

## New Jersey Cleanup Standards for Hydrocarbon Contaminated Groundwater

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Cleanup Level
Gasoline	Benzene	EPA 524.2	test specific	any amount	1µg/L
	Toluene	EPA 524.2	test specific	any amount	1000µg/L
	Ethylbenzene	EPA 524.2	test specific	any amount	700µg/L
	Xylene	EPA 524.2	test specific	any amount	1000µg/L
	MTBE	EPA 524.2	test specific	any amount	70µg/L
	TBA	EPA 524.2	test specific	any amount	100µg/L
	Naphthalene	EPA 524.2	test specific	any amount	300µg/L
	Lead	EPA 200.9	test specific	any amount	5µg/L
Diesel	same as for gasoline				
	2-methylnaphthalene	EPA 524.2	test specific	any amount	30 ppb

\*Higher of Groundwater Quality Criteria or Practical Quantitation Limit.

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**Web Site:** <http://www.nj.gov/dep/standards/>

## New Jersey Soil Remediation Standards for Hydrocarbon Contaminated Soil

Product	Parameter/ Constituent	Lab Test Protocol & Number <sup>1</sup>	Detection Level	Notification Level	Soil Remediation Standard <sup>2</sup> Residential/Non-Residential/Default Impact to Groundwater <sup>3</sup>
Gasoline	Benzene	VO + TICs	test specific	any amount	3 mg/kg / 5 mg/kg / 0.005 mg/kg <sup>3</sup>
	Toluene	VO + TICs	test specific	any amount	6,300 mg/kg / 91,000 mg/kg/ 4 mg/kg <sup>3</sup>
	Ethylbenzene	VO + TICs	test specific	any amount	7,800 mg/kg / 110,000 mg/kg/ 8 mg/kg <sup>3</sup>
	Xylenes (total o,m,p)	VO + TICs	test specific	any amount	13,000 mg/kg / 170,000 mg/kg / 13 mg/kg <sup>3</sup>
	1,2-dibromoethane <sup>4</sup>	VO + TICs	test specific	any amount	0.008 mg/kg / 0.04 mg/kg / 0.005 mg/kg <sup>3</sup>
	1,2-dichloroethane <sup>4</sup>	VO + TICs	test specific	any amount	8 mg/kg / 24 mg/kg / 0.2 mg/kg <sup>3</sup>
	Tertiary Butyl Alc. <sup>5</sup>	VO + TICs	test specific	any amount	1,400 mg/kg / 11,000 mg/kg / 0.2 mg/kg <sup>3</sup>
	Lead	SW-846 6010B/C	test specific	any amount	400 mg/kg / 800 mg/kg/ 59 mg/kg <sup>3</sup>
Diesel & No. 2 Fuel Oil	Extractable Petroleum Hydrocarbons <sup>6</sup>	Extractable Petroleum Hydrocarbons <sup>6</sup>	test specific	any amount	5,100 mg EPH/kg / 8,000 mg EPH/kg <sup>7</sup> / 5 mg/kg 2-methylnaphthalene <sup>8</sup>

### Footnotes

- Analytical parameters and methods per the Technical Requirements for Site Remediation [N.J.A.C. 7:26E-2.1]. See <http://www.nj.gov/dep/srp/regs/techrule/>. Analysis via New Jersey Certified methods.
- Soil Remediation Standards [N.J.A.C. 7:26D]. See [http://www.nj.gov/dep/srp/regs/rs/rs\\_rule.pdf](http://www.nj.gov/dep/srp/regs/rs/rs_rule.pdf)
- Default Impact to Groundwater Screening Levels provided, however, Impact to Groundwater Soil Remediation Standards must be calculated on a site specific basis. Note the health-based numbers for benzene and 1,2-dibromoethane would default to the analytical practical quantitation limit (PQL). See [http://www.nj.gov/dep/srp/guidance/rs/igw\\_intro.htm](http://www.nj.gov/dep/srp/guidance/rs/igw_intro.htm)
- For leaded gasoline only. EPA Target Compound List volatile organic compounds excluding 1,2-Dibromo-3-chloropropane and 1,4-Dioxane with a library search of the 15 highest TICs.

5. For unleaded gasoline only. EPA Target Compound List volatile organic compounds excluding 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, and 1,4-Dioxane with a library search of the 15 highest TICs.
6. Extractable Petroleum Hydrocarbons (EPH) protocol and the analytical method are found at <http://www.nj.gov/dep/srp/guidance/rs/#phc> . See Category 1.
7. The health based nonresidential exposure number of 54,000 mg EPH/kg defaults to the free product limit of 8,000 mg EPH/kg.
8. 2-methylnaphthalene is used to as a surrogate for diesel and No. 2 fuel oil to protect ground water.

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