

## Discharge Worksheet - Chloramine-T

**Instructions:** Use this Worksheet to calculate estimates of 1) the *maximum* amount of Chloramine-T to be used for a single treatment of fish at your facility, and 2) the resulting concentration of Chloramine-T in your total hatchery wastewater discharge.

*Handy conversion factors:* 1 part per million (ppm) = 0.0283 grams/cuft; or, 0.0038 grams/gallon.

### Calculations:

**Step 1 - Calculate the total flow of treated and untreated water during treatment period:**

1a Number of rearing units to be treated: \_\_\_\_\_

1b Total water volume (at treatment flow rates) to these units during treatment period: \_\_\_\_\_ (gal.) or (cuft.) of treated flow

1c Total water volume to all other untreated units during treatment period: \_\_\_\_\_ (gal.) or (cuft.) of untreated flow

1d Grand total hatchery discharge (Treated + Untreated):  
\_\_\_\_\_ (gal.) or (cuft.) of flow during treatment period.

**Step 2 - Calculate the amount of Chloramine-T needed:**

2a  $\frac{\text{Amount}}{\text{gms}} = \frac{\text{Vol. from line 1b}}{\text{Vol. from line 1b}} * \frac{\text{Desired dosage}}{\text{Conv. factor}} * \text{Desired dosage}$  ppm

**Step 3 - Calculate Chloramine-T level in hatchery discharge during treatment period:**

3a  $\frac{\text{Disch. level}}{\text{ppm}} = \frac{\text{Amt. from line 2a}}{\text{Total vol. (line 1d)}} * \frac{\text{Conver. factor}^*}{\text{Conver. factor}^*}$

\*If in gallons use 0.0038  
If in cubic ft use 0.0283