

OREGON ADMINISTRATIVE RULES
CHAPTER 340, DIVISION 40 - DEPARTMENT OF ENVIRONMENTAL QUALITY

TABLE 1
(OAR 340-40-020)

Numerical Groundwater Quality Reference Levels:¹

<u>Inorganic Contaminants</u>	<u>Reference Level (mg/L)</u>
Arsenic	0.05
Barium	1.0
Cadmium	0.01
Chromium	0.05
Fluoride	4.0
Lead	0.05
Mercury	0.002
Nitrate-N	10.0
Selenium	0.01
Silver	0.05

¹All reference levels are for total (unfiltered) concentrations unless otherwise specified by the Department.

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TABLE 2
(OAR 340-40-020)

Numerical Groundwater Quality Reference Levels (Continued):¹

Organic Contaminants	Reference Level (mg/L)
Benzene	0.005
Carbon Tetrachloride	0.005
p-Dichlorobenzene	0.075
1,2-Dichloroethane	0.005
1,1-Dichloroethylene	0.007
1,1,1-Trichloroethane	0.200
Trichloroethylene	0.005
Total Trihalomethanes	0.100
(the sum of concentrations bromodichloromethane, dibromochloromethane, tribromomethane (bromoform), and trichloromethane (chloroform))	
Vinyl Chloride	0.002
2,4-D	0.100
Endrin	0.0002
Lindane	0.004
Methoxychlor	0.100
Toxaphene	0.005
2,4,5-TP Silvex	0.010

¹All reference levels are for total (unfiltered) concentrations unless otherwise specified by the Department.

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TABLE 3
(OAR 340-40-020)

Numerical Groundwater Quality Guidance Levels:¹

Miscellaneous Contaminants	Guidance Level (mg/L)²
Chloride	250
Color	15 Color Units
Copper	1.0
Foaming agents	0.5
Iron	0.3
Manganese	0.05
Odor	3 Threshold odor number
pH	6.5-8.5
Sulfate	250
Total dissolved solids	500
Zinc	5.0

¹All guidance levels except total dissolved solids and are for total (unfiltered) concentrations unless otherwise specified by the Department.

²Unless otherwise specified, except pH.

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TABLE 4A
(OAR 340-40-090)
Interim Standards for Maximum Measurable Levels
of Contaminants in Groundwater:^{1,2,3}

Inorganic Contaminants	Interim Standard (mg/L)
Arsenic	0.05
Barium	1.0
Cadmium	0.010
Chromium	0.05
Fluoride	4.0
Lead	0.05
Mercury	0.002
Selenium	0.01
Silver	0.05

¹All reference levels are for total (unfiltered) concentrations unless otherwise specified by the Department.

²The source of all standards listed is **40 CFR Part 141**.

³MMLs are used to trigger designation of a groundwater management area when concentrations are detected on an areawide basis which exceed 70 percent of the nitrate MML or 50 percent of other MMLs.

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TABLE 4B
(OAR 340-40-090)

**Permanent Standards for Maximum Measurable Levels of
Contaminants in Groundwater:^{1,2,3}**

Inorganic Contaminants	Standard (mg/L)
Nitrate-N (Nitrate expressed as Nitrogen)	10

¹All reference levels are for total (unfiltered) concentrations unless otherwise specified by the Department.

²The source of all standards listed is **40 CFR Part 141**.

³MMLs are used to trigger designation of a groundwater management area when concentrations are detected on an areawide basis which exceed 70 percent of the nitrate MML or 50 percent of other MMLs.

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TABLE 5
(OAR 340-40-090)

**Interim Standards for Maximum Measurable Levels
of Contaminants in Groundwater (Continued):^{1,2,3}**

Organic Contaminants	Interim Standard (mg/L)
Benzene	0.005
Carbon Tetrachloride	0.005
p-Dichlorobenzene	0.075
1,2-Dichloroethane	0.005
1,1-Dichloroethylene	0.007
1,1,1-Trichloroethane	0.20
Trichloroethylene	0.005
Total Trihalomethanes	0.10
(the sum of concentrations bromodichloromethane, dibromochloromethane, tribromomethane (bromoform), and trichloromethane (chloroform))	
Vinyl Chloride	0.002
2,4-D	0.10
Endrin	0.0002
Lindane	0.004
Methoxychlor	0.10
Toxaphene	0.005
2,4,5-TP Silvex	0.01

¹All reference levels are for total (unfiltered) concentrations unless otherwise specified by the Department.

²The source of all standards listed is **40 CFR Part 141**.

³MMLs are used to trigger designation of a groundwater management area when concentrations are detected on an areawide basis which exceed 70 percent of the nitrate MML or 50 percent of other MMLs.

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TABLE 6
(OAR 340-40-090)

**Interim Standards for Maximum Measurable Levels
of Contaminants in Groundwater:^{1,3}**

Radioactive Substances, Microbiological and Turbidity

Contaminants	Interim Standard
Turbidity	1 T U
Coliform Bacteria	< 1/100 ml
Radioactive Substances	
Gross Alpha ²	15 pCi/l
Combined Radium 226 and 228	5 pCi/l
Gross Beta	50 pCi/l
I - 131	3 pCi/l
Sr - 90	8 pCi/l
Tritium	20,000 pCi/l

¹The source of all standards listed is **40 CFR Part 141**.

²Including Radium 225 but excluding Radon and Uranium.

³MMLs are used to trigger designation of a groundwater management area when concentrations are detected on an areawide basis which exceed 70 percent of the nitrate MML or 50 percent of other MMLs.