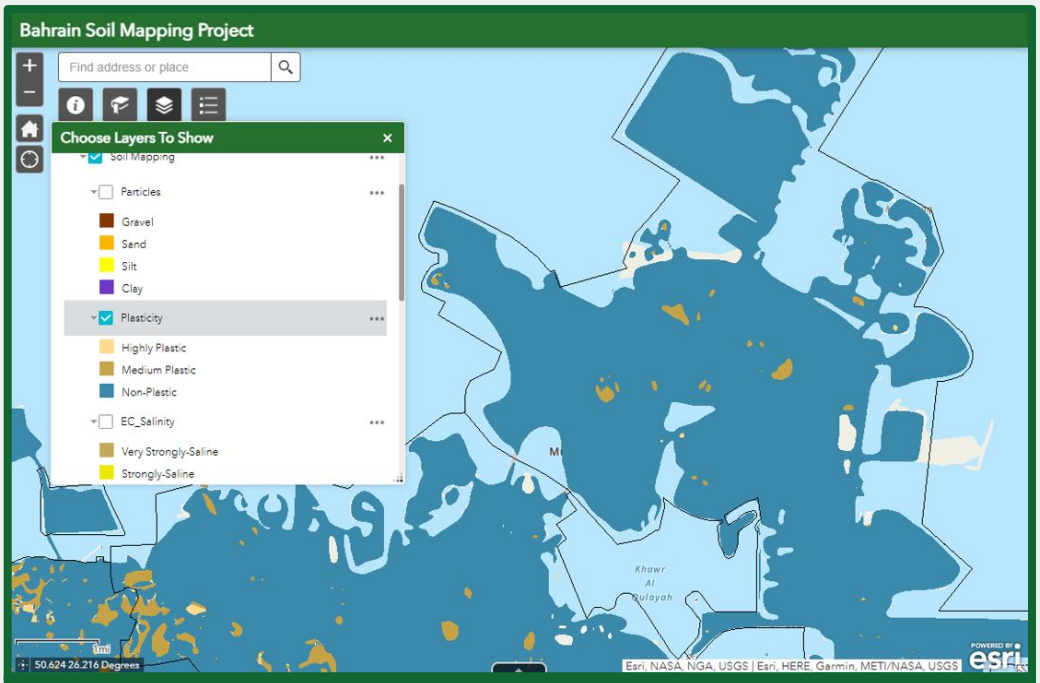
KINGDOM OF BAHRAIN
Information & eGovernment Authority

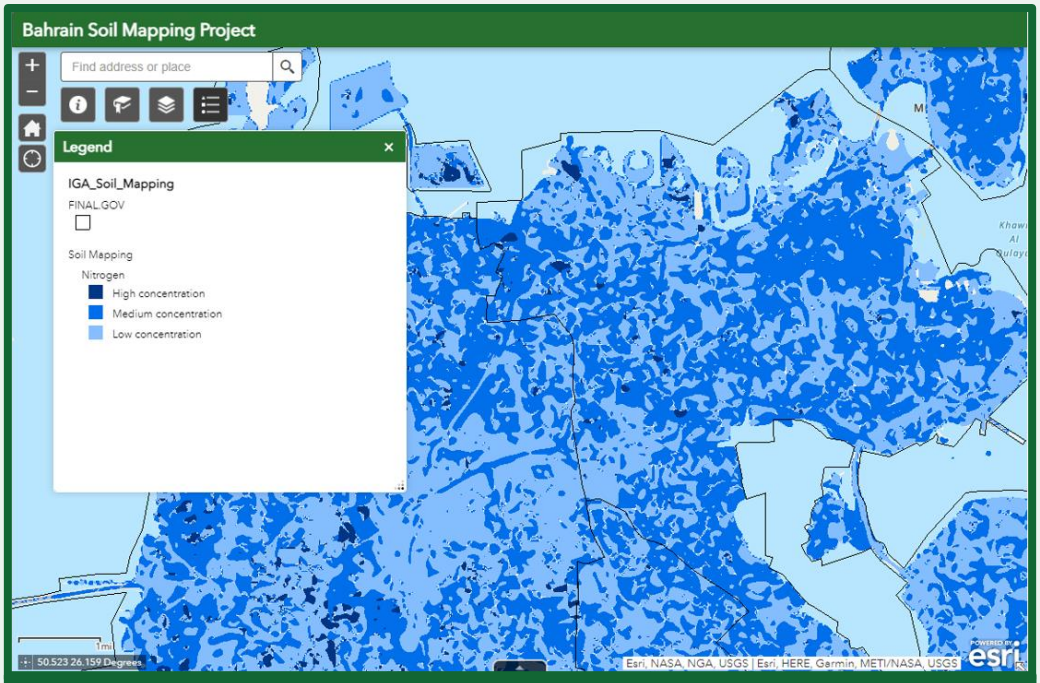
Bahrain Soil Mapping Project (2019)

Project Results

Project Results



Soil Mapping Project Result, showing levels of Plasticity content detected in soil samples in a certain area.



Soil Mapping Project Result, showing levels of Nitrogen content detected in soil samples in a certain area.

Project Results

The series of maps represent the major results of the project:

Soil Type

The dominant soil type is sand and if followed with gravel, the sand is mostly distributed in the low land areas and coastal areas. Gravely areas are concentered in the higher grounds around Sakeer and adjacent areas. Pockets of silty and clay areas are scattered throughout the central parts of Bahrain.

Plasticity

Plasticity is a measure of soil ability of being moldable. The major soil plasticity type is non-plastic soil which is spread in the whole country. Other types of soil plasticity include medium plastic soil and high plastic.

Salinity

Soil salinity is the measure of salt content in soil - it is measured using Electrical Conductivity test. Salts in the soil may inhibit plant growth and reduce the crops yield. The soil salinity in Bahrain varies from very slightly saline to a very strongly saline, with the southwestern areas being the highest areas in terms of salinity.

Project Results

pH

pH is a figure expressing the acidity or alkalinity and is tested accordingly for soil. pH affects the plant growth and the dispersal of important nutrients in the soil. Bahrain soil is alkaline by nature as the soil in the Arabian Gulf. The alkalinity of Bahrain soil is predominately medium.

Nitrogen

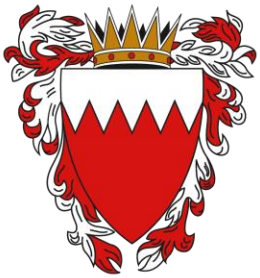
Nitrogen is one of the most important plants nutrients that have a crucial role in the production of chlorophyll and plant growth. Bahrain soil contains low concentration with pockets of medium and high concentrations of Nitrogen.

Phosphorus

Phosphorus is important in cell division and development of plant new tissue. Phosphorus are found in abundant levels in the soil of Bahrain.

Potassium

Moderate levels of potassium in the soil is beneficent for the plant's health, albeit, high levels of potassium will disrupt the uptake of other important nutrients, such as calcium, nitrogen and magnesium. Potassium levels in Bahrain soil is predominantly high.



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