



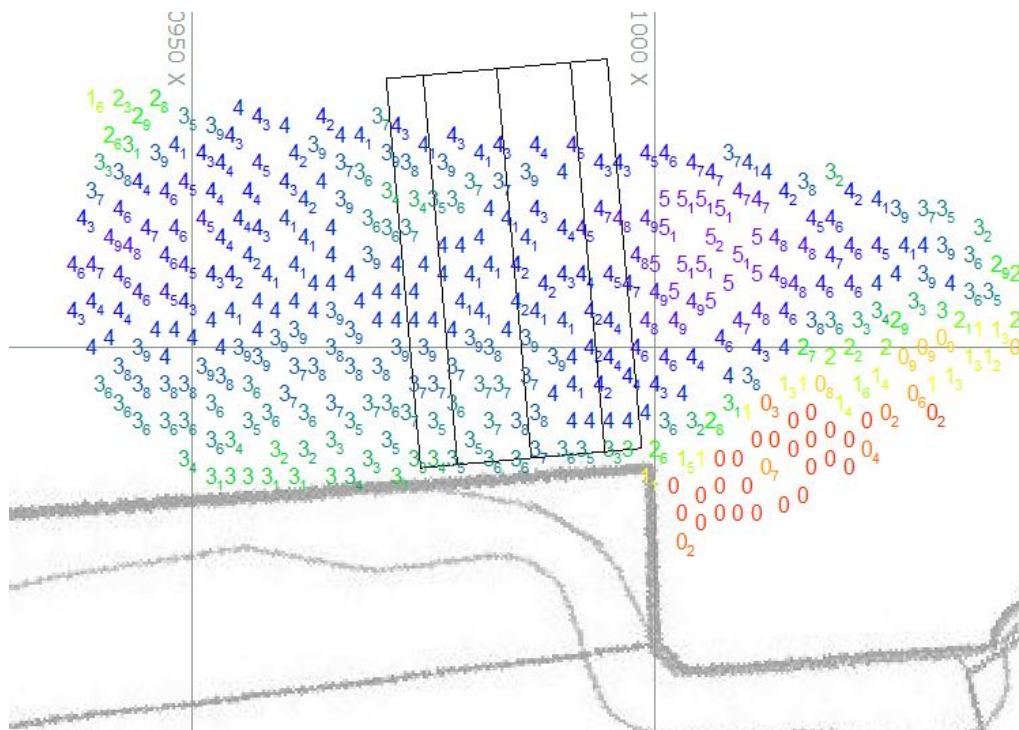
New in HYPACK 2015: Merging Two Channel Files in ADVANCED CHANNEL DESIGN

By Rob Baird

One of the great new developments in HYPACK® 2015 is the ability to combine two channel (.CHN) files in ADVANCED CHANNEL DESIGN, streamlining projects for both the operation of the dredge and calculation of volumes.

This feature can make it easier for dredge operators that must dig two or more different channels within the same project area. The examples shown in this article are from a project where the two included channels were part of different contracts. The dredging started first on the main channel to provide clearance for the larger boats that come into dock.

FIGURE 1. Channel 1

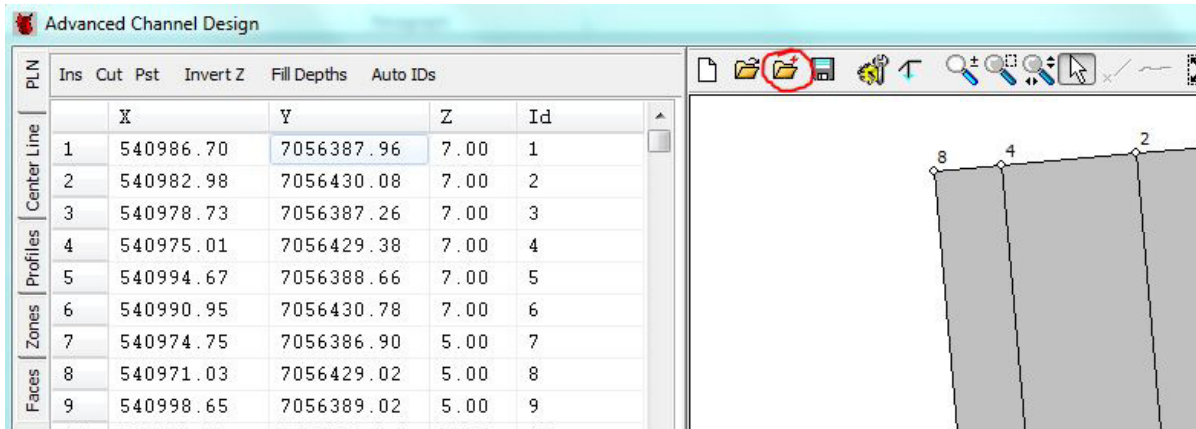


The second contracted channel was designed to the east of the center channel, but the funding was not approved by the start of the project. Once funding was approved, the dredge operator wanted to be able to easily go back and forth between the dredge areas, as he could only dredge the shoaler areas at higher tides. While he had to dig these areas using two separate channel files in HYPACK® 2014, it would be quite easy to combine them going forward. This new feature would have improved the operator's visual display, as there was a small area between the two channels which also needed to be addressed.

To merge the channel files together, one could use ADVANCED CHANNEL DESIGN (ACD) in HYPACK® 2015.

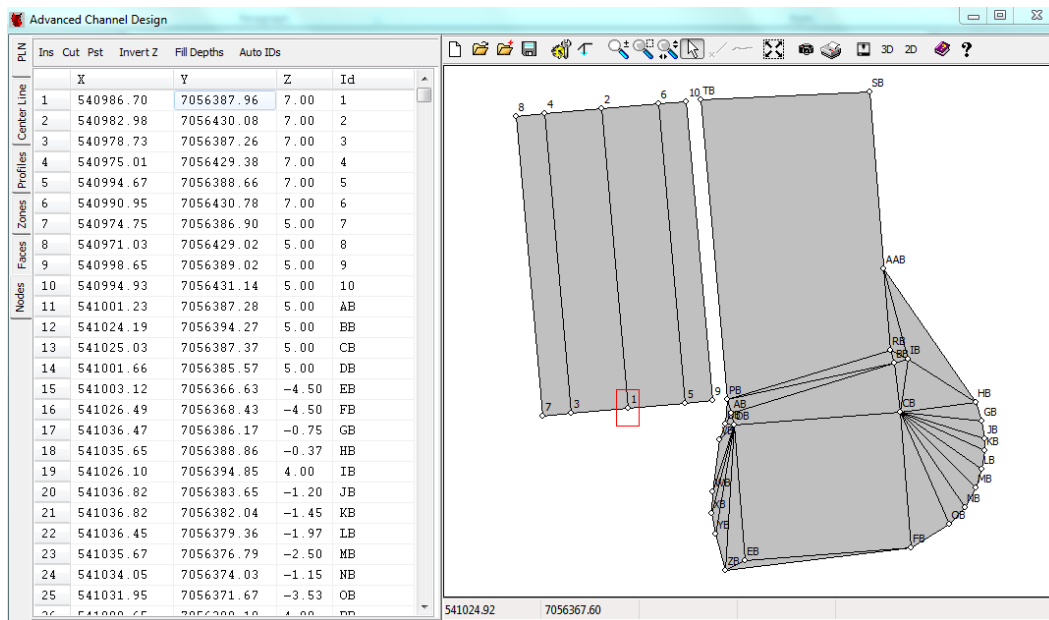
1. **Open the original channel file in ACD.**
2. **Zoom to the extents of the channel and select the Merge CHN icon circled in red in Figure 2.**

FIGURE 2. Loading the Second CHN File Using the Merge CHN Feature



3. **Select the second channel file to merge with the first.** It will bring in any existing nodes and faces from the second CHN.

FIGURE 3. Nodes and Faces of Two Channels in One File



4. **Connect the proper nodes to create any new faces that are needed.**

FIGURE 6. TIN to Channel Volumes of the Combined Channel

