

BELZONA RESTORES WORN ARCHIMEDES SCREW

CUSTOMER

Wastewater Treatment Plant, Ohio

APPLICATION DATE

April 2013

APPLICATION SITUATION

58' long Archimedes Screw used to lift water at the water treatment plant.

PROBLEM

Erosion and corrosion caused the edges of the screw flights to be worn down, thus losing efficiency.

PRODUCTS

Belzona® 1811 (Ceramic Carbide)

SUBSTRATE

Steel

APPLICATION METHOD

Application was carried out in accordance with Belzona Know-How System Leaflet SHM-14. The entire 58' long screw was blasted before applying Belzona® 1811 to rebuild and reinforce the edges that were worn down. Where large sections of the flights were missing, expanded metal was welded in place prior to applying the Belzona® 1811.

BELZONA FACTS

The customer stated that the Belzona repair was much less costly than replacing the Archimedes Screw and importantly was completed in far less time than conventional repairs would have taken.

PICTURES

1. 58' Archimedes Screw on Flatbed Hauler
2. Worn Flights on Archimedes Screw
3. Blasted and prepared for application
4. Belzona® 1812 applied to the Flights



1.



2.



3.



4.

For more examples of *Belzona Know-How In Action*, please visit <http://khia.belzona.com>



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