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### *Case Study #7*

Client Category:	Hydrocarbon Impacted Wastewater Treatment Plant	
Location:	Los Angeles, CA, USA	
Physical Plant:	Four 500,000 gallon clarifiers, a two stage 40,000 gallon flocculation/aeration collection tank and a 2,000,000 gallon lagoon. Retention time is 4-7 days.	
Flow:	1,000,000 GPD average (Gallon per Day)	
Problem:	County surcharges for excess COD and TSS amount to an average \$450,000/year. VOC's are offensive to adjacent neighbors.	
Previous Treatment	The use of polymers injected at the headworks	
<i>Custom</i> Treatment	Initial Treatment	3 - 55 gallon drums of Custom HC
	Week One	22 GPD of Custom HC
	Next Weeks	6 GPD of Custom HC

Parameter	BEFORE	11 Days	30 days	% Reduction
COD (mg/L)	2150	289	212	90.14%
TSS (mg/L)	140	30	25	82.14%
Benzene (ug/L)	700	580	540	22.86%
Toluene (ug/L)	480	370	290	39.58%
Ethylbenzene (ug/L)	34	9.2	6.8	80.00%
Xylene Isomers (ug/L)	232	213	196	15.52%
FOG (mg/L)	72	12	0	100.00%
Sludge Reduction (est.)		75%	75%	75.00%
VOC Odors (ppm)	20-60	0	0	
Lagoon Quality	Murky	Clearing	Clear	

## COSTS

423 Total Gallons Custom HC were used over the 30 day project at a price of \$8.00/gallon. Total price was \$3,384.00. Surcharges amounted to \$37,500.00/month. **This project resulted in a cost savings of \$34,116.00/month.**