



Water-Data Report 2006

**05378490 MISSISSIPPI RIVER AT LOCK AND DAM 5A NR WINONA, MN**

Upper Mississippi Basin  
Buffalo-Whitewater Subbasin

LOCATION.--Lat 44°05'11", long 91°40'06" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.9, T.107 N., R.7 W., Winona County, MN, Hydrologic Unit 07040003, at downstream end of pier in tailwater gage house at Lock and Dam 5A.

**WATER-QUALITY RECORDS**

REMARKS.--The Mississippi River Longitudinal Study is an integrated chemical and biological investigation of stream-bed sediment and multiple fish species at approximately 41 sites along the Mississippi River from Bemidji, Minn. to Winona, Wisc. during June and July, 2006. The objective of this integrated chemical and biological study is to determine concentrations of selected compounds in stream-bed sediment. Stream-bed sediment samples were collected and analyzed using established USGS techniques.

COOPERATION.--Minnesota Pollution Control Agency; St. Cloud State University; USGS National Research Program.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 5

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Sample type	1,4-Di-chloro-benzene solids, ug/kg (63163)	1-Methyl-naphth-alene, solids, ug/kg (63165)	2,6-Di-methyl-naphth-alene, solids, ug/kg (63167)	2-Methyl-naphth-alene, solids, ug/kg (63168)	3-beta-Copros-tanol, solids, ug/kg (63170)	3-Methyl-1H-indole, solids, ug/kg (63171)	3-tert-Butyl-4-hy-droxy-anisole, solids, ug/kg (63172)	4-Cumyl-phenol, solids, ug/kg (63173)	4-n-Octyl-phenol, solids, ug/kg (63174)	4-Nonyl-phenol, solids, ug/kg (63175)
Jul 19...	1020	Bed material	<35	<40	<40	<40	<350	M	<100	<40	<40	<520

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 5

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	4-tert-Octyl-phenol, solids, ug/kg (63176)	9,10-Anthra-quinone, solids, ug/kg (63181)	Aceto-phenone, solids, ug/kg (63178)	Acetyl hexaMe tetraH naphth-alene, solids, ug/kg (63179)	Anthra-cene, solids, ug/kg (63180)	Atra-zine, solids, ug/kg (63182)	BDE congenr 47, solids, ug/kg (63166)	Benzo-[a]-pyrene, solids, ug/kg (63183)	Benzo-phenone, solids, ug/kg (63184)	beta-Sito-sterol, solids, ug/kg (63185)	beta-Stigma-sterol, solids, ug/kg (63186)	Bis(2-ethyl-hexyl) phthal-ate, solids, ug/kg (63187)	A-d3, surrog, Sch WCS, pct rcv (90735)
Jul 19...	<40	<35	<100	<40	<40	<70	<35.0	<40	<40	E880	E190	<180	91

## 05378490 MISSISSIPPI RIVER AT LOCK AND DAM 5A NR WINONA, MN —Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 3 of 5

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Brom- acil, solids, ug/kg (63189)	Camphor solids, ug/kg (63192)	Car- bazole, solids, ug/kg (63194)	Chlor- pyrifos solids, ug/kg (63195)	Chol- esterol solids, ug/kg (63196)	Deca- fluoro- bi- phenyl, surrog, Sch WCS pct rcv (90737)	DEET, solids, ug/kg (63219)	Di- azinon, solids, ug/kg (63198)	Di- ethoxy- nonyl- phenol, solids, ug/kg (63200)	Di- ethoxy- octyl- phenol, solids, ug/kg (63201)	Di- ethyl phthal- ate, solids, ug/kg (63202)	D-Li- monene, solids, ug/kg (63203)	Ethoxy- octyl- phenol, solids, ug/kg (63206)
Jul 19...	<350	<40	<40	<40	E830	29	<70	<40	<700	<40	<70	<40	<180

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 4 of 5

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Fluoran thene, solids, ug/kg (63208)	Fluor- an- thene- d10, surrog, Sch WCS pct rcv (90738)	HHCB, solids, ug/kg (63209)	Indole, solids, ug/kg (63210)	Iso- borneol solids, ug/kg (63211)	iso- phorone solids, ug/kg (63212)	Iso- propyl- benzene solids, ug/kg (63213)	Isoquin oline, solids, ug/kg (63214)	Menthol solids, ug/kg (63215)	Metola- chlor, solids, ug/kg (63218)	Mono- ethoxy- nonyl- phenol, solids, ug/kg (63221)	Naphth- alene, solids, ug/kg (63220)	p- Cresol, solids, ug/kg (63222)
Jul 19...	<40	87	<40	100	<40	<40	<70	<70	<40	<40	E90	<40	E140

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 5 of 5

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Phenan- threne, solids, ug/kg (63224)	Phenol, solids, ug/kg (63225)	Pro- meton, solids, ug/kg (63226)	Pyrene, solids, ug/kg (63227)	Tributy phos- phate, solids, ug/kg (63231)	Tri- closan, solids, ug/kg (63232)	Tri- phenyl phos- phate, solids, ug/kg (63234)	Tris(2- butoxy- ethyl) phos- phate, solids, ug/kg (63229)	Tris(2- chloro- ethyl) phos- phate, solids, ug/kg (63230)	Tris- (diCl- i-Pr) phos- phate, solids, ug/kg (63235)	Data base number
Jul 19...	<40	E50	<40	<40	<40	<35.0	<40	<100	<70	<70	01