

## IN BRIEF:

### SITE/LOCATION:

Fremont, WI  
Orihula Sanitary System installed in 1998  
with 150 progressing cavity pumps.

### PROBLEM:

Expensive, frequent main flushing required to keep one of the pressure sewer's segments, Red Oaks, from clogging. The clogging was due to the inability of the progressing cavity pumps to adequately flush solids from the 3" pressure main.

### SOLUTION:

Crane Pumps & Systems modeled the Orihula Sanitary System using sophisticated piping software, illustrating to Fremont Plumbing & Heating the benefits and improvements the Barnes Replacement Core Units, utilizing the Barnes Omni Grind Plus, can provide.

Key features include universal design to fit directly into the current grinder wetwell, higher flow rates for greater velocity in the pressure main to eliminate odor and clogging, and the grease-proof ESPS level control assures trouble-free operation.

## Applications & Systems

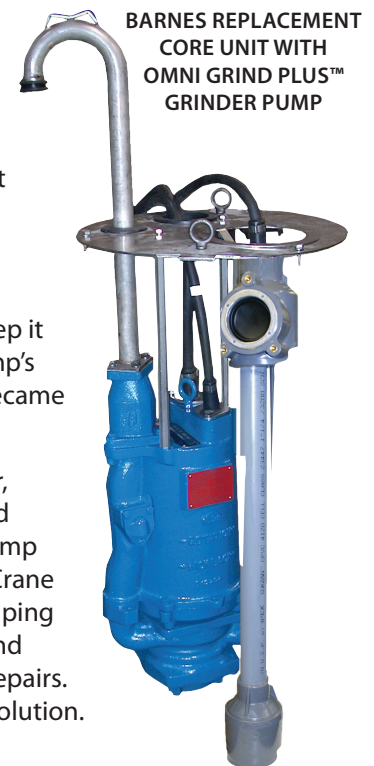
# Barnes Replacement Core Unit Eliminates Maintenance Costs

## The Barnes® Pressure Sewer Solution

When the Orihula Sanitary (Pressure Sewer) System of Fremont, WI was installed, 30 homes were planned for the Red Oaks segment, so a 3" pressure main was put in place. Only 8 homes were built on this segment. When 2 of the 8 homes became seasonal use, the progressing cavity pumps could not provide flow rates sufficient to scour solids from the main piping, resulting in clogging.

It was necessary for Fremont Plumbing & Heating, Orihula's contractor, to flush the line frequently to keep it open as well as to replace the progressing cavity pump's stators as they wore out quickly whenever the line became plugged, at high cost to the municipality.

Jim Murray, Inc., a Crane Pumps & Systems distributor, shared the improved operation and benefits provided by the Barnes centrifugal Omni Grind Plus™ (OGP) pump with Phil Hering of Fremont Plumbing & Heating. A Crane Pumps & Systems engineer conducted a complete piping analysis modeling the system utilizing OGP pumps and demonstrated the ability to eliminate clogging and repairs. It was clear, the OGP replacement core unit was the solution.



Fremont Plumbing & Heating replaced 7 progressing cavity pumps with Barnes Omni Grind Plus replacement core units in the Red Oaks segment of the Orihula Sanitary System. Hering reports they have not had to flush the system since installation.

# CRANE

PUMPS & SYSTEMS



BARNES REPLACEMENT CORE UNIT  
INSTALLED AT ORIHULA SANITARY SYSTEM

**"Through the years, Barnes pumps perform, have a longer life span and do not have the call backs we've experienced with other pumps."**

**- Phil Hering,  
Fremont Plumbing & Heating**