

Dear Madam or Sir

We hope this email finds you well and healthy. Today we send you our next Newsletter containing the June updates. This month we exhibited in **IFAT, Munich, Germany** it was a great opportunity for us to present our sludge pretreatment technology for municipal wastewater plants for efficient biogas generation. It was a very good event with a lot of relevant visitors and fruitful networking. Additionally, our advanced vegetation control solution has been nominated for the RailTech innovation awards in **RailTech Europe 2022, Utrecht, Netherland**. It was a big honor and we were very happy to be part of the celebration of innovation in the railway field. We also enjoyed the technical presentations, the relevant discussions and meetings with potential customers and networking.

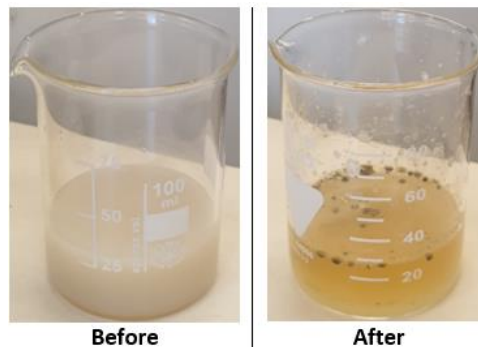
From our R&D department we are happy to provide you with a new update regarding customer projects.

Successful feasibility study completed with an International environmental engineering company.

The Problem: The feasibility study was with International environmental engineering company that provides a wide range of decontamination services and project design in the fields of soil and wastewater treatment. The target of the project was treatment of **contaminated wastewater**. The main contaminants in these samples were hydrocarbons, solvents and Dioxane.

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

The Solution: We have implemented our SOA-AFA solution as a treatment agent based on batch treatment approach. As it shown below, our reagent is an efficient reagent for this type of wastewater, with a **conversion of 99% for 1, 4-Dioxane and 95% for hydrocarbons after single treatment**.



Results:

Contamination	Before Treatment (ppm mg/L)	After treatment (ppm mg/kg)	Conversion (%)
1,4-Dioxane	1,100	11	99
TOC	2,400	120	95

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
Alpha Cleantec AG

Phone: +49 (0) 6221 64924 68 · Fax: +49 (0) 6221 64924 72
info@alphacleantec.com · www.alphacleantec.com