



5. a) TYPES OF SAMPLES REQUIRED (e.g., geological/water/plankton/fish/radionuclide)
 During teaching, continuous measurement of passing water will be carried out. Only water samples will be taken.

b) METHODS OF OBTAINING SAMPLES (e.g., dredging/coring/drilling/fishing, etc.)
 During cruises sensors will be lowered into the water column on a winch cable (niskin bottles, flow profilers, CTDs). Care will be taken to ensure that the instruments do not impact on the seafloor. Both the winch counter and high resolution ecosounder are useful for this.

6. DETAILS OF MOORED EQUIPMENT -None -

<u>Dates Laying</u>	<u>Recovery</u>	<u>Description</u>	<u>Depth</u>	<u>Latitude</u>	<u>Longitude</u>
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7. ANY HAZARDOUS MATERIALS (chemicals/explosives/gases/radioactives, etc.)
 (Use separate sheet if necessary)

- None -

- Type and trade name
- Chemical content (and formula)
- IMO IMDG code (reference and UN no.)
- Quantity and method of storage on board
- If explosives give dates of detonation
 - Method of detonation
 - Position of detonation
 - Position of detonation
 - Frequency of detonation
 - Depth of detonation
 - Size of explosive charge in kg.

8. DETAIL AND REFERENCE OF

a) Any relevant previous/future cruises
 Previous RV Norppa cruises as part of the HERMES and HERMIONE projects during 2009 – 2010.
 Previous RV Norppa cruise 2013-01 in the summer of 2013. This current cruise will augment the data