

Case Study #07

- Client Category:** Hydrocarbon impacted wastewater treatment plant.
- Location:** Los Angeles, California, 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 (gallons per day)
- Problem:** County surcharges for excess COD and TSS amount to an average of \$450,000.00 per year. VOC's are offensive to adjacent neighbors.
- Previous Treatment:** Use of polymers injected at the headworks.
- Treatment:** Initial Shock 3 - 55 gallon drums **Custom HC**
 Week One 22 GPD of **Custom HC**
 Next Weeks 6 GPD of **Custom HC**
- Results:** The following results occurred after one month of treatment:

		BEFORE	11 Days	30 Days
COD	mg/L	2150	289	212
TSS	mg/L	140	30	25
Benzene	ug/L	700	580	540
Toluene	ug/L	480	370	290
Ethylbenzene	ug/L	34	9.2	6.8
Xylene Isomers	ug/L	232	213	196
FOG	mg/L	72	12	10
Sludge Reduction	est	-	75%	75%
VOC Odors	ppm	20-60	0	0
Lagoon Quality		Murky	Clearing	Clear