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Not to be cited without prior reference to the Marine Laboratory, Aberdeen

Charter Vessel *Endrick II*

## REPORT

Cruise 0394H

3-7 October 1994

### Personnel

M Robertson	HSO	3-7 October (in charge)
C W Shand	HSO	4-7 October
E Armstrong	SO	3-5 October
S D Heaney	ASO	3-7 October
I D Tuck	Res Asst	3-7 October

### Gear

ROXANN, Sidescan sonar, TV sledge, grab, corer.

### Objectives

To carry out surveys of a control and a treatment site within upper Loch Gareloch.

### Out Turn Days

Five days BGFZ

### Narrative

After loading gear at Greenock harbour on the morning of 4 October, *Endrick II* sailed for Loch Gareloch at 0930 arriving on station around 1015. A grab survey of both experimental sites was then carried out. On 5 October the vessel returned to Loch Gareloch and carried out a full ROXANN and sidescan sonar survey. On completion, *Endrick* sailed for Greenock arriving there at 1300. All sonar equipment was then offloaded and the underwater TV system loaded and prepared for use. The TV survey commenced on the morning of 6 October and continued until 1700 when the vessel returned to Greenock and the TV equipment offloaded. The following morning, *Endrick* again sailed for Loch Gareloch arriving on station at 0930. Craib cores were collected from within the Control and Treatment areas for sediment analysis and organic carbon/chlorophyll estimation while further cores were collected from the general area of the loch for PSP cyst analysis.

Finally *Endrick II* returned to Greenock and offloaded all remaining equipment, work being completed by 1500 on 7 October.

## Results

A total of 14 grab samples and three Craib cores were collected from random positions within both experimental areas. These samples will be examined at the Laboratory. A further five cores were collected from the loch for PSP cyst work.

The sidescan sonar was towed along three transects within the disturbed area and along three in the control area. Trawl tracks and general disturbance of the sediment within the Treatment site were clearly visible. ROXANN again confirmed the muddy nature of the sea-bed.

Three hours of TV data from the disturbed area and three from within the control site were collected for analysis at the Laboratory. Although visibility was not very good, a colour camera mounted on a towed sledge was used throughout the survey.

M R Robertson  
21 October 1994