Freshwater Routine Survey_General Users

General Information

Fill in what you can. Any question without a red asterisk can be skipped.

Waterbody Type*

Select the waterbody type for the survey

- ○ Lake (including Great Lake)
- ◉ River or stream

Beach/Waterbody 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(s)/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.

Survey Date and Time*

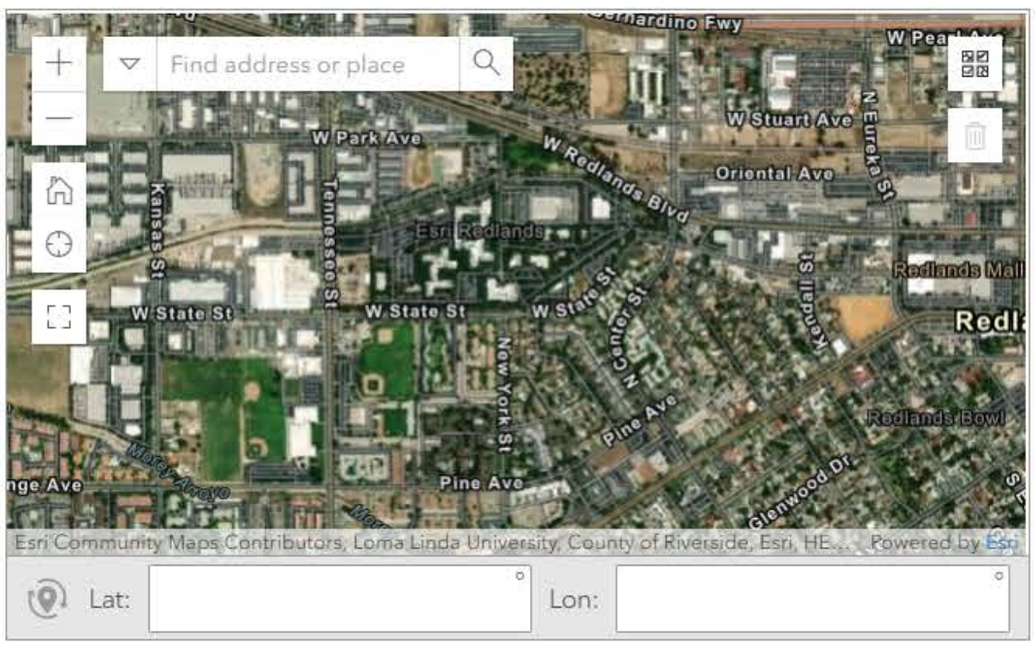
7/28/2020 | 02:46 PM

Surveyor Name*

Surveyor Affiliation*

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.

Next

Page 1 of 6

Part 1: Weather & General Waterbody Conditions

Weather Conditions

To map the weather using the method of your choice. If necessary, you may use the National Weather Service or your nearby.

Air Temperature

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

- (•) °C
- ( ) °F

Air Temperature Result
Displays two previous entries together.

0

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
- ( ) kts
- ( ) m/s
- ( ) knots
- ( ) Other

Wind Speed Result
Displays two previous entries together.

Wind Direction
Direction from which the wind is coming

N NE E SE S SW W NW

Wind Gust Speed
Speed of wind gusts

Wind Gust Speed Unit

- ( ) mph
- ( ) km/hr
- ( ) knots
- ( ) Other

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
- [ ] Anemometer for wind speed
- [ ] Weather app
- [ ] 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 rainfall

Last Rainfall Total Unit
Choose unit for last rainfall measurement

- ( ) Inches
- ( ) Centimeters

Last Rainfall Result
Displays two 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 was your distance to the gauge or station when recording

What units is your distance measurement in?

- ( ) Miles
- ( ) Kilometers

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
- ( ) Weather app
- ( ) Other

Comments/Observations
Add additional comments for weather conditions

Waterbody Conditions

Water Flow Speed

Water Flow Speed Unit

- ( ) mph
- ( ) km/hr
- ( ) kts
- ( ) m/s
- ( ) knots

Method for Water Flow Speed

- ( ) Bird with fishing rod with water balloon on end
- ( ) Ball and twitter
- ( ) Other

Is the stream bank/shoreline eroding?

- (•) Yes
- ( ) No

Width of Riparian Vegetation on River/Stream Left (Looking Downstream)

- ( ) None
- ( ) 0-25 feet
- ( ) 25-50 feet
- ( ) 50+ feet

Width of Riparian Vegetation on River/Stream Right (Looking Downstream)

- ( ) None
- ( ) 0-25 feet
- ( ) 25-50 feet
- ( ) 50+ feet

Comments/Observations
Add additional comments for general waterbody conditions

Aquatic Organism Passage Barrier per Southeast Aquatic Resources Partnership (SARP)

Instructions: For each SARP barrier, measure the outlet drop from the lip of the outlet to the water surface below. If there is no plunge pool or pool, the maximum depth of a flow. Press the "+" button below to add additional records to document multiple barriers.

SARP Barrier 1

What is the outlet drop?
(e.g., 3.5 feet)

Please indicate the severity of any barrier of debris, sediment or rock for the barrier with the least amount of debris.

- ( ) None
- ( ) Minor - <10% open area of structure blocked
- ( ) Moderate - 10-50% open area of structure blocked
- ( ) Severe - 50% open area structure blocked

SARP Barrier Location
Allow the Survey123 application to access your device's location or click on the map to input your location. Use the map with your device to select a location.

Lat Lon

Add Images to SARP Barrier
Add your device's camera or video activate, or upload an existing photo.

Press here to choose image file. (< 10MB)

Describe Image
Add explanatory notes about this image.

Comments/Observations
Add additional comments for SARP

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Part 2: Water Quality

Are water samples being collected for analysis?

- (●) Yes
- ( ) No

Bacteria

In this section you can list bacteria samples collected at the waterbody or 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.

Bacteria Samples

1

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

Sample Point

Sample Number

Date and Time of Sample

7/28/2020 | 02:46 PM

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.

Lat: | Lon:

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

Temperature Unit

- ( ) °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

How did you measure turbidity?

- ( ) Measured
- ( ) Observed

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

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

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

Water Quality Comments
Enter additional water quality observations here

Water Quality Images

1

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.

Press here to choose image file. (<10MB)

Describe Image
Add explanatory notes about this image.

Freshwater Routine Survey_General Users

Part 3: Bather Load (# of 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

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
- ( ) Sunbathing
- ( ) Surfing
- ( ) Paddle boarding
- ( ) Parasailing
- ( ) Diving/Snorkeling
- ( ) Fishing
- ( ) Boating
- ( ) Wading
- ( ) 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
Add additional comments to describe notable bather activities. For example, "babies in disposable diapers in water".

Method for Number of People Participating in Various Activities

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

Images

Bather Load Images

1

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

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

Press here to choose image file. (<10MB)

Describe Image
Add explanatory notes about this image.

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Freshwater Recreation Survey_Observer Update

Part 4: Potential Pollution Sources

In this section, identify visible sources of pollution or any HAB that have been observed in the waterbody. Please include photos and describe the impacts observed and approximate extent of impact and size.

Discharge Sources

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

Discharge Source Type
What is the discharge type? (Is the potential pollution source?)

- Pipe
- Ditch/Channel (e.g., stormwater, sewer, etc.)
- Land (runoff from land/farming activities)
- Farm (e.g., livestock, crop, pesticides)
- Industrial (e.g., manufacturing, refineries)
- Other

Discharge Source Name

Discharge Source Amount
What is the discharge amount?

- High
- Medium
- Low

Discharge Flow Rate
Please estimate or compare to some of the volume in each flow rate bottles.

Discharge Flow Rate Unit
What is the flow rate unit? (Liters/sec, Gallons/sec, Cubic meters/sec)

Discharge Source Volume
What is the discharge volume?

Discharge Source Volume Unit
What is the volume unit? (Liters, Gallons, Cubic meters)

Discharge Source Volume Result
What is the volume in cubic meters?

Discharge Source Characteristics
Describe the discharge source characteristics

Add Images to Document Discharge Source
Add images to document the discharge source (Max 10 images)

Drag Drop Images or Click to Upload (.png, .jpg, .jpeg)

Describe Image
Describe the image and what it shows

Save | Cancel

Which of the pollution sources are present? Select "Observer Complete" sections in order.

- Yes
- No

Method for Identifying Potential Sources of Discharge
Identify the potential pollution source

- Visual observation
- GPS/Photo/Video/Mapping
- Other

Method for Flow Velocity or Volume
Identify the method for flow velocity or volume

- Stopwatch/Flow meter
- Bucket/Flow meter
- Drifting/Floating objects
- GPS/Video/Mapping
- Visual estimation/Flow meter
- Other

Floatables and Debris

Are Floatables present in water?

- Yes
- No

Select the Floatables Found

- Foam/Styro (e.g. cup/plate/filter)
- Plastic/Rubber (e.g. bottles/bags/packaging)
- Metal (e.g. cans/jars/ aluminum)
- Textiles/Clothing (e.g. shoes/gloves/rags)
- Paper/Cardboard (e.g. boxes/cartons/ etc.)
- Fishing/Hunting (e.g. fishing line/ bait/ etc.)
- Other

Method for Determining Floatables Present

- Visual observation
- Photo/Video/Mapping
- Other

Is there debris or litter present on Beach/Shore?

- Yes
- No

Select the Amount of Debris/Litter on Beach/Shore

- None
- Low (<50%)
- Moderate (>50%)
- High (>50%)

Select the Debris/Litter Found

- Foam/Styro (e.g. cup/plate/filter)
- Plastic/Rubber (e.g. bottles/bags/packaging)
- Metal (e.g. cans/jars/ aluminum)
- Textiles/Clothing (e.g. shoes/gloves/rags)
- Paper/Cardboard (e.g. boxes/cartons/ etc.)
- Fishing/Hunting (e.g. fishing line/ bait/ etc.)
- Other

Method for Determining Amount and Type of Debris/Litter

- Visual observation
- Photo/Video/Mapping
- Other

Algae

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

- Yes
- No

Select the Amount (%) of Algae in Waterbody Water

- None
- Low (<50%)
- Moderate (>50%)
- High (>50%)

Select the Amount (%) of Algae on Beach

- None
- Low (<50%)
- Moderate (>50%)
- High (>50%)

Method for Determining Amount and Color of Algae in Waterbody Water and Beach

- Visual observation
- Other

Select the Types of Algae Found
Select all that apply

- Macroalgae (attached to rocks, strings)
- Microscopic/Floating algae (suspended in water)
- Floating/Rooted aquatic plants (visible/attached)

Select the Color of Algae Found
Select all that apply (Green, Brown, Red, Blue, Yellow, Black, Clear, Other)

- Green
- Brown/Yellow
- Red/Orange
- Black
- Clear
- Other

Is the waterbody water discolored?

- Yes
- No
- Not Known

Harmful Algal Blooms (HABs)

Is there presence of a harmful algal bloom?

- Yes
- No
- Not Known

If Yes, Describe

Method for Identifying HABs in Waterbody Water and Beach

- Visual/aerial observation/ microscopic identification
- Other

If yes, are there reports or cases in case illness suspect?

- Yes
- No
- Not Known

Attach Photo

Drag Drop Images or Click to Upload (.png, .jpg, .jpeg)

Are blue-green algae or other algal exhibits present in waters with recreation?

- Yes
- No

Have any health illnesses (e.g., itchy throat, cough, gastrointestinal) been reported by local or public health organizations?

- Yes
- No
- Not Known

If Yes, describe and provide source of illness data (specify)

Is algal toxin monitoring conducted?

- Yes
- No
- Not Known

If yes, have algal toxins been detected?

- Yes
- No
- Not Known

Have algal species been identified?

- Yes
- No
- Not Known

If Yes, Specify Species

Presence of Wildlife and Domestic Animals

Are wildlife and domestic animals present?

- Yes
- No

Specify Wild Animals and Poultry
Select all that apply (Bird, Mammal, Amphibian, Reptile, Insect, Other)

- Geese
- Ducks
- Gulls
- Swans
- Herons
- Turkeys
- Crows
- Pigeons
- Sparrows
- Other
- Bears
- Deer
- Moose
- Otters
- Foxes
- Frogs
- Turtles
- Other

Method for Determining Presence of Wildlife and Domestic Animals

- Visual observation/ Photo/Video/Mapping
- Other

Presence of Dead Birds

Are dead birds present?

- Yes
- No

Select the Species that were Found Dead on the Beach
Select all that apply (Gulls, Geese, Ducks, Herons, Other)

- Herring Gulls
- Ring-billed Gulls
- Common Loons
- Canada Geese
- Long-tailed Ducks
- American Black Ducks
- Great Egrets
- Red-breasted Mergansers
- Common Eiders
- Great Blue Herons
- Mallards
- Other

Method for Determining Number of Dead Birds

- Visual count
- Other

Method for Identifying Dead Birds

- Visual count/ Photo/Video/ Microscopic identification
- Other

Presence of Dead Fish

Are dead fish found in the waterbody or at the beach?

- Yes
- No

Specify number of dead fish found on beach or non-waterbody

Method for Determining Number of Dead Fish

- Visual count
- Other

Method for Identifying Dead Fish

- Visual count/ Photo/Video/ Microscopic identification
- Other

Images

Algae, HABs and Animal Images

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

Add Images to Document Algae, HABs And/Or Animals
Add images to document algae, HABs and/or animals (Max 10 images)

Drag Drop Images or Click to Upload (.png, .jpg, .jpeg)

Describe Image
Describe the image and what it shows

Save | Cancel

Potential Pollution Sources Additional Comments or Observations

Save | Cancel | Next Section

Freshwater Routine Survey_General Users

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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