



Canadian
Water & Wastewater
Technologies

POLLUTANT DESTRUCTION



BIPERLIMITATE™

Advanced Oxidation Process

Meet your wastewater disposal targets with a highly effective Advanced Oxidation Process. The proprietary chemical mixture of **BIPERLIMITATE™** easily destroys refinery wastes, (PAHs etc), leachates, sulfides, PCBs, lignins from paper production, dyes in the textile industry, pharmaceuticals, and a wide range of pollutants, converting them into harmless carbon dioxide, vinegars other carboxylic acids, and water.

This process is treating refractory wastewaters at an operating cost 5-20 times lower than existing AOPs and other environmentally unsound methods, even incineration. Other AOPs, such as UV+peroxide or Ozone are not as safe or easy to handle. Neither are they as selective to polluting organic compounds as Biperliminate™. Our oxidant leaves behind much of the mud and background organics, going after the large polluting molecules it prefers to "eat". With selectivity, Biperliminate™ can treat more volume with less oxidant, making it the cheapest AOP known.

Biperliminate™ can replace your hydrogen sulfide or odour control chemicals as well as destroying your other polluting chemicals, even at near freezing temperatures.

There's no need to haul away wastes for disposal in another area with a site treatment system. A Biperliminate™ treatment system size and footprint is scalable and depends on volume of wastewaters: a larger 250-350m3/day system would be delivered to site in a 20ft container. The system is even portable to other sites.

BIPERLIMITATE™ has been tested successfully on difficult-to-treat pollutants such as polychlorinated biphenyls, PAHs, BTEX, creosotes, naphthalene, chloroform (disinfection byproduct), pharmaceuticals such as Triazole, sulfides, methylene blue dye, and more.

Start with a consultation on your wastewater composition and a pilot run today.



bipurewater.com

BIPERLIMINATE™



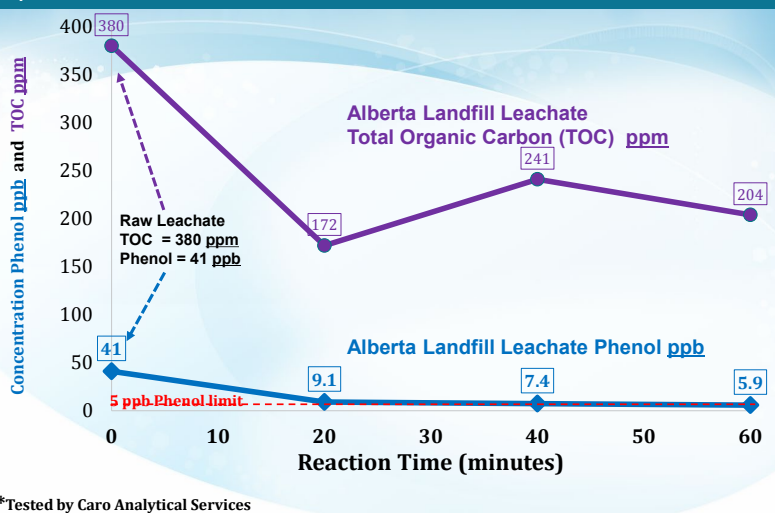
BEFORE:
Brownfield
contaminated with PAH
(Naphthalene)
1100 micron/L

**AFTER
TREATMENT**
>99% destruction
in 10 minutes

- Lowest cost AOP known
- Safer than ozone
- Poly Aromatic Hydrocarbons (PAHs), Phenol, Petroleum Hydrocarbons, BTEX are easily destroyed
- Custom systems are optimized with mechanical and chemistry adjustments
- Selectivity for target toxins against background mud and organics
- Using simple hardware, BIPERLIMINATE™ destroys a wide range of organic compounds at a lower cost than competing methods, including GAC

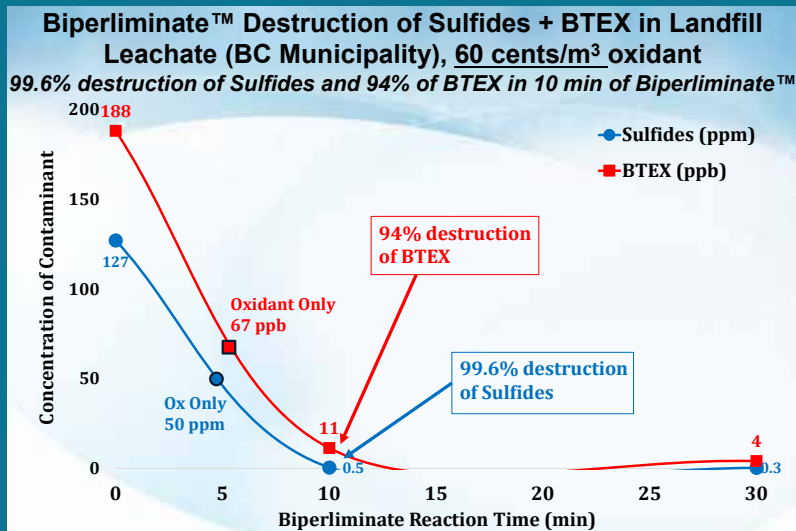
Landfill Leachate high in phenol Outside temperature 2°C

Small oxidant dose lowers Phenol by 85%. Process has since been optimized to 95% reduction in Phenols.



Municipal Landfill Leachate

Replaces current H_2S treatment and destroys primary pollutant BTEX to less than detectable limit



See our CASE STUDIES:

<http://bipurewater.com/advanced-oxidation-process/>



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