

Training course of Field Kit
Testing

NORPLAN 

Reporting of results. Format, method

By: Prof.Eqrar

RuWatSIP water quality analysis report(1)

- Water sources information

- Name of water sample sender

- water sources address

Source of water

GPS coordination

- Date of sampling

- sample receipt date

- Date of analyzing

- Reporting date

Physical parameters


- Physical Water quality parameters(Color,Odor,Taste,EC,pH,Turbidity,T)
- Reference methods
- Permissible limits
- Results

Chemical parameters

- Chloride, Total ,Hardness,TDS,Nitrate(N),Residual free chlorine ,Fluoride, Total Iron, As,Ca,K,Na,Mg,CO₃,HCO₃,SO₄
- Chemical unit(mg/l
- Minimum Det. limite
- Reference methods
- Permissible limit
- Results

Bacteriological parameters

- Total Coliform/MPN/100ml
- Fecal Coliform/MPN/100ml
- Esh.coliform/+Ve/-Ve
- Reference methods
- Permissible limit
- Results

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- Abbreviation
 - Report and results by RuWatSIP lab.
 - Taking water sampling sender?
 - Approving of final results by RuWatSIP staff

WATER QUALITY Reporting(2)

Geographical location

Background of study area

Methods of investigation

Characteristics of surface waters

Characteristics of groundwater

Natural processes affecting water quality

DESIGNING A MONITORING PROGRAMME

Purpose of monitoring

Objectives of water quality monitoring

Preliminary surveys

Description of the monitoring area

Selecting sampling sites

Selecting sampling stations

FIELD WORK AND SAMPLING

Sample containers

Types of sample

Water samplers

Manual sampling procedures

Recording field observations

Sample preservation

Transportation and storage of samples

Reception of samples by the laboratory

Safety during field work



ADVANCED INSTRUMENTAL ANALYSIS



Atomic absorption spectrophotometry (AAS)

Gas chromatography

Ion chromatography

Flame photometry

Total, organic and
inorganic carbon



ANALYTICAL QUALITY ASSURANCE

Quality assurance

Internal quality control

External quality control



USE AND REPORTING OF MONITORING DATA

Quality assurance of data

Data handling and management

Basic statistical analysis

Use of data and the need for supporting information

Simple graphical presentation of results

Reporting

Recommendations

Source literature and further reading

Appendix