

Baptism River nr Beaver Bay**STATION ID: H01-092-001****USGS ID: 04014500****EQUIS ID: S000-250****NWS ID: BAPM5****LOCATION:**

Lat:	47°20'15.9"N	UTMX:	635974.8	Township:	Illgen City				
Long:	91°12'0.2"W	UTMY:	5244268.1	PLS:	TWP	RNG	SEC	Q	QQ
					56	7W	15	NE	SE

County: Lake**USGS Quad:** I25c Illgen City**Drainage area:** 88,525 acres

Driving directions: From Two Harbors, MN travel approximately 32 miles north on MN-61 to the Tettegouche State Park Visitor Center on the east, right hand side of MN-61. Follow the park road south over Baptism River and park under the MN-61 bridge.

PLEASE STOP AT PARK OFFICE TO NOTIFY THEM THAT YOU ARE THERE.

History: New equipment installed on 08/18/08 by MN DNR. Site is old USGS gaging station 04014500. DNR Fisheries Water Temperature site also: Fisheries Area: F215; Kittle No: S-038

Cooperation: Minnesota Department of Natural Resources, Minnesota Pollution Control Agency.

GAGE: Design Analysis H-350XL Pressure Transducer and H-355 Gas Purge System are housed in a 2' x 1.5' x 6' Hoffman look-in type shelter. The equipment is powered by a 12V deep cycle marine battery charged by a 1.2-amp solar panel through a Sun saver power regulator. Solar panel is attached to side of shelter on a 10' mast. Data collected at 15-minute intervals and transmitted via Goes satellite at 1-hour intervals.

Goes ID:	D55076A0	Random Channel:	119
Primary Channel:	95	Azimuth:	156
Transmit Time (GMT):	00:58:25	Elevation:	32

CHANNEL AND CONTROL: Channel is pure bedrock at logger location and control. Control is a solid rock riffle. PZF = 9.08 ft, assumed datum.

DISCHARGE MEASUREMENTS:

Low to Mod flow: Wading ~175ft US of gage OR wading at Hwy 1 bridge OR ADCP at mouth (usually poor).

High flow: Crane off DS side of park bridge.

Winter flow: ~200ft US of gage, watch ice conditions.

REFERENCE MARKS:

B.M. 1 (BASE): Bronze disk in large boulder approx. 10 ft riverward of gage house.

Elevation: 22.87 ft assumed datum (USGS elevation = 12.87 ft)

B.M. 2: USGS Disc in DS end concrete retaining wall at gage.

Elevation: 17.78 ft assumed datum (USGS elevation = 7.74 ft)

R.M. 1: Staff gage installed 08/15/08 by DNR. ~~Zero on the DNR staff gage is equal to 8.96 ft when tied in to BM1 using the 22.87 ft reference elevation.~~ New staff gage installed & datum reset by +8.96 feet on 07/30/09. Staff gage now reads correct assumed datum elevation [USGS datum + 10.00 feet]. Direct staff gage reading.

Primary Reference: R.M. 1 (Direct staff gage reading)