

By utilizing Ecoserv's Mini-Vac System you could be saving thousands of dollars.

Our customers with jobs requiring the cleaning of sump tanks, heater treaters, water process vessels, or any other applications where large solid particulates may be encountered are presently saving thousands of dollars with the Mini-Vac System. Join them today!

## Case Study

### Customer Challenge

375 bbls of product needed to be removed from a 400 bbl sump tank. The sump contained concrete, drilling mud, sand, trash, and other debris that causes continual diaphragm pump failures or malfunctions and clog hoses.

### Assessment

### Diaphragm Pumps vs Mini-Vac

#### Diaphragm Pump Setup

- Carry 5 gallon buckets of product up elevators and stairs into cutting boxes
- Breakdown & rebuild diaphragm pumps to remove trash & debris
- More cutting boxes required to complete the job due to the added wash water needed to break up and move product
- Additional diaphragm pumps required which increase costs

#### Mini-Vac Setup

- No manual movement of product
- Large particulates can easily be vacuumed into cutting boxes without stoppages
- Fewer cutting boxes required
- Little to no wash water needed to move product

14 hours per day

Diaphragm Pump Package w/ Crew			
Equipment & Personnel	Cost	Days on Job	Total Cost
Additional Dia. Pumps (3)	\$285	9	\$2,565
Toolhouse Package	\$985	9	\$8,865
Air Compressor	\$135	9	\$1,215
Breathing Air Package	\$285	9	\$2,565
Superintendent	\$45/hr	9	\$5,670
Cleaning Techs (8)	\$140/hr	9	\$35,280
Cutting Boxes (50)	\$1,475	9	\$13,275
Disposal	\$15.75/bbl		\$11,812.50

**Total cost of standard package = \$81,247.50**

Mini-Vac Package w/ Crew			
Equipment & Personnel	Cost	Days on Job	Total Cost
Mini-Vac Package	\$450	4	\$1,800
Toolhouse Package	\$985	4	\$3,940
Air Compressor	\$135	4	\$540
Breathing Air Package	\$285	4	\$1,140
Superintendent	\$45/hr	4	\$2,520
Cleaning Techs (8)	\$140/hr	4	\$15,680
Cutting Boxes (25)	\$737.50	4	\$2,950
Disposal	\$15.75/bbl		\$5,906.25

**Total cost of Mini-Vac package = \$34,476.25**

### Result

- Over 50% reduction in job time
- \$46,768.25 in savings
- 97% Reduction in waste water
- 50% Fewer cutting boxes needed
- 0% downtime due to equipment malfunction
- Enhanced safety (no manual movement of product)

Mini-Vac Specifications				
Dimensions	Weight	CFM	Power	Inches of Hg
5' 5" L x 5' 5" W x 7' H	2,400	500	Diesel	27