

# Pumping Solutions



Difficult Pumping Applications  
from Blackhawk Environmental Company

---

## NEITHER EXTREME DIRT, SILT, SLIME NOR GRIME DETERS BLACKHAWK ENVIRONMENTAL'S ANCHOR PISTON PUMP FROM ACHIEVING ITS LANDFILL MISSION

Time stands still for no person or thing, and certainly not for a nearly 30-year-old landfill turned into an award-winning recreational preserve. Completed in 1973, Mt. Hoy in the Blackwell Forest Preserve is the first of three projects undertaken by the Forest Preserve District of DuPage County (FPDDC), Illinois, to use the collected wastes generated by one of the fastest growing populations in the United States in recontouring forest preserve land for recreational use. Blackwell Forest Preserve encompasses 1,312 acres including several lakes with fishing and boating facilities, hiking trails, shelters, and areas for picnicking, camping, winter tubing and cross-country skiing.

At Mt. Hoy, nine pumps move leachate from the landfill to a centrally located, 10,000-gallon-capacity collection tank, to be trucked later to a sanitary facility for processing. One of these pumping stations presented a constant problem over the years due to the particularly heavy and viscous nature of the leachate at the spot, which the old pump increasingly could not handle. Jerry Hartwig, Project Manager selected the Anchor Pump 102A designed and developed by Blackhawk Environmental Co., Glen Ellyn, Ill. to replace the old pump and adapted the piping in the vault to accommodate the Anchor Pump, which has proved to be a model of efficiency ever since.



Ray Babowice (left) and Jerry Hartwig observing Anchor Pump 102A in operation.

“The Anchor Pump has worked without fail for the past three years, doing what it is supposed to do. It just keeps pumping and pumping, just like that drumming bunny on TV, as steady as can be, with no problems,” FPDDC Engineering Technician Ray Babowice said.

---

“Another great thing about the Anchor Pump 102A is that it’s pneumatic. There is no electricity out on the hill and we don’t want any electric wires there, which would destroy the beauty and the functionality of the hill. Instead we use a compressor with a dryer to supply air to the pumps, which prevents the lines from fouling up and from freezing over the winter,” Hartwig said. “We’d love to have Anchor Pumps all over the landfill but we can’t have domes on the hill and the time and expense to take out the old piping is too costly at this time.”

The Anchor Pump 102A is a positive displacement piston pump powered by a pneumatic top head drive motor. As a patented, field-tested pump, the Anchor 102A provides effective level control and detection. With shallow or deep-well recovery capabilities, the lightweight Anchor Pump 102A is designed to lift liquids from depths of up to 200 ft. in wells with diameters as small as 3". The pump can be set for a flow range of 0 to 5.7 US GPM .

Constructed of stainless steel or high-strength, impact resistant thermoplastic, the Anchor Pump 102A holds up exceptionally well to heat, solvent and organic stressors. Its motor is fully protected from harm by the elements and is not affected by well pressure changes.

Anchor Piston Pump 102A is easy to install and maintain. The non-clogging, surface-driven pump can be installed vertically or horizontally and operates when a well is wet or dry. The mechanical drive mechanism resides outside the well, and therefore no power cords or air lines enter the well.



The Anchor Pump 102A in the vault with the dome.

Blackhawk Environmental Co. specializes in manufacturing quality pumps and controls for demanding pumping applications. Blackhawk pumps can be powered pneumatically or electrically and can work in hazardous or potentially hazardous environments. For over ten years, Blackhawk pumps have been successfully operating in a wide range of pumping applications across the United States. Blackhawk’s pumps are custom manufactured in a variety of sizes and designs depending on the application.



Blackhawk Environmental Company  
21W161 Hill Avenue  
Glen Ellyn, IL 60137

630.469.4916  
630.469.4896 fax  
blackhawkco.com