

**TERRATHERM**  
a Cascade Company

**TECHNOLOGIES**

**SERVICES**

**PROJECTS & SITES**



## THINK THERMAL

### Quarterly Newsletter

Thank you for reading TerraTherm's quarterly newsletter. Each quarter we update our readers on all things thermal. You'll learn about our technologies, current projects and latest news. As always, we value feedback, questions and content ideas from our readers. So, if there is something you want to see in upcoming newsletters please let us know!

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### TERRATHERM ANNOUNCES NEW BRAZILIAN PARTNERSHIP

TerraTherm recently announced a strategic partnership with Clean Environmental Brasil (Clean). Through this partnership, engineering, design, implementation and operation of in situ and ex situ on-site thermal remediation systems will now be offered to the Brazilian market.



**Read More**



## WESTFIELD, NJ PROJECT

The latest addition to our case study library features an In Situ Thermal Desorption project at a former coal tar production facility.

Click below for a closer look at the challenges, solutions and results experienced throughout the project.

[Read Case Study](#)

## PROJECT UPDATES

### Anderson, IN

Construction activities at the Anderson, IN electrical resistance/thermal conduction heating site are complete. The project system started up on June 20<sup>th</sup>. The start-up phase consists of a brief equipment shake out period followed by a ramping up of power application to all 140 electrodes and 14 Thermal Conductive Heating (TCH) wells.

### Confidential Japan

The design phase of our first full-scale In Situ Thermal Desorption (ISTD) project in Japan is complete. We have procured long lead equipment and are busy preparing for the implementation phase of this important project. Site work is slated to begin by August 2017. Operations will be conducted at two separate site areas in two separate operational phases.

### Confidential Midwest

Operations continue at an active manufacturing facility in the Midwest. Approximately two-thirds of the Thermal Treatment Zone (TTZ) is located within the footprint of a building. Operations began in December 2016 and Volatile Organic Compounds (VOC) concentrations are in decline. The system will operate into the early summer of 2017.

### Confidential Northeast 1

Operations are complete at a confidential Electrical Resistive Heating (ERH) project in the northeast. The subsurface temperature reached 115°C. The mass recovery of VOC has exceeded expectations by 4 times and has been approved for shut down by the regulatory agency.

### Confidential Northeast 2

The design phase for a Steam Enhanced Extraction (SEE) project in New Hampshire is wrapping up. Drilling is expected to begin in August 2017 with operations starting in early 2018. The project will treat approximately 20,000 cubic yards of impacted soil.

### New Jersey TCH Site

This spring, operations began at a Tier-One TCH project site in New Jersey. This project will treat approximately 4,853 cubic yards of tetrachloroethene (PCE) contaminated soil in highly variable bedrock conditions. Operations will continue into the fall.

### Poughkeepsie, NY

Heating operations for an ERH project with 101 electrodes were completed in June 2017. The vapor recovery system will continue to operate for 30 days. Subsurface temperatures range from 88°C to over 160°C. The heated area is approximately 36,000 ft<sup>2</sup>.

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## LATEST FROM OUR BLOG

### To Wipe or Not to Wipe: Ensuring Equipment Cleanliness after Decontamination

At TerraTherm, our wellfield and process equipment can take a beating! Between high concentrations of hazardous chemicals, corrosive conditions, and elevated temperatures, piping and equipment generally need a bit of TLC before being put back into circulation for use at another site.



[Read Blog](#)

Written by Alyson Fortune, Sr. Chemist



## CASCADE CORNER

### Advantages of Sonic Drilling for Installation of Thermal Remediation Systems

TerraTherm and Cascade work closely with each other to provide the most appropriate technology for each remediation project. Cascade's Sonic drilling method, often associated with infrastructure applications, is one method that TerraTherm has deployed in many of their large scale thermal remediation systems.

[Read Blog](#)

## NEWS FROM OUR EUROPEAN PARTNER, KRÜGER A/S

The final stage of our thermal projects are always exiting and hot. This is the stage where temperatures are at their highest and off gas removal has peaked and is getting close to zero and we are busy with confirmatory sampling and on-line monitoring via our VSurvey software solutions.

Click below to read more on two of our projects; the Kvarnholmen project in Sweden and Virum project in Denmark.

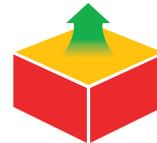


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