

Leachate Treatment

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 currently 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.

Application and Dosing

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	na
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	na
July 2009	9,661	59.22%
August 10, 2009	17,466	26.27%
August 14, 2009	22,269	5.99%

BiOWiSH™ Odor Benefits

- Removes odors at source
- Reduces Volatile Organic Compounds (VOC) emissions
- Helps break down organic waste
- Reduces waste volume
- Accelerates composting time
- Improves leachate water quality
- 100% natural and non-toxic

Available sizes

- 3.5oz/100g
- 2.2lb/1kg

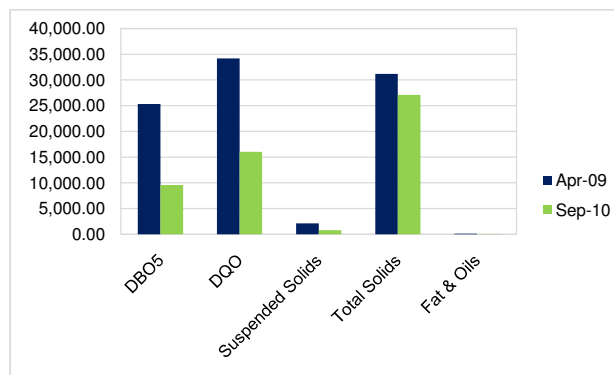




Yotoco Landfill

Based on the results at the landfill, a 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./L	2,117	833	61%
Total Solids	mg./L	31,183	27,105	13%
Fat & Oils	mg./L	138	32	77%



Transfer Station

Benefits

In addition to the very good 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 in the landfill

Contacts

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