



Saginaw and Tittabawassee Rivers, Michigan, USA
Very high levels of dioxin contamination were caused by historical discharges from the chemical works and incinerators operated by Dow Chemical.

Rouyn-Noranda, Canada
The chemical reaction between the chlorine and carbon in this magnesium smelting plant resulted in a cocktail of organochlorine POPs.

Hamilton, Canada
More than 400 tonnes of PVC were burned in a fire at Plastimet, Inc.

Lake Charles/Calcasieu Estuary, Louisiana, USA
At least 120,000 tons of dioxin-contaminated wastes were dumped into the bayou.

El Zapallar, Peru
Ash from incinerators and illegal smelting activities is dumped here.

Santiago del Estero, Argentina
This pesticide dump is only 150 m from a school.

Cidade dos Meninos, Brazil
When this Lindane factory closed piles of residues were left behind and caused widespread contamination of land and soil.

Sydney, Canada
The Sydney Tar Ponds contain approximately 700,000 tonnes of highly contaminated sediments.

Wittelsheim, France
This post-war site in Wittelsheim was the first underground landfill in France and was used for the disposal of a wide range of wastes including gasifying sludge, spent catalysts, and residues from waste incineration.

Pula, Croatia
There are still at least 250 tons of ash dumped around the site of this former hazardous waste incinerator.

Mbeubeus, Senegal
A wide range of chemical and hazardous wastes, some contaminated with pentachloro-naphthalene and PCDD/Fs are dumped here.

Lome, Togo
Incinerator ash residues are spread on the ground where they could contaminate crops.

Luwero and Nakasongola, Uganda
Incinerator ash residues are buried in a pit within a barracks area.

Vanderbijlpark, South Africa
A large dumpsite for wastes, some of which are contaminated with POPs, from nearby iron and steel manufacturing plant.

Klatovy-Luby, Czech Republic
Site was used for preparation of mixture of wastes including waste incineration residues, metallurgy residues and sewage sludge from chemical plants.

German salt mines
Salt mines in Germany are used to store POPs however there have been several leaks and a particularly high profile scandal over the past years has been caused by the leakage of radioactive waste from the Asse II mine.

Giesen, Germany
Dioxin-contaminated slag was used as a covering material for sport ground in Giesen.

Lampertice, Czech Republic
Site was used for preparation of mixture of wastes including waste incineration residues, metallurgy residues and sewage sludge from chemical plants.

Belaruchi, Belarus
Dioxin-contaminated 'construction' material is stored in a dilapidated and partly demolished storage buildings near the village.

Dzerzhinsk, Russia
The high levels of POPs contamination from a variety of different sources.

Karabash city and Tobolsk city, Russia
Elevated levels of dioxin have been found in breast milk in this heavily industrialised area which included a former copper smelting facility.

Ust-Kamenogorsk, Kazakhstan
Very large quantities of PCBs from the waste pond are leached to the Irtysh River via groundwater pathways.

Peshawar, Pakistan
Ashes from the incineration of medical waste are dumped around the site and in wells in spite of their high levels of dioxin.

Da Nang, Bien Hoa, and Phu Cat, Vietnam
High level of dioxin contamination was caused by the spillage of highly toxic 'Agent Orange' defoliant.

AnShun, Taiwan
Local soil and fish samples are both highly contaminated with dioxins from this now closed chemical works.

Guiyu, China
The main electronic waste recycling area in China with possibly the highest levels of dioxin amongst all hotspots. Very high levels of heavy metals, PBDEs and brominated dioxins are also reported.

Balad, Iraq
A large open burn pit is typical of many in Iraq and Afghanistan where military wastes are burned in the open causing what the US authorities describe as a 'chronic and acute health hazard to our troops and the local population.'

Eloor, India
The plant produces DDT and other organochlorine pesticides. High levels of emissions and discharges have caused widespread contamination.

Kitengela / Athi River, Kenya
Hazardous waste incineration residues are tipped in a residential area without any containment and present a high risk of environmental contamination.

Old Korogwe, Tanzania
After removing stocks of DDT, highly DDT contaminated soil remains around the site.

Phuket, Thailand
Bottom ash/clinker and fly ash from these operations has been dumped or stored in ash pits and also local mangrove swamps.

Whyalla, Australia
Dioxin contaminated waste coming from the facility is dumped into a tailings dam in Spencer Gulf.

Dandenong, Australia
The Dandenong South Treatment Complex discharged a range of wastes into Dandenong Creek.

Bell Bay, Australia
A manganese sintering plant is the major source of PCDD/F pollution at the site.

McMurdo Station, Antarctica
Even in what should be the pristine environment of Antarctica the McMurdo landfill has caused local contamination with a wide variety of inorganic and organic contaminants - including PCBs.

Source categories of waste contamination by POPs:

- Pesticides production/storage
- Waste incineration
- Landfilling/dumping/open burning of wastes
- Chemical industry
- Metallurgical industry

Data about POPs levels in different environment compartments:

- Soil/sediment
- Waste residue
- Food (milk, eggs)
- Wildlife (fish)
- Human tissues (breast milk, blood)
- Air
- Water

POPs:

- PCDD/F – Polychlorinated dibenzo-p-dioxins and dibenzofurans (dioxins)
- PCB – Polychlorinated Biphenyls
- HCB – Hexachlorobenzene
- DDT – Dichlorodiphenyltrichlorethan (pesticide)
- Other OCPs – Other Organochlorine Pesticides

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Gall Stereographic Projection

- AL ALBANIA
- AN ANDORRA
- BEL BELGIUM
- BIH BOSNIA AND HERZEGOVINA
- KO KOSOVO
- L LIECHTENSTEIN
- LUX LUXEMBOURG
- MA MACEDONIA
- MS MONTENEGRO
- MO MONACO
- MOL MOLDOVA
- NTH NETHERLANDS
- SLO SLOVENIA
- SM SAN MARINO
- SW SWITZERLAND
- UAE UNITED ARAB EMIRATES
- V.C. VATICAN CITY

Selected POPs waste "Hot Spots" around the World

