



Water-Data Report 2009

05383822 SPRING VALLEY CREEK BELOW WASTEWATER TREATMENT PLANT NEAR SPRING VALLEY, MN

Upper Mississippi-Black-Root Basin
Root Subbasin

LOCATION.--Lat 43°41'21.9", long 92°22'46.9" referenced to North American Datum of 1983, Fillmore County, MN, Hydrologic Unit 07040008.

WATER-QUALITY RECORDS

REMARKS.--The U.S. Geological Survey and the Minnesota Pollution Control Agency in collaboration with St. Cloud State University and the University of St. Thomas collaborated on this study to measure the concentrations of endocrine active chemicals (EACs) and pharmaceuticals in water samples collected from the effluents from wastewater treatment plants and at sites upstream and downstream of effluent discharge in Minnesota during 2009-2011.

COOPERATION.--Minnesota Pollution Control Agency, St. Cloud State University, University of St. Thomas.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 4

[Remark codes: <, less than; E, estimated.]

Date	Time	Medium name	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf lab, µS/cm @ 25 degC (90095)	Specif- ic conduc- tance, wat unf µS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)
Sep 21...	1020	Surface water	728	17.6	8.6	7.7	384	694	14.4	1.4

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 4

[Remark codes: <, less than; E, estimated.]

Date	Number of sam- pling points, count (00063)	Sampler type, code (84164)	Chlor- ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)
Sep 21...	10	Grab sample	40.1	26.7	.29	.38	<.020	9.99	.041	.626	.639

05383822 SPRING VALLEY CREEK BELOW WASTEWATER TREATMENT PLANT NEAR SPRING VALLEY, MN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 4

[Remark codes: <, less than; E, estimated.]

Date	Phos- phorus, water, unfltrd mg/L as P (00665)	Thiaben dazole, water, fltrd, µg/L (62801)	1,7-Di- methyl- Xan- thine, water, fltrd, µg/L (62030)	Acet- amino- phen, water, fltrd, µg/L (62000)	Albut- erol, water, fltrd, µg/L (62020)	Caf- feine, water, fltrd, µg/L (50305)	Carbam- azepine water, fltrd, µg/L (62793)	Codeine water, fltrd, µg/L (62003)	Cot- inine, water, fltrd, µg/L (62005)	De- hydro- nife- dipine, water, fltrd, µg/L (62004)	Diltia- zem, water, fltrd, µg/L (62008)	Diphen- hydra- mine, water, fltrd, µg/L (62796)	Sulfa- methox- azole, water, fltrd, µg/L (62021)
Sep 21...	.648	<.060	<.120	<.080	<.060	<.200	.073	<.040	<.026	<.080	<.080	<.040	E.022

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO
SEPTEMBER 2009

Part 4 of 4

[Remark codes: <, less than; E, estimated.]

Date	Tri- meth- oprim, water, fltrd, µg/L (62023)	Warfar- in, water, fltrd, µg/L (62024)	Sus- pended sedi- ment concen- tration mg/L (80154)
Sep 21...	<.020	<.100	1