

Greywater Management System

The Centenario Industrial Park features a greywater network engineered for the safe and efficient management of non-sanitary wastewater, thereby enhancing the development's water sustainability through its potential reuse in irrigation, cooling, or industrial applications.

Technical Specifications:

- Main pipe: Hydraulic PVC RD-26, nominal pressure of 11 kg/cm².
- Installed diameters: 2 inches, 3 inches, 4 inches, and 6 inches (50 mm to 150 mm).
- Total installed length: Over 7,000 linear meters of secondary and residential network.
- Layout and installation: Precise topographic leveling, dry mechanical excavation, and 80% Proctor compaction.
- Pipe support: Sand template and ribbing with a 20 cm thickness.
- Home connections: 70 individual outlets utilizing 32 meters of RD-26 PVC piping for each outlet.
- Valve boxes: Types 5 and 12 featuring partition walls and concrete slabs with a compressive strength of $f'c = 200 \text{ kg/cm}^2$.
- Sectioning valves: Available in all diameters, each subjected to individual hydrostatic testing.
- Special components: Tees, crosses, reducers, spigots, bells, and 45° elbows, assembled and stored on-site.

Regulations and Technical Guidelines:

- Installation must comply with local regulations and standards for the reuse of non-sanitary wastewater.
- Tests for tightness, resistance, and hydrodynamic operation by section and connection.

Strategic Benefits:

- Parallel and sustainable infrastructure: facilitates the discharge and potential reuse of greywater while preventing contamination of the sanitation system.
- Exceptional durability: materials that withstand pressure, corrosion, and subsidence.
- Streamlined maintenance: access via strategically positioned valves and technical enclosures.
- Operational flexibility: integration with reuse, recirculation, or regulated discharge processes.