

Dear Madam or Sir,

Today we are sending you our Newsletter containing the October updates. This month we participated in the Kommtec exhibition and the virtual WaterMatch 2022 event. It was an excellent opportunity to present our solution for wastewater plants and our vegetation control solution. We also enjoyed the technical presentations, relevant discussions, meetings with potential customers, and the networking.

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

Successful laboratory study completed with a Swiss environmental company.

The Problem: The feasibility study was with a Swiss environmental company that provides a wide range of decontamination services and soil washing. The project's target was to examine the SOA-AFA technology efficiency for decontamination **PAH** in **contaminated soil** and meeting the Swiss regulation.

The Objective The customer intends to rapidly, simply, and cost-effectively decontaminate the **soil** from **PAH** leftovers to meet the Swiss threshold value regulation for the contaminant.

The Solution: We have implemented our SOA-AFA solution as a treatment agent based on a batch approach. As a result, the process was efficient and reached the required levels of decontamination after a single treatment with a short contact time.

Results:

Contamination	Before Treatment (ppm mg/L)	After treatment (ppm mg/kg)	Required level (ppm mg/kg)	Conversion (%)
PAH	3,000	200	250	94

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

<https://www.linkedin.com/company/alpha-cleantec-ag/>



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.

Kind regards

Mit freundlichen Grüßen

Andreas Danner

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