



**REMOTE-CONTROLLED BOAT TO
ELECTRONICALLY MEASURE & IDENTIFY
THE SLUDGE VOLUME & LOCATION**

Sludge DeTEKtor™

Sludge DeTEKtor is a remote-controlled boat used by a team of certified operators to electronically measure and map the bottom of a pond creating a digital picture and diagram. The team provides a comprehensive report identifying the entire bottom contour and sludge depths in meters or feet. A current aerial view is used for GPS positioning and then a topographic and cross-sectional representation is created from the data to provide two ways of visualization.



BENEFITS

- A “purpose built”, remote controlled boat designed by SunFlo2 electronically maps and identifies the location and depth of sludge in a wastewater pond.
- The use of radio controls, programmed sonar and a transducer eliminates the liability and safety concerns for operators to enter the pond in a two-man boat.
- Accurate, repeatable and consistent data are much greater than the standard sludge judge and may surprise operators with unexpected features below the surface.
- Unique hull designed with a low profile and low drag coefficient to provide 3-5 hours of operation before battery replacement.

APPLICATION

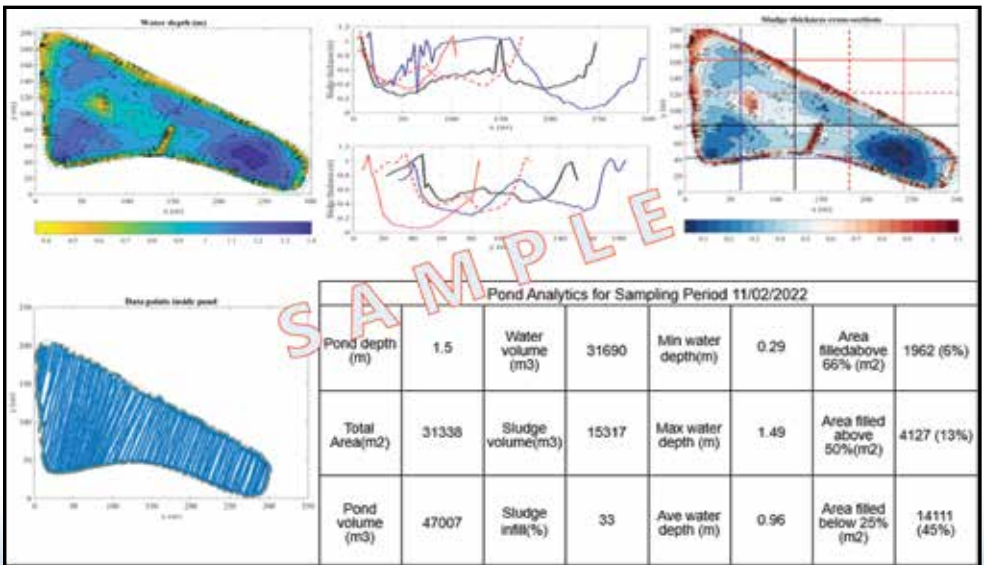
- A current aerial view is used for positioning and then a topographical, cross-sectional representation is created from the data to provide two ways of visualization.
- Certified operators place flags at regular intervals on each side of the pond to insure a uniform grid.
- A comprehensive engineered report is provided from the field data and sent to the owner (1-2 weeks after collection).

COMPREHENSIVE REPORTING

10,000 plus data points are taken per acre across the pond & around the circumference to identify volume including the impact of the slope.



Pond Analytics for Sampling Period 11/02/2022					
Pond Depth	1.50 meters	Total Area	31,338 sq meters	Pond Volume	47,007 cubic meters
	4.92 feet		337,197 sq feet		1,659,817 cubic feet
Min Water Depth	0.29 meters	Area Filled Above 66%	1,962 sq meters	Water Volume	31,690 cubic meters
	0.95 feet		21,111 sq feet		1,118,974 cubic feet
Max Water Depth	1.49 meters	Area Filled Above 50%	4,127 sq meters	Sludge Volume	15,317 cubic meters
	4.89 feet		44,407 sq feet		540,843 cubic feet
Avg Water Depth	0.96 meters	Area Filled Below 25%	14,111 sq meters	Sludge Infill	33%
	3.15 feet		151,834 sq feet		





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