ci agent solutions®
The Cost Effective Oil Retrieval Solution

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case study

Oil Filtration From Cooling Tower

Alabama – May 2007

A pump located inside a cooling tower at a large power plant began leaking oil. After several days, over 100 gallons of oil from the pump contaminated the water inside the cooling tower. The plant manager did not realize the pump had a problem until several days later. By the time the problem was discovered, the oil was throughout the 550,000 gallon cooling tower.

C.I.Agent Solutions® was contacted by the plant manager for consultation and recommendations. C.I.Agent Solutions® delivered three custom-made C.I.Agent® Hydrocarbon Discharge Filters to remove the oil from the water and two 55 gallon drums of C.I.Agent® Granules. The process began by pumping the contaminated water from the main cooling tower to a tank clarifier outside the plant. The flow of water from the cooling tower to a tank clarifier was controlled by automated pumps. The contaminated water was then pumped through the C.I.Agent® Hydrocarbon Discharge Filters at approximately 60 gallons per minute. C.I.Agent® Granules were also added to the tank clarifier to assist in hydrocarbon removal. Samples were taken throughout the process to monitor the hydrocarbon levels. The results were impressive. The C.I.Agent® Hydrocarbon Discharge Filters reduced the hydrocarbon levels from 171.5 PPM incoming to less than 5 PPM outflow.

C.I.Agent® Costs Comparison

	C.I.Agent®	Treatment of Water at Waste Recovery Facility
Clean Up:	3,600 gals. per hour (approx.)	Unknown
Materials:	3 - C.I.Agent® Hydrocarbon Discharge Filters 2 - C.I.Agent® Granules 55 gal. drums	Multiple tanker trucks
Results:	Reduced PPM from 171.5 to less than 5 for water treated	Unknown
Total Cost:	**$18,000.00**	**Between $250,000 & $500,000** (estimate)

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11760 Commonwealth Dr. • Louisville, KY 40299 **office** 502.267.0101 **toll-free** 866.242.4368 **fax** 502.267.0181 **web** www.ciagent.com