

Case Study #21

- Client Category:** Municipal Sewage Treatment Plant
- Location:** Ireland
- Physical Plant:** Two aeration basins running parallel to individual clarifiers.
- Influent Type:** Municipal with high peak loadings of Industrial effluent.
- Flow:** 5,000 cubic meters per day is the average dry weather flow.
Water retention time of 8 hours.
Sludge retention time of 5-7 days.
- Problem:** Poor biological treatment throughout the plant due to shocking from industrial area.
- Treatment:** The recommended daily dosage of **Custom WP** was applied directly into the entry channel of the plant.
- Results:** The following averages were obtained after one year of treatment with **Custom WP**. The amount of oxygen required to run the plant was reduced by 35%.

	BOD	BOD	COD	COD
	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
Before Treatment	380	350	450	375
Week 1	350	45	450	95
Week 2	360	38	420	80
Week 3	400	26	480	60
Week 4	380	24	430	62
One Year Average				
With Treatment	380	24	430	46
	mg/L	mg/L	mg/L	mg/L