

Tennessee Cleanup Standards for Hydrocarbon Contaminated Groundwater

Product	Drinking Water Classification		Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level / Action Level (Initial Screening Level)		Cleanup Level
						Drinking Water	Non-Drinking Water (Residential)	
Gasoline	Drinking Water	Non-Drinking Water	Benzene	EPA 8260B	0.001 mg/L	0.005 mg/L	0.072 mg/L	Risk Based / Site Specific
			Toluene		0.001 mg/L	1.0 mg/L	4.31 mg/L	Risk Based / Site Specific
			Ethylbenzene		0.002 mg/L	0.7 mg/L	10.3 mg/L	Risk Based / Site Specific
			Total Xylenes		0.005 mg/L	10 mg/L	3.57 mg/L	Risk Based / Site Specific
			MTBE		0.005 mg/L	0.02 mg/L	175 mg/L	Risk Based / Site Specific
			Naphthalene		0.005 mg/L	0.02 mg/L	9.81 mg/L	Risk Based / Site Specific
Diesel / Kerosene / or Jet Fuel	Non-Drinking Water		Benzene	EPA 8260B	0.001 mg/L	0.005 mg/L	0.072 mg/L	Risk Based / Site Specific
			Toluene		0.001 mg/L	1.0 mg/L	4.31 mg/L	Risk Based / Site Specific
			Ethylbenzene		0.002 mg/L	0.7 mg/L	10.3 mg/L	Risk Based / Site Specific
			Total Xylenes		0.005 mg/L	10 mg/L	3.57 mg/L	Risk Based / Site Specific
			MTBE		0.005 mg/L	0.02 mg/L	175 mg/L	Risk Based / Site Specific
			Naphthalene		0.005 mg/L	0.02 mg/L	9.81 mg/L	Risk Based / Site Specific
	Drinking Water		Acenaphthene	EPA 8270C SIM or EPA 8310 (field filtering required with 0.45 micron filter)	0.939 mg/L	0.939 mg/L		Risk Based / Site Specific
			Acenaphthylene		0.939 mg/L	0.939 mg/L		
			Anthracene		0.0434 mg/L	0.0434 mg/L		Risk Based / Site Specific
			Benzo(a)anthracene		0.00018 mg/L	0.00117 mg/L		Risk Based / Site Specific
			Benzo(a)pyrene		0.0002 mg/L	0.0002 mg/L		Risk Based / Site Specific
			Benzo(b)fluoranthene		0.00018 mg/L	0.00117 mg/L		Risk Based / Site Specific
			Benzo(g,h,i)perylene		0.0007 mg/L	0.0007 mg/L		Risk Based / Site Specific
			Benzo(k)fluoranthene		0.00018 mg/L	0.0008 mg/L		Risk Based / Site Specific
			Chrysene		0.00018 mg/L	0.0016 mg/L		Risk Based / Site Specific
			Dibenzo(a,h)anthracene		0.000117 mg/L	0.000117 mg/L		Risk Based / Site Specific
			Fluoranthene		0.14 mg/L	0.206 mg/L		Risk Based / Site Specific
			Fluorene		0.626 mg/L	0.626 mg/L		Risk Based / Site Specific
			Indeno(1,2,3-c,d)pyrene		0.00018 mg/L	0.00117 mg/L		Risk Based / Site Specific
			Phenanthrene		0.469 mg/L	0.469 mg/L		Risk Based / Site Specific
Pyrene	0.135 mg/L	0.135 mg/L		Risk Based / Site Specific				

Product	Drinking Water Classification		Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level / Action Level (Initial Screening Level)		Cleanup Level				
						Drinking Water	Non-Drinking Water (Residential)					
Waste Oil		Non-Drinking Water	Naphthalene	EPA 8260B	0.005 mg/L		9.81 mg/L	Risk Based / Site Specific				
	Drinking Water		Acenaphthene	EPA 8270C SIM or EPA 8310 (field filtering required with 0.45 micron filter)	0.939 mg/L	0.939 mg/L		Risk Based / Site Specific				
			Acenaphthylene		0.939 mg/L	0.939 mg/L		Risk Based / Site Specific				
			Anthracene		0.0434 mg/L	0.0434 mg/L		Risk Based / Site Specific				
			Benzo(a)anthracene		0.00018 mg/L	0.00117 mg/L		Risk Based / Site Specific				
			Benzo(a)pyrene		0.0002 mg/L	0.0002 mg/L		Risk Based / Site Specific				
			Benzo(b)fluoranthene		0.00018 mg/L	0.00117 mg/L		Risk Based / Site Specific				
			Benzo(g,h,i)perylene		0.0007 mg/L	0.0007 mg/L		Risk Based / Site Specific				
			Benzo(k)fluoranthene		0.00018 mg/L	0.0008 mg/L		Risk Based / Site Specific				
			Chrysene		0.00018 mg/L	0.0016 mg/L		Risk Based / Site Specific				
			Dibenzo(a,h)anthracene		0.000117 mg/L	0.000117 mg/L		Risk Based / Site Specific				
			Fluoranthene		0.14 mg/L	0.206 mg/L		Risk Based / Site Specific				
			Fluorene		0.626 mg/L	0.626 mg/L		Risk Based / Site Specific				
			Indeno(1,2,3-c,d)pyrene		0.00018 mg/L	0.00117 mg/L		Risk Based / Site Specific				
			Naphthalene		0.005 mg/L	0.02 mg/L		Risk Based / Site Specific				
			Phenanthrene		0.469 mg/L	0.469 mg/L		Risk Based / Site Specific				
			Pyrene		0.135 mg/L	0.135 mg/L		Risk Based / Site Specific				
								EPA 200.7				
						Cadmium			0.001 mg/L	0.005 mg/L		Risk Based / Site Specific
			Total Chromium		0.004 mg/L	0.1 mg/L		Risk Based / Site Specific				
			Total Lead		0.010 mg/L	0.015 mg/L		Risk Based / Site Specific				
			Silver		0.002 mg/L	0.1 mg/L		Risk Based / Site Specific				
		Zinc		0.002 mg/L	5 mg/L		Risk Based / Site Specific					

Product	Drinking Water Classification		Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level / Action Level (Initial Screening Level)		Cleanup Level	
						Drinking Water	Non-Drinking Water (Residential)		
Aviation Fuel	Non-Drinking Water		EDB	EPA 8260B	0.005 mg/L		0.0855 mg/L	Risk Based / Site Specific	
			Benzene	EPA 8260B	0.001 mg/L	0.005 mg/L	0.072 mg/L	Risk Based / Site Specific	
			Toluene		0.001 mg/L	1.0 mg/L	4.31 mg/L	Risk Based / Site Specific	
			Ethylbenzene		0.002 mg/L	0.7 mg/L	10.3 mg/L	Risk Based / Site Specific	
			Total Xylenes		0.005 mg/L	10 mg/L	3.57 mg/L	Risk Based / Site Specific	
			MTBE		0.005 mg/L	0.02 mg/L	175 mg/L	Risk Based / Site Specific	
			Naphthalene		0.005 mg/L	0.02 mg/L	9.81 mg/L	Risk Based / Site Specific	
			EDC		0.001 mg/L	0.005	0.0267	Risk Based / Site Specific	
	EDB	EPA 8011	0.00002 mg/L		0.00005 mg/L		Risk Based / Site Specific		
	Acenaphthene	EPA 8270C SIM or EPA 8310 (field filtering required with 0.45 micron filter)	0.939 mg/L	0.939 mg/L		Risk Based / Site Specific			
	Acenaphthylene		0.939 mg/L	0.939 mg/L		Risk Based / Site Specific			
	Anthracene		0.0434 mg/L	0.0434 mg/L		Risk Based / Site Specific			
	Benzo(a)anthracene		0.00018 mg/L	0.00117 mg/L		Risk Based / Site Specific			
	Benzo(a)pyrene		0.0002 mg/L	0.0002 mg/L		Risk Based / Site Specific			
	Benzo(b)fluoranthene		0.00018 mg/L	0.00117 mg/L		Risk Based / Site Specific			
	Benzo(g,h,i)perylene		0.0007 mg/L	0.0007 mg/L		Risk Based / Site Specific			
	Benzo(k)fluoranthene		0.00018 mg/L	0.0008 mg/L		Risk Based / Site Specific			
	Chrysene		0.00018 mg/L	0.0016 mg/L		Risk Based / Site Specific			
	Dibenzo(a,h)anthracene		0.000117 mg/L	0.000117 mg/L		Risk Based / Site Specific			
	Fluoranthene		0.14 mg/L	0.206 mg/L		Risk Based / Site Specific			
	Fluorene		0.626 mg/L	0.626 mg/L		Risk Based / Site Specific			
	Indeno(1,2,3-c,d)pyrene		0.00018 mg/L	0.00117 mg/L		Risk Based / Site Specific			
	Phenanthrene		0.469 mg/L	0.469 mg/L		Risk Based / Site Specific			
	Pyrene		0.135 mg/L	0.135 mg/L		Risk Based / Site Specific			
	Total Lead		EPA 200.7	0.010 mg/L	0.015 mg/L		Risk Based / Site Specific		
	Unknown	Requirements equivalent to Waste Oil + Aviation Fuel							

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Tennessee Cleanup Standards for Hydrocarbon Contaminated Soil

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level (Default)	Notification Level / Action Level (Initial Screening Level)		Cleanup Level
				Residential	Commercial	
Gasoline	Benzene	EPA 8260B	0.010 mg/kg	0.0729 mg/kg	3.8 mg/kg	Risk Based / Site Specific
	Toluene	EPA 8260B	0.010 mg/kg	6.78 mg/kg	62.2 mg/kg	Risk Based / Site Specific
	Ethylbenzene	EPA 8260B	0.020 mg/kg	143 mg/kg	1310 mg/kg	Risk Based / Site Specific
	Total Xylenes	EPA 8260B	0.010 mg/kg	9.6 mg/kg	88.0 mg/kg	Risk Based / Site Specific
	MTBE	EPA 8260B	0.050 mg/kg	39.6 mg/kg	364 mg/kg	Risk Based / Site Specific
	Naphthalene	EPA 8260B	0.050 mg/kg	135 mg/kg	403 mg/kg	Risk Based / Site Specific
Diesel / Kerosene / Jet Fuel / Aviation / or Unknown	Benzene	EPA 8260B	0.010 mg/kg	0.0729 mg/kg	3.8 mg/kg	Risk Based / Site Specific
	Toluene	EPA 8260B	0.010 mg/kg	6.78 mg/kg	62.2 mg/kg	Risk Based / Site Specific
	Ethylbenzene	EPA 8260B	0.020 mg/kg	143 mg/kg	1310 mg/kg	Risk Based / Site Specific
	Total Xylenes	EPA 8260B	0.010 mg/kg	9.6 mg/kg	88.0 mg/kg	Risk Based / Site Specific
	MTBE	EPA 8260B	0.050 mg/kg	39.6 mg/kg	364 mg/kg	Risk Based / Site Specific
	Naphthalene	EPA 8260B	0.050 mg/kg	135 mg/kg	403 mg/kg	Risk Based / Site Specific
	EPH*	TN EPH	40 mg/kg	500 mg/kg	500 mg/kg	Screening Only
Waste Oil	Naphthalene	EPA 8260B	0.050 mg/kg	135 mg/kg	403 mg/kg	Risk Based / Site Specific
	EPH*	TN EPH	40 mg/kg	500 mg/kg	500 mg/kg	Screening Only

* - EPH should only be included during tank closures

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