

BiOWiSH® Odor

Improves Landfill Leachate Quality Interaseo del Valle, Colombia

Background

Managed by Interaseo del Valle, the Yotoco landfill services the city of Cali, capital of Valle del Cauca and other nearby towns in Colombia. The landfill receives a daily average of 1,700 tons of waste from a nearby transfer station.

Objectives

Improve leachate quality at the Yotoco landfill and reduce odors at the transfer station.

Implementation Program

BiOWiSH® Odor was dosed at a rate of 1.5 grams per ton of waste.

Results

Testing was initially conducted at the landfill with very good results.

Preliminary results in COD and BOD were as follows:

COD (mg O ₂ /L)		
Sample	Value	Reduction
June 2009	53,460	n/a
July 2009	30,030	43.83%
August 10, 2009	35,070	34.40%
August 14, 2009	27,946	47.73%

BOD (mg O ₂ /L)		
Sample	Value	Reduction
June 2009	23,688	n/a
July 2009	9,661	59.22%
August 10, 2009	17,466	26.27%
August 14, 2009	22,269	5.99%

BiOWiSH® Odor



- Removes rather than masks odors
- Fast acting
- Effective on a wide range of volatile organic compounds (VOC)
- Cost effective
- Operative at low dosage rates
- Long residual effective period
- Natural and non-toxic

Available Sizes

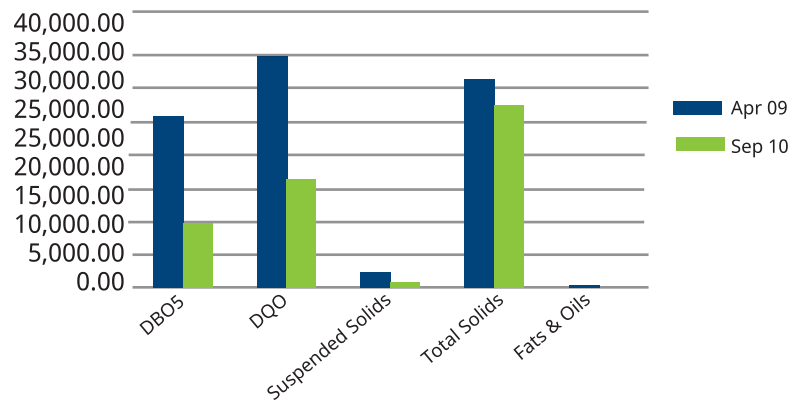
- 100g/3.5oz
- 1kg/2.2lbs
- 5kg/11lbs
- 10kg/22lbs



Yotoco Landfill

Based on the results at the landfill, the decision was made to extend the trial to the transfer station and the results were as follows:

Data	Unit	April 2009	September 2010	Reduction
BOD	mg O ₂ /L	25,328	9,613	62%
COD	mg O ₂ /L	34,206	16,040	53%
Suspended Solids	mg O/L	2,117	833	61%
Total Solids	mg O/L	31,183	27,105	13%
Fats & OOils	mg O/L	138	32	77%



Transfer Station

Conclusion

In addition to the positive results achieved in the quality of leachate, the following were also observed:

- Significant reduction in odors at the transfer station and landfill
- Reduction in the presence of flies at the landfill



Contact us:
wastewater@biowishtech.com
 +1 312 572 6700
biowishtech.com

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