# Water-Treatment Research Report

Project team Site or reactor ID

Reporting period: _____

## 1 Executive summary

State the treatment question, the main result, and the recommendation in three or four sentences. Give the tested flow, dose, or loading where it changes the interpretation.

## 2 Research question and design

Describe the source water, treatment unit, control condition, independent variable, response variables, and replication plan. Define performance as

$$\text{removal} = 100\left(1 - \frac{C_{\text{out}}}{C_{\text{in}}}\right)\ \%.$$

## 3 Methods

Record site conditions, sampling locations, preservation, instruments, calibration checks, and the operating procedure. Identify deviations from the planned protocol and the reason for each one.

## 4 Results

Table 1: Example water-quality summary; replace or extend the rows.

| Parameter | Influent | Effluent | Removal (%) |
|---|---|---|---|
| Turbidity (NTU) | 18.4 | 2.6 | 85.9 |
| Colour (TCU) | 42.0 | 8.0 | 81.0 |

Explain variability between samples, include units, and refer to any figure or plot added by the author.

## 5 Interpretation and recommendation

Compare the result with the design target, discuss uncertainty and limitations, and distinguish measured evidence from engineering judgement. Recommend the next test, operational change, or monitoring interval.

## 6 Conclusion

Answer the research question directly and record the decision that follows from the evidence. List the person responsible for the next action and its due date.