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Fact sheet

Wastewater treatment plant odor

Introduction

We consider wastewater treatment as a water use because it is so interconnected with the other uses of water. Much of the water used by homes, industries, and businesses must be treated before it is released back to the environment.

If the term "wastewater treatment" is confusing to you, you might think of it as "sewage treatment." Nature has an amazing ability to cope with small amounts of water wastes and pollution, but it would be overwhelmed if we didn't treat the billions of gallons of wastewater and sewage produced every day before releasing it back to the environment. Treatment plants reduce pollutants in wastewater to a level nature can handle.

Wastewater also includes **storm runoff**. Although some people assume that the rain that runs down the street during a storm is fairly clean, it isn't. Harmful substances that wash off **roads, parking lots**, and rooftops can harm our **rivers and lakes**.

The major aim of wastewater treatment is to remove as much of the suspended solids as possible before the remaining water, called effluent, is discharged back to the environment. As solid material decays, it uses up oxygen, which is needed by the plants and animals living in the water.
"Primary treatment" removes about 60 percent of suspended solids from wastewater. This treatment also involves aerating (stirring up) the wastewater, to put oxygen back in. Secondary treatment removes more than 90 percent of suspended solids.

Solution

Valens Company is a pioneer in the field of treating **wastewater odor**. In implementing its solutions, it relies on advanced, promising, fast, and well-established technology. It does not limit itself to mask odor but it completely eliminates it from its source. It builds in its solutions on emphasizing data, the human mind, the modernity of the machine, and alternatives to materials, and through the integration of processes, magnificent results and brilliant outputs are achieved.

Important data before treatment

1. What is the water flow to be treated? Please provide peak flow and daily average, along with the length of the working day, where applicable.
2. What is the target water quality and what is the desired usage for the treated water?
3. Provide a sketch of the layout and elevation of the present hydraulics.
4. If the discharge is under pressure, please specify this pressure.
5. Has any treatment been already applied? If so how effective was this treatment? If possible, please provide BOD levels prior to and after the existing treatment.
6. What is the primary source of the waste? Examples: Vegetable processing plant, Chicken processing plant, Municipality of 3,000 people, Cyanide removal from a chemical factory, hospital effluent
7. Is a clean and dry room available, of what size?
8. Do you plan any future expansion?
9. What is the electrical power source available (voltage, current, frequency)?

Benefits

- Odor control
- Chemical saving
- Process stability
- Potential improvement in classification of bio-solids
- Reduction in total operating costs
- Suitable for all biological WWTP's
- Cost savings typically exceed cost of Sept-X
- Suitable for plants with biogas generation

Contact

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