



## Orange County, CA Sanitation District Dissolved Oxygen Increase from Open Air

In April of 2004, in conjunction with other laboratory tests conducted by project coordinator, Yu-Li Tsai, Ph.D., of the Environmental Science Laboratory, Inorganic Chemistry Section, Orange County Sanitation District, Costa Mesa, California. The laboratory found that by adding Bio-Organic Catalyst, there was substantial increases in dissolved oxygen (DO) in both non-purged (no air added) and in purged (air added) waters that contained approximately 250 PPM of BOD. The water was stabilized to eliminate a biological reaction.

TABLE 1 P1 INFLUENT NON-PURGED			
Time (Min.)	0 PPM Control	250 PPM of Bio-Organic Catalyst	Increase
3	0.33	0.51	54%
6	0.69	1.41	104%
12	0.48	1.69	252%
30	1.20	2.78	132%
60	2.90	3.04	5%

TABLE 2 P1 INFLUENT PURGED			
Time (Min.)	0 PPM Control	250 PPM of Bio-Organic Catalyst	Increase
3	1.50	1.89	26%
6	2.77	3.84	39%
12	4.38	5.08	16%
30	6.33	6.39	0%
60	5.81	6.15	6%

These data show the substantial increase of oxygen transfer to dissolved oxygen, from the open air, which is important in gravity mains, rivers or open bodies of water.