North City Water Reclamation Plant Treatment Process

- **Bar Screen**: The wastewater is first sent through a screen that collects and removes large debris.
- **Primary Clarifier**: In primary treatment, heavy particles such as sand sink to the bottom of large tanks and are removed.
- **Grit Chamber**: In the grit chamber, heavy debris, such as sand, settles to the bottom of the tank where it is removed.
- **Aeration Tanks**: In the aeration tanks, wastewater is mixed with oxygen to create an environment for bacteria to decompose organic pollutants.
- **Secondary Clarifier**: In the secondary clarifier, organic solids settle to the bottom of the tank and are separated from the treated wastewater. The organic solids consist primarily of bacteria. Most of the bacteria are pumped back to the aeration tank to continue the treatment process.
- **Sludge**: The sludge is further processed to remove organic materials.
- **Tertiary Filters**: Water trickles through anthracite coal filters to remove remaining wastes.
- **Demineralization**: Reduction of dissolved minerals to make water suitable for all reclamation uses.
- **Chlorine Contact Basin**: At this stage, filtered water is disinfected with chlorine to kill any remaining bacteria.
- **Metro Biosolids Center**: The treated wastewater is then sent to the Metro Biosolids Center for further processing.
- **The Water**: The water is recycled for use in irrigation and industrial users.

The water recycled lor use in irrigation and industry.