



What goes up...must be bagged! This Auger Monster is located at a County correctional facility where it removes solids from wastewater entering the municipal system.

Monster Solutions

Florida Jail House Blockages Get Bagged

Ft. Pierce, FL - An article appeared in the March 2004 Florida *Pretreatment Communicator* discussing solid waste discharge to the Fort Pierce Utilities Authority (FPUA) sanitary sewerage system.

Solid waste, consisting of whole oranges, plastic bags, toothbrushes and a host of other material was continually discharged from the County's correctional facility. This material, accumulating in the force main serving the facility, created abnormally high pressures – hindering downstream lift stations and causing sewage backups.

County officials readily acknowledged the situation and approved an allocation for the design and construction of a new solid waste removal system.

Hazen and Sawyer Environmental Engineers tackled this challenge by integrating a JWC Environmental Auger Monster® downstream from the facility's existing Muffin Monster® grinder.

Auger Monster Theory 101...

Solid waste material is shredded into smaller particles as it passes through the Muffin Monster. These particles collect against a perforated stainless steel screen located in the Auger Monster. Predefined water levels trigger the Auger Monster to begin operating. As it rotates, brushes on the Auger Monster sweep the accumulated particles from the screen. The spiral configuration of the auger conveys the particles out of the waste stream, sprays them with wash water, and dumps the cleaned solids into a disposal receptacle or bag.

PROBLEM: Discharged solids from a prison caused downstream backups.

SOLUTION: Auger Monster wastewater screen.

CONSULTANT: Hazen & Sawyer

A Win-Win Situation...

The Auger Monster has virtually eliminated the discharge of solid waste materials from the facility. Treatment plant operators and the lift station maintenance crew are breathing a sigh of relief from the reduction of solid waste material entering the collection system. Lift stations that contribute to the correctional facility force main are once again operating properly and at regulated pressures. Florida county officials have realized that this improvement project increased the reliability of wastewater services to the 1,200 bed facility, enabling the county to provide a safe environment for inmates, officers and staff.

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Written by Mark Mathis, Ft. Pierce Utilities Authority. Reprinted, with permission, from the **Pretreatment Communicator**, a publication of the Florida Industrial Pretreatment Association (FIPA). April 2005, Volume 10 Issue 1



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Penitentiary No Longer Imprisoned By Problem Thanks To Auger Monster's Technology

Before it had an Auger Monster installed in its wastewater outflow works, a federal penitentiary in Terre Haute, Indiana, experienced continual maintenance problems with a worn out bar screen which failed to adequately trap and remove cloth items such as towels and sheets. As a result, this material went to the institution's lift station, threatening to clog and damage the wastewater pumps.

This Indiana prison is a maximum security federal penitentiary with approximately 1300 inmates. It had an Auger Monster installed in October of 1998 after seeing what the unit could do in a demonstration by JWC's Demo Truck team.

The Auger Monster replaced a competitor's bar screen which "wore out and also required a lot of maintenance," says the penitentiary's Chief of Utilities, Steve Setzer. He explained that crews had to go in twice and sometimes three times a day to collect and bag the solids that had dropped onto a large pan situated under the screen. The bagged material was then loaded into an ordinary trash dumpster for hauling to a local landfill. In addition to this frequent ritual, the screen itself required repeated manual washing.

Under the new system, the Auger Monster works in tandem with a fine bar screen located at the back end of the grinder to provide additional non-organic solids removal. The Auger Monster not only helps prevent pump clogging by grinding up the solids to a consistency that the treatment works (the bar screen) can handle but it has dramatically reduced the heft of those solids that are collected, bagged and transferred to the dumpster.

This solids volume reduction translates into significant time savings. According to Setzer, under the old system it took crewmen one and a half hours to collect, bag and dispose of the solids every time the solids pan had to be emptied. Thanks to the Auger Monster, 60% less time is required for this procedure.

In today's management climate, smart managers are ever on the lookout to find ways to make their systems more efficient and to reduce costs. The Auger Monster has resulted in both outcomes, while requiring little maintenance.

"Henry P. Thompson came out in mid April (of 1999) and made some minor adjustments to the unit but, other than that, the unit is doing fine," Setzer said.



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Headquarters

290 Paularino Ave.
Costa Mesa, CA 92626 USA
Toll Free: (800) 331-2277
Phone: (949) 833-3888
Fax: (949) 833-8858
jwce@jwce.com

Western Service

2600 S. Garnsey St.
Santa Ana, CA 92707, USA
Toll Free: (800) 331-2277
Phone: (949) 833-3888
Fax: (714) 751-1913
jwce@jwce.com

Eastern Service

4485 Commerce Dr, Ste 109
Buford, GA 30518, USA
Toll Free: (800) 331-8783
Phone: (770) 271-2106
Fax: (770) 925-9406
jwce@jwce.com

