

EFT v3.2.6.6

Waterway Design Tool - Helpful Hints

9/13/12

1. The program always tries to compute volumes of cut and fill when the “Design Channel” box is clicked. If the “grade channel start” or “grade channel end” features are activated, there must be survey above and below the waterway. A profile point will not be adequate. There has to be enough survey for the computer to develop a surface model.
2. If the “grade channel start” or “...end” features are disabled (not checked), then there still has to be enough survey at the beginning and ending stations for the computer to generate a surface model.
3. Note that surveys must be wide enough so that all the cut slopes and fill areas needed for the waterway yardage calculations will be within the boundaries or borders of the survey.
4. On alignments, don’t get too many points (vertex) close to each other, especially on curves. This can cause the cross sections developed by the computer to intersect. The computer can not complete the design if that occurs.
5. To help lay out the alignments, flag the waterway centerline in the field and then survey those points and label them (for example, ww). This makes it easy to sketch the alignment by clicking on the “snap to point” icon and clicking on the points labeled “ww”. It is recommended that the centerline always be located in the field anyway – not from the survey.

6. Just entering a profile will not work. There has to be a cross section at the first and last stations for the computer to generate a profile. Note: Quantities will be calculated; however, they should probably be ignored. The surface model generated with only cross sections at the beginning and ending stations will likely not be very accurate.
7. When printing reports, if any data is missing so a report cannot be generated, there is a good chance the program might “freeze up” and you will have to exit and either re-open EFT or maybe even have to reboot the computer.
8. On the cross sections tab, a station can be typed in the box area where the station is shown at the bottom of the sheet. For this to be accepted, the enter key must be hit after the station is typed.