



2010 Selinsgrove Borough Consumer Confidence Report

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Safe Drinking Water Act

To comply with the Safe Drinking Water Act amendments, the Borough of Selinsgrove will annually issue a report on monitoring performed on its drinking water. The purpose of this report is to advance consumer's understanding of drinking water and heighten awareness of the need to protect precious water resources.

For the 2010 calendar year, no contaminants were detected at levels that exceeded federal or state standards. A few contaminants were detected in amounts well below Federal Safe Drinking Water Act Maximum Contaminant Level Goals (MCLG) set for public water systems throughout the country. The table included in this report lists all contaminants for which tests were completed and notes the levels for those detected. Their presence does not necessarily indicate that the water poses a health risk.

Some people may be more vulnerable to substances found in drinking water than that of the general population. Immuno-compromised persons such as persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly people and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The Environmental Protection Agency Center for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Drought Emergencies

In the event of any drought emergency, several measures will be taken to alleviate water demand. Each stage will be followed until an adequate balance of supply and demand has been satisfied.

Drought Phases:

Drought Watch: Voluntary reduction of water use by 5%.
Drought Warning: Voluntary reduction of water use by 10%
Drought Emergency: Mandatory water restrictions and implementation of water rationing.

Water Rationing Stages:

Stage 1—Water rationing and emergency prohibitions will be published.
Stage 2— 25% reduction by all water users.
Stage 3—Temporary service interruptions.
Stage 4—Additional service interruptions and use of water from outside sources.

A complete listing of non-essential water uses, water restrictions for residential customers, water restrictions for non-residential customers and enforcement and penalties are available for inspection at the Borough Office.

The Borough of Selinsgrove provides safe and aesthetically pleasing drinking water to its residents as well as many businesses and visitors. The Borough's water supply comes from deep water-bearing layers of rock called aquifers. As water travels through the ground and underlying rock, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or from human activity. These include: viruses and bacteria (which may come from sewer treatment plants, septic systems, livestock and wildlife), salts and metals (which can be natural or may result from storm runoff, wastewater discharges and farming) and organic chemicals (which originate from industrial processes, petroleum production, gas stations, storm runoff and septic systems). Water is removed from the aquifers by wells, is treated and stored in a fully-enclosed reservoir and standpipe.

As part of your yard work, please trim shrubs and bushes from around the water reader remote.
Please monitor your water systems, fixtures and appliances to quickly find and repair leaks.

REGULATED CONTAMINANTS

AL = Action Level						MCL = Maximum Contaminant Level
< = less than the low est concentration detectable by the laboratory						MCLG = Maximum Contaminant Level Goal
ppm = parts per million						pCi/L = picocuries per liter
ppb = parts per billion						ND = None Detected
ppt = parts per trillion						* = Treated Water
Contaminant (units)	MCL	MCLG	Selinsgrove Results	Violation	Sample Date	Typical Source of Contamination
A. Total Coliform Bacteria*	Presence of coliform bacteria in less than 5% of monthly samples	0	ND	No	6 Samples per month	Naturally present in the environment.
B. Radioactive Contaminants-Gross	15 pCi/L	N/A	1.8 (±0.6)	No	Aug-04	Erosion of natural deposits.
Radium - 228	5 pCi/L	N/A	0.2	No	Jun-03	Erosion of natural deposits.
Radon	4000 pCi/L	N/A	730	No	Aug-07	Erosion of natural deposits.
C. Inorganic Contaminants - These results are averaged from the two water source samples.						
1. Antimony (ppb)	6	6	5	No	Aug-09	Petroleum refineries, fire retardants, ceramics, electronics, solder.
2. Arsenic (ppd) (Well 1, 2, 3, & 4)	10	0	< 1.1	No	Aug-10	Erosion of natural deposits, runoff from orchards. Runoff from glass and electronics production w astes.
3. Barium (ppb)	2000	2000	89	No	Aug-09	Discharge from drilling w astes and metal refineries. Erosion of natural deposits.
4. Beryllium (ppb)	4	4	< 0.5	No	Aug-09	Discharge from metal refineries and coal burning factories. Discharge from electrical, aerospace and defense industry.
5. Cadmium (ppb)	5	5	< 0.5	No	Aug-09	Corrosion of galvanized pipes, erosion of natural deposits, runoff from waste batteries and paints, discharge from metal refineries.
6. Chromium (ppb)	100	200	< 2	No	Aug-09	Discharge from steel and pulp mills. Erosion of natural resources.
7. Mercury (ppb)	2	2	< 0.2	No	Aug-09	Runoff from cropland and landfills. Discharge from refineries and factories. Erosion of natural deposits.
8. Nickel (ppb)	100	100	1.7	No	Aug-09	Erosion of natural deposits.
9. Selenium (ppb)	50	50	< 3	No	Aug-09	Discharge from petroleum and metal refineries and mines. Erosion of natural deposits.
10. Thallium (ppb)	2	0.5	< 0.5	No	Aug-09	Leaching from ore processing sites. Discharge from electronics, glass and drug factories.
11. Cyanide (ppb)	200	200	< 10	No	Aug-09	Discharge from steel/metal factories, plastic and fertilizer factories.
12. Fluoride (ppb)	2000	2000	100	No	Aug-09	Erosion of natural deposits. Discharge from fertilizer and aluminum factories.
D. Synthetic Organic Contaminants						
1. 2,4-D (ppb)	70	70	< 0.5	No	Jun-08	Runoff from herbicide used on crops.
2. 2,4,5 (silvex) (ppb)	50	50	< 0.5	No	Jun-08	Runoff from banned herbicide.
3. Alachlor (ppb)	2	0	< 0.11	No	Jun-08	Runoff from herbicide used on crops.
4. Aldrin (ppb)	5	5	< 0.11	No	Jun-08	Residue of banned herbicide.
5. Atrazine (ppb)	3	3	< 0.11	No	Jun-08	Runoff from herbicide used on crops.
6. Carbaryl (ppm)	N/A	0	< 0.001	No	Jun-08	Runoff from pesticide use.
7. Butachlor (ppb)	50	50	< 0.12	No	Jun-08	Herbicide used to control annual grasses.
8. Chlordane (ppb)	2	0	< 0.11	No	Jun-08	Residue of banned herbicide.
9. Dicamba (ppm)	0.2	0	< 0.03	No	Jun-08	Runoff from herbicide used on crops.
10. Dalapon (ppb)	200	200	< 3	No	Jun-08	Runoff from herbicide used on right of ways.

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Contaminant (units)	MCL	MCLG	Selinsgrove Results	Violation	Sample Date	Typical Source of Contamination
11. Dieldrin (ppb)	5	5	< 0.11	No	Jun-08	Residue of banned herbicide.
12. Dinoseb (ppb)	7	7	< 0.5	No	Jun-08	Runoff from herbicide use.
13. Diquat (ppb)	20	20	< 0.0008	No	Aug-07	Runoff from herbicide use.
14. Endrin (ppb)	2	2	< 0.11	No	Aug-08	Residue of banned herbicide.
15. Glyphosate (ppb)	700	700	< 0.5	No	Aug-07	Runoff from herbicide use.
16. Heptachlor (ppt)	400	0	< 100	No	Jun-08	Residue of banned herbicide.
17. Heptachlorepoxide (ppt)	200	0	< 100	No	Jun-08	Breakdown of Heptachlor.
18. Hexachlorobenzene (ppb)	1	0	< 0.11	No	Jun-08	Discharge from metal refineries and agricultural chemical factories.
19. Methomyl (ppm)	N/A	0	<1.001	No	Jun-08	Runoff from pesticide use.
20. Metolachlor (ppb)	50	50	< 1.12	No	Jun-08	Runoff from herbicide use.
21. Metribuzin (ppb)	50	50	< 1.12	No	Jun-08	Residue from agricultural weed killers.
22. PCBS as Aroclors (ppm)	N/A	0	0	No	Jun-08	Insulating fluids in electrical equipment.
23. Pentachlorophenol (ppb)	1	0	< 0.3	No	Jun-08	Discharge from wood preserving factories.
24. Picloram (ppb)	500	500	< 0.3	No	Jun-08	Herbicide runoff.
25. Propachlor (ppb)	50	50	< 0.12	No	Jun-08	Agriculture pesticides, fertilizer, factory farms.
26. Toxaphene (ppb)	3	3	< 0.27	No	Jun-08	Runoff/leaching from insecticide.
E. Lead (ppt)*	AL = 15000	0	5 to 53	No	Aug-10	Corrosion of household plumbing systems.
F. Copper (ppb)*	AL = 1300	1300	5 to 112	No	Aug-10	Corrosion of household plumbing systems.
G. Volatile Organic Contaminants (V.O.C.s) Regulated Contaminants						
1. Aldicarb Sulfone (ppm)	0.004	0	<0.001	No	Jun-08	Runoff from pesticide use.
2. Aldicarb Sulfoxide (ppm)	0.002	0	<0.001	No	Jun-08	Runoff from pesticide use.
3. Benzene (ppb)	5	0	< 0.5	No	Aug-08	Leaching from gas storage tanks and landfills.
4. Benzo(a)pyrene (PAHs) (ppt)	200	0	< 100	No	Jun-08	Leaching from linings of water storage tanks and distribution lines.
5. Carbofuran (ppb)	40	40	< 1	No	Aug-08	Leaching of soil fumigant used on rice and
6. Carbon Tetrachloride (ppb)	5	0	< 0.5	No	Aug-08	Discharge from chemical plants and other industrial activities.
7. Chlorobenzene (ppb)	100	100	< 0.5	No	Aug-08	Discharge from chemical and agricultural chemical factories.
8. 1,2 Dibromoethane (EDB) (ppt)	50	0	< 10	No	Jun-08	From pesticide and gasoline additive.
9. 1-2 Dibromo-3-chloropropane (ppt)	200	0	< 10	No	Jun-08	Runoff/leaching from soil fumigant
10. 1-2 Dichlorobenzene (ppb)	600	600	< 0.5	No	Aug-08	Discharge from industrial chemical factories.
11. 1,4 Dichlorobenzene (ppb)	75	75	< 0.5	No	Aug-08	Discharge from industrial chemical factories.
12. 1,2 Dischloroethane (ppb)	5	0	< 0.5	No	Aug-08	Discharge from industrial chemical factories.
13. 1,1 Dischloroethene (ppb)	7	7	< 0.5	No	Sep-08	Discharge from industrial chemical factories.
14. CIS 1,2 Dichloroethene (ppb)	70	70	< 0.5	No	Sep-08	Discharge from industrial chemical factories.
15. Trans. - 1,2 Dischloroethene (ppb)	100	100	< 0.5	No	Sep-08	Discharge from industrial chemical factories.
16. Dichloromethane (ppb)	5	0	< 0.5	No	Jul-05	Discharge from pharmaceutical and chemical factories.
17. 1,2 Dichloropropane (ppb)	5	0	< 0.5	No	Aug-08	Discharge from industrial chemical factories.
18. Di(2-ethylehexyl) adipate (ppb)	400	400	< 2.13	No	Aug-08	Discharge from chemical factories.
19. Di(2-ethylhexyl) phthalate (ppb)	6	0	< 2.13	No	Aug-08	Discharge from rubber and chemical factories.
20. Endothall (ppb)	100	100	< 50	No	Aug-08	Runoff from herbicide use.
21. Ethylbenzene (ppb)	700	700	< 0.5	No	Aug-08	Discharge from petroleum refineries.
22. Ethylene dibromide (EDB) (ppt)	50	0	< 10	No	Jul-05	Discharge from petroleum refineries.
23. Hexachlorocyclopentadiene (ppb)	50	50	< 0.1	No	Jun-08	Discharge from chemical factories.
24. HCH-Gamma (Lindane) (ppm)	200	200	< 100	No	Jun-08	Runoff/leaching from insecticide used on cattle, lumber, gardens.
25. Methoxychlor (ppb)	40	40	< 0.11	No	Jun-08	Runoff/leaching from insecticide
26. Methylene Chloride (ppb)	5	0	< 1.5	No	Sep-08	Discharge from industrial chemical factories.

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27. Methyltertbutylether (ppb)	0	0	< 0.5	No	Sep-08	A contaminate from gas stations.
28. Oxamyl (Vydate) (ppb)	200	200	< 1	No	Jun-08	Runoff/leaching from insecticides
29. Simazine (ppb)	4	4	< 0.11	No	Jun-08	Herbicide runoff.
30. Styrene (ppb)	100	100	< 0.5	No	Jun-08	Discharge from rubber and plastic factories and landfills.
31. Tetrachloroethene (ppb)	5	0	< 0.5	No	Sep-08	Leaching from PVC pipes. Discharge from factories and dry cleaners.
32. 1,2,4 Trichlorobenzene (ppb)	70	70	< 0.5	No	Sep-08	Discharge from textile finishing factories.
33. 1,1,1 Trichloroethane (ppb)	200	200	< 0.5	No	Sep-08	Discharge from metal degreasing sites.
34. 1,1,2 Trichloroethane (ppb)	5	3	< 0.5	No	Sep-08	Discharge from industrial chemical factories.
35. Trichloroethylene (ppb)	5	0	< 0.5	No	Sep-08	Discharge from metal degreasing sites.
36. Total Trihalomethanes (TTHM's) (ppb)	80	N/A	< 0.5	No	Aug-09	By-product of drinking water chlorination.
37. Toulene (ppm)	1	1	< 0.5	No	Sep-08	Discharge from petroleum factories.
38. Vinyl Chloride (ppb)	2	0	< 0.5	No	Sep-08	Leaching from PVC pipes. Discharge from plastic factories.
39. Xylenes (ppm)	10	10	< 0.5	No	Sep-08	Discharge from petroleum and chemical factories.
H. 1. Nitrate (Wells 1 & 2) (PPM)	10	10	1.53	No	Aug-10	Runoff from fertilizer use; leaching from septic tanks, sew age, erosion of natural deposits.
Nitrate (Well 3) (PPM)	10	10	0.89	No	Aug-10	Runoff from fertilizer use; leaching from septic tanks, sew age, erosion of natural deposits.
Nitrate (Well 4) (PPM)	10	10	4.05	No	Aug-10	Runoff from fertilizer use; leaching from septic tanks, sew age, erosion of natural deposits.
2. Nitrite (Wells 1 & 2) (PPM)	10	10	< 3	No	Aug-10	Runoff from fertilizer use; leaching from septic tanks, sew age, erosion of natural deposits.
Nitrite (Well 3) (PPM)	10	10	< 3	No	Aug-10	Runoff from fertilizer use; leaching from septic tanks, sew age, erosion of natural deposits.
Nitrite (Well 4) (PPM)	10	10	< 3	No	Aug-10	Runoff from fertilizer use; leaching from septic tanks, sew age, erosion of natural deposits.
I. Trihalomethanes						
1. Chloroform (ppb)	80	N/A	< 0.5	No	Aug-09	By-product of disinfectant addition.
2. Bromodichloromethane (ppb)	80	N/A	< 0.5	No	Aug-09	By-product of disinfectant addition.
3. Bromoform (ppb)	80	N/A	0.5	No	Aug-09	By-product of disinfectant addition.
4. Dibromochloromethane (ppb)	80	N/A	0.5	No	Aug-09	By-product of disinfectant addition.
J. Haloacetic Acids (HAA)						
1. Dibromoacetic Acid (ppb)	60	N/A	< 1	No	Aug-09	By-product of disinfectant addition.
2. Dichloroacetic Acid (ppb)	60	N/A	< 3	No	Aug-09	By-product of disinfectant addition.
3. Monobromoacetic Acid (ppb)	60	N/A	< 1	No	Aug-09	By-product of disinfectant addition.
4. Monochloroacetic Acid (ppb)	60	N/A	< 2	No	Aug-09	By-product of disinfectant addition.
5. Total HAA's (ppb)	60	N/A	< 1	No	Aug-09	By-product of disinfectant addition.
6. Trichloroacetic Acid (ppb)	60	N/A	< 1	No	Aug-09	By-product of disinfectant addition.



Chlorine Levels— Routinely maintained between 0.4 and 0.9 ppm
 Fluoride Levels—Routinely maintained between 0.7 and 0.9 ppm
 Hardness—10 grains per gallon
 Ph—7.12

Selinsgrove Borough bills quarterly for water, sewer and recycling services. Bills are mailed the 20th of the month following the end of the quarter (example - quarter ends June 30, bills are sent July 20).

Each customer has a water meter in their home, most have remotes which allow for reading meters from outside. The sewer charge is based on water consumption. If you use 10,000 gallons of water, then you are billed for 10,000 gallons of sewer. Recycling is a quarterly \$10.00 charge. Anyone not paying their bill within 30 days, is charged a 25% penalty.

Residents should take the opportunity to locate their water meter in their basement. You can check your consumption weekly or monthly. Any additional information can be obtained at the Borough Office.