

### GREAT LAKES BEACH ANNUAL SANITARY SURVEY

1. BASIC INFORMATION													
Name of Beach:					1	Date(s) of Survey:							
Beach ID:									Name of				
Town/City/County/State:											outine Surveys l	Jsed:	
Sampling Station(s)/ID:											urveyor(s):		
STORET Organizational ID	•								Surveyo				
31011E1 Organizational 12	•							`	Jaiveyo	7 7 11111	idion.		
2. DESCRIPTION OF LAND	) USI	E IN W	/A	ΓERSI	IED								
Current Land Use in Waters													
Type Resident	ial	I	ndı	ustrial		Comm	nercial	Ą	gricultur	al	Other (specify	<b>'</b> ):	
Percentage													
Development	Desc	cribe											
% undeveloped													
% developed													
How was land use measure	d:												
Waterbody Uses:   Boati	ng	Fi:	shiı	ng [	Sur	rfing	☐ Wind	dsurfin	g 🔲 l	Diving	g 🔲 Other (sp	pecify)	
Are maps of the beach area	atta	ched?		yes		no		Are	maps o	of the	watershed atta	ched? 🗌 yes 🔲 n	0
List maps and their sources	:												
Does the detailed map inclu	de lo	cation	S 0	f:									
Sample Points		ges		no	(exp	olain):							
Hydrometric Network		] yes		no	(ехр	olain):							
Pollutant Sources		] yes		no	(exp	olain):							
Boat Traffic		] yes		no		olain):							
Marinas		] yes		no	(ехр	olain):							
Boat dockage		ges		no	(ехр	olain):							
Fishing		ges		no	(exp	olain):							
Bathing/Swimming		ges		no	(exp	olain):							
Bounding Structures:													
Jetty		ges		no	(exp	olain):							
Groin		ges		no	(exp	olain):							
Seawall		ges		no		olain):							
Other		ges		no	` '	olain):							
Sanitary Facilities		ges		no	(exp	olain):							
Restaurants/Bars		yes		no		olain):							
Playground		yes		no		olain):							
Parking Lot(s)		yes		no		olain):							
Other		yes		no	(exp	olain):							
Erosion/Accretion Measure	ment	S											
High Watermark				oject D		•		Obj	ce from ect to H	ligh	Feet or	Distance between High Watermark	Feet or
Location Identification		(e.	g., '	tree, b	uildin	g)		W	aterma	rk	Meters?	Locations	Meters?
A												A↔B:	
В												B↔C:	
С												C↔D:	
D (optional)												D↔E:	
[ (ontional)											i i	1	1

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Bounding Struc	clures							
Bounding	Structure			Nun	nber		Description or Comment	
Jetty								
Groin								
Seawall								
Natural formati	on							
Other (specify)								
Other (specify)								
Beach Material	ls/Sediment	S:				•		
Sandy	ПМ	ıcky	, Г	ΠF	Rocky		Other:	
Or, Beach Mate	erials/Sedim	nent	s Lab A			tach di	agram or photographs of plot locations)	
	me of Lab l							
Date of Sa	ample Colle	ctio	n:					
Plot ID	Mean Gr Size Diam		r C	Inifo oeff	rmity icient	Des	scription of Plot Location:	
Average								
Describe the re	esults and co	oncl	lusion o	f the	e sedin	ent an	alysis and potential effects of the sediment distribution at this beach:	
Photos Taken i	in the Beach	า Ar	ea or Si	urro	unding	Water	shed	
Image							Description of Photo	
Number	Date/T	ime	9	F	ile Nan	ne	(Include Pictures of High Watermark Locations and Corresponding Fixed Objects)	
Habitat around	hooob.							
Habitat around								
Dunes	∨	Vetl	ands			River/st	tream	
Other:								
3. WEATHER CONDITIONS								
Examine the we	Examine the weather data collected over the prior beach season(s) along with bacteria sampling results.							
							correlate with any of the following?	
Rainfall			yes		] no	(expla	<u> </u>	
Air Temperature	<u> </u>	Ħ	yes	Ħ	no	(expla		
Water Tempera		┢	yes	ΙĦ	no	(expla		
Cloud Cover	.,	┢═	] yes	tF	no	(expla	·	
Wind Speed		┢	] yes	╁	l no	(expla		
Wind Specu Wind Direction		┢	] yes	╁⊨	l no	(expla		
Longshore Curi	rent	⊬	] yes	╁늗	no	(expla		
Wave Height or		┢	ges ges	╁	l no	(expla		
Other Weather	michally	H	] yoo	<del> </del> ⊨	] no	(ovnla		

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Have any statistical analyses been done to cal			☐ yes	☐ no	
Describe any analyses done, and any trends of	r correlations fo	ound (add lines if need	ded to descri	be in detail):	
Average air temperature during beach seesen	° C	or ° F Average wate	r tomporatur	e during beach season:	° C or °F
Average air temperature during beach season			i temperatur	e during beach season.	CULF
Average wind speed and direction during bead				о По	
Typical weather conditions:  Sunny	Mostly Sunny	☐ Partly Cloudy		Cloudy Overca	st 🗌 Rainy
Rainfall total for the beach season (in):		Average rai	nfall for all b	each seasons (in):	
Does rainfall intensity correlate with bacteria sa	ample results?	yes □ no	Describe:		
Number of significant rain events:	What constitu	tes "significant?"			
3	(e.g., 1 inch o				
Additional Comments/Observations:	1 0	,			
Additional Comments/Observations.					
4. PHYSICAL BEACH CONDITIONS					
	1.70				
Beach length or dimensions (indicate Z1, Z2, a	ing 23 on a ma		`		
Length (m):		Width (average, in n			
Width Z1 (m):	Width Z2 (m):	T		idth Z3 (m):	
Local water level variation: feet		Hydrographic influer		· · · · · · · · · · · · · · · · · · ·	
Characterize any longshore or nearshore curre	ents and their po	otential effects based	on bacteria	sampling results	
Approximate beach slope at swim area:	%				
Description and date of last beach rehabilitation		w sand nourishment	dradaina at	c nhysical structures w	ill ha dascrihad in
Sections 12 and 13):	ii (cxampic. ne	w sand, nounsilinent,	urcuging, ci	c., priysical structures w	iii be described iii
Sections 12 and 10).					
Comments/Observations:					
5. BATHER LOAD (# OF BEACH USERS)					
Is bather load measured?  yes	no				
If yes, describe how beachgoer numbers are c	alculated (i.e., t	urnstile, counting at n	oon, photog	raphs):	
	<u> </u>	<u> </u>	. 3	<u> </u>	

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Beach Use

				Number of Per	ople Per	Day Using th	ne Beach				
Danah maar Catama		Peak Use for	Seasonal	Holiday		Weekend	Weekday	Off-	Season Average		
Beachgoer Catego	ry	the Season	Average	Average		Average	Average		if applicable		
		(Daily Use)	(Daily Use)	(Daily Use		Daily Use)	(Daily Use)		(Daily Use)		
Total people in the	water	( · j · · · )	( ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	( ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	<del>′                                    </del>	, · , · · · · · · · · · · · · · · · · ·	( · j · · · )		( - ) /		
Total people out of											
Total people at the											
Breakdown of Activ		tias wara hroka	n down on the F	 Poutina₋Onsita	Sanitary	Survey sum	marize them here	7)			
Activity 1:	nics (ii activi	IICS WEIG DIONE	II down on the i	Toutine-Orisite	Jariitai y	Survey, Surri		·)			
Activity 2:											
Activity 3:											
Activity 4:											
Activity 5:											
Activity 6:											
Frequency of meas											
(e.g., daily, weekly	, monthly)										
F	1 1 1 2 2 2 2 2 2				/ . \ . 1	.1 .1			L L		
Examine bather loa											
to correlate with ba							ie in the water or	out o	tne water		
correlate with bacte	ena concentra	lions? Has a s	tatistical analys	is been done? i	Jescribe	:					
Comments/Observa	ations:										
6. BEACH CLEAN	ING										
Beach cleaning free	quency during	season:									
Description of clear	nup activities										
<u> </u>		Trimmin	n or			Construction	on and Maintenan	ice			
	Leveling o			ovina Ren	noving		mporary Pathway				
	Sand	Vegetat			ash		y to Open Water		Other (specify):		
Check activities	Garia	rogotat		0110	4511	Dir ooti,	y to open mater		outer (speeding).		
that were done											
Equipment used											
(if applicable)											
(ii applicable)											
How often are float	ahlas faund a	t the heach?	☐ Nev	ıor -	Someti	imas 🗆	Frequently		ery frequently		
Known sources of f		t the beach:		/CI	] Joinet	IIIIC3	Trequently	ш v	rery frequently		
Types of floatables		Street litter		Food-related lit		☐ Medical i	tems	Sew	age-related		
Building materia		Fishing relat		isehold waste	Oth						
How often is beach	debris/litter for	ound on the bea	ach? Ne	ver [	Somet	times	] Frequently	□ \	ery frequently		
Known sources of o	debris:										

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Type of Debris/Litter Four	Type of Debris/Litter Found							
Street litter	Food-related litter   Household waste		e-related 🔲 Buildir her:	ng materials				
Comments/Observations:		<u> </u>						
7. INFORMATION ON SAMPLING LOCATION  Description of Sample Points (include beach water and potential pollution sources)								
Sample Point Name/ID	Sample Point Name/ID Location Description Sample Frequency Time of Day of Sample Collection							
Description of hydrometric	I c network [note that this is a	 network of monitoring stations that (	L collect data such as rainfa	ll and stream flowl				
		<u> </u>						
0								
Comments/Observations:								
8. WATER QUALITY SAI Name of laboratory:	MPLING	Distance to laboratory	: mil	es				
Is there a sampling and a	nalysis plan?							
Are the sampling staff pro	operly trained on sampling to	echniques, equipment maintenance,	and calibration procedure	es?  yes no				
Biological Survey Results:  Were invasive/nonnative species present?								
Have algae blooms been observed during the beach season? (If so, specify duration and algae species)								
Percent of beach season where algae was present in significant amounts in the nearshore water: None Low (1–20%)  Moderate (21–50%) High (> 50%)								
Percent of beach season where algae was present in significant amounts on the beach:  None Low (1–20%)  High (> 50%)								
List types of algae found:								
Colors of algae most com								
List any infectious snails t								
List any dangerous aquatic organisms that were found:								

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Presence of Wildlife and Domestic Animals

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Туре	Degree of Presence (Low, Mod, High)	Does the Presence Appear to Correlate with Bacteria Results? (Yes, No, Don't Know)	Correlate with Describe Further (include whether fecal droppings are seen and are a problem)					
Geese								
Gulls								
Dogs								
Other (specify):								
Other (specify):								
Other (specify):								
Was a significant number of dead birds found on the beach during beach season?								
Was a significant r Describe numbers			ring the beach season?	no				
Bacteria Samples  Do you test for Es	Bacteria Samples Collected  Do you test for Escherichia coll?  yes  no Analytical Method Used:							
Do you test for <i>En</i>		•	Analytical Method Used:					
Do you test for fed		3	Analytical Method Used:					
•		d and associated analytical r						
		samples? 🗌 yes 📋 no	If yes, explain:					
How do this past s	season's bacte	ria results compare to that o	f previous years'?					
			·					
		•	s water quality, weather, flow, bathe	<u> </u>	☐ yes			
no Describ	oe in detail ana	llyses that were performed o	n the data (add additional lines as i	needed).				
, ·		measured regularly)	<del></del>		0.11			
Temperature	F	oH Rainfall	Turbidity	Conductivity	Other			
How does the water quality data compare to data from previous years?								
Do any data corre	Do any data correlate with bacteria sample results?							

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Were there any unusual results, such as extremely high or low values detected, or unusual trends?								
Are water quality ann	ual trend data attached?	☐ yes ☐ no	)					
Comments/Observati	ions:							
9. MODELING Are models being use If yes, list types of mo	ed?	ef description of the	e models:					
Comments/Observati	ons:							
				any possible reasons for a	dvisory or closing or high			
Advisory or Closing (specify one)	Start and End Dates	Length of Advisory or Closing (Days)	Did Bacteria Concentrations Exceed GM or SSM Criteria?	Reason for Advisory o Contributir	or Closing or Possible ng Factors			
Total number of closings issued:  Total number of days under an advisory:  Total number of days beach was closed:  Comments/Observations:								

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## 11. POTENTIAL POLLUTION SOURCES

Type of Source	Level of Concern (H, M, L, or NA)	Latitude*	Longitude*	Describe how this source might contribute to beach pollution and 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							
Bathhouse leakage							
Drains and pipes nearby							
Stream or wetland drainage							
Vacant areas							
Other (specify):							
Other (specify):							
Other (specify):							
*If latitude and longitude are unknown, sho	w the location on the detailer	d map and describe in	n the Comments/Obse	rvations section below.			
Have potential pollution sources	identified above been	included on the	detailed map?	yes no (explain):			
Did you collect bacteria samples	from any potential po	llution sources, s	such as streams (	or outfalls?  yes no (explain):			
If yes, describe any analyses per	formed and a summa	ry of the results:	:				
Are there any discharge reports available for dischargers in the watershed?							
_							
				· · · · · · · · · · · · · · · · · · ·			

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Have any sources be	en remediated, or have steps beer	urces?	yes	no (explain):					
Comments/Observati	ons:								
12. DESCRIPTION O	F SANITARY FACILITIES								
Bathhouses: Total r	number of bathhouses at the beach		1						
Number or ID	Location	Condition (Good, Fair, or Pool	Distance from Wa	aterline	Frequency of Cleaning (Daily, Weekly, Monthly)				
Describe further. Inclu	Describe further. Include number of toilets, showers, sinks, etc., and whether these facilities are adequate to support beach use.								
Litterbins: Total nun	nber of litterbins at the beach:								
Number or ID	Location	Condition (Good, Fair, or Poo	Distance from War) (feet)	aterline	Frequency of Emptying (Daily, Weekly, Monthly)				
Describe further. Include whether number and location of litterbins is adequate to support beach use.									
	13. DESCRIPTION OF OTHER FACILITIES  List facilities in the beach area, such as restaurants, bars, playgrounds, parking lots, and dog parks.								
Facility Name/Type		Condition (Good, Fair, or Poor)	Distance from Beach (feet)		ght this facility contribute to ater quality problems?				
Comments/Observation	ons:								

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