

Dear Madam or Sir,

It was a challenging year, with a lot of e-meetings. We are looking forward to the last month of this strange year with hope and a wish for more face-to-face meetings and less social distance and new projects in the next year.

In spite of the COVID pandemic, ACT team is not postponing Business Development efforts, and we dived into the web-conferences and e-meetings with potential partners again. In November, our technology was presented by IPI at the [difficult to treat wastewater emerging technology forum](#) in Singapore. In December we will take part in Green Days 2020 and Pollutec virtual edition.

From our R&D department we are happy to provide you with a new update regarding customer projects.

Successful feasibility study completed with a Belgium environmental engineering company

The Problem: The feasibility study was with an environmental engineering company from Belgium which provides soil decontamination technologies mainly based on biological treatment and active surfactant solutions. The target of the study was development of a simple, rapid and cost-effective on-site process for **treatment of heavy contaminated soil and removing of hydrocarbons up to C₄₀ and PAH.**

The Objective It is therefore the intention of our potential customer to cost-effectively and rapidly decontaminate the soil from organic materials to meet the EU threshold values regulation for each group of contaminants.

The Solution: We have implemented a series of laboratory treating methodologies for several kilograms of contaminated soil thereby demonstrating that through a simple process our SOA and AFA technology could be efficiently applied.

Pilot Results

Contamination	Pollution degree (ppm mg/kg)	After treatment (ppm mg/kg)	Reduction of pollution in %
C10-C40	612 - 3,790	30	95%-99%
PAH	224 - 2,480	39	83%-98%

Maybe you face similar challenges in your business. Then please feel free to contact us.

Sincerely,
Your Alpha Cleantec Team

Alpha Cleantec AG

Newsletter November 2020

About Alpha Cleantec AG

We believe that our eco-system requires looking after so we have a world worth living in to pass to our next generations. Decontamination of soil and water from hazardous contaminants plays a major role in this regard, in our view. This is why we established Alpha Cleantec AG as an environmental technology company in 2016 with a vision to provide safe, green, rapid, efficient and cost-effective technologies to resolve environmental harms and hazards caused by inadequate human and industrial activities.

Alpha Cleantec AG provides two technologies, AFA and SOA, achieving decontamination ratios of up to 97% for a wide range of contaminants in just hours (such as Hydrocarbons, BTEX, Petroleum leftovers, Aromatics, PAHS, Chlorinated Solvents, PCBs, Dioxins as well as Pesticides and Herbicides) to be applied for soil, wastewater and railway ballast treatment.

Table of contaminants treatable by our technologies

CONTAMINANTS	IN-SITU		ON SITE	
	SOA	AFA	SOA	AFA
BTEX				
Benzene	•	•	•	•
Toluene	•	•	•	•
Ethylbenzene	•	•	•	•
Xylene	•	•	•	•
PETROLEUM HYDROCARBONS				
Gasoline Range Organics (GRO)	•	•	•	•
Diesel Range Organics (DRO)	•	•	•	•
Oil Range Organics (ORO)	•	•	•	•
AROMATICS				
Chlorobenzene	•	•	•	•
Bromobenzene	•	•	•	•
Dichlorobenzene	•	•	•	•
Nitrobenzene	•		•	
Phenol	•		•	
Styrene	•	•	•	•
Naphthalene	•	•	•	•
Trichlorobenzene	•		•	
Trimethylbenzene	•	•	•	•
PAHS				
Phenathrene	•	•	•	•
Naphthalene	•		•	
Acenaphthylene	•		•	
CHLORINATED SOLVENTS				
Tetrachloroethylene	•		•	
Trichloroethene	•	•	•	•
Dichloroethene	•	•	•	•
Vinyl chloride	•		•	
Tetrachloroethane	•	•	•	•
Trichloroethane	•		•	
Dichloroethane	•	•	•	•
Dibromochloroethane	•	•	•	•
Bromodichloromethane	•		•	
Carbon tetrachloride	•	•	•	•
Chloroethane	•	•	•	•
Chloroform	•	•	•	•
Chloromethane	•	•	•	•
Chlorotoluene	•	•	•	•
Methylene chloride	•		•	
PCBS				
DIOXINS				
PESTICIDES AND HERBICIDES				
Glyphosate	•		•	
Goal	•		•	

We plan to inform you in future whenever we accomplished projects, pilots or case studies. If you do not wish to get our company news, please let us know.

ALPHA CLEANTEC AG

Phone: +49 (0) 6221 64924 0

Fax: +49 (0) 6221 64924 24

info@alphacleantec.com

www.alphacleantec.com