



ALPHA CLEANTEC AG

ENVIRONMENTAL TECHNOLOGIES

Non-Glyphosate vegetation control in railway roads and ballast, subsoil and groundwater decontamination.

THE CHALLENGE:

- ▶ Fast, efficient and cost effective vegetation control with non-Glyphosate herbicide.
- ▶ In-situ cleaning of railway ballast and decontamination of subsoil and groundwater from Glyphosat and toxic organic leftovers.

THE TECHNOLOGY:

VC – Vegetation control, is a process based on an environmental friendly mixture of inorganic salts that generates concentrated (non-Glyphosate) herbicide absorbing water from the plants and drying the plant including the roots (without changing the salinity of the soil).

RBO – Railway ballast oxidation technology, is an in-situ physico-chemical technology based on the generation of superoxide radicals with surfactants and phase transfer catalysts that can simultaneously decompose organic leftovers on ballast surface, subsoil and groundwater.

VALUE PROPOSITION:

- ▶ Rapid and efficient non-Glyphosate based material for vegetation control.
- ▶ Efficient for Glyphosate resistant vegetation.
- ▶ High efficiency with up to 94 % conversion for a wide range of organic contaminants and herbicide leftovers for all road layers.
- ▶ High efficiency with up to 99 % conversion for a wide range of organic contaminants and herbicide leftovers in groundwater.
- ▶ In-situ cleaning of railway bed for a wide range of organic contaminants without removal or replacement.

BENEFITS OF OUR SOLUTION:



One in-situ holistic solution for three challenges of railway maintenance



In-situ cleaning of railway ballast without replacement of stones



Decontamination of water and groundwater from organic materials and Glyphosate leftovers



Vegetation Control with non-Glyphosate based material



High efficiency of treatment with up to 99 % conversion for a wide range of organic contaminants



Rapid treatment process (seconds)



Cost effective



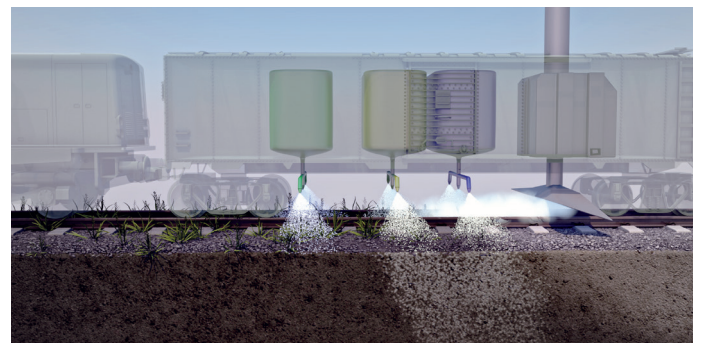
Green with low carbon footprint



Low energy requirement



Non disruptive and safe



FOR FURTHER INFORMATION PLEASE CONTACT US:

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