INITIAL TESTING WATER QUALITY (SOURCE) MONITORING SCHEDULE

Nontransient Noncommunity System (Ground Water)

UPDATED January 2018

This schedule supersedes all previous monitoring schedules.

Chemical - Title 22	MCL (mg/L)	EPA Methods	Frequency
Primary Inorganics - Section 64432			
Aluminum	1		Initial testing, then every 3 years*
Antimony	0.006		Initial testing, then every 3 years*
Arsenic	0.010		Initial testing, then every 3 years*
Barium	1		Initial testing, then every 3 years*
Beryllium	0.004		Initial testing, then every 3 years*
Cadmium	0.005		Initial testing, then every 3 years*
Chromium, Total	0.05		Initial testing, the every 3 years*
Chromium, Hexavalent	0.01		Initial testing, then every 3 years*
Cyanide	0.15		Intial testing, the every 3 years*
Fluoride	2.0		Initial testing, then every 3 years*
Mercury	0.002		Initial testing, then every 3 years*
Nickel	0.1		Initial testing, then every 3 years*
Perchlorate	0.006		2 Samples, 5 to 7 months apart**
Selenium	0.05		Initial testing, then every 3 years*
Thallium	0.002		Initial testing, then every 3 years*
Asbestos - Section 64432.2			
Asbestos - Source Water	7 MFL		Initial testing, then every 9 years
Asbestos - Distribution System sampling ***if Asbestos-Cement pipe used***	7 MFL		***Every 9 years*** if Aggressive Index ≤11.5
Nitrate/Nitrite - Section 64432.1			
Nitrate (as N)	10		Annually if < 5 mg/L***
Nitrite (as N)	1		Every 3 years if < 0.5 mg/L****
Nitrate + Nitrite (sum as N)	10		Initial testing
Secondary Standards - Table 64449-A			
Aluminum	N/A		Once Only
Color	N/A		Once Only
Copper	N/A		Once Only
Foaming Agents	N/A		Once Only
Iron	N/A		Once Only
Manganese	N/A		Once Only
Methyl-*tert*-butyl ether (MTBE)	N/A	502.2, 524.2	See MTBE frequency on page 2
Odor	N/A		Once Only
Silver	N/A		Once Only
Thiobencarb	N/A		Once Only
Turbidity	N/A		Once Only
Zinc	N/A		Once Only
General Minerals - Section 64449			
Bicarbonate	N/A		Once Only
Carbonate	N/A		Once Only
Hydroxide Alkalinity	N/A		Once Only
Calcium	N/A		Once Only
Magnesium	N/A		Once Only
Sodium	N/A		Once Only
Hardness	N/A		Once Only
pH	N/A		Once Only
Secondary Standards - Table 64449-B			
TDS	N/A		Once Only
Specific Conductance	N/A		Once Only
Chloride	N/A		Once Only
Sulfate	N/A		Once Only

MCL = Maximum Contaminant Level

*One quarter of initial testing only. Frequency applies to IOCs < MCL at initial testing. Any IOCs > 50% MCL may be subject to quarterly monitoring. Sampling shall be increased to quarterly following any IOC result > MCL.

At least 1 sample must be collected during the period from May 1 through September 30.** If no perchlorate is detected, the monitoring frequency frequency will be every year.

***Nitrate sampling shall be increased to quarterly following any result ≥ 5 mg/L.This may be reduced to annually, if all 4 quarterly results are < MCL.

****Nitrite sampling shall be increased to quarterly following any result ≥ 0.5 mg/L. This may be reduced to annually, if all 4 quarterly results are < MCL.

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VOCs - Table 64444-A (a)			
Benzene	0.001	502.2, 524.2	4 quarters initial testing, then every year*
Carbon Tetrachloride	0.0005	502.2, 524.2	4 quarters initial testing, then every year*
1,2-Dichlorobenzene	0.6	502.2, 524.2	4 quarters initial testing, then every year*
1,4-Dichlorobenzene	0.005	502.2, 524.2	4 quarters initial testing, then every year*
1,1-Dichloroethane	0.005	502.2, 524.2	4 quarters initial testing, then every year*
1,2-Dichloroethane	0.0005	502.2, 524.2	4 quarters initial testing, then every year*
1,1-Dichloroethylene	0.006	502.2, 524.2	4 quarters initial testing, then every year*
cis-1,2-Dichloroethylene	0.006	502.2, 524.2	4 quarters initial testing, then every year*
trans-1,2-Dichloroethylene	0.01	502.2, 524.2	4 quarters initial testing, then every year*
Dichloromethane	0.005	502.2, 524.2	4 quarters initial testing, then every year*
1,2-Dichloropropane	0.005	502.2, 524.2	4 quarters initial testing, then every year*
1,3-Dichloropropene	0.0005	502.2, 524.2	4 quarters initial testing, then every year*
Ethylbenzene	0.3	502.2, 524.2	4 quarters initial testing, then every year*
Methyl-*tert*-butyl ether (MTBE)	0.013	502.2, 524.2	4 quarters initial testing, then every year*
Monochlorobenzene	0.07	502.2, 524.2	4 quarters initial testing, then every year*
Styrene	0.1	502.2, 524.2	4 quarters initial testing, then every year*
1,1,2,2-Tetrachloroethane	0.001	502.2, 524.2	4 quarters initial testing, then every year*
Tetrachloroethylene (PCE)	0.005	502.2, 524.2	4 quarters initial testing, then every year*
Toluene	0.15	502.2, 524.2	4 quarters initial testing, then every year*
1,2,4-Trichlorobenzene	0.005	502.2, 524.2	4 quarters initial testing, then every year*
1,1,1-Trichloroethane	0.200	502.2, 524.2	4 quarters initial testing, then every year*
1,1,2-Trichloroethane	0.005	502.2, 524.2	4 quarters initial testing, then every year*
Trichloroethylene (TCE)	0.005	502.2, 524.2	4 quarters initial testing, then every year*
Trichlorofluoromethane	0.15	502.2, 524.2	4 quarters initial testing, then every year*
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	502.2, 524.2	4 quarters initial testing, then every year*
Vinyl Chloride	0.0005	502.2, 524.2	4 quarters initial testing, then every year*
Xylenes (total)	1.750	502.2, 524.2	4 quarters initial testing, then every year*
SOCs - Table 64444-A (b)			
Alachlor	0.002	505, 507, 508.1, 525.2	4 quarters initial testing, then every 3 years**
Atrazine	0.001	505, 507, 508.1, 525.2	4 quarters initial testing, then every 3 years**
Bentazon	0.018		4 quarters initial testing, then every 3 years**
Benzo(a)pyrene	0.0002		4 quarters initial testing, then every 3 years**
Carbofuran	0.018		4 quarters initial testing, then every 3 years**
Chlordane	0.0001		4 quarters initial testing, then every 3 years**
2,4-D	0.07		4 quarters initial testing, then every 3 years**
Dalapon	0.2		4 quarters initial testing, then every 3 years**
Dibromochloropropane (DBCP)	0.0002	504.1, 551.1	4 quarters initial testing, then every 3 years**
Di(2-ethylhexyl)adipate	0.4		4 quarters initial testing, then every 3 years**
Di(2-ethylhexyl)phthalate	0.004		4 quarters initial testing, then every 3 years**
Dinoseb	0.007		4 quarters initial testing, then every 3 years**
Diquat	0.02		4 quarters initial testing, then every 3 years**
Endothall	0.1		4 quarters initial testing, then every 3 years**
Endrin	0.002		4 quarters initial testing, then every 3 years**
Ethylene Dibromide (EDB)	0.00005	504.1, 551.1	4 quarters initial testing, then every 3 years**
Glyphosate	0.7		4 quarters initial testing, then every 3 years**
Heptachlor	0.00001		4 quarters initial testing, then every 3 years**
Heptachlor Epoxide	0.00001		4 quarters initial testing, then every 3 years**
Hexachlorobenzene	0.001		4 quarters initial testing, then every 3 years**
Hexachlorocyclopentadiene	0.05		4 quarters initial testing, then every 3 years**
Lindane	0.0002		4 quarters initial testing, then every 3 years**
Methoxychlor	0.03		4 quarters initial testing, then every 3 years**
Molinate	0.02		4 quarters initial testing, then every 3 years**
Oxamyl	0.05		4 quarters initial testing, then every 3 years**
Pentachlorophenol	0.001		4 quarters initial testing, then every 3 years**
Picloram	0.5		4 quarters initial testing, then every 3 years**
Polychlorinated Biphenyls	0.0005		4 quarters initial testing, then every 3 years**
Simazine	0.004	505, 507, 508.1, 525.2	4 quarters initial testing, then every 3 years**
Thiobencarb	0.07		4 quarters initial testing, then every 3 years**
Toxaphene	0.003		4 quarters initial testing, then every 3 years**
2,3,7,8-TCDD (Dioxin)	0.00000003		4 quarters initial testing, then every 3 years**
2,4,5-TP (Silvex)	0.05		4 quarters initial testing, then every 3 years**
1,2,3 Trichloropropane	0.000005		4 quarters initial testing, then every 3 years**

*This frequency applies only to VOCs for which previous results have shown non detectable (ND). Following 3 years of annual monitoiring, the frequency can be reduced to once every 3 years.

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Radiological Monitoring

1. Initial Monitoring Requirements

Radioactivity - Section 64442	MCL	EPA Method	Frequency
Gross Alpha*	15 pCi/L		4 quarters initial monitoring
Total Radium*	5 pCi/L	903.0	4 quarters initial monitoring When GA RAA > 5 pCi/L**
Uranium*	20 pCi/L		4 quarters initial monitoring When GA RAA > 5 pCi/L**
Man Made Radioactivity - Section 64443			
Tritium	20000 pCi/L		Not Required
Strontium	8 pCi/L		Not Required
Gross Beta	50 pCi/L		Not Required

* If the results from the first two quarters of initial monitoring are below the detection limit for purposes of reporting (DLR), the final two quarters of initial monitoring may be waived.

** If the gross alpha (GA) activity is more than 5 pCi/L, analysis for uranium may be used to obtain the total radium activity (Gross alpha - Uranium = Total Radium). If Gross alpha - Uranium > 0, call the DWP for further instructions.
If Gross alpha - Uranium < 0, report only the Gross alpha and Uranium results. If the GA activity is more than 15 pCi/L, analysis for uranium must be performed.

2. After initial monitoring outlined above has been completed, the subsequent monitoring frequency will be based on the initial monitoring results as follows:

If Gross Alpha is	Less than 3 pCi/L	Then	Monitoring Frequency is
If Total Radium is	Less than 2 pCi/L	Then	One Sample
If Uranium* is	Less than 1 pCi/L	Then	Every Nine Years

* If the gross alpha activity is below 3 pCi/L, and the sample was not analyzed for total radium and uranium, the monitoring frequencies for total radium and uranium would be 1 sample every 9 years because at this level gross alpha particle activity can be substituted for total radium and uranium. In this case, a sample collected once every nine years and analyzed for gross alpha activity would satisfy the radiological monitoring requirements for gross alpha, total radium and uranium.

If Gross Alpha is	> 3 and < 7.5 pCi/L	Then	Monitoring Frequency is
If Total Radium is	> 2 and < 2.5 pCi/L	Then	One Sample
If Uranium* is	> 1 and < 10 pCi/L	Then	Every Six Years

* If the gross alpha activity is between 3 and 5 pCi/L, and the sample was not analyzed for total radium and uranium, the monitoring frequencies for total radium and uranium would be 1 sample every 6 years because at this level gross alpha particle activity can be substituted for total radium and uranium. In this case (gross alpha between 3 and 5 pCi/L), a sample collected once every six years and analyzed for gross alpha activity would satisfy the radiological monitoring requirements for gross alpha, total radium and uranium.
If the gross alpha activity is more than 5 pCi/L, the sample must be analyzed for total radium or uranium.

If Gross Alpha is	> 7.5 and < 15 pCi/L	Then	Monitoring Frequency is
If Total Radium is	> 2.5 and < 5 pCi/L	Then	One Sample
If Uranium* is	> 10 and < 20 pCi/L	Then	Every Three Years

* Because the gross alpha activity is more than 5 pCi/L, the sample must be analyzed for total radium or uranium.
If the gross alpha activity is more than 15 pCi/L, the sample must be analyzed for uranium.

The monitoring frequencies for gross alpha, total radium, and uranium may be different.