SPDES DISCHARGE PERMIT **Department of** Environmental **Detailed Mixing Zone Form**

Purpose & Instructions

NEW YORK

Conservation

The following information will inform the Department's review of your SPDES permit and the resulting effect on the receiving waterbody. Complete the information (one form for each outfall) based on either field observations or schematics/design drawings to the best of your ability. Please see the Mixing Zone Guidance for additional instructions. If an item is unavailable or non-applicable, please describe. Submit with the NY-2A or NY-2C Application Form to SPDESapp@dec.ny.gov.

Facility Name:	SPDES No.: Outfall #:
NYSDEC Permit Writer:	Receiving Waterbody Class:

Email:

Phone No.:

Observation Information

Name & Title of Observer:		Date of Observation:
Phone Number:	Email:	
Name of Receiving Waterbody:		

Weather conditions at time of observation (describe any recent rain/melt events):

Avg. Width (ft): Avg. Depth (ft)	: Local Dep	oth at Outfall (ft):	Source:	
Has the receiving waterbody run dry in	the last 5 years?	□Yes □No		
Are tidal conditions present?		□Yes □No		
Measured Velocity (fps):	Source or Method:			

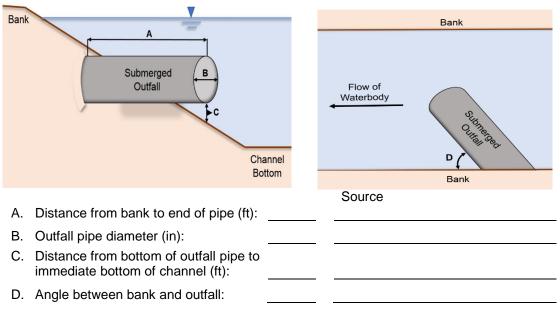
Receiving Water Information

S	Surface Temperature (°F):	Bottom Temperature (if depth >10 ft) (°F):
Vatei	Lakes: If receiving waterbody is a lake, attach any available summer and/or winter temperature data.	
All Receiving V	Subscription Lakes: If receiving waterbody is a lake, attach any available summer and/or winter temperature data. Describe seasonal variability of receiving waterbody (low-flow conditions, nearby dams, canal operations, stratification):	
le oody	If receiving waterbody is saline (Class SA, SB, SC, SD, I) density information is required.	
Saline Waterbody	Surface Density (kg/m³):	Bottom Density (kg/m ³):
Ň	Source of Density Information:	

Additional information regarding the receiving waterbody is attached (i.e. temperature/ tidal/ density studies).

Effluent Discharge Information

Outfall Location & Configuration		
Outfall #: Location at end of pipe: Latitude:	Longitude:	
Describe the outfall (location, size, configuration, condition of the	structure):	
Please select the option below $(1 - 3)$ that best describes your facil	lity's outfall configuration.	
\Box I have attached supporting as-built drawings, sketches, or engineering plans to help describe the outfall.		
Option #1: Bank Discharge (outfall pipe/channel does not external does not exte	nd into waterbody).	
\Box Outfall pipe (inch diameter) discharges to waterboo	ly at feet from bank	
\Box Outfall pipe is above (or partially above) water s	urface OR	
\Box Outfall pipe is submerged and located fee	t above channel bottom	
OR		
\Box Channel/ditch (ft wide xft deep xft long) c	lischarges to waterbody at bank	
Effluent		
Channel Discharge Flow	A. Average depth of water in channel (ft):	
	B. Local depth at outfall (ft):	
Discharge Channel Bottom	C. Bottom slope (degrees):	
C		
Receiving		
Waterbody Bottom	Source:	
Option #2: Extended Pipe Discharge (outfall pipe extends into waterbody) with no multiport diffuser.		
Option #2: Extended Pipe Discharge (outrall pipe extends into	waterbody) with no multiport diffuser.	



□ Option #3: Extended Pipe Discharge (outfall pipe extends into waterbody) with multiport diffuser.

□ Attach a detailed drawing of the diffuser (required). If not available, please contact the DEC permit writer.

Bank Submerged Multiport Diffuser	Bank Flow of Receiving Waterbody
No. of openings: Orientation: \Box Unidirectional \Box Alt	ternating Direction: \Box Line \Box Fanned out
 A. Length of diffuser line (ft): B. Height of discharge (top of diffuser nozzle to channel bottom C. Diameter of nozzles (in): D. Distance from bank to middle of diffuser line (ft): E. Distance from bank to first diffuser nozzle (ft): 	Source n) (ft):

Outfall Photos & Schematics

Upload or attach photos/schematics that depict the outfall (i.e. satellite images, hand sketches, design drawings, view upstream/downstream). You will be prompted twice to select your photo / schematic. You may upload more than two photos by repeating this process. They will be included as attachments.

CLICK HERE TO UPLOAD PICTURE	CLICK HERE TO UPLOAD PICTURE
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Description:

Description: