

PIA GmbH hereby confirms to the company ATB Umwelttechnologien, Südstraße 2, 32457 Porta Westfalica, Germany, that an additional testing of the small wastewater treatment plant PUROO (SBR-plant in a two-chamber container made of concrete) was performed with extreme loadings (overloading phases) on request of the manufacturer, following the 38-week testing according to the standard EN 12566-3 Annex B with a nominal loading of 900 l/d on the testing field in Aachen.

During the extreme loading test sequences a sample was taken weekly. The schedules of the testing sequences and average values of the analysed samples are shown below.

Table 1: Process overloading test sequence

	Test sequence	Duration /Date
Z1	Nominal	3.5 weeks
Z2	Overloading (continuously 150 % / 1350 l)	6 weeks

In contrast to the overloading test sequences of the testing according to EN 12566-3, the plant has not only been overloaded (max. 150 %) for 48 h, but also for the whole duration of the testing sequences.

Table 2: Evaluation overloading test sequences

	Overloading
	Duration 6 weeks
Treatment efficiency	Average values of the testing sequences
<b>COD</b>	<b>91.3 %</b> (72 mg/l)
<b>BOD<sub>5</sub></b>	<b>94.5 %</b> (23 mg/l)
<b>SS</b>	<b>93,4 %</b> (30 mg/l)
<b>NH<sub>4</sub>-N</b>	<b>85.8 %</b> (6.4 mg/l)



Dipl.-Ing. Elmar Lancé  
(Head of testing area)

**PIA GmbH**  
 Prüfinstitut für Abwassertechnik  
 Hergenrather Weg  
 52074 Aachen

**Anschrift**

PIA GmbH  
 Hergenrather Weg 30  
 D-52074 Aachen

**Geschäftsführung**

Dr.-Ing.  
 Elmar Dorgeloh

**Telefon**

(02 41) 7 50 82 - 20

**Telefax**

(02 41) 7 50 82 - 29

**E-mail**

info@pia-gmbh.com

**Internet**

www.pia-gmbh.com

**Amtsgericht Aachen**

HRB 12841

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