



South Carolina Department of Health and Environmental Control

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# De Minimis

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## 40 CFR 125.94(c)(11)

- “*De minimis rate of impingement.* In limited circumstances, rates of impingement may be so low at a facility that additional impingement controls may not be justified.”

# South Carolina Example

- Manufacturing facility that withdraws 26 MGD from the Saluda River.
- Standard 3/8" square screen openings.
- The average flow of the river is 2198 cfs (1420 MGD).
- Withdrawal is 1.8% of average river flow.
- Saluda River is classified as a Trout Stream.



# Impingement Study

- One year
- One day per month for 24 hours
- Results:
  - 0 Fish
  - 67 Crawfish
- 44 of those in November during flood conditions

# Impingement Study

- Annualized Rate of Impingement
  - Flow-weighted
  - 1,986 Crawfish per year
  - 5.4 Crawfish per day
- Disregarding data from November flood -
  - 699 Crawfish per year, 1.9 per day

# Considerations

- Zero fish impinged
- Withdrawal is 1.8% of average river flow.
- 5.4 crawfish per day or 1.9 per day if exclude flood data
- 55 of 67 crawfish returned unharmed to river



# CONTACT US

Randy Thompson

Industrial Wastewater Permitting

(803) 898-4314

[thompsgr@dhec.sc.gov](mailto:thompsgr@dhec.sc.gov)

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