

BLACKHAWK'S ANCHOR PUMP® FOR TOUGH DNAPL RECOVERY

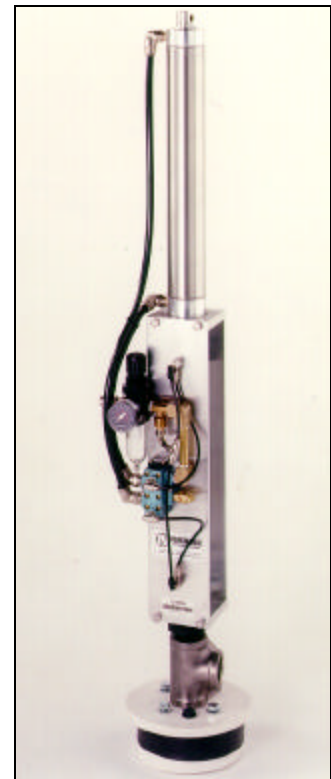
*Gentle Pumping Action Eliminates DNAPL
Emulsification and Pump Corrosion*

BLACKHAWK ENVIRONMENTAL COMPANY'S Anchor Pump®, positive displacement piston pump, effectively cleans up and recovers Dense Non-Aqueous Phase Liquids (DNAPL). Typically DNAPL is found in 20' to 120' deep wells with DNAPL often residing in the bottom few feet or inches of the well. These viscous, heavy, sticky and corrosive liquids are difficult to successfully recover. Many types of pumps, including "Pneumatic Passive Fill Air Displacement Pumps" and "Electric Submersible Pumps" are used without much success because they do not suck liquid from the bottom of the well, corrode the pumps and emulsify the DNAPL, making the product difficult to treat once recovered.

Blackhawk's **Anchor Pump** effectively pumps viscous/sticky liquids such as coal tar, creosote and other DNAPL products. The **Anchor Pump's** unique slow and gentle pump action uses a very low recovery rate that eliminates product emulsification and pump corrosion. The low flow rate accommodates the DNAPL's yield into the well and keeps from emulsifying the product. In addition, the Anchor Pump draws product from the bottom of the well.

The **Anchor Pump** is a plunger pump, with a reciprocation action, that mechanically recovers fluid from the well bottom, independent of the well's liquid level, while maintaining a constant flow recovery rate. It features a top head drive mechanical oil well type sucker rod that effectively recovers all types of DNAPL products. Its smooth controlled flow recovery has the ability to tune the rate of the recovery to the yield of the formation being pumped; preventing premature silting or degradation of the recovery well.

The **Anchor Pump's** deep recovery capabilities can produce 400 psi of pressure. **Anchor Pump** can be set for a flow range of 0 to 11 US GPM. **Anchor Pumps** feature top head mechanical-drive mechanisms and uncomplicated controls, making installation and on-site maintenance easy - even under the toughest conditions. The unit can be powered pneumatically, electrically or by windmill.



Blackhawk Environmental Company provides pumping solutions for the environmental, landfill, groundwater and industrial markets. Blackhawk specializes in manufacturing quality pumps and controls for demanding pumping applications.



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