


How to Use the Influent WR-43 Spreadsheet

1) Goals for the Influent WR-43 Spreadsheet:

- To streamline influent parameter reporting
- To provide contextual information on influent loading to operators and analysts
- To collect all influent data in one location

2) Color Code Guide:

Cells/Columns in blue must be entered manually
Cells/Columns in magenta are calculated or drawn from other cells
Purple Cells are <80% of design or permit limits
Yellow Cells are ≥80% and ≤100% of design or permit limits
Orange Cells are > 100% of design or permit limits
Columns & Cells marked with :  are locked for editing

3) Inputting Values to the Influent WR-43

- Start on the “Monthly Parameters” sheet.
- Fill in the blue fields at the top of the sheet. These include the permit number, facility design capacities, the month, and the year.
 - System Design Capacity for BOD & TSS can usually be found in plant design schematics or other design documents.
 - Phosphorus capacity is the Waste Load Allocation for the facility, if applicable.
- Input the influent data from the lab results and bench sheets into the “Monthly Parameters” sheet for any monitored constituents.
 - Effluent flow may be substituted for influent flow if only effluent flow is recorded.
 - All data must be entered as a number.
 - Enter flow values for every day of the month with flow values available.
- Select the **current month** from the dropdown menu in the top right.
 - This will auto-populate the influent data from “Monthly Parameters” to “BOD Loading”, “TSS Loading”, and whatever other constituents have sheets.

- Enter the count of days with flow from “Monthly Parameters” Cell B47 into the month’s cell in Column C on “BOD Loading”. This will automatically fill in that data for all other sheets present.
- Data for past months is drawn from the “Year’s Influent Loading” sheet. Visual comparisons of influent data for each constituent will not appear until past data is available for comparison.
- At the end of each month, copy the Total Flow and the Average Values for each constituent (found in their respective sheets) from “Monthly Parameters” and “BOD Loading”, etc., to “Year’s Influent Loading” for that month.

4) Creating a new sheet:

- Submit a request to your Direct Discharge District Analyst to modify the spreadsheet for your needs.
- OR Download another version of the spreadsheet and change the headers for the constituent you need. Submit for review and approval from your Direct Discharge District Analyst.

5) Interpreting the Influent WR-43

- Cells are color-coded according to which will require data to be entered manually and which will auto-populate.
- Locked fields are marked.
- Loading is compared to permit or design limits: Purple indicates loading is under 80% of design capacity, meaning that the plant is under its design limits during regular operations; Yellow indicates loading between 80-100% capacity, meaning that the plant is at its design limits during regular operations; Orange indicates loading over 100% capacity, meaning that the plant is exceeding its design limits during regular operations. Color coding is further split up via heat-mapping the monthly cells. Purple shifts to Yellow shifts to Orange gradually as loading nears 100% capacity.

6) Uploading the Influent WR-43

- The form is required to be uploaded as an attachment to the nForm when the monthly eDMR is submitted.