

**procedure sheet**

**Field protocols**

# Collect water sample



1. **Surface water**

emoe te cap from cotaer. ear loes.

Coect cotaer to a adle.

se cotaer wt stream water.

us cotaer upsde dow elow te water surface.

ur cotaer awa from ou so t faces curret.

C o

1. **Bore or well**

f tere s a aerator remoe t. u water for a few mutes.

ut water sample from tap or pump to cotaer



t

seet. Data record

Dauta record seet.

Take cap o probe and turn it on.

**Physical and chemistry field test: temperature and salinity**

A. Using LaMotte monitoring kit



# Chemistry field test: dissolved oxygen

ecord temperature of your water sample on the

Data record seet.

u o o

Carefull tae out tue eep t full to te top.

ut 2 o d

D

ae sure o ar ules are t.

d v

4 minutes

t u u

|  |  |  |  |
| --- | --- | --- | --- |
| dissolved oxygen | | nitrate | phosphate |
|  | | low medium high | 0 ppm    4 ppm    8 ppm |
| 0 ppm    4 ppm    8 ppm |  |
|  |



ompare colour of sample to the dissolved oxygen chart

rite result as ppm dissolved oxygen on **Data record seet.**

# Physical field test: turbidity

1. **Using LaMotte monitoring kit**

white ar

l

fill

5

ph

coliform

4

10

o o i

old turbidity chart next to top edge of container oo into container from above

low

medium high

8

9

turbidity

negative positive

ompare the secchi dis there with the chart



rite result as turbidity as on **Data record seet.**

1. **Using Turbidity Tube**

oo into tube from above and slowly pour in water from your sample

**S**

7

6

v v

**STOP!**

ead measurement on side of tube

**S**

rte result as turdt o Data record seet.

# Chemistry field test: phosphate



ill test tube to the mL line ater sample.

|  |
| --- |
|  |
|  |
|  |

Cap and shake un l tablet dissolves.

ait minutes or colour to sho .

ompare colour to the phosphate colour chart

|  |  |  |  |
| --- | --- | --- | --- |
| dissolved oxygen | nitrate | phosphate | |
| 0 ppm    4 ppm    8 ppm | low medium high | 0 ppm    4 ppm    8 ppm |  |
|  |
|  |

rite result as ppm phosphate on **Data record seet.**

# Chemistry field test: pH



|  |
| --- |
|  |
|  |
|  |

|  |
| --- |
|  |
|  |
|  |

coliform

turbidity

4 10

low

medium high

negative positive

5 9

6 8

7

seet. Data record

# Chemistry field test: nitrate



ill test tube to mL line ith ater sample.

|  |
| --- |
|  |
|  |
|  |

you re outside uickly slide test tube into protec ve sleeve .

Cap and shake or minutes un l tablet has dissolved.

ait minutes or colour to sho .

ompare colour of the sample to nitrate colour chart

|  |  |  |  |
| --- | --- | --- | --- |
| dissolved oxygen | nitrate | | phosphate |
| 0 ppm    4 ppm    8 ppm | low medium high |  | 0 ppm    4 ppm    8 ppm |
|  |

rite result as ppm nitrate on **Data record seet.**

d d

f doors ou do t eed to use t.

**Biology field test: *E. coli* bacteria**



high

7

8

6

*o ic o colio colo c .*

*o*

medium

9

5

negative positive

*o*

*. o o*

*E. coli i i*

*c c o .*

*o*

*o o*

*.*

*i oo*

*o o li*

21˚-27˚C

*o o i .*

ph coliform turbidity

4

10

low

*o* **seet.**