



STAGE 2 OPERATIONAL EVALUATION – SOURCE WATER

State Form 55263 (4-13)
Indiana Department of Environmental Management
Office of Water Quality – Drinking Water Branch – Compliance Section

IDEM – Drinking Water Branch
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- INSTRUCTIONS:**
1. Complete this form.
 2. Complete the Stage 2 Operational Evaluation - Distribution System.
 3. Complete the Stage 2 Operational Evaluation - Treatment Process.
 4. Complete the Stage 2 Operational Evaluation - Summary.
 5. Submit all 4 forms to IDEM.

PWSID: IN _____ **Water System Name:** _____

Address (number and street): _____

City: _____ **State:** _____ **ZIP:** _____

Report Prepared By: _____ **Date (month, day, year):** _____

Telephone Number: _____ **Fax Number:** _____

Email: _____

Q1. Do you have source water data? Yes No

If YES, proceed to Q2. If NO, proceed to evaluations of distribution systems and treatment systems.

TEMPERATURE

Q2. Do you have source water temperature data? Yes No

If NO, proceed to Q3. If YES, answer the following questions for the time period prior to the OEL exceedance:

Was the source water temperature high? Yes No

If NO, proceed to Q3. If YES, answer the following questions for the time period prior to the OEL exceedance:

Was the raw water storage time longer than usual? Yes No

Did you place another water source on-line? Yes No

Were river/reservoir flows rates lower than usual? Yes No

If YES, indicate the location of lower flow rates and the anticipated impact on the OEL exceedance:

Did point or non-point sources in the watershed contribute to the OEL exceedance?

Yes No

ORGANIC MATTER

Q3. Do you have data that characterizes organic matter in your source water (e.g. TOC, DOC, SUVA, color, THM formation potential)? Yes No

If NO, proceed to Q4. If YES, answer the following questions for the time period prior to the OEL exceedance:

Were these values higher than normal? Yes No

If NO, proceed to Q4. If YES, answer the following questions for the time period prior to the OEL exceedance:

Did heavy rainfall or snowmelt occur in the watershed? Yes No

Did you place another water source on-line? Yes No

Did lake or reservoir turnover occur? Yes No

Did point or non-point sources in the watershed contribute to the OEL exceedance? Yes No

Did an algal bloom occur in the source water? Yes No

If algal blooms were present, were appropriate algae control measures employed (e.g. addition of copper sulfate)? Yes No N/A

Did a taste and odor incident occur? Yes No

BROMIDE

Q4. Do you have source water bromide data? Yes No

If NO, proceed to Q5. If YES, answer the following questions for the time period prior to the OEL exceedance:

Were the bromide levels higher or lower than normal? Yes No

If NO, proceed to Q5. If YES, answer the following questions for the time period prior to the OEL exceedance:

Has saltwater intrusion occurred? Yes No

Were you experiencing a long-term drought? Yes No

Did heavy rainfall or snowmelt occur in the watershed? Yes No

Did you place another water source on-line? Yes No

Are you aware of any industrial spills in the watershed? Yes No

TURBIDITY/PARTICLE COUNTS

Q5. Do you have source water turbidity or particle count data? Yes No

If NO, proceed to Q6. If YES, answer the following questions for the time period prior to the OEL exceedance:

Were the turbidity levels or particle counts higher than normal? Yes No

If NO, proceed to Q6. If YES, answer the following questions for the time period prior to the OEL exceedance:

Did lake or reservoir turnover occur? Yes No

Did heavy rainfall or snowmelt occur in the watershed? Yes No

Did logging, fires, or landslides occur in the watershed? Yes No

Were river/reservoir flow rates higher than normal? Yes No

pH/ALKALINITY

Q6. Do you have source water pH or alkalinity data? Yes No

If NO, proceed to Q7. If YES, answer the following questions for the period in which an OEL exceedance occurred:

Was the pH or alkalinity different than normal values? Yes No

If NO, proceed to Q7. If YES, answer the following questions for the period in which an OEL exceedance occurred:

Was there an algal bloom in the source water? Yes No

If algal blooms were present, were algae control measures employed? Yes No N/A

Did heavy rainfall or snowmelt occur in the watershed? Yes No

Has the water system experienced diurnal (i.e. night/day) pH changes in source water?
 Yes No

CONCLUSION

Q7. Did source water quality cause or contribute to the OEL exceedance(s)? Yes No

Possibly

If YES or POSSIBLY, explain in further detail:

Total number of pages (including attachments) submitted: _____