



SPDES DISCHARGE PERMIT Detailed Mixing Zone Form

Purpose & Instructions

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: CONGREGATION ORAGISA SPDES No.: NY-0271179 Outfall #: 001
NYSDEC Permit Writer: REBECCA CRIST Receiving Waterbody Class: B(T)
Email: rebecca.crist@dec.ny.gov Phone No.: 845-256-3014

Observation Information

Name & Title of Observer: D. RANDEL WASSON, PROJECT ENGINEER Date of Observation: 6/10/25
Phone Number: 845-888-2288 Email: d.wasson@wassonengineering.com
Name of Receiving Waterbody: UNNAMED TRIB TO NEVERSINK RIVER
Weather conditions at time of observation (describe any recent rain/melt events):

OVERCAST

Avg. Width (ft): 7 Avg. Depth (ft): 2 Local Depth at Outfall (ft): 2 Source: LOCAL RUN-OFF
Has the receiving waterbody run dry in the last 5 years? ☐ Yes ☐ No UNKNOWN
Are tidal conditions present? ☐ Yes ☒ No
Measured Velocity (fps): NA Source or Method: NA

Receiving Water Information

All Receiving Waters	Surface Temperature (°F): <u>NA</u> Bottom Temperature (if depth >10 ft) (°F): <u>NA</u>
	Lakes: If receiving waterbody is a lake, attach any available summer and/or winter temperature data.
Saline Waterbody	Describe seasonal variability of receiving waterbody (low-flow conditions, nearby dams, canal operations, stratification): <u>ESTIMATE 0' - 1.5' DEPENDING ON SEASON</u>
	If receiving waterbody is saline (Class SA, SB, SC, SD, I) density information is required. Surface Density (kg/m³): _____ Bottom Density (kg/m³): _____ Source of Density Information: _____

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

Effluent Discharge Information

Temperature (°F): NA AND / OR Density (kg/m³): 1000 Source: _____
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@ 40° F

Outfall Location & Configuration

Outfall #: 001 Location at end of pipe: Latitude: 41°46'-40" Longitude: -74°-34'-01"

Describe the outfall (location, size, configuration, condition of the structure):

THE OUTFALL PIPE IS 6" Ø PVC DISCHARGING THRU A CONCRETE HEADWALL MEASURING 3' W X 16" H X 8" THICK. PIPE INVERT IS 1' BELOW TOP OF HEADWALL.

Please select the option below (1 – 3) that best describes your facility's outfall configuration.

PHOTOS ☒ 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 extend into waterbody).

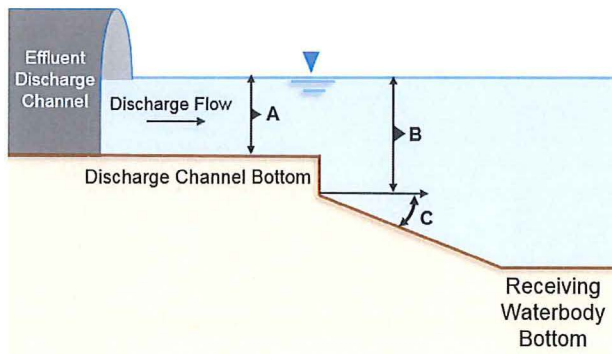
☒ Outfall pipe (6 inch diameter) discharges to waterbody at 5 feet from bank

☒ Outfall pipe is above (or partially above) water surface OR

☐ Outfall pipe is submerged and located _____ feet above channel bottom

OR

☒ Channel/ditch (2' ft wide x 1.5' ft deep x 5' ft long) discharges to waterbody at bank



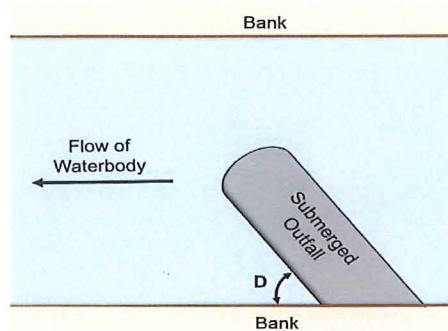
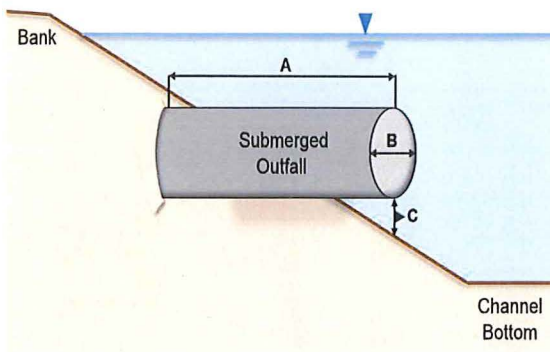
A. Average depth of water in channel (ft): 0.33

B. Local depth at outfall (ft): 0.25

C. Bottom slope (degrees): NA

Source: _____

☐ **Option #2: Extended Pipe Discharge** (outfall pipe extends into waterbody) with no multiport diffuser.



Source _____

A. Distance from bank to end of pipe (ft): _____

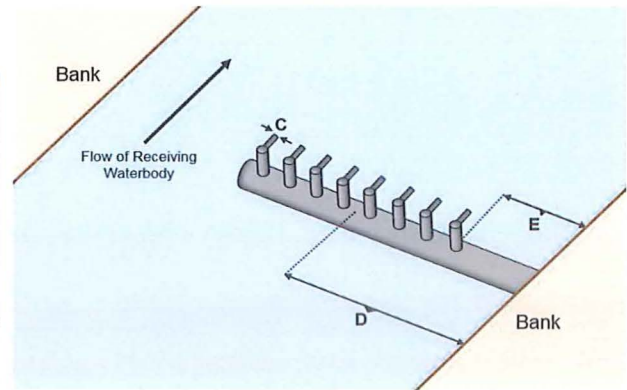
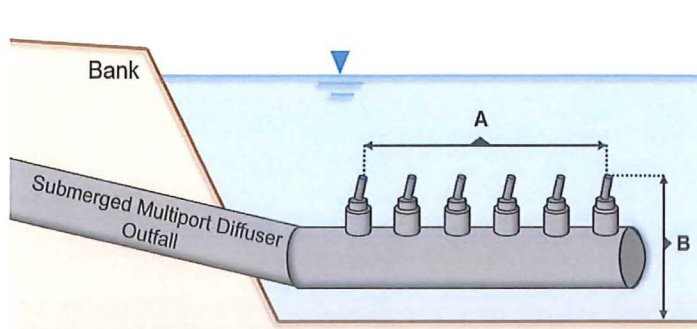
B. Outfall pipe diameter (in): _____

C. Distance from bottom of outfall pipe to immediate bottom of channel (ft): _____

D. Angle between bank and outfall: _____

☐ **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.



No. of openings: _____ Orientation: ☐ Unidirectional ☐ Alternating Direction: ☐ Line ☐ Fanned out

Source

- A. Length of diffuser line (ft): _____
- B. Height of discharge (top of diffuser nozzle to channel bottom) (ft): _____
- C. Diameter of nozzles (in): _____
- D. Distance from bank to middle of diffuser line (ft): _____
- E. Distance from bank to first diffuser nozzle (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 to Upload Photos

Click to Upload Photos

Description:

Description:

EXISTING OUTFALL NO. 001



RECEIVING STREAM LOOKING UPSTREAM



RECEIVING STREAM LOOKING DOWNSTREAM

