



## Low Pollutant Levels in TEMESI Compost

Organic Pollutants and Heavy Metals in TEMESI Compost were analyzed by the EAWAG department of the Swiss Federal Institute of Technology in Zurich, which concluded:

*"The following results generally show that the compost coming from Bali contains much less organic pollutants than the average compost in Switzerland. Furthermore, most of the PCB values were below the detection limit. Only PCB 25 could be measured and also shows less than 1/10 of the Swiss median.*

*In comparison with other composts from developing countries (Nepal and Ghana), the Bali samples showed the lowest values."*

<u>1. Organic Pollutants</u>	Unit	TEMESI compost	Median in Swiss compost (n=70)
<u>PAH (Polyaromatic-Hydrocarbons)</u>			
Naphthalene	µg/kg dw	13.9	21.2
Acenaphthylene	µg/kg dw	0.3	3.0
Acenaphthene	µg/kg dw	0.6	14.5
Fluorene	µg/kg dw	1.4	23.9
Phenanthrene	µg/kg dw	34.2	254.1
Anthracene	µg/kg dw	2.0	26.8
Fluoranthene	µg/kg dw	39.0	603.0
Pyrene	µg/kg dw	28.2	391.5
Benzo(a)anthracene	µg/kg dw	11.6	225.9
Chrysene	µg/kg dw	21.0	314.4
Benzo(b)fluoranthene	µg/kg dw	15.6	267.7
Benzo(k)fluoranthene	µg/kg dw	7.1	129.6
Benzo(a)pyrene	µg/kg dw	8.3	163.7
Indeno(1,2,3,c,d)pyrene	µg/kg dw	12.0	194.1
Benzo(g,h,i)perylene	µg/kg dw	14.5	184.5
Sum of the 15 detected PAH	µg/kg dw	209.9	2988.6
<u>PCB (Polychlorinated-Biphenyls)</u>			
PCB 25, no other PCBs were detected	µg/kg dw	0.19	2.4
(Dioxins are PCBs, but no Dioxins were detected)	(µg/kg dw = microgram per kilogram dry weight)		

## 2. Heavy Metals

The values for heavy metals were below the stringent Swiss standards for compost and far below the Indonesian and UN standards.