

# South Bay Water Reclamation Plant Treatment Process

Sewer drains carry wastewater from our homes and businesses to the treatment plant.

## BAR SCREEN

The wastewater is first sent through a screen that collects and removes large debris.

## GRIT CHAMBER

In the grit chamber heavy debris, such as sand, settle to the bottom of the tank where it is removed.

DEBRIS

## PRIMARY CLARIFIER

In primary treatment, heavy particles such as dirt sink to the bottom of large tanks and are removed.

OXYGEN

## AERATION TANKS

In the aeration tanks, wastewater is mixed with oxygen to create an environment for bacteria to decompose organic pollutants.

TO SEWERS

## SECONDARY CLARIFIER

During the secondary treatment phase, bacteria is added to organically rid the water of harmful pollutants. The remaining waste is removed as sludge for reuse as fertilizer.

## TERTIARY FILTERS

Then the water trickles through anthracite coal filters to remove remaining wastes.

## UV DISINFECTION

At this stage, filtered water is disinfected with ultraviolet light to kill any remaining bacteria.

The water is recycled for use in irrigation and industrial uses.