

# Alpha Cleantec AG Newsletter August 2020

Dear Madam or Sir

We hope this email finds you well, healthy, and fully charged with energy after pleasant summer holidays as far as possible with the current COVID-19 pandemic. We are happy to provide you with our second Newsletter containing the August updates.

Successful feasibility study completed with Italian environmental engineering company

- The Problem: The Feasibility study was with an Italian environmental engineering company. The target of the project was the treatment of contaminated groundwater in the company sites in Italy. It is a complicated site with two main types of samples, lightly contaminated (less than 3,000 ppb) and highly contaminated (more than 10,000 ppm). The main contaminants in this site are hydrocarbons, aromatic and chlorinated materials and solvents.
- The ObjectiveIt is therefore the intention of our potential customer to cost-<br/>effectively decontaminate the groundwater from organic<br/>materials to meet Italian threshold values regulation for each<br/>group of contaminants.



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

Feasibility study Results	Contamination	Pollution degree (ppm   mg/kg)	After treatment (ppm   mg/kg)	Reduction of pollution in %
	C10-C40	7000-10,000	52-150	98%-99%
	CHC	2.5	<0.0005	85%

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**

## **Newsletter August 2020**

Alpha Cleatec 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.

	IN-SITU		ON SITE	
CONTAMINANTS	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			1	
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			•	

#### Table of contaminants treatable by our technologies

ON SITE

IN-SITU

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

Alpha Cleantec AG

Phone: +49 (0) 6221 64924 0 · Fax: +49 (0) 6221 64924 72

info@alphacleantec.com · www.alphacleantec.com