

We hope this email finds you well, healthy after a pleasant Easter vacation. Today we send you our next Newsletter containing the April updates.

Next month we are planning to participate in two exhibitions, Railtex and Infrarail 2022, from 10-12 May, Olympia, London and IFAT, 30.5-3 June 2022, Munich, Germany; two online events, GreenTech Days 2022 from 10- 11 May and Matchmaking event G-STIC Climate Action Program 2022 from 17-18 May. We will be glad to personally meet you there and answer any of your questions.

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

Successful feasibility study completed with a Israeli environmental company.

- The Problem:** The feasibility study was with an Israeli environmental company that provides a wide range of decontamination services, project design and waste management. The target of the project was examination of the SOA-AFA technology efficiency for decontamination of **TPH** (Total Petroleum Hydrocarbons) in the **contaminated soil** and meeting of Israeli regulation.
- The Objective** It is therefore the intention of the customer to rapidly, simply and cost-effectively decontaminate the **soil** from **TPH leftovers** to meet Italian threshold value regulation for the current contaminant.
- The Solution:** We have implemented our SOA-AFA solution as a treatment agent based on site batch approach. Our approach can be successfully applied and meet Israeli regulation already after single treatment cycle.

Results:

| Contaminant | Before Treatment (ppm mg/kg) | After Treatment (ppm mg/kg) | Conversion (%) | Required level (ppm mg/kg) |
|-------------|-----------------------------------|----------------------------------|-------------------|---------------------------------|
| TPH | 10,000 | 1,000 | 90 | 1,800 |

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



Follow us on LinkedIn:

<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

Andreas Danner

Alpha Cleantec AG