

“Capacity Building and Strengthening Institutional Arrangement”

Analysis and Sampling Of Water And Water Pollution

working group n° 5
“Define a procedure for soil sampling,
analysis and control”

Ms. Elisa Calabretta

APAT

Agency for Environmental Protection and Technical Services

Define a procedure for soil sampling, analysis and control

Objectives:

Within the framework of an activity aimed at determining general soil properties, determine the mean concentration value of Pb within the arable layer (40 cm) of an agricultural soil area. The area of about 5200 square meters is flat, regularly shaped and quite homogeneous .

Define a procedure for soil sampling, analysis and control

Activities:

Discussion on the objective of the definition of sampling and analytical procedure (sampling programme, analytical methods, quality control).

Which information could be useful ?

Definition of some elements useful for reaching the objective of the investigation. Answer to the following question and add more information, if you need.

QUESTIONS

- Which sampling pattern could be used (random, systematic, stratified random, others)?
- Which sampling device to be used ?

Define a procedure for soil sampling, analysis and control

Activities:

- Which kind of samples do you collect: single samples or composite samples ? Which sampling device to be used ?
- Which analytical method (pre-treatment and instrumental analysis)?
- How can I control the quality of the measurements (during sampling and the analysis)?