

Michigan Cleanup Standards for Hydrocarbon Contaminated Groundwater

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Cleanup Criteria Residential
						Residential/Nonresidential
Gasoline	Benzene ^(c)	EPA 8260, 8021, Applicable 500 Series Drinking Water Methods, Other Applicable Methods and Procedures	1 µg/L	> Residential Criterion	same as Cleanup Criteria	5/5 µg/L
	Toluene ^(d)	EPA 8260, 8021, Applicable 500 Series Drinking Water Methods, Other Applicable Methods and Procedures	1 µg/L	> Residential Criterion	same as Cleanup Criteria	270/270 µg/L
	Ethylbenzene ^(d)	EPA 8260, 8021, Applicable 500 Series Drinking Water Methods, Other Applicable Methods and Procedures	1 µg/L	> Residential Criterion	same as Cleanup Criteria	18/18 µg/L
	Xylenes ^(d)	EPA 8260, 8021, Applicable 500 Series Drinking Water Methods, Other Applicable Methods and Procedures	3 µg/L	> Residential Criterion	same as Cleanup Criteria	41/41 µg/L
Premium Gas	MTBE ^(b)	EPA 8260	5 µg/L	> Residential Criterion	same as Cleanup Criteria	40/40 µg/L
Leaded Gas	Lead ^(a)	EPA 6010, 6020, 200.7, 200.8 and Applicable CLP Methods	1 µg/L	> Residential Criterion	same as Cleanup Criteria	4/4 µg/L
Diesel	BTEX	EPA 8260, 8021, Applicable 500 Series Drinking Water Methods, Other Applicable Methods and Procedures	Same as above	> Residential Criterion	same as Cleanup Criteria	Same as above
	PAHs	EPA 8270, 8310, Applicable 500 Series Drinking Water Methods, Other Applicable Methods and Procedures	1-5 µg/L	> Residential Criterion	same as Cleanup Criteria	Varies by chemical

^(a) Health based drinking water value.

^(b) Aesthetic drinking water value.

^(c) State drinking water standard

^(d) Groundwater Surface Water Interface Criterion (protection of surface water)

Note: Alternative Cleanup Criteria may be available under certain circumstances.

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Michigan Cleanup Standards for Hydrocarbon Contaminated Soil

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Action Level	Cleanup Criteria Residential
Gasoline	Benzene	EPA 8260, 8261, 8021	50 µg/kg	> Residential Criterion	100 µg/kg	100 µg/kg
	Toluene	EPA 8260, 8261, 8021	100 µg/kg	> Residential Criterion	5,400 µg/kg	5,400 µg/kg
	Ethylbenzene	EPA 8260, 8261, 8021	50 µg/kg	> Residential Criterion	360 µg/kg	360 µg/kg
	Xylenes	EPA 8260, 8261, 8021	150 µg/kg (50 µg/kg for individual isomers)	> Residential Criterion	820 µg/kg	820 µg/kg
Premium Gas	MTBE	EPA 8260, 8261	250 µg/kg	> Residential Criterion	800 µg/kg	800 µg/kg
Leaded Gas	Lead	EPA 6010, 6020, 200.7, 200.8 and Other Applicable Methods and Procedures	1,000 µg/kg	> Residential Criterion	400,000 ug/kg	400,000 ug/kg
	PAHs	EPA 8270, 8310, Other Applicable Methods and Procedures	330 µg/kg	> Residential Criterion	same as cleanup criteria	varies by chemical

Note: Waste oil samples need to be tested for other metals and organic solvents. Call MDEQ for information. Alternative cleanup criteria may be available under certain circumstances.

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