

Oregon Cleanup Standards for Hydrocarbon Contaminated Groundwater

Product	Parameter/ Constituent	Lab Test Protocol & Number	Notification Level	Cleanup Level
Gasoline	втех	SW-846 Methods or Department- approved alternatives	any amount	site specific *
	PAHs	SW-846 Methods or Department- approved alternatives	any amount	site specific *
	МТВЕ	SW-846 Methods or Department- approved alternatives	any amount	site specific *
	EDB, EDC	SW-846 Methods or Department- approved alternatives	any amount	site specific *
	Propylbenzene, iso-	SW-846 Methods or Department approved alternative	any amount	site specific*
	Trimethylbenzene,1,2,4-	SW-846 Methods or Department approved alternative	any amount	site specific*
	Trimethylbenzene,1,3,5-	SW-846 Methods or Department approved alternative	any amount	site specific*
	Lead	SW-846 Methods or Department- approved alternatives	any amount	site specific *
Diesel	втех	SW-846 Methods or Department- approved alternatives	any amount	site specific *
	PAHs	SW-846 Methods or Department- approved alternatives	any amount	site specific *
Waste Oil	втех	SW-846 Methods or Department- approved alternatives	any amount	site specific *
	PAHs	SW-846 Methods or Department- approved alternatives	any amount	site specific *

	PCBs	SW-846 Methods or Department- approved alternatives	any amount	site specific *
	Chlorinated Solvents	SW-846 Methods or Department- approved alternatives	any amount	site specific *
	Lead, Cadmium, Chromium	SW-846 Methods or Department- approved alternatives	any amount	site specific *
	МТВЕ	SW-846 Methods or Department- approved alternatives	any amount	site specific *
	Propylbenzene, iso-	SW-846 Methods or Department approved alternative	any amount	site specific*
	Trimethylbenzene,1,2,4-	SW-846 Methods or Department approved alternative	any amount	site specific*
	Trimethylbenzene,1,3,5-	SW-846 Methods or Department approved alternative	any amount	site specific*
Generic	Gasoline	SW-846 Methods or Department approved alternative	any amount	site specific*
	Diesel/Heating Oil	SW-846 Methods or Department approved alternative	any amount	site specific*
	Mineral/Insulating Oil	SW-846 Methods or Department approved alternative	any amount	site specific*

*Note: Oregon's UST Cleanup Rules (OAR 340-122-0205 through 340-122-0360) provide responsible parties with four options for remediating sites;

- 1) soil contamination may be remediated to site-specific TPH levels,
- 2) the site may be shown to meet a set of "Low-impact Site" requirements,
- 3) the site may be remediated to risk-based concentrations (RBCs) which may be either generic standards taken from Department guidance, or site-specific standards developed by the responsible party or
- 4) the site may be shown to meet the requirements of an applicable generic remedy developed by the Department.

Cleanup levels for individual constituents are risk-based and depend on site-specific exposure pathways. The Department has developed generic risk-based concentrations, but there are too many to list in this table. All risk-based standards must meet statutory requirements of 1-in-a-million excess cancer risk for carcinogens and a hazard index of one for non-carcinogens. A complete table of risk-based concentrations was updated in November 2011.

Contact: Mitch Scheel, Oregon Department of Environmental Quality, 503-229-6704

E-mail: scheel.mitch@deq.state.or.us

Web Site: http://www.deq.state.or.us/lq/rbdm.htm



Oregon Cleanup Standards for Hydrocarbon Contaminated Soil

Product	Parameter/Constituen t	Lab Test Protocol & Number	Detection Level	Notification Level	Cleanup Level
	TPH	NWTPH-GX	5mg/kg	any amount	site specific*
Gasoline					Level 1=40mg/kg
					Level 2=80mg/kg
					Level 3=130mg/kg
	втех	SW-846 Methods or Department approved alternative			site specific*
	PAHs	SW-846 Methods or Department approved alternative			site specific*
	МТВЕ	SW-846 Methods or Department approved alternative			site specific*
	EDB, EDC	SW-846 Methods or Department approved alternative			site specific*
	Propylbenzene, iso-	SW-846 Methods or Department approved alternative			site specific*
	Trimethylbenzene,1,2,4	SW-846 Methods or Department approved alternative			site specific*
	Trimethylbenzene,1,3,5	SW-846 Methods or Department approved alternative			site specific*
	Lead	SW-846 Methods or Department approved alternative			site specific*

Diesel	ТРН	NWTPH-DX	25mg/kg	any amount	site specific*
					Level 1=100mg/kg
					Level 2=500mg/kg
					Level 3=1000mg/kg
	втех	SW-846 Methods or Department approved alternative			site specific*
	PAHs	SW-846 Methods or Department approved alternative			site specific*
Waste Oil	ТРН	NWTPH-DX	100mg/kg	any amount	same as diesel
	втех	SW-846 Methods or Department approved alternative			site specific*
	PAHs	SW-846 Methods or Department approved alternative			site specific*
	PCBs	SW-846 Methods or Department approved alternative			site specific*
	Chlorinated Solvents	SW-846 Methods or Department approved alternative			site specific*
	Propylbenzene, iso-	SW-846 Methods or Department approved alternative			site specific*
		SW-846 Methods or Department approved alternative			site specific*
		SW-846 Methods or Department approved alternative			site specific*
	Lead, Cadmium, Chromium	SW-846 Methods or Department approved alternative			site specific*
Generic	Gasoline	SW-846 Methods or Department approved alternative			site specific*

	_	SW-846 Methods or Department approved alternative		site specific*
		SW-846 Methods or Department approved alternative		site specific*

*Note: Oregon's UST Cleanup Rules (OAR 340-122-0205 through 340-122-0360) provide responsible parties with four options for remediating sites;

- 1) soil contamination may be remediated to site-specific TPH levels,
- 2) the site may be shown to meet a set of "Low-impact Site" requirements,
- 3) the site may be remediated to risk-based concentrations (RBCs) which may be either generic standards taken from Department guidance, or site-specific standards developed by the responsible party or
- 4) the site may be shown to meet the requirements of an applicable generic remedy developed by the Department.

Cleanup levels for individual constituents are risk-based and depend on site-specific exposure pathways. The Department has developed generic risk-based concentrations, but there are too many to list in this table. All risk-based standards must meet statutory requirements of 1-in-a-miliion excess cancer risk for carcinogens and a hazard index of one for non-carcinogens. A complete table of risk-based concentrations was updated in November 2011.

Contact: Mitch Scheel, Oregon Department of Environmental Quality, 503-229-6704

E-mail: scheel.mitch@deq.state.or.us

Web Site: http://www.deq.state.or.us/lq/rbdm.htm