



With over 400 years of combined reliable management experience, Eagle Services offers industrial cleaning, environmental cleaning, and industrial maintenance projects for customers in a wide variety of industries.



AUTOMATED HIGH-PRESSURE WATERBLASTING FOR A 3,000-TUBE EXCHANGER AT A CHEMICAL PLANT

A 3,000 tube exchanger at a chemical plant in Illinois is cleaned successfully. Hot product passed through the tube side; and cooling water passed across the shell side. The product had set up in the tubes and was not responding to conventional 20,000 psi waterblasting methods, so Eagle Services increased the water pressure to 40,000 psi. This proved to be the most effective, cost efficient cleaning method for the tube side of the exchanger.

Meanwhile, as Eagle Services worked closely with the customer's lab technicians, it was determined there were no significant changes in the chemical properties of the product that could be attributed to the hardening of the product in the tubes. So we turned our attention to the shell side of the exchanger and focused on the exchanger's ability to cool the product.



After obtaining and analyzing scale retrieved from a low point drain, Eagle Services and its customer determined it was necessary to chemically clean the scale from the shell side of the exchanger. Because of the type of scale found and the metallurgy of the exchanger, the solvent of choice was inhibited hydroxy-acetic, formic acid in the appropriate ratios.

Since this 48-hour episode, a routine maintenance schedule is followed; and this piece of equipment has not been down for more than 24 hours for cleaning and operates at increased efficiency between cleaning intervals.

WHAT WE CLEAN:

- Combustible Dust
- Condensers
- Drains and Troughs
- Dryers
- Evaporators
- Heat Exchangers
- Fans
- Fin Fan Air Coolers
- Food Grade Process Equipment
- HVAC Equipment
- Industrial Ovens
- Pumps & Other Machinery
- Paint Booths
- Pits, Ponds, & Lagoons
- Process Piping
- Rail Cars
- Reactors
- Sewers & Drain Lines
- Silos
- Tanks & Vessels

EXAMPLES OF SERVICES WE PROVIDE:

-  Biohazard Contamination
-  Chemical Cleaning
-  Concrete Scarification
-  Hydroexcavating
-  Dry Ice Blasting
-  Filter Pressing
-  Mold Abatement
-  Paint Prep
-  Pipeline Cleaning
-  Pumping / Dewatering
-  Runway Stripping
-  Sewer Cleaning
-  Special Waste Hauling
-  Spill Response
-  Sewer Cleaning
-  Vacuum Dry / Wet
-  Video Inspection
-  Waterblasting
(10,000 - 40,000 psi)
-  Water Cutting
(10,000 - 40,000 psi)

EXAMPLES OF INDUSTRIES WE SERVE:

-  Agribusiness
-  Automotive
-  Biodiesel Refineries
-  Chemical Processing
-  Environmental / Response Contractors
-  Ethanol Refineries
-  Food Processing
-  Government
-  Industrial Gas
-  Manufacturing
-  Municipalities
-  Natural Gas
-  Personal Care Products
-  Petroleum Refineries
-  Pharmaceuticals
-  Pipe Lines
-  Plastics Processing
-  Power Generation
-  Pulp and Paper
-  Rail
-  Resins
-  Steel Mills / Metal Processing
-  Transportation Terminals
-  Water Treatment

WE PROVIDE INDUSTRIAL AND ENVIRONMENTAL CLEAN UP SERVICES 24/7/365 TO PROCESS INDUSTRIES IN THE MIDWEST AND PLANNED CLEAN UP SERVICES FROM COAST TO COAST.



Contact us to learn more information about how our waterblasting and industrial cleaning services can help you maintain equipment and improve efficiency in your facility.

(219) 763-1111

EAGLESERVICES.COM