

SUMMARY OF  
BULKLEY RIVER at HOUSTON

Field: July 10 - July 21, 1978

76 FDC 18-1

Office: Nov. 22, 1978 - Feb. 5, 1979

Data is compiled in metres

Survey Logistics:

The survey was carried out under favourable field conditions by a ten man crew under the supervision of T.M. Dignan. Data is recorded in field books 2203-L1, 2203-F1 and data for a total of 38 cross-sections is recorded on I.B.M. field sheets.

Cross-section information was obtained with the use of Zeiss transits (TH-43) Horizontal control for Buck Creek was established with use of a 3800B Hewlett Packard and elevations are referred to Geodetic Datum by direct levelling using Wild Na2 and Zeiss Jena levels.

Survey Compilations:

- 1) level adjustment in feet  
vertical least square adjustments with output in feet
- 2) level transformation from feet to metres
- 3) temporary bench mark descriptions
- 4) spot elevations  
detail sketch of spot elevation
- 5) Buck Creek Control and x-sec's July 17, 18, 1978

Summary of 11 x-sec's. Each section includes a listing of the points giving U.T.M. Co-ordinates. This is followed by a PROF statement which gives a continuous chainage along the section from left to right. Plot is looking downstream with right bank on right side of paper.

- 6) Buck Creek w/l profile  
zero chainage beginning at confluence with Bulkley River. w/L points picked from x-sec's.  
Plot is left to right going upstream.
- 7) Bulkley River x-sec's July 19, 20, 21, 1978  
Summary of 22 x-sec's Each section includes a listing of the points showing arbitrary co-ordinates. This is followed by a PROF statement which gives a continuous chainage along the section from left to right. Plot is looking downstream with right bank on right side of paper.

8) Bulkley River w/l and thalweg profiles

zero chainage beginning at XS-0 railway bridge west of Houston. W/l and thalweg point picked from X-sec's and from profile points. Plot is left to right going upstream.

9) Avalon Creek X-sec's July 20, 1978

Summary of 5 X-sec's. Each section includes a listing of the points showing arbitrary co-ordinates. This is followed by a PROF statement which gives a continuous chainage along the section from left to right. Plot is looking downstream with right bank on right side of paper.

10) Bulkley River Dyke Profiles

zero chainage beginning at designated points in listing. Plot is left to right.

11) Bridge and culvert descriptions and photographs

detail sketch of bridges and culverts showing various elevations and dimensions, accompanying photographs.

12) Accompanying Photo enlargement

in envelope

BUCK CR. X-SEC LOCATION PLOT



79/01/29