



PART 1: BASIC INFORMATION

Name of beach (if applicable):		Date(s) of survey:
Beach ID:		Time(s) of survey:
City/County/State:		Name of waterbody:
Sampling station(s)/ID:		Number of routine surveys used:
WQX organizational ID:		Name(s) of surveyor(s):
Waterbody type:		Surveyor affiliation:
Sampling location	Latitude:	Longitude:
Dates of swim season	Start:	End:

PART 2: QUALITY ASSURANCE

Will the data collected use an approved Quality Assurance Project Plan (QAPP)? yes no

PART 3: DESCRIPTION OF LAND USE IN THE WATERSHED

Current Land Use in the Watershed

Type	Residential	Industrial	Commercial	Agricultural	Other (specify): _____
Percentage					
% Impervious					
Development	% Undeveloped:		Describe:		
	% Developed:		Describe:		

How was land use measured:

Waterbody uses: (circle all that apply) Boating Fishing Surfing Windsurfing Diving Other (specify): _____

Are maps of the swimming area attached? yes no Are maps of the watershed attached? yes no

List maps and their sources:

Do the maps include locations of the following key features: (circle yes/no). We recommend taking photographs to document structures.

Sample points	yes	no	Describe:
Hydrometric network*	yes	no	Describe:
Pollutant sources	yes	no	Describe:
Boat traffic	yes	no	Describe:
Marinas	yes	no	Describe:
Boat dockage	yes	no	Describe:
Fishing	yes	no	Describe:
Bathing/swimming	yes	no	Describe:

Do the maps include locations of the following bounding structures (circle yes/no):

Jetty	yes	no	Describe:
Groin	yes	no	Describe:
Seawall/bulkhead	yes	no	Describe:
Other bounding structure	yes	no	Describe:
Sanitary facilities	yes	no	Describe:
Restaurants/bars	yes	no	Describe:
Playgrounds	yes	no	Describe:
Parking lots	yes	no	Describe:
Other relevant locations	yes	no	Describe:

*This is a network of monitoring stations that collect data such as rainfall and stream flow



Erosion/Accretion Measurements (as needed)

Is there erosion/accretion at the shoreline? yes no Are the high watermark location measurements needed? yes no

High Watermark Location Identification	Fixed Object Description (e.g., tree, building)	GPS Reading	Distance from Fixed Object to High Watermark (ft/m)	Distance between High Watermark Locations (ft/m)
A				A↔B:
B				B↔C:
C				C↔D:
D (optional)				D↔E:
E (optional)				

Shoreline Hardening and Circulation Control Structures (as needed)

Are there shoreline hardening and circulation control structures? yes no If yes, describe below:

Structure	Number	Description or Comment (include linear extent and width)
Jetty		
Groin		
Seawall		
Natural formation		
Pier		
Other (specify): _____		

Discuss whether shoreline hardening or circulation control structures are likely to affect water quality circulation and thus bacteria concentrations in the water (list relevant studies and their sources, if available):

Beach Materials/Sediments

Beach materials that apply or report beach materials/sediment lab analysis conducted below: (check all that apply)

Sandy Mucky Rocky Other (specify): _____

Additional description of beach materials/sediment, if needed:

OR Beach Materials/Sediments Lab Analysis (use a map or photographs to document plot locations)

Were beach materials/sediments sampled and analyzed? yes no If yes, detail in this section

Name of lab used:

Date of sample collection:

Plot ID	Mean Grain Size Diameter** (mm/in)	Uniformity Coefficient**	Description of Plot Location
Average			Total number of samples:

**Report results from the lab

Describe the results and conclusion of the sediment analysis and potential effects of the sediment distribution at this beach:



Photos Taken in the Swimming Area or Surrounding Watershed (attach copies of photos)

Image Number	Date/Time	File Name	Description of Photo (e.g., Land Use, High Watermark, Fixed Objects, Pollution Sources, Tide Pools)

Habitat around the swim area: (check all that apply)

- Dunes River/Stream Urban/Boardwalk Park Other (specify): _____
 Wetlands Forest Protected habitat or reserve Parking

PART 4: WEATHER CONDITIONS AND PHYSICAL CHARACTERISTICS

Weather Conditions and Physical Characteristics

Examine the weather data collected over the prior swim season(s) along with bacteria sampling results. Do the bacteria concentrations at this swimming location appear to correlate with any of the following? (circle yes/no and include the r value if calculated)

	yes	no	Describe:
Rainfall			
Air temperature			
Water temperature			
Cloud cover			
Wind speed			
Wind direction			
Wave direction			
Wave height or intensity			
Stream flow			
Other weather			

Have any statistical analyses been done to calculate the degree of correlation? yes no

If yes, describe:

Average air temperature during swim season: _____ °C or °F	Average water temperature during swim season: _____ °C or °F
Average wind speed during swim season: _____ (mph or km/h)	Average wind direction during swim season: _____

Typical weather condition (circle one):	Total rainfall (in/cm)
Spring: Sunny Mostly Sunny Partly Cloudy Mostly Cloudy Overcast Rainy	
Summer: Sunny Mostly Sunny Partly Cloudy Mostly Cloudy Overcast Rainy	
Fall: Sunny Mostly Sunny Partly Cloudy Mostly Cloudy Overcast Rainy	
Winter: Sunny Mostly Sunny Partly Cloudy Mostly Cloudy Overcast Rainy	

Total rainfall for the swim season: _____ (in/cm)	Does rainfall intensity correlate with bacteria sample results? yes no If yes, explain:
Average rainfall for the swim season: _____ (in/cm)	

Number of significant rain events during swim season: _____

What constitutes "significant?" (significant may include intensity and duration; e.g., 1 inch in 6 or fewer hours): _____

Additional comments/observations: _____



PART 5: BEACH/ShORELINE DIMENSIONS

Draw and annotate a printed map to detail beach/shoreline dimensions and key structures.

Beach/shoreline length or dimensions (indicate Z1, Z2, and Z3 on a map for each beach area)

Total beach/shoreline length (ft/m): _____ Average beach/shoreline width (average setback, ft/m): _____

Width Z1 (ft/m): _____ Width Z2 (ft/m): _____ Width Z3 (ft/m): _____

Local water level variation: _____ ft or m

Hydrographic influence (e.g., seiches): _____

Characterize any longshore or nearshore currents and their potential effects based on bacteria sampling results: _____

Approximate beach/shoreline slope at the swimming area (%): _____

Describe the splash zone at the beach/shoreline (include sediment makeup, rate of erosion, presence of seaweed wrack): _____

Description and date of last beach/shoreline rehabilitation (examples: new sand, nourishment, dredging; physical structures will be described in Parts 13 and 14): _____

Additional comments or observations: _____

PART 6: People

Is the number of people measured? yes no If yes, describe how number of people are calculated (e.g., turnstile, counting at noon, photographs): _____

Numbers and Activities

Location of People	Number of People Per Day Using the Swim Area (Daily use)					
	Peak Use for the Season	Seasonal Average	Holiday Average	Weekend Average	Weekday Average	Off-Season Average (if applicable)
Total people in the water						
Total people out of water						
Total people						

Breakdown of Activities (if activities were broken down on the Routine-Onsite Sanitary Survey, summarize them here)

Activity 1:						
Activity 2:						
Activity 3:						
Activity 4:						
Activity 5:						
Activity 6:						

Frequency of measurements (e.g., daily, weekly, monthly): _____

Examine people data along with sampling results for the past swim season(s). Look at each sampling point or different area of the beach or shoreline (light use versus heavy use). Does the number of people appear to correlate with bacteria concentrations at any of these areas? Does the number of people in the water or out of the water correlate with bacteria concentrations? Describe statistical analysis that has been done. (add additional pages as needed, or attach a separate report if available): _____

Take any relevant photographs and provide additional comments or observations: _____



PART 7: BEACH/ShORELINE CLEANING

Description of Cleanup Activities (circle activities that were done, specify frequency and equipment used)

Activity	Frequency	Equipment Used	Activity	Frequency	Equipment Used
Leveling sand			Removing trash		
Removing debris			Other: _____		
Trimming or removing vegetation			Construct/Maintain a temporary pathway directly to open water		

Floatables

How often are floatables found in the water? (circle one) Never Sometimes Frequently Very frequently

Describe known sources of floatables:

Select all types of floatables found: (check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Street litter (e.g., cigarette filters) | <input type="checkbox"/> Building materials (e.g., wood/siding) |
| <input type="checkbox"/> Food-related litter (e.g., packaging/containers) | <input type="checkbox"/> Fishing-related (e.g., fishing line, nets, lures) |
| <input type="checkbox"/> Medical items (e.g., syringes) | <input type="checkbox"/> Household waste (e.g., household trash, plastic bags) |
| <input type="checkbox"/> Sewage-related (e.g., tampons, condoms) | <input type="checkbox"/> Other: _____ |

Debris

How often is beach debris/litter found on the beach or shoreline? (circle one) Never Sometimes Frequently Very Frequently

Describe known sources of debris:

Select all types of debris found: (check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Street litter (e.g., cigarette filters) | <input type="checkbox"/> Fishing-related (e.g., fishing line, nets, lures) |
| <input type="checkbox"/> Food-related litter (e.g., packaging/containers) | <input type="checkbox"/> Household waste (e.g., household trash, plastic bags) |
| <input type="checkbox"/> Medical items (e.g., syringes) | <input type="checkbox"/> Tar/Oil (e.g., tar balls) |
| <input type="checkbox"/> Sewage-related (e.g., tampons, condoms) | <input type="checkbox"/> Oil/Grease (e.g., oil slick) |
| <input type="checkbox"/> Natural debris (e.g., driftwood, algae) | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Building materials (e.g., wood/siding) | |

Additional comments or observations:

PART 8: INFORMATION ON SAMPLING LOCATION

Description of Sample Points (include points for recreational area water & potential pollution sources. We recommend taking photos to document location):

Sample Point Name/ID	Location (include lat/long)	Sample Point Description	Sample Frequency (daily, weekly, monthly)	Time of Day of Sample Collection	Tidal Stage During Sample Collection

Is the sampling tide dependent? yes no

Are any of the sample locations near a possible pollution source? yes no

If yes, describe:



Description of hydrometric network (note that this is a network of monitoring stations that collect data such as rainfall and stream flow):

Additional comments or observations:

PART 9: WATER QUALITY SAMPLING

Name of laboratory: _____ Distance to laboratory: _____ mi km (circle one)

Sample travel time: _____ minutes (What is the time between sample collection and sample arrival at the lab?)

Is there a sampling and analysis plan? yes no Is it adequate? yes no If no, explain _____

Are the sampling staff properly trained on sampling techniques, equipment maintenance, and calibration procedures? yes no

Biological Survey Results

Were invasive/nonnative species present? yes no If yes, take photographs to document presence

List any infectious snails that were found: _____

List any dangerous aquatic organisms that were found: _____

Algae

Have algae been observed on the beach or shoreline? yes no If yes, take photographs to document algae presence

Percent of swim season when macroalgae were present in significant amounts in the nearshore water: (circle one)
None Low (1%–20%) Moderate (21%–50%) High (> 50%)

Percent of swim season where macroalgae was present in significant amounts on the beach or shoreline: (circle one)
None Low (1%–20%) Moderate (21%–50%) High (> 50%)

Identify the types of algae found: (check all that apply) Periphyton (attached to rocks, stringy) Globular (blobs of floating material)
 Free floating (no obvious mass of materials) Other: _____

Algae colors: (circle all that apply) Light Green Bright Green Dark Green Yellow Brown Other: _____

Are microalgae commonly found at this location? yes no If yes, describe occurrences: _____

Harmful Algae Blooms

Harmful Algal Bloom Observations (include water and potential pollution sources):

HABs Date	HABs Duration (in days, weeks, etc)	HABs Species	Effects

Take photos and provide any additional descriptions: _____

Presence of Wildlife and Domestic Animals

Type	Degree of Presence (high medium low)	Does this presence appear to correlate with bacterial results? (yes/no)	Do people feed waterfowl? Is there any management of pet waste? Are fecal droppings frequently seen? Are there ways to reduce the presence or effects of these wild and domestic animals?
Geese			
Gulls			
Dogs			
Other (specify)			



Were significant numbers of dead birds found on the beach or shoreline during swim season? yes no If yes, describe types, numbers found, and possible causes (take photos):

Were significant numbers of dead fish found on the beach or shoreline during swim season? yes no If yes, describe types, numbers found, and possible causes (take photos):

Bacteria Samples Collected

Sampling collector (job title, agency): _____ Sampling frequency (daily, weekly, monthly): _____

Sampling time: _____ What year did you begin monitoring: _____

Did you test for: (circle yes/no)

<i>Enterococcus</i> ?	yes	no	Analytical method used:
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<i>Escherichia coli</i> ?	yes	no	Analytical method used:
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Fecal coliform?	yes	no	Analytical method used:
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Additional bacteria?	yes	no	List names and analytical method used:
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Do you composite any bacteria samples? yes no If yes, explain:

How do this past season's bacteria results compare to those of previous years?

Do the bacterial results correlate to other parameters, such as water quality, weather flow, people load, algae, or wildlife? yes no

Describe in detail analyses that were performed on the water quality data (add additional lines/pages as needed or reference a separate report):

Check all that are measured regularly Temperature Rainfall Conductivity
 pH Turbidity Other (specify): _____

Describe where water quality measurements are taken:

How does the water quality data compare to data from previous years?

Do any data correlate to bacteria sample results? yes no

Examine the water quality data collected over the prior swim season. Do the bacteria concentrations at this swim location appear to correlate with any of the following? (circle yes/no and include the r value if calculated.)

Temperature	yes	no	Describe:
pH	yes	no	Describe:
Rainfall	yes	no	Describe:
Turbidity	yes	no	Describe:
Conductivity	yes	no	Describe:
Other: _____	yes	no	Describe:

What factor (from the list above) appears to have the greatest effect on bacteria levels in the water? Describe effect. (add lines or pages as needed or attach a separate report if available)

What is the trend in water quality? (circle one) Improving Deteriorating About the same



Total number of closings issued: _____ Total number of days under an advisory: _____
 Total number of advisories issued: _____ Total number of days swim area was closed: _____
 Criteria used to issue advisory or close swim area: _____

Additional comments or observations: _____

PART 12: POTENTIAL POLLUTION SOURCES (take photographs to document pollution)

Type of Source	Level of Concern (H, M, L, or NA)	Distance to Swim Area (mi or km)	Latitude/ Longitude*	Does this source directly affect water quality (Y or N)?	Describe how this source might contribute to water pollution & frequency of contribution
Wastewater discharges					
Sewage overflows					
Septic systems					
Subsurface sewage disposal					
Stormwater outfalls					
Natural outfalls					
CAFOs or AFOs					
Wildlife					
Agriculture runoff					
Urban runoff, industrial waste					
Marinas/Harbors					
Mooring boats					
Domestic animals					
Unsewered areas					
Erosion-prone areas					
Landfills/Open dumps					
Groundwater seepage					
Drains and pipes nearby					
Stream or Wetland drainage					
Vacant areas					
Homeless encampment					
Other (specify): _____					
Other (specify): _____					
Other (specify): _____					

*If latitude and longitude are unknown, show the location on the detailed map and describe in the additional comments or observations section below.

Have potential pollution sources identified above been included on the detailed map? yes no

If yes, describe:

Given your understanding of the swimming location, which fecal pollution sources are most likely to affect the levels of bacteria in the water? If you have specific concerns about any of the fecal pollution sources as sources of specific pathogens, please describe:

Has this swim area been associated with the following? (check all that apply)

- Cases of swimmer's itch
 Outbreaks of diarrheal diseases
 High incidence of skin infection
 Other adverse health outcomes
 Other: _____

If any are checked above, please describe:



Has a TMDL for bacteria been done on this waterbody or on any that discharge to it? yes no

If yes, summarize the results and attach report:

Did you collect bacteria samples from any potential pollution sources such as streams or outfalls? yes no

Are there any discharge reports available for dischargers near this swim area? yes no

If yes, attach report or pertinent sections and summarize here, including permit limits for bacteria:

Have any sources been remediated or have steps been taken to remediate sources? yes no

If yes, describe:

Additional comments or observations:

PART 13: DESCRIPTION OF SANITARY FACILITIES

Bathhouses and Bathrooms

Total number of bathhouses and portable sanitation units (PSUs) at the swim area:

Number or ID	Type (bathhouse or PSU)	Location	Condition (good, fair, poor)	Distance from Waterline (ft/m)	Frequency of Cleaning (Daily, weekly, monthly)

How are the sanitary wastes handled? (check all that apply) Public sewers On-site treatment Septic field Pump-out
 Other: _____

Detail the number of toilets, showers, sinks, etc., and whether these facilities are adequate to support recreational use:

Trash Cans

Total number of trash cans at the swim area:

Bin Number or ID	Location	Condition (good, fair, or poor)	Distance from Waterline (ft/m)	Frequency of Emptying (daily, weekly, monthly)

Describe further, including whether number and location of trash cans are adequate to support recreational use:



PART 14: DESCRIPTION OF OTHER FACILITIES

List and, if possible, photograph, facilities in the nearby area, such as marinas, restaurants, bars, playgrounds, parking lots, etc.:

Facility Name/Type	Location	Condition (good, fair, poor)	Distance from Swim Area (ft/m)	How might this facility contribute to water quality problems?

Are there boat pump-outs nearby? yes no If yes, describe:

Additional comments or observations: