

Dear Madam or Sir

Today we send you our next Newsletter containing the May updates. Recently, we participated in several events organized by the Switzerland Global Enterprise organization. We enjoyed the presentations, the relevant discussions and the new technologies and market opportunities that were presented at the events.

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

### Successful feasibility study completed with a German soil treatment company.

**The Problem:** The feasibility study was with a German soil treatment company that provides soil decontamination services mainly by biological treatment. One of the issues they are facing is that their own processes for soil decontamination are not rapid and efficient enough for highly contaminated soils.

**The Objective** Therefore, the intention of our potential customer to rapid and cost-effectively solution (pre-treatment) that can be combined with **biological treatment** at the next stage. Such a unique combination could allow fast, cost-effective, and efficient treatment of heavily contaminated soils.

**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 and combined with biological treatment.

### Pilot Results

No:	Contamination	Contamination Level Before Treatment (ppm   mg/kg)	Contamination Level After Treatment (ppm   mg/kg)	Conversion [%]	Treatment Time [h]
1	C <sub>10</sub> -C <sub>40</sub>	1,850	74	96	1
2	C <sub>10</sub> -C <sub>40</sub>	3,000	180	94	1
3	C <sub>10</sub> -C <sub>40</sub>	460	55	88	1

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. Therefore 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
<b>BTEX</b>				
Benzene	*	*	*	*
Toluene	*	*	*	*
Ethylbenzene	*	*	*	*
Xylene	*	*	*	*
<b>PETROLEUM HYDROCARBONS</b>				
Gasoline Range Organics (GRO)	*	*	*	*
Diesel Range Organics (DRO)	*	*	*	*
Oil Range Organics (ORO)	*	*	*	*
<b>AROMATICS</b>				
Chlorobenzene	*	*	*	*
Bromobenzene	*	*	*	*
Dichlorobenzene	*	*	*	*
Nitrobenzene	*	*	*	*
Phenol	*	*	*	*
Styrene	*	*	*	*
Naphthalene	*	*	*	*
Trichlorobenzene	*	*	*	*
Trimethylbenzene	*	*	*	*
<b>PAHS</b>				
Phenathrene	*	*	*	*
Naphthalene	*	*	*	*
Acenaphthylene	*	*	*	*
<b>CHLORINATED SOLVENTS</b>				
Tetrachloroethylene	*	*	*	*
Trichloroethene	*	*	*	*
Dichloroethene	*	*	*	*
Vinyl chloride	*	*	*	*
Tetrachloroethane	*	*	*	*
Trichloroethane	*	*	*	*
Dichloroethane	*	*	*	*
Dibromochloroethane	*	*	*	*
Bromodichloromethane	*	*	*	*
Carbon tetrachloride	*	*	*	*
Chloroethane	*	*	*	*
Chloroform	*	*	*	*
Chloromethane	*	*	*	*
Chlorotoluene	*	*	*	*
Methylene chloride	*	*	*	*
<b>PCBS</b>				
<b>DIOXINS</b>				
<b>PESTICIDES AND HERBICIDES</b>				
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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# Alpha Cleantec AG

## Newsletter May 2021



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