Marine Routine Survey_General Users

Intro: Beach Location Information

Fill in what you can. Required fields have a red asterisk.

Beach Name*

If available, enter the beach name as it is labeled on the sampling location map (below).

Beach ID

Beach ID is a unique identifier assigned by EPA to beaches receiving BEACH Act grants. To search for Beach ID, go to the Beacon 2.0 website and enter the Beach Name.

Sampling Station ID

Sampling Station ID is a unique identifier assigned by state/tribal program in WQX as monitoring location identifiers, including those for beaches in the BEACH Act program To search for Sampling Station ID, go to Water Quality Portal.

WQX Organizational ID

The Water Quality Exchange (WQX) Organization ID is required for all organizations submitting data through the WQX Web. This ID is unique from any previous STORET Org IDs. To determine if your organization has a WQX Org ID, search the 'Organization ID' field in the Water Quality Portal at Water Quality Portal.

Surveyor Name*

Surveyor Affiliation*

Date & Time of Survey*

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Sampling Location

Allow the Survey123 application to access your device's location or click on the map to mark your location. Use the map with your device to select a location. The coordinates will be calculated from this point.

Lat: ° Lon: °

Sample Point Longitude

Calculated from map.

Sample Point Latitude

Calculated from map.

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Part 1: Weather & General Beach Conditions

Weather Conditions

Weather Observations
Describe the weather using the method of your choice. If necessary, you may use the National Weather Service or your records.

Air Temperature

Air Temperature Unit
Select the unit used to measure the air temperature.

- °C
- °F

Air Temperature Result
Display the previous entries together.

Method for Air Temperature

- Liquid-in-glass thermometer
- Electronic thermometer
- Weather report from local airport
- Weather report from local weather station
- Weather app
- Other

Wind Speed

Wind Speed Unit

- mph
- km/hr
- m/s
- ft/s
- knots
- Other

Wind Speed Result
Display the previous entries together.

Wind Flow

- onshore
- offshore

Wind Direction
Direction from which the wind is coming.

- N
- NE
- E
- SE
- S
- SW
- W
- NW

Method for Wind Speed

- Wind sock for direction
- Wind sock for direction and speed
- Anemometer for wind speed
- Aerovane for wind direction and speed
- Weather report from local airport
- Weather report from local weather station
- Weather app
- Beaufort Scale
- Other

Last Rain Event
How recent was the last rain?

- 0-24 hours
- 24-48 hours
- 48-72 hours
- 72+ hours

Last Rainfall Total
Enter total measured (only).

Last Rainfall Total Unit
Choose unit for last rainfall measurement.

- Inches
- Centimeters

Last Rainfall Result
Display the previous entries together.

Intensity of Last Rain
Select one.

- Misting
- Light Rain
- Moderate Rain
- Heavy Rain
- Other

Method for Rainfall

- Rain gauge
- Weather report
- Weather app
- Other

What is the distance to the gauge or station when recording the rainfall amount?

What units is the distance measurement in?

- Kilometers
- Miles

Sky Condition
Describe the predominant/average sky condition.

- Sunny (No Clouds)
- Mostly Sunny (1/8 to 2/8 Coverage)
- Partly Sunny (3/8 to 1/2 Coverage)
- Mostly Cloudy (5/8 to 7/8 Coverage)
- Cloudy (Total Coverage)

Method for Weather Conditions

- Visual observations
- Other

Beach Conditions

Wave Intensity
What are the waves like right now. Normal wave intensity is a wave 1-2 feet in height (estimated).

- Calm (no waves)
- Normal (1-2 ft high, estimated)
- Rough (>2 ft high, estimated)

Wave Height
How tall are the waves?

Wave Height Unit

- Meters
- Feet

Wave Height Value Type
Is wave height measured or estimated?

- Measured
- Estimated

Method for Wave Height

- Visual examination of wave height
- Graduated stick and ranging pole
- Other

Tides
Select one tide.

- High Tide - the highest level of the tide (high water)
- Low Tide - the lowest level of the tide (low)
- Spring Tide - observed high tides are higher and low tides are lower than average (occurs when moon is at new phase & full phase)
- Neap Tide - observed high tides are a little lower and low tides are a little higher than average (occurs during the first and third quarter moon, when the moon appears "half full"
- Other

Tidal Currents
Select the currents.

- Ebb Current - an outgoing tide
- Flood Current - an incoming tide
- Other

Reference Point
Describe the reference point. (e.g., time [hours] since last high tide)

Tide Orientation
Is the tide moving towards or away from the beach?

Longshore Speed
Use Line Method of how to estimate longshore speed.

Longshore Speed Unit

- mph
- km/hr
- m/s
- ft/s

Longshore Direction

- N
- NE
- E
- SE
- S
- SW
- W
- NW

Method for Longshore Current Speed

- Stick with fishing reel with water balloon on end
- Ball and leather
- Other

Longshore Comments
Describe longshore currents.

Rip Currents
Are there rip currents present?

- Yes
- No

Rip Current Notes
Describe the rip currents.

Weather Observations
Additional weather observation notes here.

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Part 2: Water Quality

Bacteria

In this section you can list bacteria samples collected at the beach and potential pollution sources. If applicable can be recorded in Part 4, Potential Pollution Sources. Multiple samples can be recorded in this section. Number of records is limited to 10.

Are water samples being collected for analysis?

- (●) Yes
- ( ) No

To record bacteria samples, click the arrow (▶) below to expand the Bacteria Samples section if necessary.

Bacteria Samples

Sample Point

Sample Number

Date & Time of Sample

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Sample Point GeoLocation
Use the map with your device to select a location for the water quality sampling. The coordinates will be calculated from this point.

Sample Point Longitude
Calculated from map.

Sample Point Latitude
Calculated from map.

Parameter
Fecal indicator bacteria being measured.

- [ ] E. Coli
- [ ] Enterococci
- [ ] Fecal coliform
- [ ] Other

Sample Comments
Provide additional information on the sample.

Press the arrow below to add additional locations.

General Water Quality

Water Temperature (C or F)
What was the water temperature at time of sampling?

Water Temperature Unit
Select the unit used to measure the water temperature.

- ( ) °C
- ( ) °F

Water Temperature Result
Displays two previous entries together.

Method for Water Temperature

- ( ) Multiprobe
- ( ) Electronic meter
- ( ) Graduated thermometer
- ( ) Report from local radio station
- ( ) Report from NOAA weatherband radio
- ( ) Other

Water Color

- ( ) Clear
- ( ) Blue
- ( ) Brown
- ( ) Green
- ( ) Red
- ( ) Other

Water Color Change
Has the water color changed since the last visit?

- ( ) Yes
- ( ) No
- ( ) Don't know

Water Odor
Select the best description of the smell.

- ( ) None
- ( ) Septic
- ( ) Algae
- ( ) Sulfur
- ( ) Other

Odor Notes
Describe more about the water odor.

Measured pH

Measured Oxidation Reduction Potential (ORP)

Measured Total Dissolved Solids (TDS)

How did you measure turbidity?

- ( ) Observed
- ( ) Measured

Water Turbidity Measurement Type
What method was used to measure the turbidity of the water?

- ( ) Simple visual observation
- ( ) Visual test kit
- ( ) Titrimetric test kit
- ( ) Nephelometer/Turbidimeter
- ( ) Other

Salinity

- ( ) 0-3 ppt
- ( ) 3-15 ppt
- ( ) 15-40 ppt
- ( ) Conductivity

Measured Dissolved Oxygen (DO)

Measured Total Suspended Solids (TSS)

Water Quality Values & Measurements
Describe other measurements taken and report values.

Water Quality Comments
Enter additional water quality observations here.

Water Quality Images

Press the "+" button below to add additional images.

Add Images to Document Water Quality
Use your device's camera to take a photo, or upload an existing photo.

Select image file

Describe Image
Add explanatory notes about this image.

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Part 3: Bather Load (# Beach Users)

Are there bathers or recreators (swimmers, boaters, waders, etc.) present at the beach or water body?

- (●) Yes
- ( ) No

Total People in Water

Total People Out of Water

Total People At Beach
Autopopulated from previous two entries.

Total Number of Boats

To report activities observed at the beach, click the arrow (►) below to expand the Activities section if necessary. Number of records is limited to 10

List of Activities Seen (optional)

1

Press the "+" button below to add additional records.

Activities Type
Select an activity from the list, or choose "Other" to specify additional activities.

- ( ) Swimming
- ( ) Wading
- ( ) Sunbathing
- ( ) Surfing
- ( ) Paddle Boarding
- ( ) Parasailing
- ( ) Diving/Snorkeling
- ( ) Fishing
- ( ) Boating
- ( ) Other

Approximate number of people participating in this activity.

Comments and Observations about this activity.

Press the "►" button below to add information for another activity.
Limited to 10 per survey.

Bather Load Comments Or Observations
Describe notable bather activities that could affect water quality. For example, babies in disposble diapers in water.

Method for Numbers of People Participating in Various Activities

- ( ) Counting by surveyor
- ( ) Counting by lifeguards
- ( ) Photos
- ( ) Turnstyles
- ( ) Other

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Part 4: Potential Pollution Sources

In this section, identify visible sources of pollution up to 300 feet from the beach. Photograph and describe the pollution, specify the source and the volume required to call a beach closure.

Discharge Source *

Press the "+" button below to add additional records.

Discharge Source Type
Select one of the following options.

- Pipe
- Ditch/Canal
- Drain
- Trashing, dumpsters, stack, stack
- Trash Dumping (of trash, bulky/yard waste, etc)
- Stormwater, Inlet/Outfall
- Other

Discharge Source Name
Enter a name for the discharge source.

Discharge Source Amount
Enter the amount of discharge source in gallons per minute.

- 0-50
- 50-500
- 500-5K
- 5K

Discharge Flow Rate
Enter the flow rate in cubic feet per second (cfs) or gallons per minute (gpm) that best describes the discharge.

cf

Discharge Flow Rate Unit
Enter the unit of measure for the discharge flow rate (cfs or gpm).

- cfs
- gpm

Discharge Flow Rate Result
Flow rate in cubic feet per second (cfs).

Discharge Source Volume
Enter the volume of discharge in gallons.

gf

Discharge Source Volume Unit
Enter the unit of measure for the discharge volume.

- gf

Discharge Source Volume Result
Volume in gallons (gf).

Discharge Source Characteristics
Enter the characteristics of the discharge.

Add Images to Document Discharge Source
Click on the camera icon to take a photo or select an existing photo.

Select Image File

Describe Image
Provide additional details about the image.

Save

Add a pin collect samples and complete the Bacteria Sampling section in the next section.

- Yes
- No

Method for Identifying Potential Sources of Discharge
Select one or more of the following options.

- Visual Indication
- Dry/Wet Weather Flow
- Other

Method for Flow Velocity or Volume
Select one or more of the following options.

- Timing the Flow
- Other
- Volume Meter
- Dry/Wet Weather Flow
- Visual Indication
- Other

Are kids ponds present?

- Yes
- No

If yes, how many:

Total Pools Acreage (use decimals)

Floatables and Debris

Are floatables present in the water?

- Yes
- No

Select the floatables found (examples below) in the water:

- Wood (two by, lumber/timber)
- Foam (styrofoam/foam, pool/dock, insulation)
- Plastic (bottles, jug, packaging, containers)
- Metal (cans/can, wire, springs)
- Biological (wrapping, medical, tampons)
- Textiles (clothing, rags, carpet, shoes)
- Rubber (tires/tube, hose, belts, balls)
- Paper (cardboard, newspaper/magazine, other/bags)
- Other

Method for Determining Floatables Present
Select one or more of the following options.

- Visual Indication
- Visual and Gauge
- Other

Is there debris or litter present on the beach?

- Yes
- No

Select the Amount (%) of Beach Debris/Litter on Beach:

- None
- Less than 25%
- Between 25-75%
- More than 75%

Select the debris/litter found (examples below):

- Wood (two by, lumber/timber)
- Foam (styrofoam/foam, pool/dock, insulation)
- Plastic (bottles, jug, packaging, containers)
- Metal (cans/can, wire, springs)
- Biological (wrapping, medical, tampons)
- Textiles (clothing, rags, carpet, shoes)
- Rubber (tires/tube, hose, belts, balls)
- Paper (cardboard, newspaper/magazine, other/bags)
- Tar Balls (eg. tar balls)
- Oil/Sheen (eg. oil/slick)
- Bacteria/Algae (algae, bacteria, etc.)
- Other

Method for Determining Amount or Type of Debris/Litter
Select one or more of the following options.

- Visual Indication
- Visual and Gauge
- Other

Algae

Is algae present in the nearshore water and/or beach?

- Yes
- No
- Not Sure

Select the Amount (%) of Algae in Nearshore Water:

- None
- Less than 25%
- Between 25-75%
- More than 75%

Select the Amount (%) of Algae on Beach:

- None
- Less than 25%
- Between 25-75%
- More than 75%

Method for Determining Amount & Color of Algae in Nearshore Water or Beach
Select one or more of the following options.

- Visual Indication
- Other

Select the Types of Algae Found:
Select one or more of the following options.

- Brown (Macrocystis/Giant kelp, sargg)
- Green (Algae/Lettuce/Ulva, sargg)
- Other

Select the Color of Algae Found:
Select one or more of the following options.

- Light Green
- Dark Green
- Brown
- Black
- Red
- Yellow
- Other

Is the nearshore water discolored?

- Yes
- No
- Not Sure

If Yes, Specify Color Found:

- Red
- Green
- Brown
- Black
- Yellow
- Other

Harmful Algal Blooms (HABs)

Is there presence of a harmful algal bloom?

- Yes
- No

If yes, describe:

Method for Identifying HABs in Nearshore Water and Beach
Select one or more of the following options.

- Visual Indication and Gauge
- Other

Are there nuts or scum in nearshore waters?

- Floating
- Other
- Foam
- Other

Attach Photo

Select Image File

Are there dead fish or other dead wildlife deaths present with bloom?

- Yes
- No

**Have any Women (e.g., Jelly, Moon, Sea), Lion's Mane, Portuguese Man of War, Sea Nettle, Sea Wasp, Sea Lettuce, Sea Sponge, Sea Pickle, Sea Cucumber, Sea Hare, Sea Slug, Sea Squirt, Sea Urchin, Sea Star

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Quality Assurance Project Plan (QAPP) Requirement

A Quality Assurance Project Plan (QAPP) is Tier 2 data that is required in conjunction with submitting data through this application. You must attest that the data collected in this survey using an approved QAPP.

Will the data collected use an approved QAPP?*

- ○ Yes
- ○ No

Please Provide a Link to the Approved QAPP*

A link is preferred but if you do not have a link, you can send your QAPP to EPA_SanitarySurveyApp@epa.gov. Include in the field below "QAPP will be emailed to EPA."

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