



# PHASE SEPARATION SOLUTIONS



**WMT.V**

# PS2 Case Studies



Phase Separation Solutions (PS2) is a global leader in the fields of resource recovery from waste and non-combustive soil remediation. Its Canadian based Management Team provides economical and innovative engineered solutions that incorporate patented technologies widely recognized for their success in protecting not only the environment but also the reputation of its clients around the globe.

PS2 in partnership with the Huafu Environmental has deployed a TPS system to a remote location in the Changqing Oilfield for the treatment and reclamation of production waste. The TPS is part of an integrated waste management facility managed by Huafu and will form the foundation of a network of similar facilities across the Oilfield.

**Location:** Shanxi, China  
**Duration:** 2013 - Present  
**Contaminant:** Oil Sludge



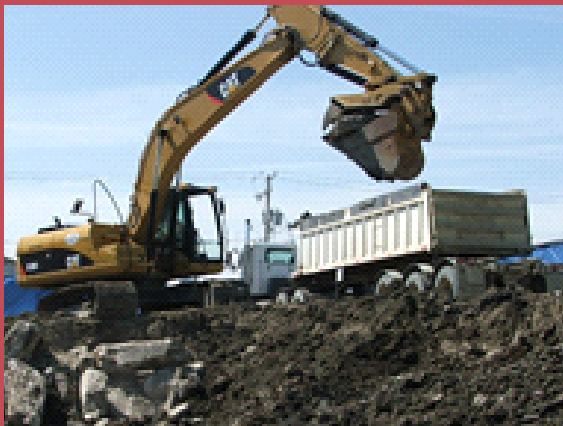
**Location:** Zhoushan, China  
**Duration:** 2014 - Present  
**Contaminant:** Oil Sludge

PS2 has formed a joint venture with the Zhejieng Nahai Waste Management company, a division of one of the largest oil importers in China. PS2 has provided proprietary equipment and expertise for the deployment and operation of an oil sludge recovery facility capable of up to 100,000 tonnes per year in a region producing several times that quantity. PS2 is producing a salable crude oil product from this waste.



**Location:** Hangzhou, China  
**Duration:** 2011 - Present  
**Contaminant:** Pesticide Impacted Soil

PS2 has formed a joint venture with the Nanjing Institute of Environmental Sciences (NIES). Contracted by Hangzhou Dadi Environmental, PS2 has deployed a TPS2 and TPS3-3EC system to treat over 140,000 tonnes of pesticide impacted soil.



**Location:** Canada  
**Duration:** 2009  
**Contaminant:** PCB Impacted Soil

PS2 was contracted by a major Canadian utility provider to act as General Contractor to excavate, remove and reclaim a large parcel of valuable commercial property located in a major city centre. This site contained several thousand metric tonnes of PCB impacted soil and debris with concentrations up to 700ppm which PS2 relocated to its state-of-the-art soil treatment facility. All soil from this project was treated successfully utilizing the TPS technology in place at this facility which services clients throughout North America.



**Location:** Canada  
**Duration:** 2011  
**Contaminant:** PCB Impacted Soil



PS2 was contracted by a major Canadian utility provider to remove, transport and treat PCB impacted soil and debris with concentrations up to 700ppm. This site was located in the downtown core of a major Canadian city and required the marine transport of the soil in order to facilitate removal. PS2 relocated the soil to its state-of-the-art soil treatment facility. All soil from this project was treated successfully utilizing the TPS technology in place at this facility which services clients throughout North America.

**Location:** Japan  
**Contaminant:** PCB, PAH, Cyanide Impacted Soil

After successful operations in Australia and field testing in Japan, the Management Team, now with PS2 oversaw the transfer of the technology to a major Japanese conglomerate for exclusive use in Japan. After several months of refitting to meet specific Japanese environmental and operational requirements the technology unit was placed into successful commercial operation





**Telstra**

Stadium

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**A**ustralian Defence Industries (ADI) was contracted by the Olympic Coordination Authority (OCA) to remediate a site adjacent to the 2000 Games Olympic Village contaminated with dioxins/furans and chlorobenzenes. This site was located on an abandoned pesticides production facility at Homebush Bay in Sydney, Australia. In keeping with the regulatory goals of the Australian environmental authority and the stated

principles of the OCA a comprehensive, non-incineration, on-site solution was demanded.

ADI initiated a comprehensive and integrated strategy to both remediate the site in question and destroy, on-site, the collected organochlorine contaminants. It contracted members of the PS2 Senior Management Team and the TPS technology to complete the remediation of the site in time for the Games.

**Location:** Sydney, Australia

**Contaminant:** PCDD/PCDF and Organochlorine Compounds







# PS2

The TPS technology has consistently proven itself commercially on projects and materials of all types. It has been deployed successfully by a number of operators around the world including Canada, Australia, the US, Japan, Ecuador, Kazakhstan, United Arab Emirates, Argentina, Russia, Bolivia and Algeria and China since 1996.

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