

SurvCE – Editing Raw Data to Correct Errors

This instructional sheet will walk you through correcting an incorrect rod height recorded in the raw data file. It is recommended that this is done at the end of a survey because SurvCE will continue to put new records in the raw data file that is named the same as the job (.crd) file and an unedited copy of the raw file should be kept. As soon as realized, place a note in the raw data file containing the point number for the incorrect reading and the proper rod height. To place a note in the raw data file press ALT + W.

- 1) Start SurvCE and enter the job you wish to edit
- 2) Tap **“File”** tab
- 3) Tap **“List Points”**
- 4) Find your Benchmark shot, most likely point #100
 - a. Write down the coordinates for the point, most likely:
 - i. N: 5XXX.XX
 - ii. E: 5000.00
 - iii. Z: 100.000
- 5) Tap **“Close”**
- 6) Tap **“COGO”** tab
- 7) Tap **“Process Raw File”**
- 8) Select the RAW file with the same name as the Job
- 9) Tap **“Edit RW5 File”**
- 10) Tap **“Save As”**
- 11) Rename the file to include the word “Edit” after the job name
 - a. Example Job: Smith.rw5 → Smith Edit.rw5
- 12) Tap **“Ok”**
- 13) Tap **“Edit RW5 File”**
- 14) Scroll to the top of the file. In the first ~20 lines, find the “SP” record for the backsight point (#100). Tap the record once it is found.
- 15) Tap **“Edit”**
- 16) Replace the Northing and Easting with the values written down in step 4
- 17) Tap **“Ok”**

Rod height and instrument heights are listed in the “LS” entry in the raw file. SurvCE will use the rod height listed in an “LS” entry for all points after in the file until it encounters another “LS” entry. If the rod height was entered incorrectly for all points, find all “LS” entries and change them to the correct height. The following will instruct you on how to change a single point or series of consecutive points.

- 18) Locate the “SS” record for the first point that has the incorrect rod height.
- 19) Tap the record above the “SS” record (entries are added below selection)
- 20) Tap **“Add”**
- 21) Tap **“Instrument/Rod Height”**
- 22) Fill in the correct rod height (leave the instrument height blank)
- 23) Tap **“Ok”**
- 24) Scroll up to find the first previous “LS” record and note the rod height
- 25) Locate the last “SS” record that has the incorrect rod height and tap on it
 - a. Note: If the error is only for one point, click on that point record

- 26) Tap **“Add”**
- 27) Tap **“Instrument/Rod Height”**
- 28) Fill in the rod height noted in step 24 (leave the instrument height blank)
- 29) Tap **“Ok”**
- 30) Tap **“Save As”**
- 31) File should be same name as typed in step 11.
- 32) Tap **“Ok”**
- 33) A warning box appears, tap **“Yes”** to overwrite file
- 34) Tap **“Process No Adjust”**
- 35) Tap **“Ok”**
- 36) Make sure **“Report Sideshots”** is the only option checked.
- 37) Tap **“Ok”**
- 38) Tap **“Close”**
- 39) Tap **“Close”**

If you compare the point coordinate data from before and after the raw data processing, the elevation of the points should have changed based on the new rod readings.