

## Comparison Table of Sanitary Survey Documents—Draft March 17, 2006

Documents included in the above tables:

1. Sanitary Survey for New York State Parks Bathing Beaches
2. Bathing Beach Sanitary Survey Risk Assessment Worksheet—New York State
3. City of Racine Health Department Beach Survey Form
4. EMB Beach Assessment Survey: Stony Brook State Park
5. Sanitary Survey Forms for Verifying Tier III Status
6. Atlantic County Health Department New Jersey Cooperative Coastal Monitory Program
7. Irvine
8. Minimum Requirements of the Sanitary Survey Report
9. Guidance Manual for Conducting Sanitary Surveys of Public Water Systems: Surface Water and Ground Water Under the Direct Influence

NOTE: All surveys requested similar general information, such as beach name, park name, location, water body, and name of person surveying. These are not included in the tables below.

<b>Part 1: Beach Setting</b>									
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>1. Description of park uses around the beach</b>	yes		yes	yes	yes		yes	yes	yes
<b>Sources of pollution</b>	yes								
<b>Description of watershed</b>	yes			yes					yes
<b>Historical land Use</b>	yes							yes	
<b>Current land use</b>	yes		yes	yes				yes	
<b>Map of area (basic, detailed, topographic, or with locations of pollution sources, etc.)</b>	yes			yes	yes		yes	yes	
<b>Photographs</b>									yes
<b>2. Description of beach</b>	yes		yes	yes	yes	yes	yes	yes	
<b>Dimensions of waterbody</b>				yes					
<b>Beach length or dimensions</b>				yes	yes				
<b>Water level variation/hydrographic influences, dilution or mixing rate</b>	yes	yes		yes					

<b>Part 1: Beach Setting</b>									
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>Slope</b>			yes		yes				
<b>Tidal range</b>					yes				
<b>Bounding structures</b>					yes				
<b>Average water temperature</b>			yes						
<b>Average air temperature</b>			yes						
<b>Weather observations</b>	yes	yes		yes		yes	yes	yes	
<b>Wind speed and direction</b>						yes			
<b>Beach materials/sediments</b>			yes		yes				
<b>3. Information on sampling station</b>			yes	yes			yes	yes	
<b>Name of and distance to lab</b>			yes						
<b>Location or map of sampling station</b>				yes				yes	
<b>Description of sampling station</b>				yes					
<b>Time of sample collection</b>						yes			
<b>Review of sampling plan</b>								yes	yes
<b>Review of equipment maintenance or calibration procedures</b>									yes
<b>Description of hydrometric network</b>							yes		
<b>4. Bather load</b>	yes		yes	yes	yes	yes		n/a	
<b>Historical average</b>	yes								
<b>Current average</b>			yes	yes	yes				
<b>Peak</b>	yes								
<b>Seasonal average</b>			yes		yes				
<b>Holiday average</b>			yes						
<b>Weekend average</b>			yes	yes					
<b>Weekday average</b>				yes					
<b>Off-season average</b>			yes						
<b>Swimmer/bather ratio</b>				yes					

<b>Part 1: Beach Setting</b>									
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>Non-bather load (fishing, clamming, etc.)</b>						yes			
<b>5. Description of water resources</b>	yes		yes	yes		yes			
<b>Location/map of uses such as boat traffic, marinas, boat dockage, canoeing, fishing, etc.</b>	yes								
<b>Checklist of uses such as boating, fishing, surfing, windsurfing, diving, etc.</b>									

<b>Part 2: Beach Operation and Maintenance</b>									
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>1. Beach operation</b>			yes	yes		yes			
<b>Beach season dates</b>				yes					
<b>Description of clean up activities</b>				yes					
<b>Litter survey (percent cover for debris, algae, tar balls, oil, trash, grease, plastic, medical waste, wrack, etc.)</b>			yes			yes			
<b>2. Bacteriological monitoring</b>	yes		yes	yes			yes		yes
<b>Biological survey results (objectionable vegetation, algal blooms infectious snails, dangerous aquatic organisms, domestic animals)</b>	yes								yes
<b>Bacteria sample results (<i>e. coli</i>, enterococcus, fecal coliform, etc.)</b>	yes		yes	yes		yes	yes		yes
<b>Sample type</b>				yes					

<b>Part 2: Beach Operation and Maintenance</b>									
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>Analytical method</b>									yes
<b>Name of sampler</b>				yes					
<b>Name of lab</b>				yes					
<b>Sampling and notification procedures</b>				yes					yes
<b>3. Other water quality monitoring (results or sampling and notification procedures, records)</b>	yes			yes		yes		yes	
<b>Color, taste, odor, floatables, etc.</b>	yes			yes					
<b>Secchi disk results</b>				yes					
<b>DO</b>				yes		yes			
<b>Temperature</b>				yes					
<b>pH</b>				yes		yes			
<b>Rainfall</b>				yes				yes	
<b>Turbidity</b>				yes					
<b>Conductivity</b>				yes					
<b>Alkalinity</b>				yes					
<b>Ammonia</b>						yes			
<b>Nitrate</b>						yes			
<b>COD</b>						yes			
<b>Salinity</b>							yes		
<b>River discharge</b>								yes	
<b>Tides</b>								yes	
<b>Wet sampling</b>				yes					
<b>4. Samples taken from storm drains</b>						yes			
<b>5. Modeling</b>	yes								

<b>Part 3. Beach Water Quality</b>									
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>1. Bacterial data analysis (history of exceedances)</b>	yes	yes		yes	yes				
<b>2. Closings</b>				yes					

<b>Part 3. Beach Water Quality</b>									
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>3. Public comments or complaints</b>				yes					
<b>4. Results from other studies on water quality, previous sanitary surveys</b>	yes			yes					yes
<b>5. Rainfall history, effects on water quality</b>		yes		yes			yes		
<b>6. Potential pollution sources (risk factor, distance from beach, etc.)</b>	yes	yes	yes	yes	yes	yes	yes	yes	
<b>Wastewater dischargers</b>		yes	yes	yes		yes	yes	yes	
<b>Sewage overflows</b>			yes	yes		yes	yes		
<b>Septic systems</b>		yes		yes					
<b>Subsurface sewage disposal</b>					yes				
<b>Stormwater outfalls</b>		yes	yes		yes	yes		yes	
<b>Natural outfalls</b>		yes							
<b>CAFOs or AFOs</b>		yes							
<b>Wildlife</b>		yes		yes	yes	yes		yes	
<b>Agriculture runoff</b>		yes		yes	yes		yes	yes	
<b>Urban runoff, industrial waste</b>		yes					yes	yes	
<b>Marinas, harbors</b>		yes	yes	yes					
<b>Mooring boats</b>		yes		yes					
<b>Domestic animals</b>				yes	yes	yes			
<b>Unsewered areas</b>				yes					
<b>Erosion-prone areas</b>				yes					
<b>Landfills, open dumps</b>				yes					
<b>Ground water seepage</b>					yes				
<b>Bathhouse leakage</b>				yes					
<b>Drains and pipes nearby</b>			yes		yes	yes			
<b>Stream or wetland drainage</b>			yes		yes	yes			
<b>Vacant areas</b>					yes				

**Part 4: Description of Sanitary and Other Nearby Facilities**

	1	2	3	4	5	6	7	8	9
<b>1. Description of sanitary facility (number, condition and location of each item, distance from beach)</b>	yes		yes	yes	yes				
<b>Toilets</b>	yes		yes						
<b>Showers</b>	yes								
<b>Sinks</b>	yes								
<b>Water fountains</b>	yes								
<b>Changing area</b>	yes								
<b>Baby-changing area</b>	yes								
<b>Litter bins</b>			yes						
<b>2. Description of other facilities</b>									
<b>Restaurants</b>			yes						
<b>Bars</b>			yes						
<b>Designated bathing areas</b>			yes						
<b>Diving areas</b>			yes						
<b>Children's play area</b>			yes						
<b>Car parks</b>			yes						
<b>3. Other items on checklists</b>									
<b>Swim safety warnings</b>			yes						
<b>Lifeguards</b>			yes						
<b>5. Last major rehabilitation</b>				yes					
<b>6. Wastewater treatment system</b>				yes					