



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 [EPA's Data User Corner webpage](#).

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 on each beach's map and Profile Report at: http://water.epa.gov/type/oceb/beaches/whereyoulive_state.cfm.

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 described 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.

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 on each beach's map and Profile Report at: http://water.epa.gov/type/oceb/beaches/wherelive_state.cfm.

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 [EPA's About STORET and WQX page](#).
- **PRogram tracking, beach Advisories, Water quality standards, and Nutrients (PRAWN)**. PRAWN stores beach administrative, advisory and closing data. For more information on PRAWN, see [EPA's Data User Corner 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.

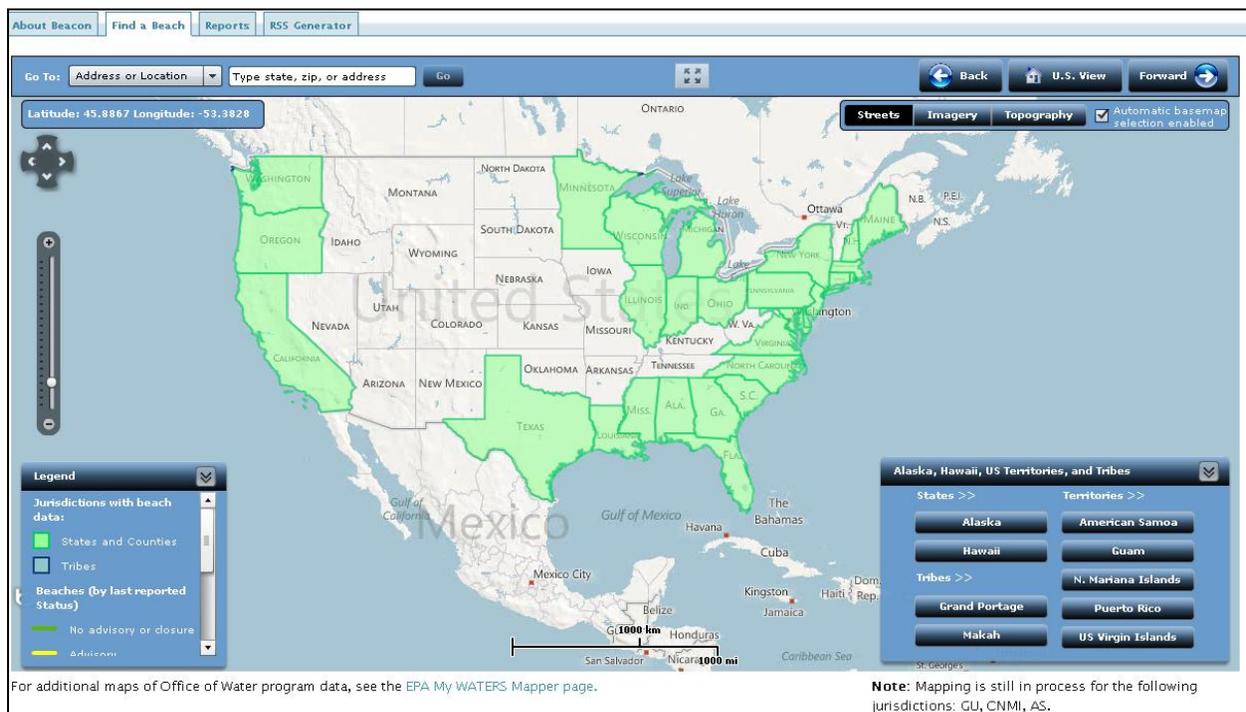
B.1 About the Map Tool Interface

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.



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

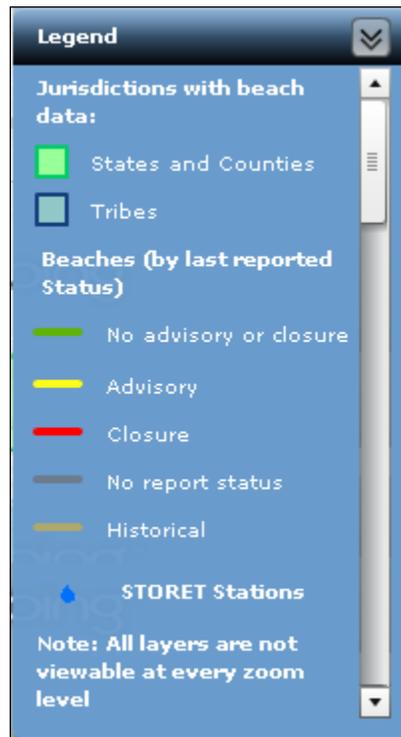
This box, located at the bottom-right corner, contains links for zooming to the other states, tribes and territories in the Beach Program. This box is open at the default map view, and will collapse upon zooming in. **Note:** Mapping is still in process for the following jurisdictions: GU, CNMI, AS.

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 over 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.

Note: Map elements may take time to load and, therefore, may not be immediately viewable.

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

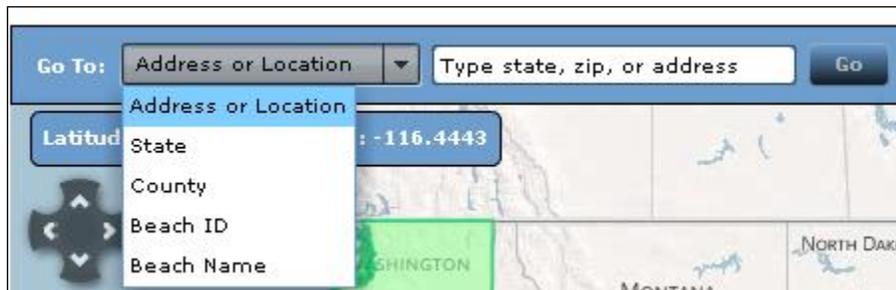
Follow the below steps for a point-and-click approach to zooming to features:

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 'Go To:' label. To its right is a dropdown menu currently displaying 'State'. Further right is a text input field containing 'Virginia'. To the right of the text field is a 'Go' button.

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 'Go To:' label. To its right is a dropdown menu currently displaying 'Beach ID'. Further right is a text input field containing 'SC34730'. To the right of the text field is a 'Go' button.

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. See Exhibit 35 in Appendix A for an example report.
- **Beach Advisory and Closing Information:** Click this link to see dates of advisories and closures for the selected beach. See Exhibit 36 in Appendix A for an example report.
- **Water Quality:** Click this link to view the water quality report for the selected beach. See Exhibit 47 and Exhibit 48 in 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 Exhibit 40 in 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). See the bottom of Exhibit 40 in Appendix A for an example.
- **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 Exhibit 47 and Exhibit 48 in Appendix A.

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

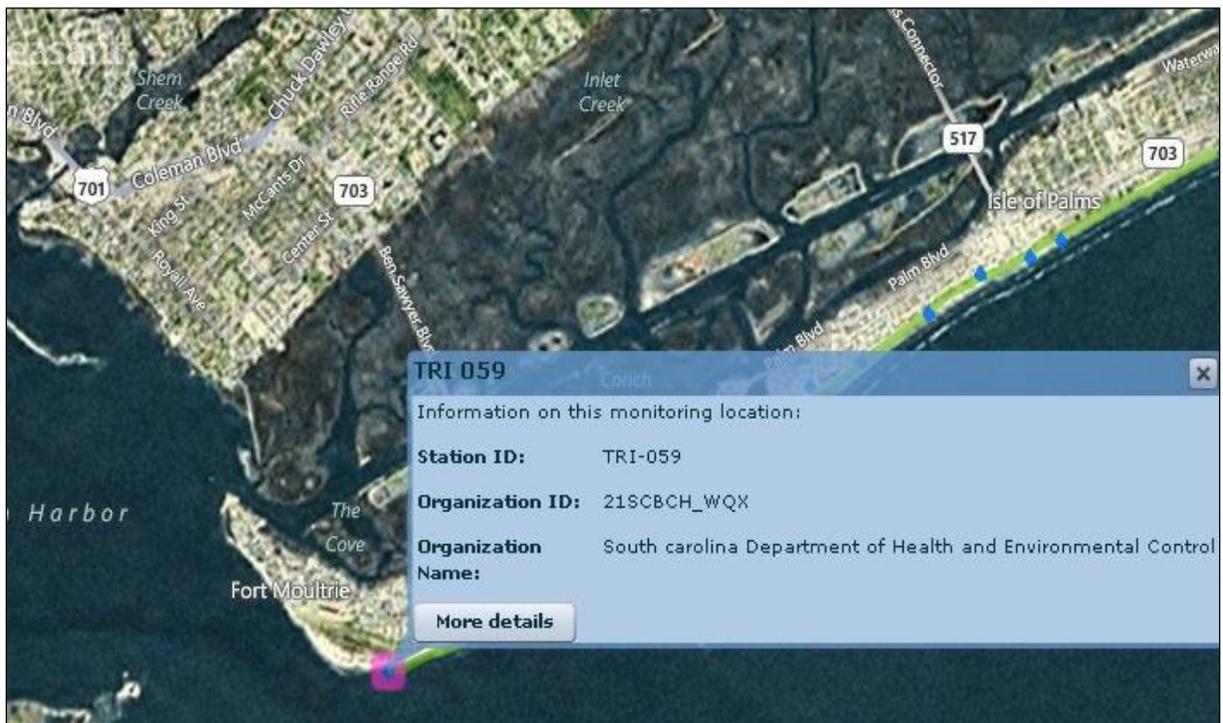
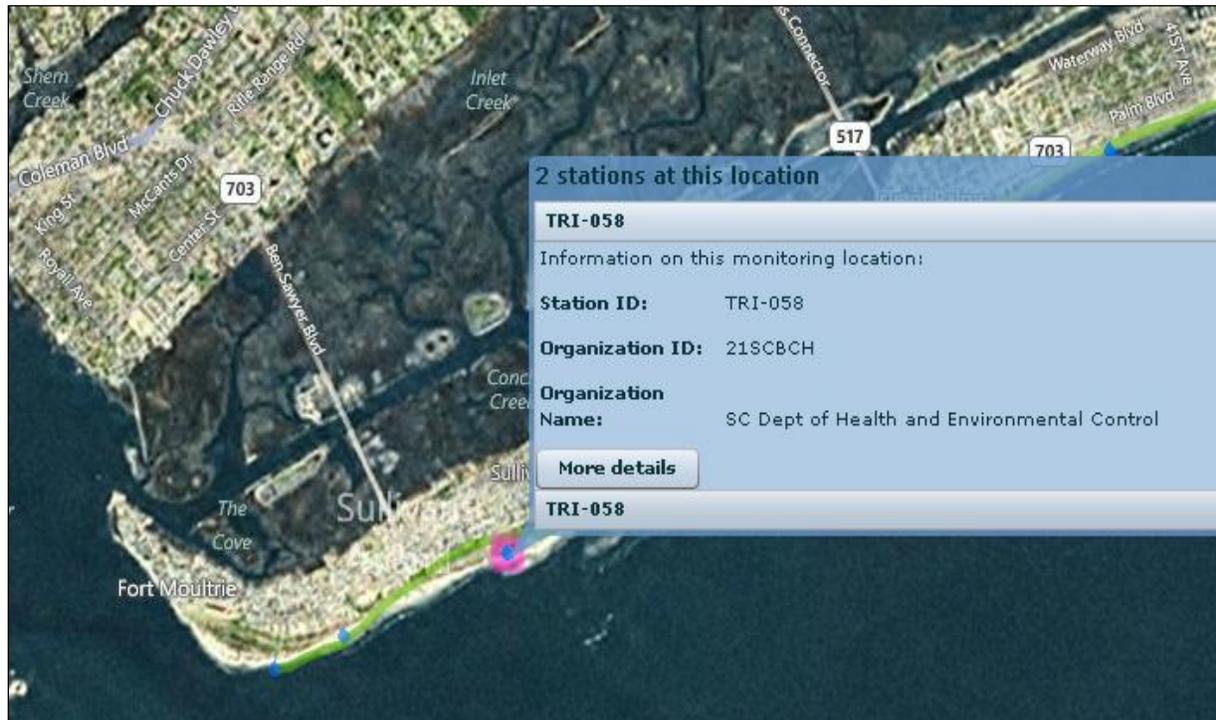


Exhibit 12. Monitoring Station Details Pop-up – Multiple Stations.

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.

C.1.1.1 SELECT BY 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

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

▶ **Select by Great Waterbody** (click to open/close selection list)

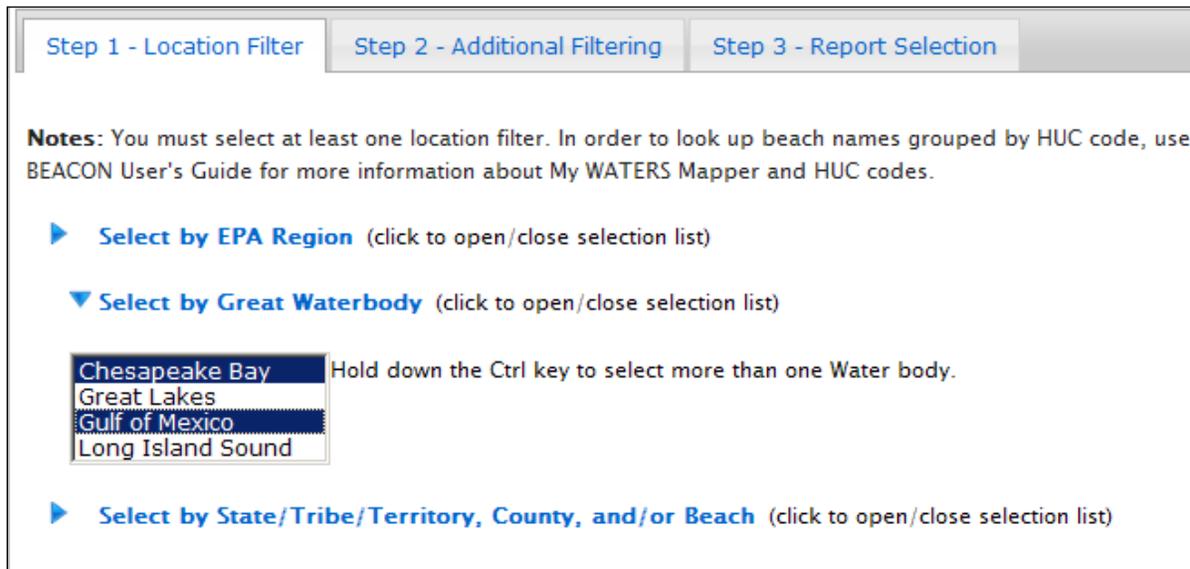
▶ **Select by State/Tribe/Territory, County, and/or Beach** (click to open/close selection list)

C.1.1.2 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.

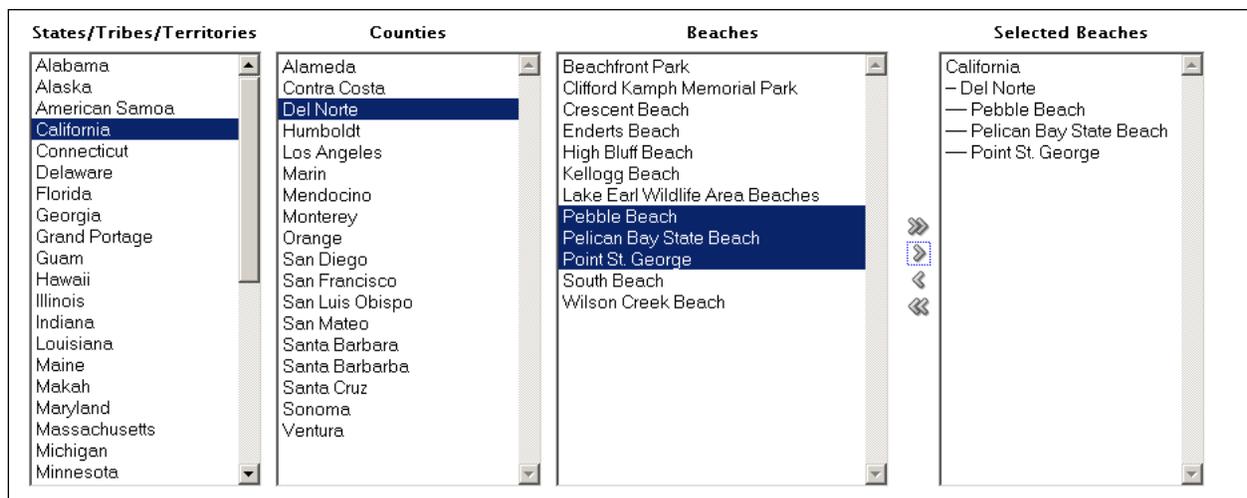
Exhibit 14. BEACON 2.0 Reports Wizard – Step 1: Location Filter by Great Waterbody.



C.1.1.3 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.1.1.4 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 first use the [My WATERS Mapper](http://map24.epa.gov/mwm/) (http://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.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 by Date** (click to open/close selection list)

Start Date (Grouping A):

End Date (Grouping A):

Other Date Options (Grouping B): Swim Season
 Rolling Year (12 Months)
 Year to Date

Calendar Year (Grouping C): Hold down the Ctrl key to select more than one year.
 2011
 2010
 2009
 2008
 2007

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 swim season selection will return data that is within the range of the beach’s specified swim season in applicable reports. 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 “Other” option.
- **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.

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: Active, Reporting, No Advisory or Closure, Advisory, Closure, Not Reporting, and Public (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). This method involves using the miscellaneous filters selection tool shown in Exhibit 17 below.

Note: 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.

Exhibit 18. BEACON 2.0 Reports List.

Report	Description
Action Duration	<u>For each monitored 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 monitored 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 on one calendar day equals one "day", or for multi-calendar day actions, a "day" is each 24-hour time block, not each calendar day), (4) action reason, source, and the indicator used to trigger the action. The list is sorted by county, beach name and action start date.
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 monitored 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.
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 monitored BEACH Act beach:</u> Identifies if possible pollution sources have been investigated 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. 
State Summary	<u>For each county:</u> 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 beach actions, and (4) the number of 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.

Report	Description
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.

The screenshot shows the 'Action Duration' report interface. At the top, there is a search bar, a 'Go' button, and a 'Reports' dropdown menu set to '1. Primary Report'. To the right are 'Actions' and 'Bottom of page' buttons. Below this is a 'Report Toolbar' area. A 'Report Filters' section contains several filter options with checkboxes: 'Beach Access in 'Public, null'', 'Beach Id in 'AL574749, AL197202'', 'Historical Record in 'N'', 'Reported in 'Y, N'', 'Status in 'Active, Advisory, Closure'', 'Year in '2010'', 'State', and 'Year'. Below the filters, the current report parameters are shown: 'State : AL, Year : 2010'. The main data area is a table with the following headers and data:

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
AL574749	DOG RIVER, ALBA CLUB	MOBILE	3	7	1	-	2	-	
AL197202	FOWL RIVER @ HW 193	MOBILE	1	3	-	-	1	-	
Count: 2			4	10	1		3		

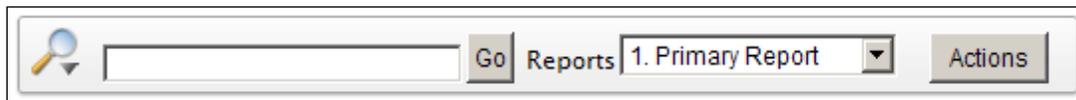
At the bottom, there is a 'Report Navigation' section with 'First page', 'Last page', and a 'Rows 1 - 2' dropdown menu.

- **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.
- **Report navigation** – The reports contain the ability to navigate straight to the first or last pages in the report using the first/last page 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, and “Total by County”, which groups the data

by county. **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.

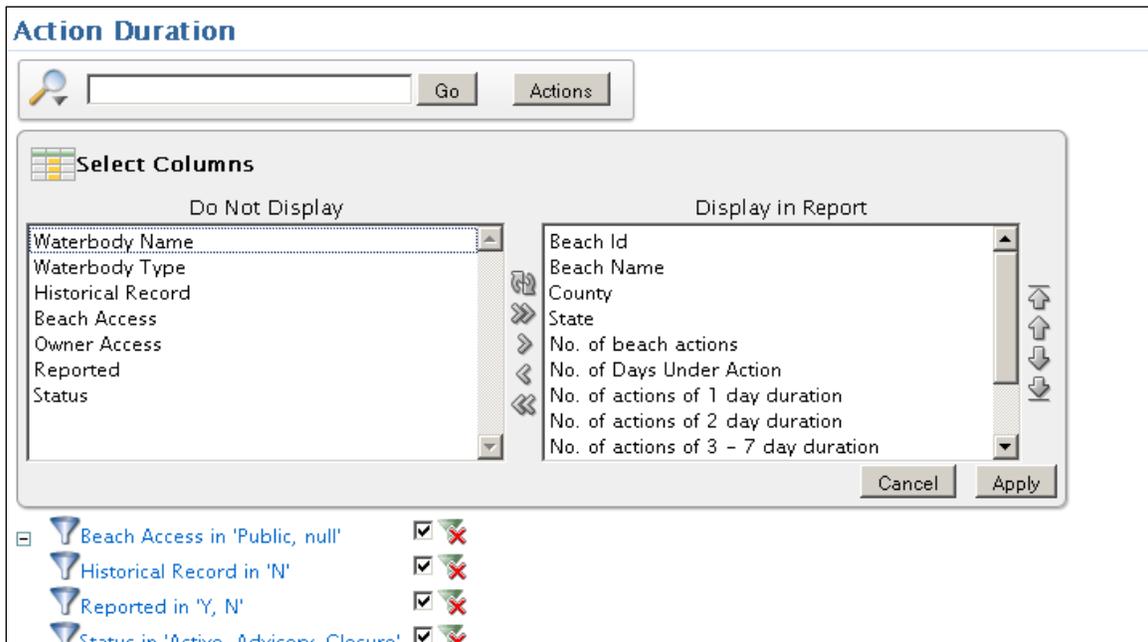
The screenshot shows the 'Beach Days' report interface. At the top, there is a search bar with a 'Go' button, a 'Reports' dropdown set to '1. Primary Report', and an 'Actions' button. Below the search bar is a list of filters with checkboxes and 'X' icons to remove them. The filters include: Beach Access in 'Public, Private, null', County in 'WAYNE', Historical Record in 'N', Reported in 'Y, N', State in 'MI', Status in 'Active, Advisory, Closure', State, and Year. Below the filters, it says 'State : MI, Year : 2010'. The main report table has columns: Beach ID, Beach Name, County, No. of Beaches, Percent Days Under a Beach Action, No. of Days Not Under a Beach Action, and Percent Days Not Under a Beach Action. The 'Actions' menu is open, showing options: Select Columns, Filter, Rows Per Page, Format, Flashback, Reset, Help, and Download. The table data is as follows:

Beach ID	Beach Name	County	No. of Beaches	Percent Days Under a Beach Action	No. of Days Not Under a Beach Action	Percent Days Not Under a Beach Action
MI000322	Belle Isle Beach	WAYNE	0	0%	0	0%
MI304746	Crescent Sail Yacht Club	WAYNE	0	0%	0	0%
MI000344	Pier Park	WAYNE	5	36.08%	62	63.92%
Count: 3			291	Count: 3	35	62

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.



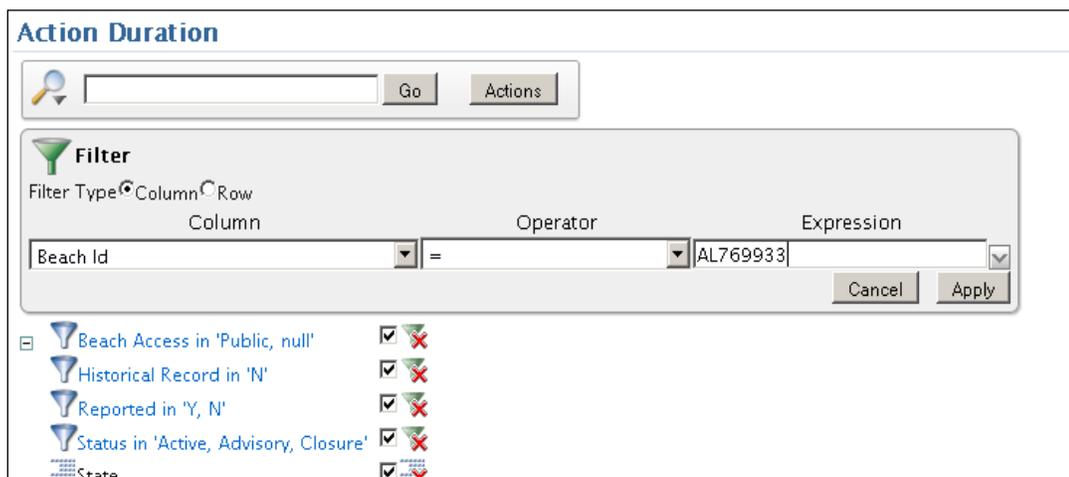
D.2.1.2 FILTER

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)
(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/conditions007.htm#BABGDGIH)
(http://docs.oracle.com/cd/B28359_01/server.111/b28286/conditions007.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/conditions002.htm#i1033286)
(http://docs.oracle.com/cd/B28359_01/server.111/b28286/conditions002.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/conditions008.htm#i1050977)
(http://docs.oracle.com/cd/B28359_01/server.111/b28286/conditions008.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)
(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](http://docs.oracle.com/cd/B19306_01/text.102/b14218/csql.htm#sthr ef122) of the Oracle Text Reference
(http://docs.oracle.com/cd/B19306_01/text.102/b14218/csql.htm#sthr ef122).
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.

Action Duration

Filter

Filter Type Column Row

Name: Row Filter by Beach ID

Filter Expression: A = 'AL769933'

	Columns	Functions / Operators
A.	Beach Id	!=
B.	Beach Name	<
C.	County	<=
D.	State	=
E.	Waterbody Name	>

Buttons: Cancel, Apply

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.

The screenshot displays the 'Action Duration' report interface. At the top, there is a search bar with a magnifying glass icon and a 'Go' button. Below this is a list of filters with checkboxes and red 'X' icons: 'Beach Access in 'Public, null'', 'Historical Record in 'N'', 'Reported in 'Y, N'', 'Status in 'Active, Advisory, Closure'', 'Row filter by Beach ID', 'State', and 'Year'. Below the filters, the report parameters are set to 'State : AL, Year : 2010'. The main data table has columns 'Beach Id' and 'Beach Name'. One row is visible: 'AL769933 ALABAMA POINT (GULF OF MEXICO)'. Below the table, it shows 'Count: 1' and '1'. At the bottom, the parameters are set to 'State : AL, Year : 2007'. An 'Actions' menu is open, showing options: 'Select Columns', 'Filter', 'Rows Per Page', 'Format' (highlighted), 'Flashback', 'Reset', 'Help', and 'Download'. A sub-menu for 'Format' is also open, showing options: 'Sort', 'Control Break', 'Highlight', 'Compute', 'Aggregate', 'Chart', and 'Group By'.

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.

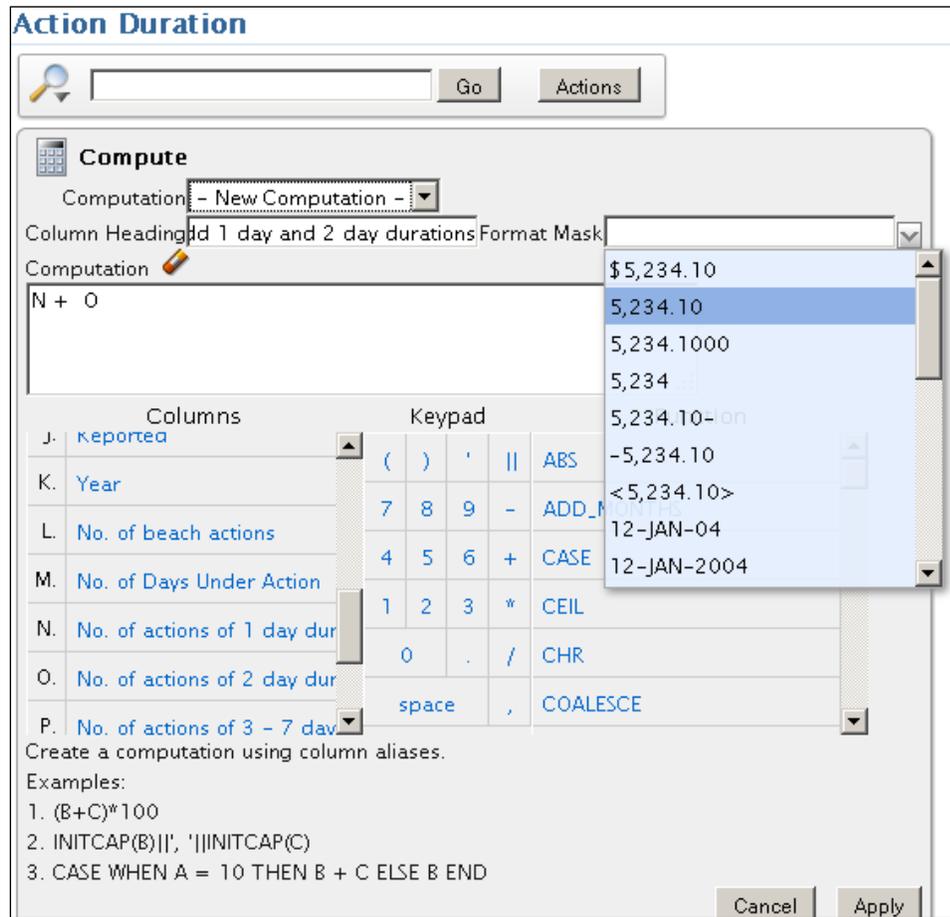
The options in the **Functions** menu are explained with greater detail in [About SQL Functions section of the Oracle Database SQL Language Reference guide](http://docs.oracle.com/cd/B28359_01/server.111/b28286/functions001.htm#i88893) (http://docs.oracle.com/cd/B28359_01/server.111/b28286/functions001.htm#i88893).

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.

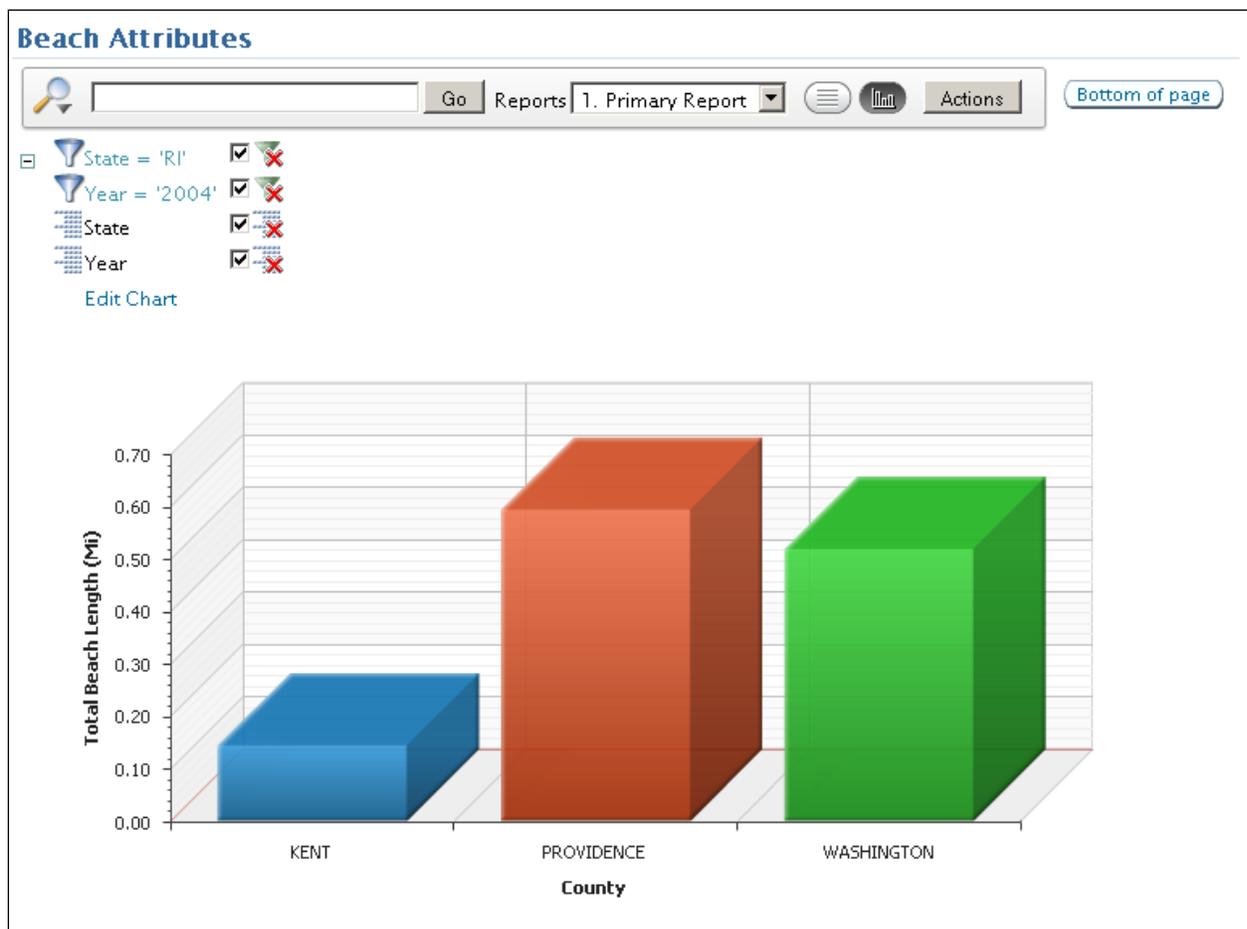
D.2.1.4.6 Chart

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.1.1.3—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.

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 page](#) (i.e., the “National List of Beaches” [main page](#)).

F.1 What is the National List of Beaches?

EPA has published a list of discrete 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](#).

Prior to the 2011 swimming season, EPA published the National List of Beaches periodically, as a static PDF file. Starting with the 2011 swimming season, the list is available in a dynamic format 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?

[EPA's list of state, territorial and tribal beach program contacts](#)

Each state's list also identifies the contact person from whom you can get more information.

For more information on the BEACH Act and the EPA Beach Program, visit our website at:

http://water.epa.gov/type/oceb/beaches/beaches_index.cfm.

F.4 Viewing National List of Beaches Reports

As shown in Exhibit 30 below, the default view of the National List of Beaches main page shows the "Current List of Beaches".

Exhibit 30. National List of Beaches State Level Default View.

Water: Beaches

Number of BEACH Act Beaches Reported

Current list of beaches	Total Beaches	Monitored	Not Monitored	Beach Length (Mi)
Current list of beaches	8967	7364	1603	7465.8
2010 (PDF)				
2008 (PDF)				
2004 (PDF)				

Jurisdiction : States

Jurisdiction	Total Beaches	Monitored	Not Monitored	Beach Length
ALABAMA*	25	25	0	11.15
ALASKA*	28	5	23	47.64
CALIFORNIA*	453	453	0	806.52
CONNECTICUT	64	64	0	14.61
DELAWARE*	15	15	0	18.25

F.4.1 Number of BEACH Act Beaches Reported

To access a National List of Beaches report, select "Current list of beaches" 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

Each list is primarily organized by state and 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.

As shown in Exhibit 31 below, for the dynamic reports, the "Number of BEACH Act Beaches Reported" section is populated with national summary data. To view details for a state, tribe, or territory, click the name of the desired jurisdiction. The jurisdiction reports 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. 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](#).

Exhibit 31. Select a State

The screenshot shows the EPA website's 'National List of Beaches' page. The page features a navigation menu on the left with categories like 'Water: Beaches', 'Drinking Water', and 'Our Waters'. The main content area includes a breadcrumb trail: 'You are here: Water » Our Waters » Oceans, Coasts, Estuaries & Beaches » Beaches » National List of Beaches'. Below the breadcrumb, there is a dropdown menu for 'Current list of beaches' set to 'Current list of beaches'. The page displays two tables: 'Totals' and 'Jurisdiction : States'.

Total Jurisdictions	Total Beaches	Monitored	Not Monitored	Beach Length (Mi)
37	8967	7364	1603	7465.8

Jurisdiction	Total Beaches	Monitored	Not Monitored	Beach Length
ALABAMA*	25	25	0	11.15
ALASKA*	28	5	23	47.64
CALIFORNIA*	453	453	0	806.52
CONNECTICUT	64	64	0	14.61
DELAWARE*	15	15	0	18.25

F.5 Detailed 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 32).

Exhibit 32. National List of Beaches -- County Level.

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:

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

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

List of Beaches

State Code : AL, County : BALDWIN, Year : 2012

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

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, by clicking on the red 'X' next to the county name, which will appear underneath the map.

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). 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 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 Data still in process

Please note that some data were still in process at the time of the BEACON 2.0 first release; these issues will be resolved in the next BEACON 2.0 patch:

- Mapping is still in process for the following jurisdictions: GU, CNMI, AS. Beach data for these locations are not displayed in the mapping tool.

Exhibit 33. Example Select by State/Tribe/Territory, County, and/or Beach tool.

States/Tribes/Territories	Counties	Beaches	Selected Beaches
Massachusetts Michigan Minnesota Mississippi New Hampshire New Jersey New York North Carolina Northern Mariana Islands Ohio Oregon Pennsylvania Puerto Rico Rhode Island South Carolina Texas Virgin Islands Virginia Washington Wisconsin	Clatsop Coos Curry Douglas Lane Lincoln Tillamook		California -- Contra Costa ---- Keller Beach Oregon

H. DEFINITIONS

Action duration: Action duration is based on the times an action begins and ends. One "day" is considered the 24-hour period following the time an action is issued. Additional "days" are recorded when an action extends into any portion of subsequent 24-hour period(s). For example, an action that lasts 26 hours is recorded as a two-day action.

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

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.

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

Monitored beaches: Beaches that are monitored at regular intervals.

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

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.

APPENDIX A – EXAMPLES OF BEACON 2.0 REPORTS

Note: Many of these reports are published for each state every year. Please see [EPA's Beaches page](http://water.epa.gov/type/oceb/beaches/) (<http://water.epa.gov/type/oceb/beaches/>). (At the writing of this guide, the latest reports available are for the 2010 season; see: [EPA's 2010 Beach Notification Summary page](http://water.epa.gov/type/oceb/beaches/seasons_2010_index.cfm) [http://water.epa.gov/type/oceb/beaches/seasons_2010_index.cfm].)

Exhibit 34. Action Duration.

State : MI, Year : 2010									
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
MI000322	Belle Isle Beach	WAYNE	-	-	-	-	-	-	-
MI304746	Crescent Sail Yacht Club	WAYNE	-	-	-	-	-	-	-
MI000344	Pier Park	WAYNE	4	35	3	-	-	-	1
Count: 3			4	35	3				1

⏪ First page
Rows 1 - 3
Last page ⏩

Navigation: The reports contain the ability to navigate straight to the first or last pages in the report using the first/last page buttons. You can also go directly to a page containing a specific row range using the drop down box (seen as Rows 1-3 in Exhibit 34 above).

Exhibit 35. Advisory and Monitoring.

State Code : MI

Beach Id	Beach Name	County Name
 MI000344	Pier Park	WAYNE

Count: 1

◀ First page Rows 1 - 1 Last page ▶

Note: Clicking on the magnifying glass shown in the above image will open the report shown in Exhibit 33.

Exhibit 36. Beach Actions (Advisories and Closures).

State : MI, County : WAYNE, Year : 2010, Beach Id : MI000322							
Beach Name	Action Type	Action	Action	Action	Action Reasons	Action Indicator	Action Possible Source
		Start	End	Duration			
		Date	Date	Days			
Belle Isle Beach	-	-	-	-	-	-	-
Count: 0							
State : MI, County : WAYNE, Year : 2010, Beach Id : MI000344							
Beach Name	Action Type	Action	Action	Action	Action Reasons	Action Indicator	Action Possible Source
		Start	End	Duration			
		Date	Date	Days			
Pier Park	Closure	JUN-21-2010	JUN-22-2010	1	ELEV_BACT	ECOLI	UNKNOWN
Pier Park	Closure	AUG-01-2010	SEP-02-2010	32	ELEV_BACT	ECOLI	UNKNOWN
Pier Park	Closure	JUN-06-2010	JUN-07-2010	1	ELEV_BACT	ECOLI	UNKNOWN
Pier Park	Closure	JUL-25-2010	JUL-26-2010	1	ELEV_BACT	ECOLI	UNKNOWN
Count: 4				35			

Exhibit 37. Beach Attributes.

State : MI, Year : 2010

County ▲	Beach ID	Beach Name	Beach Ownership/ Beach Accessibility	Beach Length (Mi)	Beach Tier	Start Latitude	Start Longitude	End Latitude	End Longitude
WAYNE	MI000322	Belle Isle Beach	Public/Public	.186	1	42.344688	-82.974747	42.34	-82.976677
WAYNE	MI304746	Crescent Sail Yacht Club	Private/Private	.634	1	42.402912	-82.887146	42.402359	-82.886955
WAYNE	MI000344	Pier Park	Public/Public	.109	1	42.40583	-82.885597	42.405281	-82.885803
Count: 3				.929					

⏪ First page Rows 1 - 3 Last page ⏩

Exhibit 38. Beach Days.

State : MI, Year : 2010

Beach ID	Beach Name	County ▲	No. of Beach Days	Beach Action in 2010?	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	97	Y	0	0%	0	0%
MI304746	Crescent Sail Yacht Club	WAYNE	97	Y	0	0%	0	0%
MI000344	Pier Park	WAYNE	97	Y	35	36.08%	62	63.92%
Count: 3			291	Count: 3	35		62	

⏪ First page Rows 1 - 3 Last page ⏩

Exhibit 39. Beach Monitoring Frequency.

State : MI, Year : 2010

<u>Beach ID</u>	<u>Beach Name</u>	<u>County</u> ▲	<u>Swim</u> <u>Season</u> <u>Length</u>	<u>Swim</u> <u>Season</u> <u>Length Units</u>	<u>Swim</u> <u>Season</u> <u>Monitoring</u> <u>Frequency</u>	<u>Swim</u> <u>Season</u> <u>Monitor</u> <u>Frequency</u> <u>Units</u>	<u>Off Season</u> <u>Monitoring</u> <u>Frequency</u>	<u>Off Season</u> <u>Monitor</u> <u>Frequency</u> <u>Units</u>	<u>Beach</u> <u>Length (Mi)</u>
MI000322	Belle Isle Beach	WAYNE	97	DAYS	2	PER_WEEK	0	PER_WEEK	.186
MI304746	Crescent Sail Yacht Club	WAYNE	97	DAYS	0	PER_WEEK	0	PER_WEEK	.634
MI000344	Pier Park	WAYNE	97	DAYS	1	PER_WEEK	0	PER_WEEK	.109
Count: 3									.929

⏪ First page Last page ⏩

Exhibit 40. Beach Profile.

BEACON – Beach Advisory and Closing On-line Notification

You are here: [EPA Home](#) » [Beaches](#) » [BEACON 2.0](#) » [Find a Beach](#) » [Reports](#)

General	
Beach ID:	SC347430
Beach Name:	ISLE OF PALMS
Beach Description:	SC BEACH
Beach Comment:	
State:	SC
County:	CHARLESTON
Water Body Name:	Atlantic Ocean
Water Body Type:	Open Coast
Beach Ownership/Accessibility:	Public/Public
Access Comment:	
Effective Year:	2010
Beach Act Beach:	Yes
Beach Tier:	2

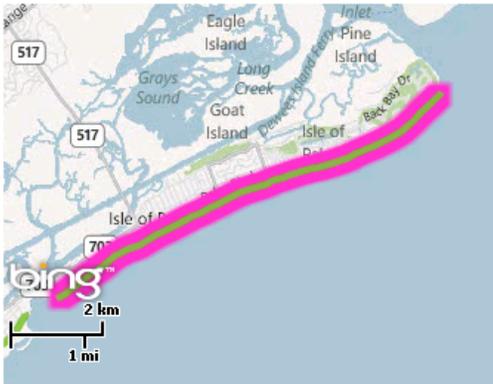
Monitoring Season and Frequency	
Swim Season Start Date:	
Swim Season End Date:	
Swim Season Length:	153 DAYS
Swim Season Monitoring Frequency:	2 PER_MONTH
Monitoring Reporting Frequency:	New for 2012
Off Season Monitoring Frequency:	2 PER_MONTH
Monitored Irregularly:	No
Monitored Irregularly Comments:	
Water Monitoring Locations:	

WQS Criteria Names and Values	
New for 2012	
Local Action Decision Procedure:	New for 2012

Advisories	
Advisory Reporting Frequency:	New for 2012
Possible Pollution Sources Investigated?:	Yes
Possible Pollution Sources:	Yes

Location	
Start Latitude:	32.79836667
Start Longitude:	-79.74978985
End Latitude:	32.79836667
End Longitude:	-79.74978985
Beach Length:	5.92 Mi
Source Map Scale:	100000
Horizontal Collection Method:	GPS
Horizontal Ref Datum Name:	NAD83

Contact Information	
Beach Website Address:	New for 2012
Beach Contact Name:	New for 2012
Beach Contact Agency:	New for 2012
Beach Contact Phone:	New for 2012
Beach Contact Email:	New for 2012



[Download Beach Profile Data](#)

Note: You may find that some fields are noted as “New for 2012” (as shown above); this note appears where a data element is new for 2012 and, therefore, no data has been submitted yet.

Exhibit 41. Possible Pollution Sources – 1 of 2.

State : RI, Year : 2003

Beach Id	Beach Name	County	Poll. Sources Investigated?	Poll. Sources Found?	Runoff	Storm	Agri-cultural	Boat	CAFO
RI245197	BARRINGTON TOWN BEACH	BRISTOL	Yes	Yes	-	-	-	-	-
RI627966	BRISTOL TOWN BEACH	BRISTOL	Yes	Yes	-	Yes	-	-	-
RI397836	WARREN TOWN BEACH	BRISTOL	Yes	Yes	-	Yes	-	-	-
RI596700	CITY PARK BEACH	KENT	Yes	Yes	-	Yes	-	-	-
RI162580	CONIMICUT POINT BEACH	KENT	Yes	Yes	-	-	-	-	-
RI810609	GODDARD MEMORIAL STATE PARK	KENT	Yes	Yes	-	Yes	-	-	-
RI327519	OAKLAND BEACH	KENT	Yes	Yes	-	Yes	-	-	-
Count: 7			Count: 7	Count: 7	Count: 0	Count: 5	Count: 0	Count: 0	Count: 0

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

Exhibit 42. Possible Pollution Sources – 2 of 2.

CSO	SSO	POTW	Sewer Line	Septic	Wildlife	Other	Unknown	Pollution Comment
Yes	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
Yes	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
Count: 2	Count: 0							

Exhibit 43. 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 44. State Summary – 1 of 2.

State : RI, Year : 2003

County 	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
BRISTOL	3	0	0%	0	3	0%	0	0	0%
KENT	4	0	0%	0	4	0%	0	0	0%
NEWPORT	14	0	0%	0	4	0%	0	0	0%
WASHINGTON	28	0	0%	0	6	0%	0	0	0%
	49	0		0	17		0	0	

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

Exhibit 45. State Summary – 2 of 2.

Total No. of Beach Actions	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	No. of Beach Days (Monitored Beaches)	No. of Days Under a Beach Action (Monitored Beaches)	Percent Days Under a Beach Action
11	0	2	2	6	0	0	0	0%
12	2	2	4	3	2	0	0	0%
14	3	5	6	0	3	0	0	0%
16	5	4	4	3	5	0	0	0%
53	10	13	16	12	10	0	0	

Exhibit 46. Tier 1 Stats.

State : MD, Year : 2010											
Beach ID	Beach Name	County	Beach Tier	Beach	Is Beach	Swim Season	Swim Season	Beach	Swim Season	No. of Days	
			Rank	Length (Mi)	Monitored?	Monitor Freq	Monitor Units	Action?	Beach Days	Under Beach	Action
MD987068	Sandy Point State Park East Beach	ANNE ARUNDEL	1	.158	Yes	4	PER_MONTH	Yes	98	-	
MD248962	Sandy Point State Park South Beach	ANNE ARUNDEL	1	.448	Yes	4	PER_MONTH	Yes	98	-	
MD329490	Breezy Point	CALVERT	1	.294	Yes	4	PER_MONTH	Yes	98	-	
MD388209	Elk Neck State Park North East River	CECIL	1	.145	Yes	4	PER_MONTH	Yes	98	70	
MD879656	Ferry Park	KENT	1	.054	Yes	4	PER_MONTH	Yes	98	38	
MD599212	Elm's Beach - Public Beach	ST MARY'S	1	.146	Yes	4	PER_MONTH	Yes	98	-	
MD479102	Point Lookout State Park	ST MARY'S	1	.156	Yes	4	PER_MONTH	Yes	98	-	
MD108198	Assateague State Park	WORCESTER	1	1.693	Yes	4	PER_MONTH	Yes	98	-	
MD982109	North Beach Site #1 (State Park Boundary)	WORCESTER	1	.011	Yes	4	PER_MONTH	Yes	98	-	
MD506919	North Beach Site #2 (Ranger Station)	WORCESTER	1	.642	Yes	4	PER_MONTH	Yes	98	-	
MD961400	Ocean City Beach 1	WORCESTER	1	2.446	Yes	2	PER_WEEK	Yes	98	-	
MD750554	Ocean City Beach 2	WORCESTER	1	1.463	Yes	2	PER_WEEK	Yes	98	-	
MD900476	Ocean City Beach 3	WORCESTER	1	1.151	Yes	2	PER_WEEK	Yes	98	-	
MD451365	Ocean City Beach 4	WORCESTER	1	1.247	Yes	2	PER_WEEK	Yes	98	-	
MD572862	Ocean City Beach 5	WORCESTER	1	1.3	Yes	2	PER_WEEK	Yes	98	-	
MD193259	Ocean City Beach 6	WORCESTER	1	1.321	Yes	2	PER_WEEK	Yes	98	-	
MD668061	Oceanside #3	WORCESTER	1	.635	Yes	4	PER_MONTH	Yes	98	-	
Count: 17				13.31		Count: 17			1666	108	

Exhibit 47. Water Quality – 1 of 2.

State Code : MI										
Beach ID	Beach Name	Station ID	Station Name	County Name	Identifier	Start Date	Start Time	Zone Code	Activity Type Code	Characteristic Name
MI000322	Belle Isle Beach	821490	Belle Isle Beach	WAYNE	155369	09-15-2010	12:00:00	-	Sample-Routine	Escherichia coli
MI000322	Belle Isle Beach	821490	Belle Isle Beach	WAYNE	155370	09-15-2010	12:00:00	-	Sample-Routine	Escherichia coli
MI000322	Belle Isle Beach	821490	Belle Isle Beach	WAYNE	155380	09-15-2010	12:00:00	-	Sample-Routine	Escherichia coli

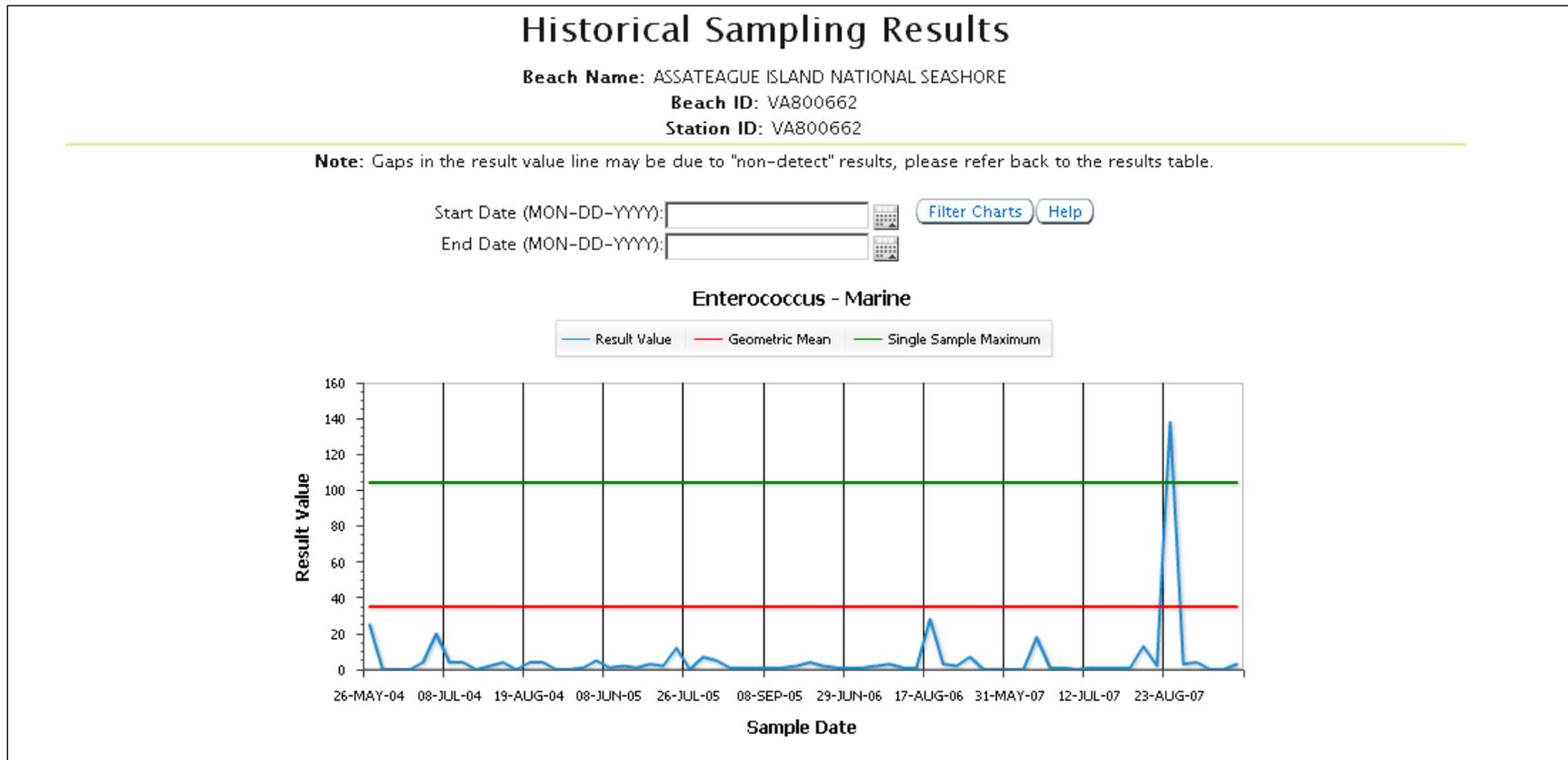
Note: In order to navigate to the historical sampling results graph (Exhibit 49), you must click on the hyperlink in the Station ID column of this report. The next page will display graphs relating to station ID's water quality data. The below exhibit shows the columns you would see when scrolling to the right for this report. There is a known data issue for certain states not returning in this report. The issue will be resolved in the next BEACON 2.0 patch. These states/territories include: NH, NY, FL, and AS.

For more details on how to configure Water Quality reports directly from STORET, please see the guidance at: http://water.epa.gov/grants_funding/beachgrants/upload/storetinstructions.pdf

Exhibit 48. Water Quality – 2 of 2.

<u>Result Value</u>	<u>Result Comment</u>	<u>Activity Depth Value</u>	<u>Activity Depth Unit Code</u>	<u>Sample Collection Method Identifier</u>	<u>Sample Collection Method Name</u>	<u>Field Gear</u>	<u>Result Analytical Method Name</u>	<u>Result Analytical Method Identifier</u>	<u>Result Analytical Method Identifier Context</u>	<u>Result Analytical Method Qualifier Type Name</u>	<u>Analysis Date Time</u>	<u>Detection Quantitation Limit Description</u>	<u>Detection Quantitation Limit Measure Value</u>	<u>Detection Quantitation Limit Measure Unit Code</u>
0	-	-	-	-	-	Water Bottle	USEPA	1103.1	U.S. Environmental Protection Agency	USEPA	-	-	-	-
24.01	-	-	-	-	-	Water Bottle	USEPA	1103.1	U.S. Environmental Protection Agency	USEPA	-	-	-	-
1	-	-	-	-	-	Water Bottle	USEPA	1103.1	U.S. Environmental Protection Agency	USEPA	-	-	-	-

Exhibit 49. Historical Sampling Results Graph.



APPENDIX B – DETAILED REVISION HISTORY

Users Guide Version	Date	Page Number	Description of Changes
1.0	1/24/2012	N/A	Initial version.
1.1	11/29/2012	p. 39	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	pp. 58-59	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. The screenshots for Exhibit 47 and Exhibit 48 were updated in the User's Guide to reflect the change.
1.1	11/29/2012	pp. 24-26	BEACON 2.0 Report Description changes - Minor text changes to the Description for several of the BEACON Reports on Step 3. Descriptions were changed in the User's Guide.
1.1	11/29/2012	About BEACON Web Page	Fixed a typo on the About BEACON page (line 2 "state-reported2").
1.1	11/29/2012	p. 46	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	p. 27	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	pp. 58-59	Water Quality report date formats - Water Quality report date format was changed to year-month-day format.
1.1	11/29/2012	Water Quality Report	Fixed Water Quality report headers to not display HTML elements.
1.1	11/29/2012	Beach Profile Report	In the Beach Profile report, "off season monitoring frequency" was displaying the same values as "swim season monitoring frequency." This was corrected in the Beach Profile report.