



IT'S TIME TO CARE!

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ERASMUS+ 2018-2020

PROJECT DURATION: 1 SEPTEMBER 2018 - 31 AUGUST 2020



SUSTAINABLE USE OF LAND

Methodology

Olaines 1.vidusskola

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Experiment carried by the team of Olaines 1.vidusskola on the topic Sustainable Use of Land

Materials:

- Small sterile lab dishes
- Tablespoon
- Plastic dropper
- Ziploc bags
- Labeling tape
- Universal pH indicator and color table
- Marker
- Water

Procedure:

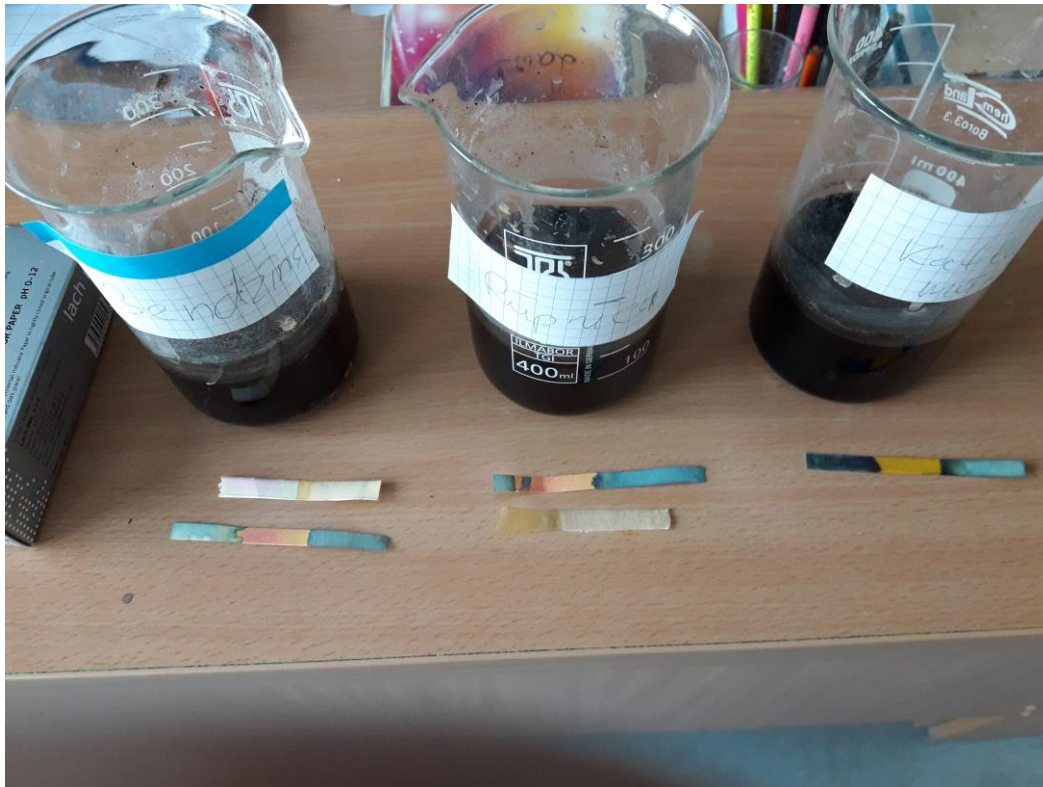
- Identify 4 different objects of pollution in your city.
- Collect 1 spoon soil samples from the area immediately surrounding the stations.
- Store the soil samples in individual Ziploc bags and label them with the location in which you found them.
- Collect 1 spoon soil samples from urban, suburban and rural areas away from dirty places. Collect at least 4 such samples.
- Place a small portion of each sample into an individual lab dish and label them.
- Cover each sample partially with water droplets and add a couple of drops of the universal pH indicator.
- Observe the samples carefully and record the pH, using the color table as a guide.

First, we decided to collect the soil from 4 different places in our city and its surroundings. We collected soil from 4 different objects - Gas station, Boiler house, Industrial area and railway.

Then we put each sample into an individual lab dish and labelled them.

We covered each sample partially with water droplets and added a couple of drops of the universal pH indicator.

We observed the samples carefully and recorded the pH, using the colour table as a guide.



	Location	Ph
Object 1	Gas station	3-8
Object 2	Boiler house	5- 7
Object 3	Industry area	6-7
Object 4	Railway	4