PROJECT SUMMARY

BELLA COOLA RIVER

& BURNT BRIDGE CREEK

PROJECT 86-FDC-1

Requested by: R. W. Nichols
Special Projects Section

Survey Dates	Personnel	Vehicles
June 16 - July 9, 1986	M. Pronk, J. Duncan	EV995
June 16 - July 9, 1986	B. Brazier, T. Stewart	EV119
June 16 - July 4, 1986	R. Barclay, J. Graves	WI831

Field Time: 159 M/days (1113.0 hours)
Office Time: 113 M/days (792.0 hours)

On June 16, crew left Victoria for Hagensborg with overnight stop in Williams Lake. On June 17 travelled to Hagensborg, arranged lodging for crew at the Bay Motor Hotel.

Field survey Bella Coola River June 18 - July 4. On July 5, R. Barclay and J. Graves left with Alumaweld and vehicle WI831 and joined G. Clark for Nechako River Habitat Study, while remainder of crew started Burnt Bridge Creek survey, July 5 - 8. On July 9, left Hagensborg for Prince George to commence Fraser River survey at Estate Road.

Weather - mainly sunny with highs of 20°C, only rained heavily once during working hours.

Launched Alumaweld and Valco boats in Bella Coola River at bridge crossing to Salloomt River. Boats operated by R. Barclay and T. Stewart.

Difficulty with trace for sounder Model DE719B, sent to Vancouver for repairs on June 22. Replacement shipped from Victoria by air freight. Arrived on June 23.

Wooden steering console and bottom of Valco boat required repairs. A patch was welded on bottom of boat at Howie's Marine in Prince George on July 9. Console repaired in Victoria by Terry.

Some cross sections required extensive line cutting on both Bella Coola River and Burnt Bridge Creek.

1. Field Survey

a) Bella Coola River: 50 cross sections, thalweg, 2 bridge sketches.
b) Burnt Bridge Creek: 9 cross sections, 1 bridge sketch.

2. Survey Data

a) Vertical control was established by direct levelling.
b) Cross sections are referenced with bridging bolts.
c) Cross section topography obtained with a Total Station Theodolite, Model 140 and water depths, where applicable were recorded by a Raytheon depth recorder, Model DE 719B.
d) Bella Coola River cross sections and thalweg were identified on aerial photographs flight BC 82040 frames 50 - 77.
e) Horizontal control for Burnt Bridge Creek was established by E.D.M. Traverse using a Total Station Theodolite, Model 140.

3. Datum

a) Horizontal control for Burnt Bridge Creek cross sections is based on monument 81HW063 established by Water Management Branch in 1981, bearing R.O. Amprodome.
b) Coordinates for Burnt Bridge Creek cross sections are Universal Transverse Mercator, Zone 9, Central Meridian 129 degrees.
c) Coordinates and bearing for Bella Coola River cross sections are arbitrary.
d) Elevations are in metres (G.S.C.) and referred to vertical control established by Water Management Branch in 1981.

4. Field Books

Survey data is recorded on disc labelled 2386D and level books 2386L-1 and 2386L-2.

5. Temporary bench marks established in 1986 include: 3396, 3398 - 3400, 3416, 3561 - 3565, 3571 - 3613.

6. Compiled 1 Drawing No. 87-21-1 Bella Coola River - thalweg, water level and natural boundary profiles scale H1:10,000 V1:200.

7. Compiled cross section data with plots.

a) Surveys Section H1:1,000 V1:200
b) Special Projects H1:1,000 V1:200
c) River Section H1:500 V1:100