

Dear Madam or Sir

We hope you and your family, and your colleagues are well and save.

Just before the Easter holidays we send you our next Newsletter containing the March updates. In this month we presented our wastewater solutions at the European Wastewater TAG 21 an innovation forum, organized by ISLE Utilities, for the TAG Members, water and wastewater companies across Europe.

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 a Swiss company, which is active in the field of inspection, quality control, analytical and site services, etc. The target of the study was the development of a simple, rapid and cost-effective on-site process for treatment of wastewater and removal of hydrocarbons up to C40 and separation of inorganic materials.

**The Objective** It is therefore the intention of our potential customer to cost-effectively and rapidly decontaminate the wastewater from organic materials to meet the EU and Russian threshold values regulation.

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

### Pilot Results

No.	Contamination	Pollution degree (ppm   mg/kg)	After treatment (ppm   mg/kg)	Reduction of pollution in %
1	TPH	400	9.6	97.6
2	TPH	9,870	296	97.0
3	C10-C40	30,500	91.5	99.7
4	C10-C40	27,500	1,320	95.2

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 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

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Mit freundlichen Grüßen

Andreas Danner

**Alpha Cleantec AG**

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