



Thermal Phase Separation (TPS)



In Canada, the TPS technology has successfully completed projects in or been permitted by Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Alberta, and British Columbia.

Abroad, this Canadian technology has successfully completed projects or been permitted in Australia United States, Japan, Ecuador, Kazakhstan, Saudi Arabia, United Arab Emirates, Argentina, Russia, Bolivia and Algeria.

Thermal Phase Separation (TPS) is an innovative, Canadian developed and commercially proven, technology verified by Environment Canada's Environmental Technology Verification (ETV) Program. The unique TPS technology safely and efficiently extracts all chlorinated compounds including PCBs, Dioxins/Furans and creosote from the impacted soil matrix. As a closed loop, indirectly heated system there are none of the environmental or public concerns commonly associated with incineration. Accepted on operations across Canada and around the world, including preparation of the 2000 Olympic Games Site in Sydney, Australia; the TPS is the green alternative to incineration of impacted soils.

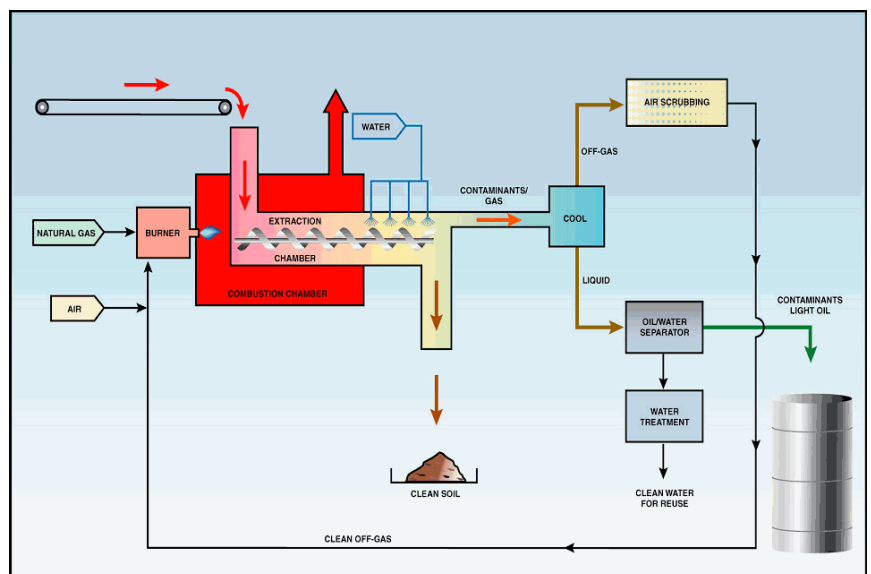
Soils are carefully and indirectly heated in a limited-oxygen, closed loop environment at temperatures up to 600°C. Water and hydrocarbon contaminants are volatilized, drawn off and re-condensed using recycled and treated recovered water.

The proprietary TPS process produces no harmful air emissions, ensures that all recovered water is thoroughly treated, guarantees that all treated

Key Advantages of TPS

- Recovery and recycling
- Requires no pretreatment
- Non-incineration
- Meets all Canadian air-emissions standards ETV Certified
- Secure fixed facility
- On-site option available
- Permitted for all types of hydro carbon impacted sludge, sediment and soil

Thermal Process overview





Phase Separation Solutions

Our state-of-the-art Treatment Facility is unique in Canada for the recovery of hydrocarbons from paint and other industrial sludge



It is the only pharmaceutical waste destruction facility using proven non-incineration technology



Facility Capabilities

- Tank Sludge
- Paint Sludge
- Petrochemical Sludge
- Refining Catalyst
- Solvent Distillation Sludge
- PCBs
- Dioxin/Furan
- PERC
- PAH/Creosote

Owned and operated by the same Canadian management team responsible for the original development and international commercialization of the TPS, Phase Separation Solutions (PS2) is a leading specialist in the safe thermal treatment of impacted soils and on-site brownfield remediation.

Designed to the most stringent of standards, the Wolseley Facility, is a self-contained island. The Operations Building and Soil Storage Area, which enclose all activities, is constructed upon 15m of compacted clay, a 60mil HDPE liner with leachate collection system, 1m of compacted fill and 150mm of steel reinforced concrete. The site itself is engineered so as to prevent any surface water from entering the site and all rainwater falling on the site is directed to a Detention Pond. All recovered water is treated, all treated solids contained and tested and no emissions other than that produced from combustion of natural gas are released. The plant is designed with the latest digital electronic controls and monitoring equipment ensuring the most efficient and safe operation.

Incineration and landfilling have long been the accepted means for disposal of impacted soils. Incineration has been the source of much public debate regarding air emissions and landfilling, if applicable at all, leaves the generator and the public with long term liability. The TPS and PS2 provide a permanent, environmentally benign solution that immediately releases generators from liability.

With unsurpassed, successful international experience the TPS technology and the Wolseley Facility leads the way in impacted soil management and brownfield remediation options in Canada today.

Global experience, environmental focus, your alternative.

To find out how we can help your organisation call:

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