

OHIO EPA DIVISION OF DRINKING AND GROUND WATERS
PARAMETERS REQUIRED FOR COMPLETE WELL ANALYSIS

PARAMETER	MCL / Standard
INORGANIC CHEMICALS (Asbestos will be included at the discretion of the district office staff)	
Alkalinity Total, as CaCO ₃	No standard
Antimony Total, Sb	0.006 mg/l (6 ug/l)
Arsenic Total, As	0.010 mg/l (10 ug/l)
Barium Total, Ba	2 mg/l (2000 ug/l)
Beryllium Total, Be	0.004 mg/l (4 ug/l)
Cadmium Total, Cd	0.005 mg/l (5 ug/l)
Calcium Total, Ca	No standard
Chloride, Cl	250 mg/l SMCL
Chromium Total, Cr	0.1 mg/l (100 ug/l)
Copper Total, Cu	1.3 mg/l (1,300 ug/l) AL
Cyanide, CN	0.2 mg/l (200 ug/l)
Fluoride Total, F	4.0 mg/l
Iron Total, Fe	0.3 mg/l (300 ug/l) SMCL
Lead Total, Pb	0.015 mg/l (15 ug/l) AL
Magnesium Total, Mg	No standard
Manganese Total, Mn	0.05 mg/l (50 ug/l) SMCL
Mercury Total, Hg	0.002 mg/l (2 ug/l)
Nickel Total, Ni	0.1 mg/l (100 ug/l)
Nitrate, NO ₃ (as N)	10 mg/l
Nitrate-Nitrite, NO ₃ -NO ₂ (as N)	10 mg/l
Nitrite, NO ₂ (as N)	1 mg/l
pH, Lab S.U.	7.0 - 10.5 SMCL
Residue, Total Filt (Diss)	500 mg/l SMCL
Selenium Total, Se	0.05 mg/l (50 ug/l)
Silver Total, Ag	0.1 mg/l (100 ug/l) SMCL
Sodium Total, Na	No standard
Sulfate, SO ₄	250 mg/l SMCL
Thallium Total, Tl	0.002 mg/l (2 ug/l)
Zinc Total, Zn	5 mg/l SMCL
RADIOLOGICAL	
Gross Alpha	15 pCi/l MCL / 5 pCi/l AL*
Radium 228	5 pCi/l (combined with 226 result)
Radium 226*	5 pCi/l (combined with 228 result)
Uranium**	30 ug/l
VOLATILE ORGANIC CHEMICALS (VOCs)	
(21 regulated)	See back
SYNTHETIC ORGANIC CHEMICALS (SOCs)	
(3 regulated)	See back
BACTERIA STANDARDS	
Total Coliform (2 samples collected at least 24 hrs. apart)	1 Positive = Standard Exceeded

NOTE: All samples must be analyzed by a certified laboratory. All applicable sample results must be received and approved by the Ohio EPA before the well can be considered for use as a public water source. Additional analyses other than what are listed may be required.

* Radium 226 required if the gross alpha result or gross alpha and radium 228 results exceed(s) 5 pCi/l.

** Uranium required if the gross alpha result exceeds 15 pCi/l.

VOLATILE ORGANIC CHEMICALS (VOCs)

Regulated-(21)	MCL
Benzene	0.005 mg/l (5 ug/l)
Carbon Tetrachloride	0.005 mg/l (5 ug/l)
o-Dichlorobenzene	0.6 mg/l (600 ug/l)
p-Dichlorobenzene	0.075 mg/l (75 ug/l)
1,2-Dichloroethane	0.005 mg/l (5.0 ug/l)
1,1-Dichloroethylene	0.007 mg/l (7 ug/l)
cis-1,2-Dichloroethylene	0.07 mg/l (70 ug/l)
trans-1,2-Dichloroethylene	0.1 mg/l (100 ug/l)
Dichloromethane	0.005 mg/l (5 ug/l)
1,2-Dichloropropane	0.005 mg/l (5 ug/l)
Ethylbenzene	0.7 mg/l (700 ug/l)
Monochlorobenzene	0.1 mg/l (100 ug/l)
Styrene	0.1 mg/l (100 ug/l)
Tetrachloroethylene	0.005 mg/l (5 ug/l)
Toluene	1 mg/l (1,000 ug/l)
1,2,4-Trichlorobenzene	0.07 mg/l (70 ug/l)
1,1,1-Trichloroethane	0.2 mg/l (200 ug/l)
1,1,2-Trichloroethane	0.005 mg/l (5 ug/l)
Trichloroethylene	0.005 mg/l (5 ug/l)
Vinyl Chloride	0.002 mg/l (2 ug/l)
Xylenes (total)	10 mg/l (10,000 ug/l)

SYNTHETIC ORGANIC CHEMICALS (SOCS)

Parameter	MCL
Atrazine	0.003 mg/l (3 ug/l)
Alachlor	0.002 mg/l (2 ug/l)
Simazine	0.004 mg/l (4 ug/l)

ABBREVIATIONS:

MCL - Maximum Contaminant Level

mg/l - milligrams per liter (parts per million - ppm) = 1,000 ug/l

ug/l - micrograms per liter (parts per billion - ppb) = .001 mg/l

pCi/l - picocurie per liter

SMCL - Secondary Maximum Contaminant Level - Advisory limit only

AL - Action Level - requires action to be taken