

Water Quality Issues Devils Lake

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Water Quality in Devils Lake

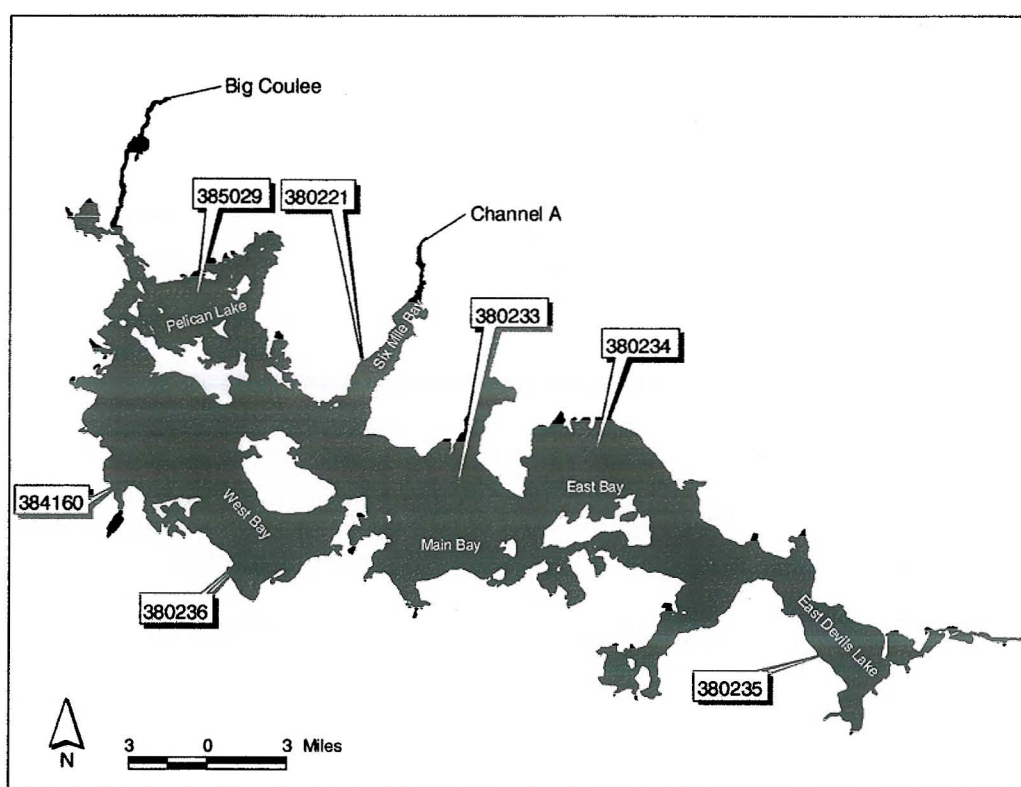
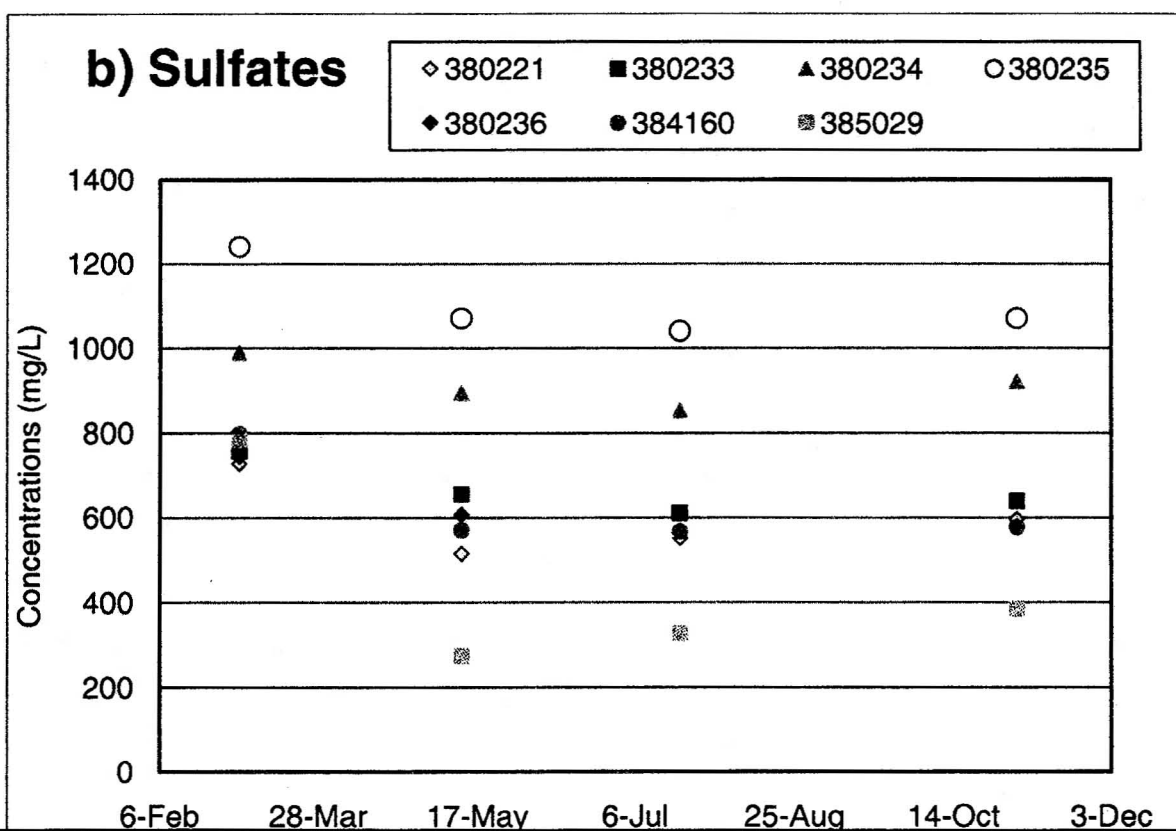
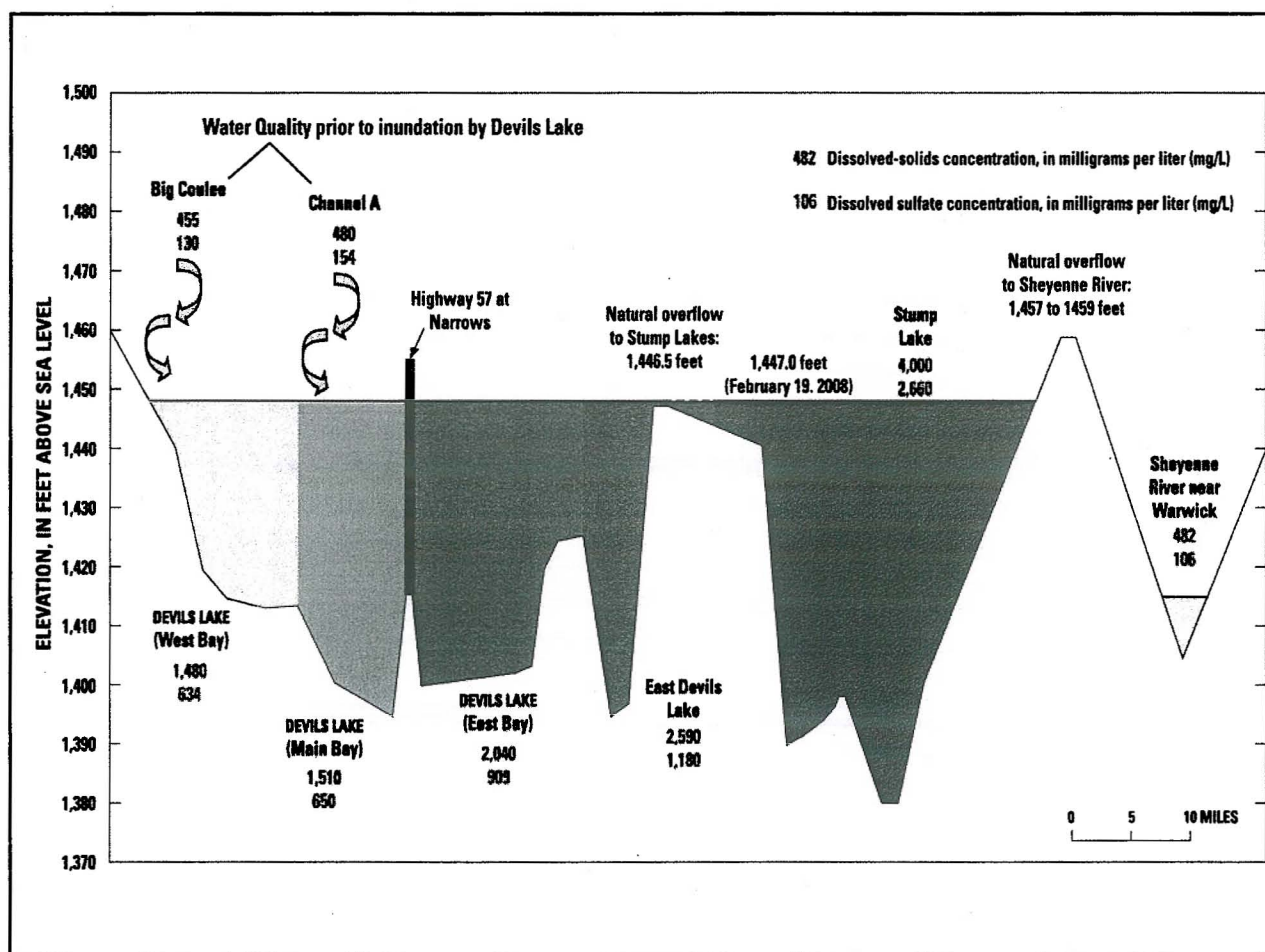
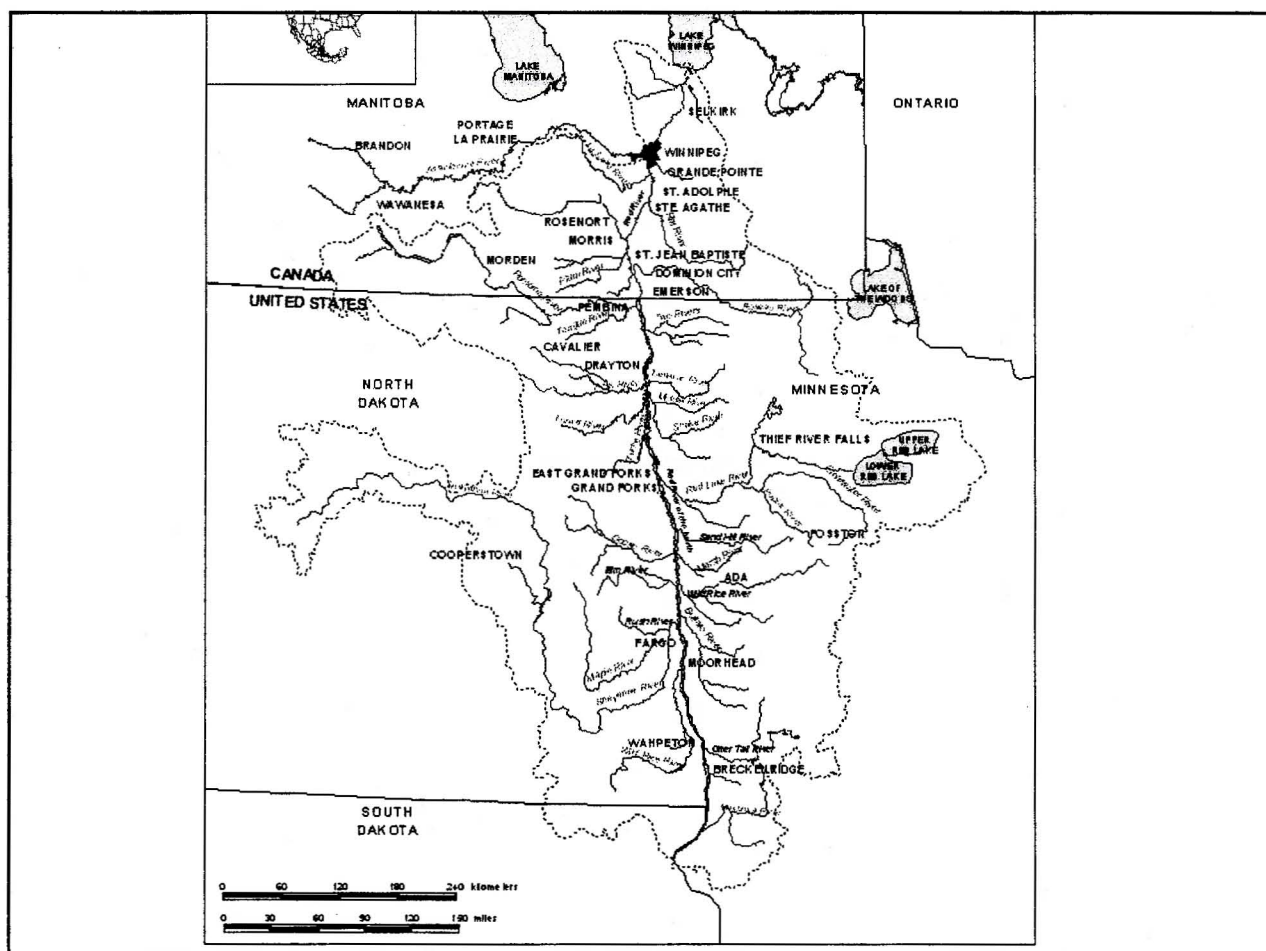


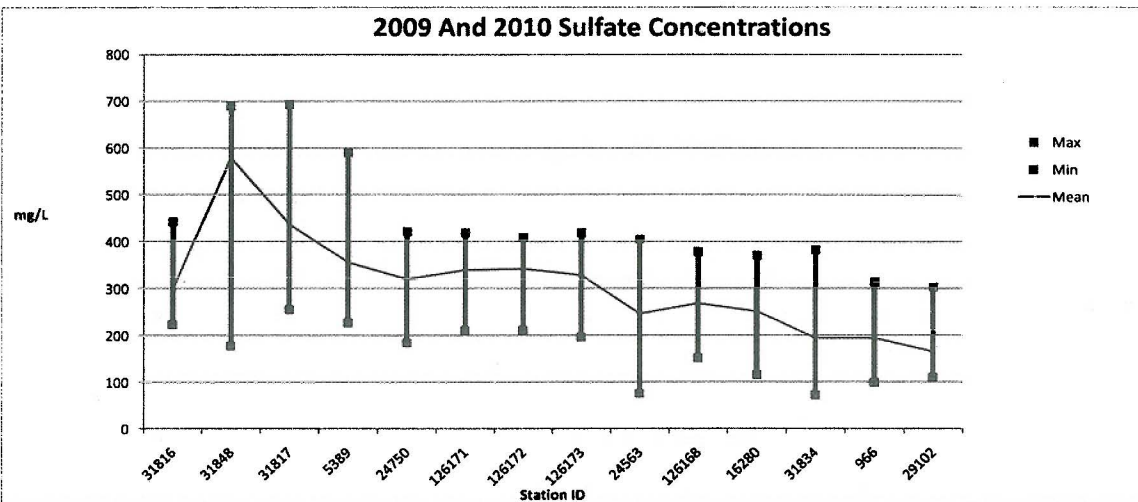
Figure 4. Devils Lake Sample Site Locations





Sheyenne River Water Quality





StationID	Description	Max	Min	Mean	# Of Samples	LastCollectionDate	LastResult
31816	Sheyenne River Near Flora	442	222	296.85	165	02-Jun-10	299
31848	Devils Lake State Outlet	689	177	578.85	118	26-May-10	631
31817	Sheyenne River Near Bremen	693	254	436.44	170	02-Jun-10	312
5389	Sheyenne River Near Warwick	590	226	355.16	44	02-Jun-10	305
24750	Sheyenne River Near Cooperstown	421	183	319.74	42	02-Jun-10	291
126171	Lake Ashtabula East Of Hannaford	419	209	338.82	56	25-May-10	218
126172	Lake Ashtabula At Sibley Crossing Bridge	409	210	341.62	60	02-Jun-10	251
126173	Lake Ashtabula Downstream Location At Ashtabula Crossing	419	196	328.11	61	02-Jun-10	215
24563	Sheyenne River Below Baldhill Dam	405	74.8	246.50	45	02-Jun-10	215
126168	City Of Valley City Intake	379	151	268.90	30	01-Jun-10	238
16280	Sheyenne River Near Horace	371	115	251.60	42	02-Jun-10	231
31834	Red River Near Harwood	383	71.8	193.77	30	25-May-10	297
966	Red River Near Halstad Mn	314	98.3	193.74	30	25-May-10	296
29102	Red River At Pembina	303	109	165.00	30	25-May-10	243

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Clean Water Act

- Protect Beneficial and Designated Uses
 - Municipal
 - Agricultural
 - Industrial
 - Aquatic Life
 - Recreational
- Identify Standards- Classifications
 - Utilize Best Available Science
 - Site Specific
- Permitting Programs
 - Appropriate Controls
 - Assimilative Capacity
 - Discharge Limitations

Sulfate

- Class IA
 - Sulfate: 450 mg/l All designated uses including Municipal Use
 - Sheyenne River – Headwaters to Baldhill Dam
750 mg/l All designated uses except Municipal Use
 - High Sulfate Concentrations similar to those found in Stump Lake can impact all designated uses

Water Quality Standards Sheyenne and Red Rivers

- Sheyenne River
 - Head Waters to Baldhill Dam
 - 750 mg/l sulfate
 - Baldhill Dam to Red River
 - 450 mg/l
- Red River (ND and Minnesota Standard)
 - 250 mg/l
- Canadian Border Objective
 - 250 mg/l

Other Water Quality Issues

- Stump Lake
 - Trace Metal (i.e. arsenic)
 - Chloride