

Water system in Mataró

Escola La Llàntia 5th A

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Mataro Water System:



Parts: River Ter, 34 wells, 5 mines and 15 tanks, pipes, buildings, drains, water plant treatment, collector drains.

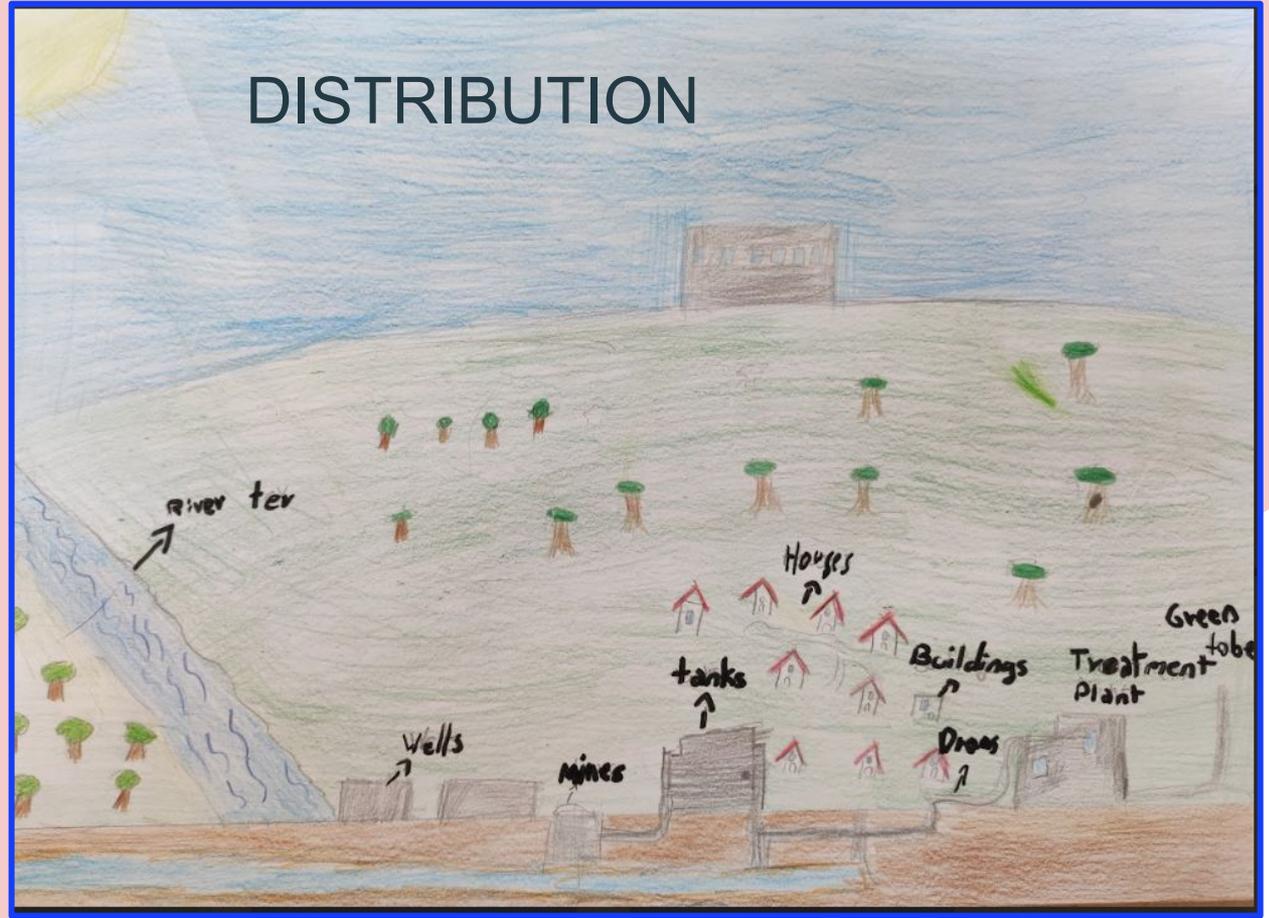


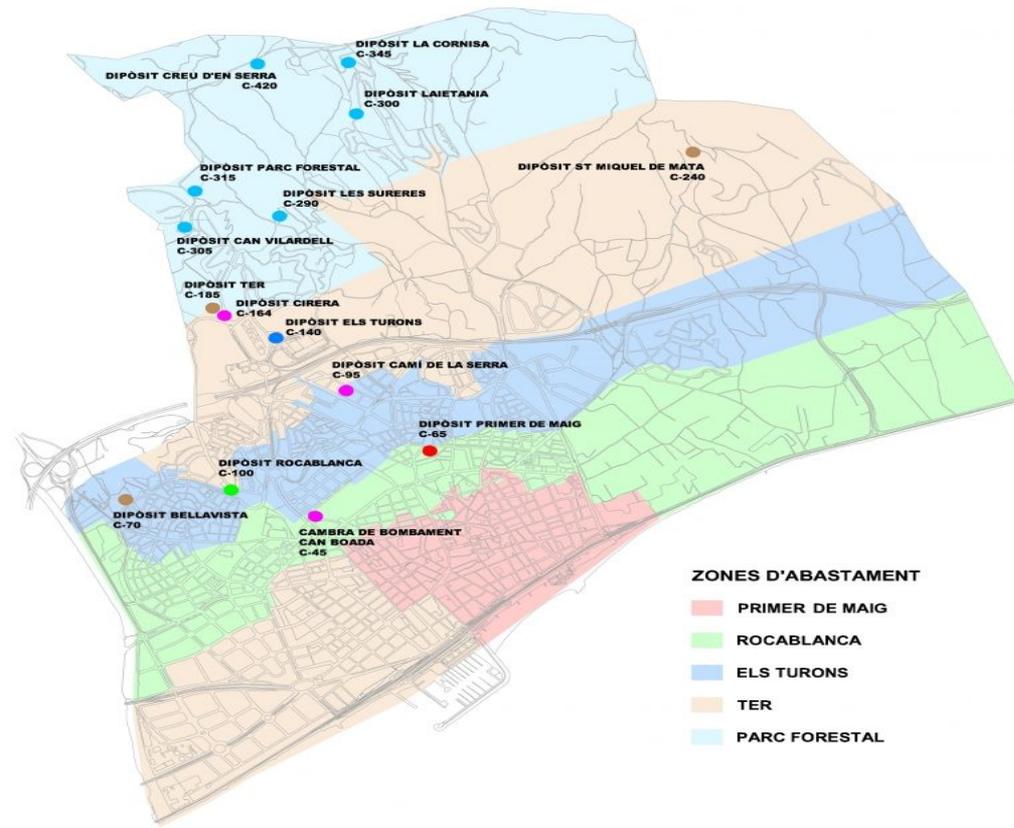
People: Maintenance workers, engineers and office workers, consumers

DISTRIBUTION

Water is taken from River Ter, the mines and wells in the city and stored in one of the 15 tanks where it is potabilized. From there it is distributed to all the buildings in the city by pipes

Once used, waste water goes through the drain system to the Water Treatment Plant to be cleaned and reused.





On this map we can see that each tank is located a little higher than the neighborhood it corresponds to. This is to avoid having to pump water and waste energy.

For example: the old town (in pink) is below the Camí de la Serra tank (purple dot) so as not to have to pump the water. Very simple!

Tanks Rocablanca and Bellavista (green and brown dots) are very close to our school but they provide water to lower parts of the city, not to our building which is located slightly higher.

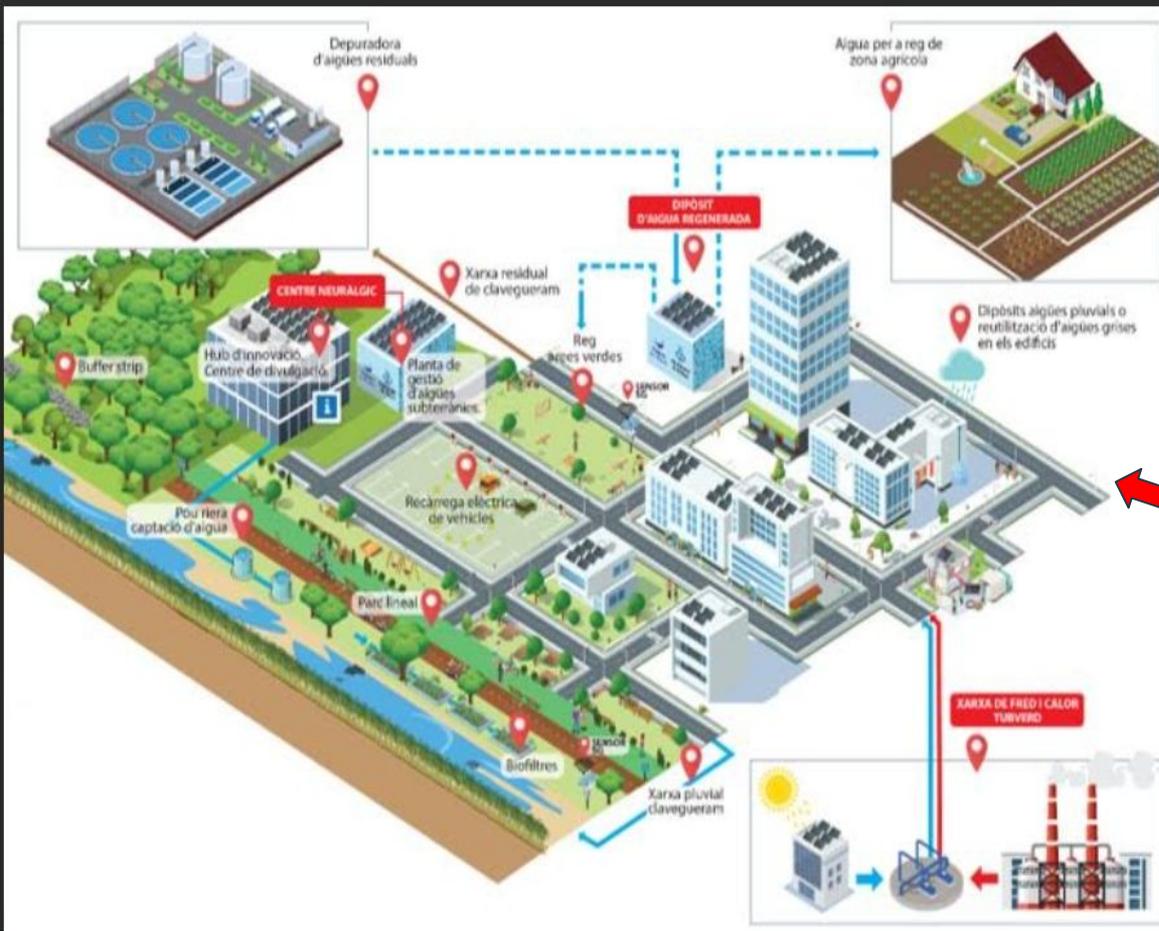
This is how we distribute water in Mataró.

SUSTAINABILITY

In this diagram we can see how water from rain and drains is cleaned in the Water Treatment Plant and it can be reused to:

- Water gardens and fields
- Produce energy for Public Buildings in the city

There are also tanks to collect water from rain.



At the end of the drains, there are nets to avoid waste to go to the sea.



The water system is sustainable thanks to the so called green tube, the solar panels and the Water treatment plant.

Green tube: is an urban heat and cold distribution network that produces thermal energy with the recycled water coming from drains, operated by Aigües de Mataró.

Solar panels: is a device that converts sunlight into electricity by using photovoltaic cells. All the tanks in the city have solar panels on their roofs and provide energy to the buildings of Aigües de Mataró

Water treatment plant: It collects water from drains and eliminates its polluting substances, so that it can be reused. It has the capacity to generate 70 cubic meters of water per day.

