

Dear Madam or Sir

We hope this email finds you well, healthy, and fully charged with energy after pleasant winter holidays as far as possible with the current COVID-19 pandemic. We hope that the beginning of the vaccination in the EU will be also a start point of back to normal life and business for all of us and we hope to see you soon in conferences and events. Today we send you our first Newsletter for 2021 containing the latest January updates.

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

Successful feasibility study completed with a Swiss environmental engineering company

The Problem: The feasibility study was with Swiss environmental engineering company which provides soil decontamination services. One of the issues they are facing is that their own processes for soil washing and decontamination are not efficient enough for Soil Type B or higher under Swiss regulation and the disposal of this soil is very costly.

The Objective It is therefore the intention of our potential customer to cost-effectively decontaminate the soil in such a degree that it can be classified as Soil Type BV or lower under Swiss regulation and, hence, be disposed or retreated at much more economic rates.

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	30-38	95%-99%

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

Sincerely,

Your Alpha Cleantec Team

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

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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	*	*	*	*

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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

Andreas Danner

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