

4 Design Capacity

The Design Capacity section contains descriptive information about the facility design capacity for the following parameters:

- CBOD₅ : Carbonaceous Biochemical Oxygen Demand
- TSS : Total Suspended Solids
- NH₃-N : Ammonia Nitrogen
- TKN : Total Kjeldahl Nitrogen

These parameters refer to the design treatment capability for the facility. A pull-down menu for each parameter is activated by clicking the labeled button for the parameter. Average and Maximum design values in units of mg/L and lb/day can be selected by clicking on the respective boxes. These parameters are used by the program in conjunction with the monitoring data to assess the current loading and treatment performance of the facility.

The design capacity menu allows the user to customize the information for their treatment facility. The design parameters used are selected by clicking the "Design Parameter" button, and then selecting from the four options listed above. Clicking a specific parameter option button brings up the choices for average and/or maximum values and the selection of units of expression (mg/L and/or lb/d). Once the selections have been made, clicking "OK" will close the dialog box. The "Reset" button will clear the previous selections. After the design parameter choices have been completed, a summary dialog box will appear listing the parameters along with a "data" box to receive the design values. The data values can be entered by clicking the "Edit" button, and clicking the respective data cell to enter a value.

This section can also accommodate design changes and plant upgrades by editing the "Document" option. The document section allows the user to enter historical design data, and new upgrade design information. When the program is first used, the initial design capacity data will be saved as Document #1. Additional design capacity information can be entered and stored as additional documents. Clicking the "Document List" option will display all the various design documents stored in the file and allow the user to open, delete, or insert a particular document list. The current design capacity table displayed on the screen is indicated at the top center of the design capacity application window. To enter the effective design date (month/year) for a design document, click the "Edit" button, and enter the month and year in the respective data cells.

At a minimum, the user must enter the current design information for the facility. If the user wishes to examine historical trends, or conduct planning for future expansion, additional design information can be entered and saved as additional documents. Remember to "Accept" (Save) the information before exiting from this section of the program.