



## Landfills



Today's landfills are more complex and regulated facilities where operators have a lot more on their plate than figuring out where to put today's deliveries. Landfill operators are under increased pressure today from budget concerns to meeting tighter environmental restrictions. Theia is here to help and offers a lot of innovative solutions for dealing with potential issues that arise.

### We offer solutions for:

- **Gas/Vapors:** Methane emission from landfills can be a valuable resource but requires treatment before it can be really harnessed for use as a fuel. Theia offers a wide range of options for pretreating this gas as well as capturing and handling it. Whether you are using the methane on site or sending into a pipeline, we can help. We offer the best dry media in the market for removing hydrogen sulfide and an innovative line of equipment to go with it. Theia offers a range of media for removal of Siloxanes, Silanes, Silanols & VOCs. All of our equipment is designed to endure the aggressive nature of this gas while still fitting in the budget.
- **Leachate:** Leachate from landfills is a problem for many operators and owners, especially as discharges are becoming more and more regulated and the discharge criteria more difficult to achieve. Whether you are discharging your leachate to the local POTW, trucking it off, or trying to treat it on site, this task will only become more difficult. Secondary contaminants like Hydrogen Sulfide can also create problems in the collection system or even as you store it on site. We are here to help. We offer solutions for pretreatment as well as full treatment systems to completely treat the leachate to meet virtually any discharge standards. We also offer pretreatment components and systems for reducing BOD/COD as well as eliminating specific components such as Ammonia and Hydrogen Sulfide.
- **Odor Control:** Most odor issues start with Hydrogen Sulfide. Theia offers solutions for eliminating H<sub>2</sub>S and preventing it from forming. We also provide odor control solutions for addressing H<sub>2</sub>S as well as other odors once they are airborne.
- **Pump stations, Vaults, Storage, etc:** Theia offers a unique new material that is ideal for landfill applications: Structurally Reinforced Polyethylene: this material has all the corrosion resistance of Poly combined with the strength of steel. Our tanks can be directly buried and we provide pump stations and sumps that can also be directly buried.
- **Remediation:** We offer a full line of equipment for cleaning up any contaminated area on the landfill including soil vapor extraction, sparging, groundwater treatment etc.

