

Dear Madam or Sir

We hope this email finds you well and healthy. Today we send you our next Newsletter containing the May updates. This month we participated in **Railtex & Infrarail 2022** exhibition, London and we are currently attending **IFAT**, Munich, Germany. If you want to meet us personally, you can visit us at **IFAT hall B4 stand 139/338** until Friday June 3rd. Additionally, we participated in two online events as **GreenTech Days 2022** and Matchmaking event **G-STIC Climate Action Program 2022**. We enjoyed the presentations, the relevant discussions and meetings with potential customers.

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

Pilot with state owned Austrian Railway Company.

The Problem: The Pilot was with Austrian Railway Company (ÖBB). The company is also responsible for **vegetation control** in railway roads. For safety and operational requirements, railway tracks must be largely free of vegetation. The common market solution to prevent and treat vegetation on railway tracks is the use of soil herbicides and leaf herbicides. For decades Glyphosate-based materials were one of the most efficient and cost-effective solutions. For example, in Austria one of the most common materials was **Dominator Ultra**. However, recently because of the environmental impacts and resistance of part of the plants, as **Acker-Schachtelhalm** it was decided to stop using Glyphosate-based materials and new efficient and cost-effective **non- Glyphosate herbicide** which can be applied with existing equipment is in a great need.

The Objective Therefore, the intention of our potential customer to rapid, simple, cost-effective and non-Glyphosate herbicide which can treat a wide range of weeds including Glyphosate resistant plants and can be applied with existing spraying equipment, based on the current protocols of work.

The Solution: ÖBB operational and research team together with a supervision of ACT team executed a field test using manual spraying equipment in a several slots of railway road, with several different concentrations of VC herbicide. Thereby, demonstrating that through a simple process our VC herbicide could be easily adapted and applied.

Pictures from field test:



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

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