



Huber's RakeMax® Brings Havre, MT Wastewater Processing from the Stone Age to the Modern Age.

"The RakeMax system is priceless in the improvements that we've experienced in our operations. It has brought our plant from the stone age to the modern age."

Bill Dean - Superintendent at the City of Havre Wastewater Treatment Plant

The City of Havre Wastewater Treatment Plant was in search of a replacement solution that would improve their screening process and specifically prevent sand and rags from passage.

The old system often became plugged with rags, which increased the Biochemical Oxygen Demand (BOD) loading, and removed organics that had to be re-entered into the stream through extra treatment processes.

Huber's RakeMax® system set itself apart as the technology of choice for the City of Havre because of its:

- Game-changing design
- Durable materials and construction
- Impressive potential cost savings



"The system works very well and requires such minimal attention that we almost forget about it. If there's a better bar screen out there, I for one, would be very, very amazed. We wish we had installed the RakeMax® thirty years ago."

Challenge:

Frequent clogs, build-up of grit and inefficiencies in operations had forced the City of Havre to look for replacement technology for its screening process. Because of the close proximity of communities to the plant, the City also wanted to implement a system that would help reduce odor emissions.

The City of Havre faced three formidable challenges:

- 1 Grit passage was putting stress on every downstream component.
- 2 Grit build-up was consuming valuable space needed for water in the tanks.
- 3 Emission of odors was unpopular with neighbors and almost intolerable for crews.

Solution:

The City of Havre learned quickly to depend on Huber's RakeMax technology to help it overcome its challenges. The highly effective RakeMax enables the City's operations to remove such a high percentage of inorganics and grit that the downstream processing is more effective and components are less stressed. The RakeMax reduces offensive odors

by removing a tremendous percentage of the waste that is generally trapped downstream in the screening process. The system's configuration uses top and bottom covers to practically eliminate any remaining odors from emitting into the air.



"We are now a neighbor-friendly plant because the surrounding communities are no longer forced to tolerate offensive processing odors."

In the beginning

Because Havre's staff could install the RakeMax system, the need for outsourced installation consultants was eliminated. The project racked up a \$35,000 savings at the very beginning of the implementation.

The RakeMax system arrived in adjustable components that are designed to adjust to the size and depth of the channels. According to Wastewater Treatment Plant Superintendent Bill Dean, this is unique to the RakeMax. For the City of Havre, the system's adjustability eliminated the need to make roof structure changes to accommodate height requirements - which is often common with other systems.

The RakeMax simply works

And it works simply. The rakes and screens work seamlessly as a non-disruptive force in removing waste early in the screening process. The RakeMax operates at optimum performance without human intervention producing a cleaner end stream. There is even a bonus. The RakeMax process keeps the plant cleaner, too.

Operators are totally out of harms' way as they perform their duties. No one is required to do the constant monitoring and maintenance that took place with the previous system. Unscheduled shutdowns and maintenance are almost unheard of with Huber's RakeMax, but the crew does cursory cleanings of its compactors on a 2-month cycle and performs 6-month maintenance checks during which the system is shut down.

The supporting cast

With such a stellar performance record, the most common need for the City to contact Huber is for ordering serpentine bags that are regularly changed in the composter.

Huber's experience with municipalities and with wastewater processes is extensive as is its knowledge of the technologies it provides. This industry-technology insight allows Huber to work with organizations to ensure that systems are geared to perfectly match up to immediate tactical challenges and long-term strategic goals.

"Huber's staff has been fantastic. They are very knowledgeable and experienced with our industry and processes. Because of Huber and their technology, we have a maintenance and stress free screening process that delivers an incredibly clean end product via an efficient and non-offensive facility."



Havre, MT Waste Water Treatment Plant

Website:
<http://www.ci.havre.mt.us/>

Facilities: 1

RakeMax® Implementations: 1

Service Area: City of Havre, the County Seat of Hill County and Montana's eighth largest city, with a population of 9,310

Havre is located approximately 45 miles south of the Canadian border, in the center of Montana's "Hi-line". The purpose of the Public Works Department, under the direction of David Peterson, is to provide the people of Havre a safe and healthy place to live. It is the goal of the Public Works department to achieve a high quality of life through cost effective planning, operations and maintenance of the city's infrastructure.



Huber serves the municipal and industrial wastewater treatment market with high quality liquid-solid separation technology. Huber Technology offers the complete chain of screening, grit and sludge handling processes. The company is an original source manufacturer specializing in stainless steel fabrication of technologies for water and wastewater. Headquartered in 35,640 sq. ft. of office and manufacturing space in Huntersville, N.C., Huber Technology, Inc. Huber proven experience and expertise with over 25,000 installations worldwide.