



Sampling and Equipment

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Sampling

- “The result of any testing method can be no better than the sample on which it is performed”
- The object of sampling is to collect a sample that is both transportable, and remains representative.



Planning

- Literature search
- Collection containers
 - ◆ Glass or plastic
 - ◆ light or dark
 - ◆ Size
 - ◆ Collection lids

Preparation for collection

- Collection bottles
 - ◆ Acid
 - ◆ sterilized
- Rinse blank
- Trip blank



Collection

- Pre-rinsing before filling
- Clear labels
- Field notes
- preserving
- transporting

Is the sample representative

- Integrated samples vs grab
- Effects of sampling gear on sample
- Effects of transport and storage on sample



Equipment

- Training
- Chemical grades
- Glassware maintenance
- Maintenance of sampling gear

Processing the sample

- Filtering
- Labeling
- Drying

Repeatability of sampling

- Time effects
- Sampling effects