not Under a Beach Action
CT200292	BELL ISLAND BEACH	FAIRFIELD	2	1.9	103	98.1
CT730976	BURYING HILL BEACH	FAIRFIELD	0	0	105	100
CT872506	BYRAM BEACH	FAIRFIELD	6	5.71	99	94.29
CT003939	CALF PASTURE BEACH	FAIRFIELD	2	1.9	103	98.1
CT135112	COMPO BEACH	FAIRFIELD	0	0	105	100
CT728213	CUMMINGS BEACH	FAIRFIELD	6	5.71	99	94.29
CT085278	EAST (COVE ISLAND) BEACH	FAIRFIELD	6	5.71	99	94.29

Exhibit 39. Beach Monitoring Frequency.


State : AL, Year : 2015									
Beach ID	Beach Name	County 	Swim Season Length	Swim Season Length Units	Swim Season Monitoring Frequency	Swim Season Monitor Frequency Units	Off Season Monitoring Frequency	Off Season Monitor Frequency Units	Beach Length (Mi)
AL769933	ALABAMA POINT (GULF OF MEXICO)	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	1
AL656449	BEAR POINT CIVIC ASSOCIATION	BALDWIN	152	DAYS	2	PER_MONTH	1	PER_MONTH	.1
AL300816	BON SECOUR NATIONAL WILDLIFE REFUGE	BALDWIN	152	DAYS	2	PER_MONTH	1	PER_MONTH	1
AL854232	CAMP BECKWITH	BALDWIN	152	DAYS	8	PER_MONTH	1	PER_MONTH	.25
AL497694	CAMP DIXIE	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	.25
AL711135	COTTON BAYOU	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	.2
AL432101	ESCAMBIA AVENUE	BALDWIN	152	DAYS	2	PER_MONTH	1	PER_MONTH	.01
AL824748	FAIRHOPE PUBLIC BEACH	BALDWIN	152	DAYS	8	PER_MONTH	1	PER_MONTH	.25
AL548743	FLORIDA POINT	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	.75
AL069764	FORT MORGAN PUBLIC BEACH	BALDWIN	152	DAYS	2	PER_MONTH	1	PER_MONTH	1
AL368349	GULF SHORES PUBLIC BEACH	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	1
AL726329	GULF STATE PARK - PAVILION	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	1
AL261419	KEE AVENUE	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	.04
AL496284	LITTLE LAGOON PASS BEACH	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	1
AL112942	MARY ANN NELSON BEACH	BALDWIN	152	DAYS	2	PER_MONTH	1	PER_MONTH	.05
AL216753	MAY DAY PARK	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	.07
AL436981	ORANGE BEACH WATERFRONT PARK	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	.08
AL477431	ORANGE STREET PIER/BEACH	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	.31
AL304641	PIRATE'S COVE	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	.08
AL890020	SPANISH COVE	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	.06
AL819426	VOLANTA AVENUE	BALDWIN	152	DAYS	4	PER_MONTH	1	PER_MONTH	.15
AL150939	DAUPHIN ISLAND EAST END	MOBILE	152	DAYS	2	PER_MONTH	1	PER_MONTH	1
AL525441	DAUPHIN ISLAND PUBLIC BEACH	MOBILE	152	DAYS	2	PER_MONTH	1	PER_MONTH	1
AL574749	DOG RIVER, ALBA CLUB	MOBILE	152	DAYS	4	PER_MONTH	1	PER_MONTH	.25
AL197202	FOWL RIVER @ HW 193	MOBILE	152	DAYS	4	PER_MONTH	1	PER_MONTH	.25
Count:25									11.15


Exhibit 40. Beach Profile - Details.

BEACON – Beach Advisory and Closing On-line Notification

You are here: EPA Home > Beaches > BEACON 2.0 > Reports > Report

General

Beach ID: CT022992
 Beach Name: SHADY BEACH
 Beach Description: REGULATED MARINE BATHING AREA
 Beach Comment: no comment
 State: CT
 County: Fairfield
 Water Body Name: Long Island Sound
 Water Body Type: Sound, Bay, or Inlet
 Beach Ownership/Accessibility: Public/Public
 Access Comment: -
 Status: Active
 Effective Year: 2015
 Beach Act Beach: Yes
 Beach Tier: 1



Season and Monitoring Frequency

Swim Season Start Date: 25-MAY-15
 Swim Season End Date: 07-SEP-15
 Swim Season Length: 105 DAYS
 Swim Season Monitoring Frequency: 4 PER_MONTH
 Monitoring Reporting (to EPA) Frequency: 1 PER_YEAR
 Off Season Monitoring Frequency: 0 PER_MONTH
 Monitored Irregularly: No
 Monitored Irregularly Comments: -
 Station ID: -

WQS Criteria Names and Values

Indicator ↑	Water Type	Measura	Value	Units	Comments
ENTEROCOCCUS	MARINE	SSM	104	CFU/100ml	No Comments Submitted

1 - 1

Local Action Decision Procedures

Post closing at beach	
Post closing on Internet	
Provide closing information on phone hotline	
Publish closing in local newspaper	

row(s) 1 - 4 of 4

Advisories

Advisory Reporting (to EPA) Frequency: -
 Possible Pollution Sources Investigated?: Yes
 Possible Pollution Sources: Yes (If 'Yes', see the Possible Pollution Sources Report for details)

Location


Start Latitude: 41.08908
 Start Longitude: -73.39042
 End Latitude: 41.08636
 End Longitude: -73.39214
 Beach Length: .212 Mi
 Source Map Scale: -
 Horizontal Collection Method: GPS-Unspecified
 Horizontal Ref Datum Name: WGS84

Contact Information

Beach Website Address: -
 Beach Contact Name: Tom Closter
 Beach Contact Agency: Norwalk Health Department
 Beach Contact Phone: -
 Beach Contact Email: -

Note: You may find that some fields have a dash “-” (as shown above); this dash appears for data elements where no data has been submitted yet.

Exhibit 41. Possible Pollution Sources.


State : WI, Year : 2015																			
Beach Id	Beach Name	County 	Poll. Sources Investigated?	Poll. Sources Found?	Runoff	Storm	Agri-cultural	Algae	Boat	CAFO	CSO	SSO	Sewer Line	Septic	Wildlife	Other	Unknown	Tbd	
WI564320	University Beach	MANITOWOC	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI279226	YMCA Beach	MANITOWOC	No	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Activity SOURCE	-	
WI218531	Michaelis Park Beach	MARINETTE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI819664	Peshtigo Harbor Boat Launch Beach	MARINETTE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI936169	Red Arrow Marinette 1 Beach	MARINETTE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI111115	Red Arrow Marinette 2 Beach	MARINETTE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI997460	Red Arrow Marinette 3 Beach	MARINETTE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI607583	Atwater Park Beach	MILWAUKEE	No	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Activity SOURCE	-	
WI628125	Bay View Park Beach	MILWAUKEE	No	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Activity SOURCE	-	
WI977064	Bender Beach	MILWAUKEE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI247909	Big Bay Park Beach	MILWAUKEE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI312597	Bradford Beach	MILWAUKEE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI429764	Grant Park Beach	MILWAUKEE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI291459	Klode Park Beach	MILWAUKEE	No	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Activity SOURCE	-	
WI234408	McKinley Beach	MILWAUKEE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI265434	Sheridan Park Beach	MILWAUKEE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI333813	South Shore Beach	MILWAUKEE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI746946	Tietjen Beach / Doctor's Park	MILWAUKEE	No	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Activity SOURCE	-	
WI987935	Watercraft Beach	MILWAUKEE	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI455048	Oconto City Park	OCONTO	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	
WI679515	Cedar Beach Rd Beach	OZAUKEE	Yes	Yes	-	-	Yes	-	-	-	-	-	-	-	-	Yes	Activity SOURCE	-	
WI135037	Concordia University	OZAUKEE	Yes	Yes	-	Yes	-	-	-	-	-	-	-	-	-	Yes	Activity SOURCE	-	
WI467224	County Road D Boat Launch Beach	OZAUKEE	Yes	Yes	-	Yes	Yes	-	-	-	-	-	-	-	-	Yes	Activity SOURCE	-	

Note: You can now hover over the green "Yes" text and the comment will pop up.


Exhibit 42. Example RSS Feed.

BEACON News

You are viewing a feed that contains frequently updated content. When you subscribe to a feed, it is added to the Common Feed List. Updated information from the feed is automatically downloaded to your computer and can be viewed in Internet Explorer and other programs. [Learn more about feeds.](#)


 [Subscribe to this feed](#)

VA152245: LITTLE ISLAND BEACH SOUTH




Current Advisory Status: No advisory or closure
Query Date: 01/19/2012
Last Reported Advisory Date: None reported

VA197713: CHESAPEAKE BEACH



Current Advisory Status: No advisory or closure
Query Date: 01/19/2012
Last Reported Advisory Date: None reported

VA209936: LESNER BRIDGE EAST



Current Advisory Status: No advisory or closure
Query Date: 01/19/2012
Last Reported Advisory Date: None reported

Displaying 24 / 24

● All 24

Sort by:

▼ Date

Title

Exhibit 43. State Summary – 1 of 2.

State : VA, Year : 2013														
County	No. of BEACH Act Beaches	No. of Monitored Beaches	Percent of Total Beaches Monitored	Total Length of Monitored Beaches (Mi)	No. of Tier 1 Beaches	Percent of Tier 1 Beaches Monitored	No. of Monitored Beaches with Actions	No. of Monitored Beaches without Actions	Percent of Monitored Beaches Affected by a Beach Action	Total No. of Beach Actions	No. of Actions Less than 1 Day Duration	Percent of Actions Less than 1 Day Duration	No. of Actions of 1 Day Duration	Percent of Actions of 1 Day Duration
ACCOMACK	1	1	100	0	1	100	0	1	0	0	0	0	0	0
GLOUCESTER	1	1	100	0	1	100	0	1	0	0	0	0	0	0
HAMPTON	2	2	100	3	2	100	0	2	0	0	0	0	0	0
NEWPORT NEWS	4	4	100	1	4	100	4	0	100	9	0	0	7	77.78
NORFOLK	9	9	100	7	9	100	4	5	44.44	5	0	0	5	100
NORTHAMPTON	2	2	100	2	2	100	0	2	0	0	0	0	0	0
VIRGINIA BEACH	17	17	100	29	17	100	3	14	17.65	4	0	0	4	100
YORK	1	1	100	0	1	100	0	1	0	0	0	0	0	0
	37	37		42	37		11	26		18			16	

Note: The below exhibit shows the columns you would see when scrolling to the right for this report.

Exhibit 44. State Summary – 2 of 2.

No. of Actions of 2 Day Duration	Percent of Actions of 2 Day Duration	No. of Actions of 3 – 7 Day Duration	Percent of Actions of 3 – 7 Day Duration	No. of Actions of 8 – 30 Day Duration	Percent of Actions of 8 – 30 Day Duration	No. of Actions Greater than 30 Day Duration	Percent of Actions Greater than 30 Day Duration	No. of Beach Days (Monitored Beaches)	No. of Days Under a Beach Action (Monitored Beaches)	Percent Days Under a Beach Action (Monitored Beaches)	No. of Days Not Under a Beach Action (Monitored Beaches)	Percent Days Not Under a Beach Action (Monitored Beaches)
0	0	0	0	0	0	0	0	150	0	0	150	100
0	0	0	0	0	0	0	0	150	0	0	150	100
0	0	0	0	0	0	0	0	300	0	0	300	100
1	11.11	1	11.11	0	0	0	0	600	16	2.67	584	97.33
0	0	0	0	0	0	0	0	1350	5	.37	1345	99.63
0	0	0	0	0	0	0	0	300	0	0	300	100
0	0	0	0	0	0	0	0	2550	4	.16	2546	99.84
0	0	0	0	0	0	0	0	150	0	0	150	100
1		1		0		0		5550	25		5525	

Exhibit 45. State Summary – Alternate Report (National Percentage) – 1 or 2.

State	No. of BEACH ACT Beaches	No. of Monitored Beaches	Percent of Beaches Monitored	Total Length of Monitored Beaches (Mi)	No. of Tier 1 Beaches	Percent of Tier 1 Beaches Monitored	No. of Monitored Beaches with Actions	No. of Monitored Beaches without Actions	Percent of Monitored Beaches Affected by a Beach Action	Total No. of Beach Actions	No. of Actions Less than 1 Day Duration	Percent of Actions Less than 1 Day Duration	No. of Actions of 1 Day Duration
Year: 2015													
AK	4	4	100	2	4	100	1	3	25	1	0	0	0
AL	25	25	100	11	8	100	6	19	24	16	0	0	8
AS	48	48	100	7	17	100	42	6	87.5	701	0	0	1
BR	2	2	100	5	0	0	1	1	50	4	0	0	0
CA	251	251	100	0	251	100	192	59	76.49	3777	0	0	395
CN	2	2	100	200	2	100	1	1	50	1	0	0	1
CT	74	71	95.95	15	57	100	30	41	42.25	108	0	0	82
DE	15	15	100	17	4	100	0	15	0	0	0	0	0
FL	549	253	46.08	620	549	46.08	48	205	18.97	133	0	0	3
GA	42	28	66.67	37	18	100	15	13	53.57	26	0	0	0
GP	12	12	100	17	9	100	5	7	41.67	250	0	0	100
GU	32	31	96.88	15	31	100	31	0	100	624	0	0	0
HI	409	126	30.81	89	48	100	126	0	100	941	0	0	11
IL	60	51	85	15	50	96	46	5	90.2	331	0	0	251
IN	26	25	96.15	24	5	100	24	1	96	4260	0	0	3330
LA	30	24	80	20	15	100	22	2	91.67	65	0	0	0
MA	453	452	99.78	155	8	100	67	385	14.82	228	0	0	125
MD	30	30	100	16	19	100	4	26	13.33	5	0	0	0
ME	67	60	89.55	29	57	100	37	23	61.67	117	0	0	32
MI	574	196	34.15	72	24	100	61	135	31.12	102	0	0	66
MK	12	5	41.67	70	5	100	1	4	20	12	0	0	0
MN	79	38	48.1	31	8	100	18	20	47.37	32	0	0	7
MP	71	71	100	4	71	100	51	20	71.83	206	0	0	0
MS	22	22	100	40	17	100	21	1	95.45	61	0	0	1
NC	240	240	100	358	124	100	18	222	7.5	28	0	0	15
NH	16	16	100	9	6	100	1	15	6.25	1	0	0	0
NJ	388	213	54.9	13	214	99.53	35	178	16.43	82	0	0	82
NY	356	349	98.03	103	95	94.74	145	204	41.55	793	0	0	199
OH	62	57	91.94	43	45	95.56	56	1	98.25	431	0	0	140
OR	92	29	31.52	30	92	31.52	3	26	10.34	4	0	0	1
PA	13	10	76.92	3	12	75	9	1	90	35	0	0	17
PR	37	37	100	20	37	100	34	3	91.89	135	0	0	0
RI	58	58	100	23	21	100	13	45	22.41	38	0	0	28
SC	21	21	100	91	8	100	4	17	19.05	5	0	0	1
TX	169	61	36.09	158	60	100	50	11	81.97	792	0	0	451
VA	46	46	100	50	46	100	3	43	6.52	18	0	0	11
VI	44	44	100	8	36	100	31	13	70.45	110	0	0	0
WA	1237	73	5.9	60	66	96.97	19	54	26.03	57	0	0	4
WI	186	107	57.53	38	25	100	72	35	67.29	560	0	0	438
Total	5854	3203	54.71%	2518	2164	36.97%	1343	1860	41.93%	15090	0	0%	5800

Exhibit 46. State Summary – Alternate Report (National Percentage) – 2 of 2.

Percent of Actions of 1 Day Duration	No. of Actions of 2 Day Duration	Percent of Actions of 2 Day Duration	No. of Actions of 3 – 7 Day Duration	Percent of Actions of 3 – 7 Day Duration	No. of Actions of 8 – 30 Day Duration	Percent of Actions of 8 – 30 Day Duration	No. of Actions Greater than 30 Day Duration	Percent of Actions Greater than 30 Day Duration	No. of Beach Days (Monitored Beaches)	No. of Days Under a Beach Action (Monitored Beaches)	Percent Days Under a Beach Action (Monitored Beaches)	No. of Days Not Under a Beach Action (Monitored Beaches)	Percent Days Not Under a Beach Action (Monitored Beaches)
0	0	0	1	100	0	0	0	0	159	7	4.4	152	95.6
50	0	0	8	50	0	0	0	0	3800	46	1.21	3754	98.79
.14	8	1.14	692	98.72	0	0	0	0	4272	4798	112.31	1434	33.57
0	0	0	4	100	0	0	0	0	1568	16	1.02	1552	98.98
10.46	502	13.29	2691	71.25	152	4.02	37	.98	83814	15996	19.09	69005	82.33
100	0	0	0	0	0	0	0	0	333	1	.3	332	99.7
75.93	20	18.52	6	5.56	0	0	0	0	7455	150	2.01	7305	97.99
0	0	0	0	0	0	0	0	0	1765	0	0	1765	100
2.26	6	4.51	64	48.12	58	43.61	2	1.5	80245	1293	1.61	78952	98.39
0	17	65.38	5	19.23	1	3.85	3	11.54	9180	1061	11.56	8124	88.5
40	40	16	110	44	0	0	0	0	12947	850	6.57	12097	93.43
0	7	1.12	562	90.06	55	8.81	0	0	11284	4305	38.15	6979	61.85
1.17	46	4.89	257	27.31	627	66.63	0	0	45864	2949	6.43	42915	93.57
75.83	45	13.6	34	10.27	1	.3	0	0	5329	482	9.04	4847	90.96
78.17	570	13.38	270	6.34	0	0	90	2.11	2426	14730	607.17	282	11.62
0	0	0	33	50.77	15	23.08	17	26.15	4392	1340	30.51	3052	69.49
54.82	47	20.61	43	18.86	12	5.26	1	.44	47460	581	1.22	46879	98.78
0	0	0	4	80	1	20	0	0	3150	47	1.49	3103	98.51
27.35	61	52.14	21	17.95	3	2.56	0	0	6300	248	3.94	6052	96.06
64.71	17	16.67	11	10.78	7	6.86	1	.98	17214	327	1.9	16887	98.1
0	0	0	12	100	0	0	0	0	19656	84	.43	19572	99.57
21.88	12	37.5	10	31.25	3	9.38	0	0	4826	131	2.71	4695	97.29
0	206	100	0	0	0	0	0	0	25848	412	1.59	25436	98.41
1.64	7	11.48	21	34.43	32	52.46	0	0	4686	670	14.3	4016	85.7
53.57	1	3.57	3	10.71	0	0	9	32.14	51350	421	.82	50929	99.18
0	1	100	0	0	0	0	0	0	1552	2	.13	1550	99.87
100	0	0	0	0	0	0	0	0	28545	80	.28	28465	99.72
25.09	497	62.67	76	9.58	20	2.52	1	.13	34713	1927	5.55	32787	94.45
32.48	81	18.79	158	36.66	51	11.83	1	.23	6306	1610	25.53	4696	74.47
25	1	25	1	25	1	25	0	0	2743	21	.77	2722	99.23
48.57	16	45.71	2	5.71	0	0	0	0	1070	55	5.14	1015	94.86
0	0	0	78	57.78	51	37.78	6	4.44	13469	1586	11.78	11883	88.22
73.68	7	18.42	3	7.89	0	0	0	0	5815	53	.91	5762	99.09
20	4	80	0	0	0	0	0	0	3213	9	.28	3204	99.72
56.94	229	28.91	111	14.02	1	.13	0	0	22204	1382	6.22	20822	93.78
61.11	1	5.56	6	33.33	0	0	0	0	6900	47	.68	6853	99.32
0	0	0	110	100	0	0	0	0	16017	356	2.22	15661	97.78
7.02	6	10.53	31	54.39	7	12.28	9	15.79	7655	2444	31.93	6738	88.02
78.21	44	7.86	66	11.79	12	2.14	0	0	11492	1023	8.9	10469	91.1
38.44%	2499	16.56%	5504	36.47%	1110	7.36%	177	1.17%	617017	61540	9.97%	572743	92.82%

Exhibit 47. Tier 1 Stats – Main Report.


State : TX, Year : 2015											
Beach ID	Beach Name	County 	Beach Tier Rank	Beach Length (Mi)	Is Beach Monitored?	Is Beach Monitored Irregularly?	Monitor Irregularly Comment	Swim Season Monitor Freq	Swim Season Monitor Units	Swim Season Beach Days	No. of Days Under Beach Action
TX396020	Mustang Island	Nueces	1	7.25	Yes	Yes	Samples are collected weekly in March and from May to September. Samples are collected biweekly from October to February and in April.	37	PER_YEAR	364	-
TX551380	Mustang Island State Park	Nueces	1	4.56	Yes	Yes	Samples are collected weekly in March and from May to September. Samples are collected biweekly from October to February and in April.	37	PER_YEAR	364	2
TX546628	North Beach - Main	Nueces	1	1.42	Yes	Yes	Samples are collected weekly in March and from May to September. Samples are collected biweekly from October to February and in April.	37	PER_YEAR	364	24
TX227625	Packery Channel Park	Nueces	1	1.58	Yes	Yes	Samples are collected weekly in March and from May to September. Samples are collected biweekly from October to February and in April.	37	PER_YEAR	364	1
TX314643	Padre Bali Park	Nueces	1	2.69	Yes	Yes	Samples are collected weekly in March and from May to September. Samples are collected biweekly from October to February and in April.	37	PER_YEAR	364	7
TX682648	Poenisch Park	Nueces	1	.06	Yes	Yes	Samples are collected weekly in March and from May to September. Samples are collected biweekly from October to February and in April.	37	PER_YEAR	364	12
TX315916	Port Aransas - South	Nueces	1	3.49	Yes	Yes	Samples are collected weekly in March and from May to September. Samples are collected biweekly from October to February and in April.	37	PER_YEAR	364	3
TX722300	Port Aransas Park	Nueces	1	.68	Yes	Yes	Samples are collected weekly in March and from May to September. Samples are collected biweekly from October to February and in April.	37	PER_YEAR	364	7
TX821303	Ropes Park	Nueces	1	.2	Yes	Yes	Samples are collected weekly in March and from May to September. Samples are collected biweekly from October to February and in April.	37	PER_YEAR	364	114
TX149569	University Beach	Nueces	1	.24	Yes	Yes	Samples are collected weekly in March and from May to September. Samples are collected biweekly from October to February and in April.	37	PER_YEAR	364	13
Count:60				158.21				Count:60		21840	1369

Exhibit 48. Tier 1 Stats – Summary Report.

Year : 2015, State : CT			
County	Total Beach	Beach Monitored	Percent of Beach Monitored
Fairfield	233	233	100
Middlesex	48	48	100
New Haven	348	320	92
New London	206	192	93
	835	793	

Note: In order to access the Tier 1 Stats – Summary Report, click the Summary Report [Summary Report](#) button on the Tier 1 Stats – Main report. Once viewing the Tier 1 Stats – Summary Report, you may click the Main Report [Main Report](#) button to return to the Tier 1 Stats – Main report.

Exhibit 49. Water Quality – 1 of 2.

State Code : AK												
Beach ID	Beach Name	Station ID	Station Name	County Name	Identifier	Start Date	Start Time	Zone Code	Activity Type Code	Characteristic Name	Result Value Text	
(Def.)	(Def.)	(Def.)	(Def.)	(Def.)	(Def.)	(Def.)	(Def.)	(Def.)	(Def.)	(Def.)	(Def.)	
AK551272	North Kenai Beach	AK551272-002	North Kenai Beach site 2	KENAI PENINSULA	NKB2_20130811_Temp-A	08-11-2013	05:44:00 AM	AKDT	Field Msr/Obs	Temperature, air	-	
AK551272	North Kenai Beach	AK551272-004	North Kenai Beach site 4	KENAI PENINSULA	NKB4_20130806_pH	08-06-2013	11:10:00 AM	AKDT	Field Msr/Obs	pH	-	
AK551272	North Kenai Beach	AK551272-004	North Kenai Beach site 4	KENAI PENINSULA	NKB4_20130806_Turb	08-06-2013	11:10:00 AM	AKDT	Field Msr/Obs	Turbidity	-	
AK551272	North Kenai Beach	AK551272-004	North Kenai Beach site 4	KENAI PENINSULA	NKB4_20130806_FC-Rep	08-06-2013	11:10:00 AM	AKDT	Quality Control Sample-Field Replicate	Fecal Coliform	-	
AK551272	North Kenai Beach	AK551272-004	North Kenai Beach site 4	KENAI PENINSULA	NKB4_20130804_pH	08-04-2013	10:55:00 AM	AKDT	Field Msr/Obs	pH	-	
AK551272	North Kenai Beach	AK551272-004	North Kenai Beach site 4	KENAI PENINSULA	NKB4_20130804_Ent	08-04-2013	10:55:00 AM	AKDT	Sample-Routine	Enterococcus	-	

Note: Clicking on the red (Def.) text will open a new window with the definition of the data type or the Storet help page. Clicking on the headers of the report will expand the column Sort Menu.

The below exhibit shows the columns you would see when scrolling to the right for this report.

For more details on how to configure Water Quality reports directly from STORET, please see the guidance at:

https://water.epa.gov/grants_funding/beachgrants/upload/storetinstructions.pdf

Exhibit 50. Water Quality – 2 of 2.

Result Value (Def.)	Result Measure Unit	Result Comment (Def.)	Activity Depth Value (Def.)	Activity Depth Unit Code (Def.)	Sample Collection Method Identifier (Def.)	Sample Collection Method Name (Def.)	Field Gear (Def.)	Analysis Date Time (Def.)	Detection Quantitation Limit (Def.)
9	deg C	-	1	m	-	-	Probe/Sensor	-	-
8.06	None	-	1	m	-	-	Probe/Sensor	-	-
87.4	NTU	-	1	m	-	-	Probe/Sensor	-	-
54	cfu/100ml	-	1	m	-	-	Water Bottle	08-06-2013	-
8.06	None	-	1	m	-	-	Probe/Sensor	-	-
75	MPN/100ml	-	1	m	-	-	Water Bottle	08-04-2013	-


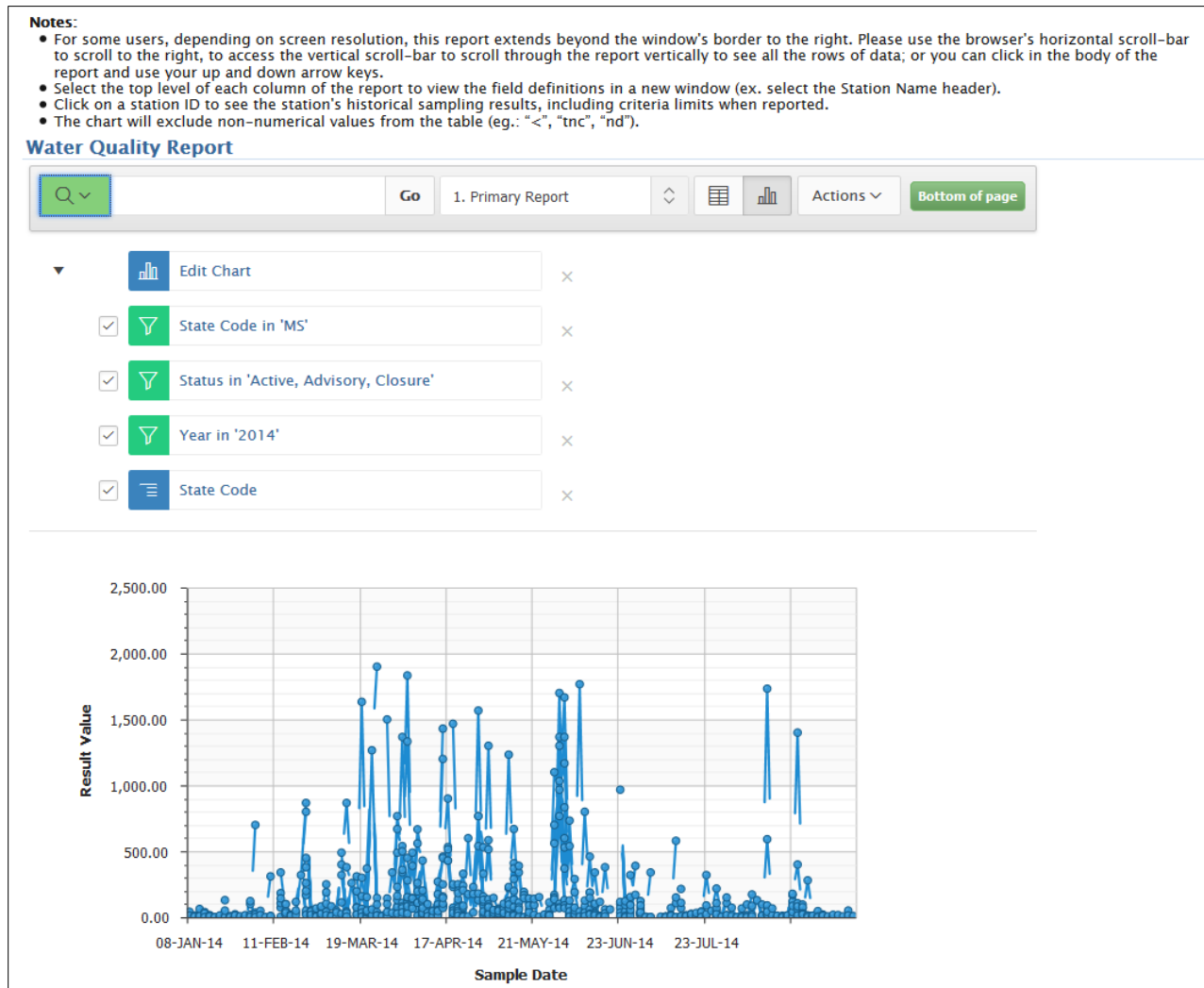
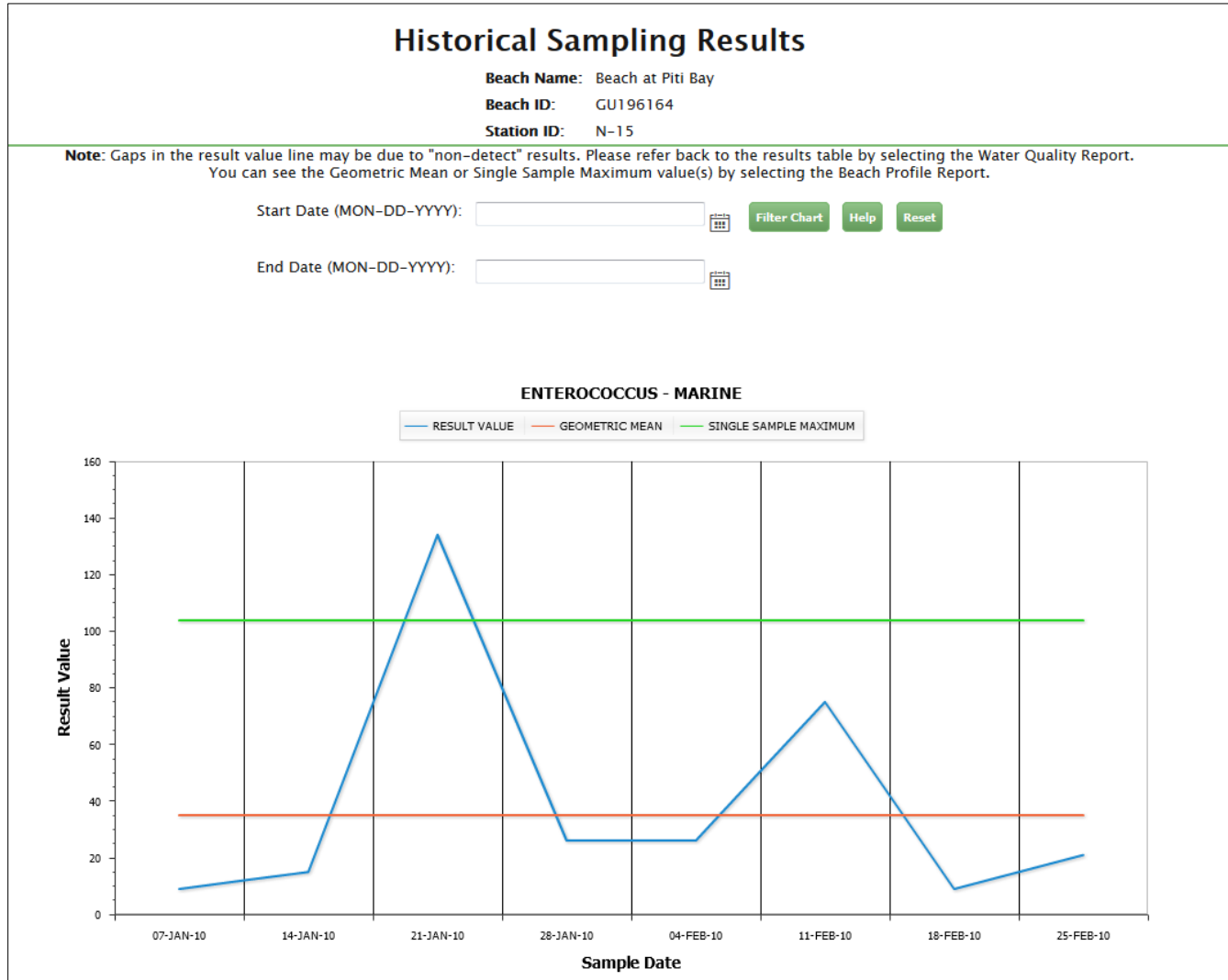
NOTE: In order to navigate to the historical sampling results graph (Exhibit 52.), for a single station report, you will need to click on the  button once the report loads. For a multiple station report, you must click on the hyperlink in the Station ID column of this report for the station you want to chart. The next page will display graphs relating to a station ID's water quality data. Note that the chart will exclude non-numerical values from the table (eg.: "<","tnc","nd").

Exhibit 51. Water Quality Chart.



NOTE: To see criteria limits superimposed on the graph, navigate to the historical sampling results graph (Exhibit 52.) and follow the directions for a single station report.

Exhibit 52. Historical Sampling Results Graph.



NOTE: The horizontal lines representing the criteria limit values will only show if the jurisdiction has submitted information.

APPENDIX B – DETAILED REVISION HISTORY

User's Guide Version	Date	Description of Changes
1.0	1/24/2012	Initial version.
1.1	11/29/2012	National List of Beaches report - Added a new section to the User's Guide describing how to use the new National List of Beaches report (refer to Section F).
1.1	11/29/2012	WQ report note about navigation to charts - Added a note to the Water Quality report that when clicking on a station ID, the Water Quality charts will show up next. Screenshots for Water Quality report were updated to reflect the change.
1.1	11/29/2012	BEACON 2.0 Report Description changes - Minor text changes to the Description for several of the BEACON Reports on Step 3.
1.1	11/29/2012	Fixed a typo on the About BEACON page (line 2 "state-reported2").
1.1	11/29/2012	Water Quality report filtering fix - There were a few states being filtered out of the Water Quality report that needed to be fixed, including NH, NY, FL and AS. This was fixed and removed from the User's Guide under the "Known Issues" section.
1.1	11/29/2012	Most recent report option - The most recent report option was updated to show the latest record for each beach id regardless of which year is selected. Text was updated to reflect this change in section D.2.
1.1	11/29/2012	Water Quality report date formats - Water Quality report date format was changed to year-month-day format. Screenshots for Water Quality report were updated to reflect the change.
1.2	02/14/2013	A new report option was added to several BEACON 2.0 reports, "Total of all Jurisdictions". Text was updated to reflect this change in Section D.2.
1.2	02/14/2013	Screenshot for Possible Pollution Sources report was updated to reflect addition of "Algae" column.
1.2	02/14/2013	Minor text additions were added to the User's Guide mentioning historical beaches in the Step 1 – Location Filters and Step 2 – Additional Filtering sections.
1.2	02/14/2013	Updated screenshot for National List of Beaches to reflect changes ("Year" filter was removed; scrollbar was added).
1.2	02/14/2013	Mapping for the GU, CNMI and AS jurisdictions was completed. Therefore, the text mentioning this issue was removed from the User's Guide under the "Known Issues" section.
1.2	02/14/2013	A larger loading icon was implemented for all BEACON 2.0 reports, which causes a minor bug in the Water Quality report. This is reflected in the User's Guide under the "Known Issues" section.
1.2	02/14/2013	Removed the following note located below the map on the "Find a Beach" tab - Note: Mapping is still in process for the following jurisdictions: GU, CNMI, AS. A new screenshot was added to reflect this change.
1.2	02/14/2013	Removed the following note located next to the list for "Select by Great Waterbody" under "Step 1 – Location Filter" tab – Note: Currently there are issues with data showing up for certain Great Waterbodies which will be fixed in an upcoming BEACON 2.0 patch.
1.2	02/14/2013	Added screenshot to Appendix A to show the new Water Quality report chart.

User's Guide Version	Date	Description of Changes
1.2	02/14/2013	Added Note under the Water Quality report chart screenshot.
1.2	02/14/2013	Removed "Not Reporting" option from "Select by Miscellaneous Filters" section under "Step 2 – Additional Filtering". The screenshot for Exhibit 17 was updated to reflect this change.
1.2	02/14/2013	Added G.8 - Reselecting values from Step 2 filters under Known Issues section regarding the bug found while setting Beacon Report Step 2 filters.
1.3	07/01/2013	Added additional definitions from the Possible Pollution Sources and Beach Actions (Advisories and Closures) reports to Definitions section.
1.3	07/01/2013	Added screenshots to display the Tier 1 Stats – Summary Report.
1.3	07/01/2013	Revised note underneath Action Duration report screenshot to describe how to use the navigation arrows beneath the report to see the next and previous page of results.
1.3	07/01/2013	Updated screenshot and added note for the National List of Beaches county level page.
1.4	11/20/2014	Additional information was added at the end of the description for the Beach Actions (Advisories and Closures) report.
1.4	11/20/2014	Updated screenshot of map legend under "B.2 Symbology for BEACON 2.0 Elements"; changed "No report status" to "Dormant".
1.4	11/20/2014	Updated the definition of "Action Duration".
1.4	11/20/2014	Updated screenshot to display the new Tier 1 Stats Summary report.
1.4	11/20/2014	Updated screenshot to display added columns in Beach Profile report.
1.4	11/20/2014	Updated Known Issues regarding 50,000 record-limit for Water Quality report.
1.4	11/20/2014	Updated screenshots to reflect updated and removed columns in Water Quality report.
1.4	11/20/2014	Updated screenshot to reflect updated breadcrumb and removed pagination section in National List of Beaches -- County Level page.
1.4	11/20/2014	Updated screenshot to reflect updated breadcrumb, hidden fields (Season start and end dates) in Beach Profile details page.
1.4	11/20/2014	Updated screenshots to reflect updated page title and page template for National List of Beaches home page.
1.4	11/20/2014	Made text edits to National List of Beaches section.
1.4	11/20/2014	Updated screenshot for Beach Profile details report to reflect updated "WQS Criteria Names and Values", "Local Action Decision Procedures" and "Advisories" (Possible Pollution Sources field) sections.
1.4	11/20/2014	Updated screenshots to reflect updated Possible Pollution Sources report.
1.4	11/20/2014	Updated web page links.
1.4	11/20/2014	Added G.11- Linking directly to BEACON reports.
1.5	5/20/2015	Made text edits in "BEACON 2.0 CONTACTS" section.
1.5	5/20/2015	Made text edits in "B.2.2 - Beaches (by last reported Status)" section.
1.5	5/20/2015	Move contents of section "C.1.1.1 - HOW TO FIND BEACHES BY HYDROLOGIC UNIT CODE (HUC)" to new section "B.5 How to Find beaches by Hydrologic Unit Code (HUC)".

User's Guide Version	Date	Description of Changes
1.5	5/20/2015	Made text edits in "C.1 - Step 1 – Location Filters" section.
1.5	5/20/2015	Updated Exhibit 16 with new screenshot capturing updates to Step 2 Additional Filters.
1.5	5/20/2015	Made text edits in "C.2.1 - Select by Date" section.
1.5	5/20/2015	Updated description for Beach Days, Beach Actions (Advisories and Closures), Possible Pollution Sources and State Summary Reports under Exhibit 18. BEACON 2.0 Reports List.
1.5	5/20/2015	Updated Exhibit 19. BEACON 2.0 Reports – Page Elements with new screenshot to point out scrollbars.
1.5	5/20/2015	Made text edits in "D.1 - Report Page Elements" section.
1.5	5/20/2015	Made text edits in "H - DEFINITIONS" section.
1.5	5/20/2015	Updated Exhibit 40 screenshot capturing section header change in the Beach Profile details page.
1.5	5/20/2015	Updated Exhibit 44 and 45 screenshot capturing updates to State Summary report related to data calculations and column header.
1.5	5/20/2015	Updated Exhibit 35 and 36 screenshot capturing new columns and column header change in Beacon Action report.
1.6	8/18/2015	Updated Exhibit 51 with new screenshot capturing example of real data and also page changes.
1.6	8/18/2015	Note added under Exhibit 51 regarding SSM and GM values.
1.6	8/18/2015	Updated Exhibit 35 screenshot to point out that Description and Comments columns was removed.
1.6	8/18/2015	Updated Exhibit 36 screenshot capturing new columns in Beacon Action detailed report.
1.6	8/18/2015	Updated Exhibit 46 screenshot to point out that Beach Action? column was removed.
1.6	8/18/2015	Added definition for ENTERO from the Possible Pollution Sources and Beach Actions (Advisories and Closures) reports to "H - DEFINITIONS" section.
1.6	8/18/2015	Added a note under "C.2.2 - Selecting by Miscellaneous Filters" section regarding including Historical beaches to reports.
1.6	8/18/2015	Added a new bullet under "A.2 - What are the sources of BEACON information?" section.
1.7	2/2/2016	Updated Exhibit 30 screenshot to capture the new EPA template.
1.7	2/2/2016	Updated Exhibit 40 screenshot for Beach Profile details report changes – "Water Monitoring Locations", "Advisory Reporting Frequency", "Swim Season End Date" fields.
1.7	2/2/2016	Updated all the screenshots under Section D, Section F and Appendix A to reflect changes due to Apex 5 upgrade.
1.7	2/2/2016	Updated Exhibit 44 and 45 screenshot capturing updates to State Summary report – Respective percentage columns for all "No of Actions of X Day Duration" columns, "Number of days not under a Beach Action" and "Percent of days not under a Beach Action".

User's Guide Version	Date	Description of Changes
1.7	2/2/2016	Updated Exhibit 46 screenshot for Tier 1 Stats report changes – “Is Beach Monitored Irregularly” column.
1.7	2/2/2016	Added a section G.12 under Known Issues regarding report header freeze functionality not available.
1.8	5/19/2016	Updated Exhibit 35 and 36 screenshot capturing updates to Beach Actions (Advisories and Closures) report – new column “Monitoring Station ID”.
1.8	5/19/2016	Updated Exhibit 41 and 42 screenshot capturing updates to Possible Pollution Sources. Added a rollover so a link pops up with the comment when mouse is over the ‘Yes’.
1.8	5/19/2016	Updated Exhibit 48 and 49 screenshots capturing updates to Water Quality. – new column “Result Value Text”
1.9	11/16/2016	Updated Exhibit 17 screenshot capturing the change in pre-selected filters.
1.9	11/16/2016	Removed section G.13 (Water Quality report headers open STORET help page before expanding the Sort Menu) from under Known Issues section. Added updated instructions regarding links to the help page under Exhibit 49.
1.9	11/16/2016	Updated Exhibit 38, 43, 44 and 48 screenshots capturing the removal of “%” from percent columns
1.9	11/16/2016	Updated Exhibits 33, 35, 36, 43 ad 44 screenshots capturing changes based on partial day beach actions
1.9	11/16/2016	Updated Exhibits 35, 36, 40 capturing change in column header from “Monitoring Station” to “Station ID”
1.9	11/16/2016	Updated Exhibit 40 screenshot capturing field label updates – “Monitoring Reporting (to EPA) Frequency”, “Advisory Reporting (to EPA) Frequency” and “Station ID”
1.9	11/16/2016	Updated Exhibits 41 screenshot capturing the inclusion of pollution sources data from the beach action report
1.9	11/16/2016	Added Exhibits 45 and 46 screenshots capturing new State Summary Report – Alternate Report with National Percentages
1.9	11/16/2016	Updated Exhibits 49 and 50 screenshots capturing updates to Water Quality. Added a clickable link in red that links the user to a page with definitions.