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Green Clean



Register photos/LUKE WARK

ABOVE: Brent Kaiser, owner of ECO Cleaning Systems, kneels near the environmentally-friendly industrial power washer he designed. **BELOW:** Kaiser holds examples of the waste materials trapped and solidified in a way he says can be disposed of safely as non-hazardous materials. At right is the final water product, which is recirculated in the machine.

Portage Twp. man says the machine he built is earth-friendly and cleans up a storm

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PORTAGE TWP.

It's a mean, green, cleaning machine, and it's poised to sweep up the competition. Brent Kaiser, who owns ECO Cleaning Systems in Portage Township, has invented a new type of power washer that is as environmentally friendly as it is easy to use.

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POWER WASHER

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A 30-year veteran of the industrial cleaning product industry, Kaiser said he's been knocking around the idea for the super-efficient power washer for about four years.

"When the (Environmental Protection Agency) started getting involved with the power washer industry, that's when I started to think about it," he said. "Nothing was addressing the EPA's concerns."

After more traditional power washing, left over wastewater requires costly disposal as a hazardous material. Other cleaning systems can also leave behind dangerous oil and chemical residues that can run off into natural waterways.

Kaiser's HydroRecyClean power washer blasts surfaces with hot water, loosening dirt, chemicals, oils and heavy metals. Then, using a special containment system, the dirty water is sucked up and run through the machine's filtration system.

The filters remove solid materials like dirt, pebbles and any other large waste. Then, a special filter absorbs hazardous hydrocarbons such as diesel fuel and engine oil. The oils are trapped in a non-leachable form that resembles a rubber disk.

Finally, using a coagulant, any remaining chemicals and materials are settled out, leaving clear, clean water. The water is pumped back through the system to do some more cleaning.

This process happens at about 10 gallons per minute while the power washer is in use. The machine can be used on surfaces such as factory floors, parking lots and roads. It can also be used to clean boats, trucks and the sides of buildings.

Kaiser said what makes his washer so exciting is the materials filtered out of the water are safe to throw away in the trash. He said that can save companies a fortune in hazardous disposal costs.

Right now, Kaiser assembles the made-to-order machines in Portage Township with supplies purchased in Ohio. The tanks



Register photo/LUKE WARK

Brent Kaiser, owner of ECO Cleaning Systems in Portage Township, demonstrates the new environmentally friendly power washer he designed and built. The industrial machine uses water and vacuum pressure to clean surfaces while employing special filters to make waste products safe to dispose of in the trash.

for the machine are made in Sandusky.

He anticipates as more people see demonstrations and hear about the benefits of the machine, a fully fledged production line will get underway. A machine designed for two people to use at the same time costs about \$125,000.

Kaiser says he can build the machines to meet the needs of individual companies. He plans to discuss the possibilities for crash cleanups with local fire

departments soon.

In addition to building the machines, Kaiser plans to have a staff that can be contracted for cleaning. That means the potential creation of five to 10 new, year-round jobs.

"Ottawa County is what, No. 2 in the state in unemployment?" Kaiser said. "So anything I can do (will) help."

For information on the HydroRecyClean, go to ecocleaningsys.com.