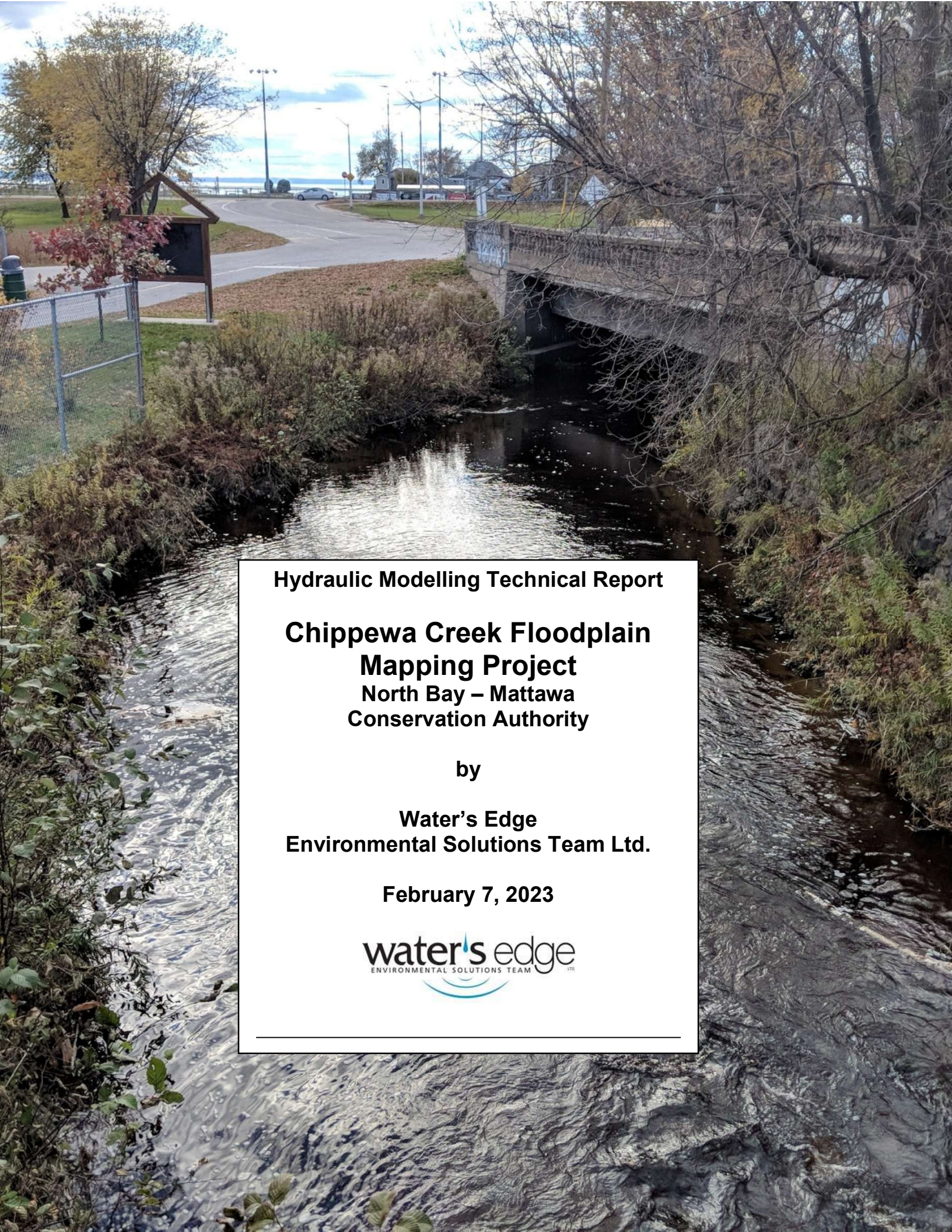




Hydraulic Modelling Technical Report

**Chippewa Creek Floodplain
Mapping Project
North Bay – Mattawa
Conservation Authority**

by

**Water's Edge
Environmental Solutions Team Ltd.**

February 7, 2023



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February 7, 2023
WE 18045

Mr. David Ellingwood,
Supervisor, Source Water Protection
North Bay-Mattawa Conservation Authority
15 Janey Ave.
North Bay, Ontario
P1C 1N1

Dear Mr. Ellingwood:

RE: Chippewa Creek Hydrologic Modelling, North Bay-Mattawa Conservation Authority

1. INTRODUCTION

Water's Edge was authorized by the North Bay-Mattawa Conservation Authority to develop a hydraulic model of Chippewa Creek, Johnson Creek, and Eastview Creek in the urban areas of North Bay following current design standards. HEC-RAS version 5.0.7 was used to develop the models. 2D modelling was used to quantify and delineate spills. The flows used in the models were determined from the previous HEC-HMS modelling exercise. The SCS Type II 6-hour storm produced peak flows that most closely matched the expected return period flows at the Fisher St. gauge. The purpose of the hydraulic model is to determine the water surface elevations and velocities corresponding to the flow rates produced in the hydrologic model. The results of this modelling exercise will determine the elevations that will be used for mapping the return period flows.

This report includes background information of the watershed, methodology for developing the models, followed by a summary of the results.

2. BACKGROUND REVIEW

We have completed our assessment of the creek in accordance with the approved project Terms of Reference. Data sources for the analysis include:

- Background Information
 - Reports and Geospatial data from NBMCA;
- Physiography of Southern Ontario by Chapman & Putnam (digital data from Ministry of Northern Development and Mines (MNDM));
- Ontario Flow Assessment Tool (OFAT);
- Ontario Base Mapping (OBM); and,
- Discussions with NBMCA staff.

The Chippewa Creek Watershed is the largest watershed in the City of North Bay, with headwaters just south of Cooks Mills, draining over the Laurentian Escarpment and through the urbanized section of North Bay before flowing into Lake Nipissing. The watershed is 39.8 km² according to the delineation in HEC-GeoHMS.

The main channel is about 21 km long with an average slope of 0.79 %. Floodplain mapping will be conducted for all of Eastview Creek, Johnson Creek downstream of Carmichael Dr., and in Chippewa Creek from just west of the golf course to Lake Nipissing. The watershed is shown in Error! Reference source not found.. The upstream sections of Chippewa Creek and Johnson Creek are quite steep as they flow over the Laurentian Escarpment and contain largely forest in the floodplains north of the urban areas of North Bay. The size and nature of the floodplains varies significantly within the urban areas, with the oldest developments in the City significantly encroaching on floodplains and riparian areas. These issues contributed to historical flooding on the creek and creates the need for increasing river conveyance or reduced runoff if property damage is to be avoided. The modelled reaches are shown in **Map 1**, attached.

2.1 Historical Flooding

Chippewa Creek has experienced several large-scale floods in its history. A 1982 study titled "Historical Flooding of Chippewa Creek" examined historical flood from the perspective of property damage, starting well before flow gauges were installed. The first notable flood in that study was in June 1912 and was ranked as a five out of five severity. Five out of five severity events have occurred eight times in North Bay, all of which occurred before flow gauges were installed. The most severe event occurred in April 1937, which was ranked 5+ and resulted in every bridge on Chippewa Creek being over-topped and an area bounded by Ferguson, Wyld, Second and Fifth Streets were under water. Hurricane Hazel hit North Bay in 1954 and Hurricane Audrey hit in 1957, both leading to large flood events. Hurricane Audrey was noted to have flooded 50 homes and was classified as the 100-year flood in the 1985 "Flood and Erosion Control Study Phase II" (Northland Engineering, 1985). Most of the other large flood events can be attributed to rainfall events coinciding with the spring freshet or saturated antecedent moisture conditions that led to increased runoff from storms that would otherwise not have been likely to cause flooding.

As discussed in the hydrology technical report in more detail, the lack of large events during the flow gauge period of record skewed the results of the frequency analysis to underestimate return period flows. Regional flood frequency analysis was conducted to determine an alternate estimate of return period flows that was not influenced by the flow gauge record. The results of the regional analysis produced return period flow estimates that were much closer to the observed flows than the single station flood frequency analysis.

2.2 Previous Hydraulic Modelling Efforts

A previous floodplain mapping project was completed by Northland Engineering in 1985 as a part of the Chippewa Creek Flood and Erosion Control Study Phase II. The hydraulic modelling component was completed using HEC-2. The model used the peak flows determined from the hydrologic analysis for steady flow analysis.

The modelling extents did not extend beyond the urban areas of the City, so the modelled reaches of Chippewa and Johnson Creek are moderately shorter than from the present model. The previous report identified multiple spills outside of the watershed as well as a spill between Johnson and Eastview Creek. No calibration or validation were conducted due to the lack of water surface elevation (WSEL) data. The delineation of spills was completed in the 1985 study on Chippewa Creek downstream of the Ottawa Valley Railway (OVR), and on Johnson Creek from Delaney Lake to Circle Lake.

3. METHODOLOGY

3.1 Input Data

HEC-RAS models were developed to determine the WSELs within the study areas of Chippewa Creek. The data needed to create an accurate model includes channel geometry, structure geometry (i.e. bridges and culverts), design flow rates, Manning's roughness coefficients for the main channel and floodplains, expansion and contraction coefficients, and the boundary conditions.

3.1.1 Geometry and Structures

The same DEM that was the basis of the hydrologic model was also used as the basis for hydraulic modelling, without additional preprocessing and hydrologic correction. The DEM was converted to a Triangular Irregular Network (TIN) in ArcMap for use with HEC-GeoRAS. The TIN was created such that the elevation at any point within each triangular face is within 10 cm of the elevation value of the DEM at the same point. This step serves to smooth the geometry and eliminate the steps between DEM cells. The TIN will provide better estimates of channel perimeter than a DEM.

As discussed in the hydrologic modelling report, low-flow channel survey data was not implemented into the DEM due to the margin of error of the LiDAR data being greater than the depth of flow in much of the watershed. The effects of not including the low-flow channel will be minor, especially during high flows, as the flood flows will be 1-2 orders of magnitude greater than the low flow. Therefore, the cross-sectional area and wetted perimeter will only be slightly underestimated in the model. HEC-GeoRAS was used to define stream reaches and cross-sections. The cross-section widths varied throughout the study reaches in order to capture higher elevations at each end that would not be inundated. Downstream of the OVR railway on Chippewa Creek, the large low-lying areas extended several kilometers and across multiple watersheds, so it was not practical to extend the cross-sections. Similar issues were identified near Delaney and Circle Lakes.

For each structure in the provided models, expansion and contraction reaches were included to the energy losses associated with flow entering and exiting a structure. The contraction and expansion coefficients used for crossings were 0.3 and 0.5, respectively, and for all other cross-sections 0.1 and 0.3 were used. These values were recommended in the HEC-RAS Hydraulic Reference manual for typical bridge sections with subcritical flow (U.S. Army Corps of Engineering, 2018). The expansion and contraction reach lengths were determined by comparing the bankfull width of the channel to the bridge opening size, following the guidelines in the HEC-RAS manual.

The structure geometry was conducted by Water's Edge in November 2018. 30 structures were surveyed on Chippewa Creek, 6 were surveyed on Eastview Creek, and 10 were surveyed on Johnson Creek. One additional structure was identified from the LiDAR data after the survey was completed on Johnson Creek just east of Janey Ave. connecting to a new development. The design report was consulted to determine the culvert geometry that was used in the model.

The structure survey sheets for each of the structures in the reaches where hydraulic modelling were performed are included in **APPENDIX D**.

3.1.2 Reservoir Routing

Reservoir Routing was used in locations where significant backwatering and storage was present. An elevation-storage relationship was developed for each site based on the Digital Terrain Model (DTM). An elevation-discharge was developed in HEC-RAS by running a series of incremental flows through the 1D model at each location. The peak flow of the 6-hour SCS storm was used to determine the water surface elevation and storage volume for each site. Three storage areas were initially identified for reservoir routing: Johnson Creek at the Northgate Shopping Centre upstream of Highway 11 & 17, on Johnson Creek upstream of the Ontario Northland Railway at Delaney Lake, and on Johnson Creek upstream of Trout Lake Road. For the Delaney Lake and Trout Lake Road locations, it was determined that the reservoir levels would result in a significant spill, so to determine the true extent of the backwater inundation and spill, 2D modelling was used. A small spill was also present at the Northgate Shopping Centre during the 100-year storm, although it flows over Highway 11 & 17 and rejoins the channel downstream of the crossing. Since the flow depths over the crossing were shallow and no flow left the watershed, the reservoir routing results were implemented into the floodplain delineation. The stage-discharge relationship for the Northgate Shopping Centre is shown in **Table 1**.

Table 1: Northgate Mall Stage-Discharge Relationship

Return Period	Outflow (m ³ /s)	Level (m)
2y	5.09	204.0401
5y	6.93	204.4108
10y	8.21	204.6809
25y	9.62	204.99
50y	10.39	205.1639
100y	11.15	205.3392
Timmins	29.69	

3.1.3 Flow Rates

Flow rates were determined from the hydrologic model developed in HEC-HMS. Design storms were selected by comparing the expected return period flow and model peak flows at the flow gauging site. The storm that produced the most reasonable peak flow was then used to define the flows at other locations within the study reaches. The 6-hour SCS storm was determined to provide the best estimates of peak flows and was used for hydraulic modelling. Flow rates for all return period storms are shown in **APPENDIX A**.

3.1.4 Manning's Roughness Coefficient

Manning's roughness coefficients will vary based on flood stage and season. Therefore, the values were selected to represent typical summer conditions. The initial estimate of Manning's roughness coefficients were selected from Open Channel Hydraulics (Chow, 1959). The values were adjusted during calibration to better match the observed water surface elevations at the gauge.

3.1.5 Expansion and Contraction Coefficients

Expansion and contraction coefficients are used to calculate the energy losses caused by changes in geometry between cross-sections and at structures. The coefficients are higher when the transition is more abrupt, such as at crossings. The values listed in the HEC-RAS user's manual were used for modelling. All cross-sections not at a structure were assigned a contraction coefficient of 0.1 and an expansion coefficient of 0.3. For cross-sections immediately upstream or downstream of a structure, the assigned contraction coefficient was 0.3 and the assigned expansion coefficient was 0.5. The use of expansion and contraction reaches (i.e. two cross-sections up- and downstream of structures) ensures that gradual transitions are present as the flow narrows approaching a structure and expands after one. The cross-sections immediately adjacent to the structures typically have more abrupt transitions as the flow is constrained by a culvert or bridge piers.

3.1.6 Boundary Conditions

The upstream and downstream boundary conditions are critical for developing a hydraulic model. The downstream boundary condition is an important parameter as it impacts the extent of the backwater effects in the lower reaches of the creek. The Lake Nipissing water surface elevation is controlled by the French River dams operated by Public Services and Procurement Canada. A level gauge is present in Lake Nipissing (02DD006) and was used to conduct frequency analysis on the lake level to determine return period water surface elevations. Since the gauge used an arbitrary datum, it was correlated to an absolute datum by comparing the elevation of an edge-of-water survey point with the level gauge reading at the same time, therefore all water surface elevations use the CGVD2013 datum. The result of the frequency analysis is shown in **Table 2**. The regression used to determine the return period lake levels is shown in **APPENDIX B**.

Table 2: Lake Nipissing Return Period Water Surface Elevations

Return Period	Water Surface Elevation
1	195.8068
2	195.98
5	196.209
10	196.3822
20	196.5554
50	196.7844
100	196.9576

Using the 100-year creek flow combined with the 100-year lake level is very conservative and unlikely to occur because the watersheds of the Chippewa Creek and Lake Nipissing cover very different geographic and hydrologic areas. According to the MNRF, when the high-water conditions of the watershed and the receiving body are generated by independent flood events, the WSELs should be modelled as the higher of:

- i) The 2-year return period flow combined with the 100-year return period WSEL of the receiving body, or;
- ii) The 100-year return period flow combined with the 2-year return period WSEL of the receiving body.

For the other return period flows, the 2-year WSEL was used.

Several options exist for the upstream boundary conditions, based on the flow regime or a constant WSEL. The normal depth was calculated and used as the upstream boundary condition for each creek based on the slope of the channel in the reach immediately upstream.

3.1.7 Ineffective Flow Areas

Many ineffective flow areas were present in the model. They were primarily used immediately upstream and downstream of hydraulic structures so expansion and contraction losses could be accurately modelled. Additionally, some ineffective flow areas were used where a depression was present, but flow from the main channel would not fill the depression until the water level reached a certain level, such as an elevated piece of land separating the main channel from the depression. Using ineffective flow areas rather than levees is a more conservative approach for delineating floodplains that are separated from the main channel. A levee will prevent any inundation from occurring outside of the main channel, while ineffective flow areas allow ponding to occur outside of the channel, but the flow is constrained to the main channel. It is possible that inundation in overbank areas can be connected to the main channel in one cross-section, but is disconnected in another, but using a levee would force the overbank inundation back into the main channel, while an ineffective area would allow it to remain. Post-processing also allows for evaluation of results, and overbank inundation areas can be removed from the floodplain mapping if they are entirely disconnected from the main channel.

3.2 Model Calibration

To calibrate a hydraulic model, observed WSEL are needed. The flow gauge at Fisher St. included both level and flow data and could be used for calibration of both the hydrologic and hydraulic models. Officially, the gauge only recorded flow, but like the Lake Nipissing gauge, it contained elevation data relative to an arbitrary datum. An edge-of-water survey point correlated to a level reading yielded absolute elevations with the same datum as all other analyses. The raw water level

from the gauge plus 188.455 m resulted in the CGVD2013 water surface elevations. The latitude and longitude for the gauge provided by Environment Canada indicated that the gauge was located in the middle of Fisher St. outside of the creek, so it was assumed that the location described in the 1985 Northland Engineering report was accurate. That report described the gauge as being upstream of Fisher St., so observed WSELs were compared to modelled WSELs at the closest upstream cross-section that did not contain ineffective flow areas for crossings, station 1860.1 m.

The six storms used for verification in the hydrologic model were also used for calibration of the hydraulic model. Several of the same calibration issues arose, such as the WSELs being too high for some storms and too low for others. To determine a reasonable adjustment factor for Manning's n that would be applied to the design storms, adjustment factors were applied to Manning's n and the average WSEL across the six storms was determined and compared to the average observed WSELs. An adjustment factor of 1.18 yielded an average model WSEL that closely matched the observed average WSEL.

There are limitations associated with this method that should also be considered. Under extreme flows, the effect of Manning's n on the WSEL is reduced as the roughness elements have less impact on the overall flow. Since the only calibration events have relatively short return periods, Manning's n will have a greater influence on the overall flow, and the determined adjustment factor will likely overestimate the actual roughness factor leading to slower velocities and slightly higher peak WSELs.

Additionally, the assumed location of the level gauge could be incorrect leading to false confidence in the calibration results, although this appears unlikely as the modelled WSELs are closest to the observed levels at the selected cross-section.

The HEC-RAS result tables for the final calibration run is included in **APPENDIX E**.

3.3 Sensitivity Analysis

A sensitivity analysis is used to determine the effect that parameters have on the model results. In a hydraulic model, Manning's n is the primary parameter that can be adjusted. To determine the impact, the parameter is adjusted by multiple factors the results are plotted to determine the relationship between the parameter adjustment factors and the model outputs. The Chippewa Creek model was run with Manning's n values of 0.9, 1, 1.1, and 1.2 times the initial estimates. The sensitivity analysis was conducted in conjunction with the model calibration to provide the best estimates for the Manning's n adjustment factor.

Each of the six calibration/verification storms were used in the sensitivity analysis to show the impacts of changing Manning's n at different flood magnitudes. The storm selected for the sensitivity analysis has no impact on the results of the model and is only used to identify the most sensitive parameters for model calibration. A summary of sensitivity analysis results is shown in **Table 3**. The results are also shown graphically in **Figure 1**. The slope of each line in the graph represents the influence that Manning's n has on the water surface elevations at the gauge site. The impact of the changes in Manning's roughness coefficient were as expected, with the water surface elevation increasing with a higher Manning's n . Changes to Manning's n had a greater impact on larger storms due to the larger wetted perimeters and lower average depths as flows extended into the floodplains.

Table 3: Sensitivity Analysis Summary Table

Event	WSELs (m)	Manning's n Adjustment factor			
	Observed	0.9	1	1.1	1.2
25-Jul-77	202.767	203.21	203.39	203.57	203.75
15-Sep-78	202.874	202.6	202.7	202.97	203.11
29-Jul-86	202.826	202.73	203.01	203.18	203.33
10-Jun-89	203.197	202.35	202.41	202.58	202.66
18-May-90	203.355	202.37	202.43	202.6	202.68
27-Oct-91	202.401	201.93	201.96	202	202.03

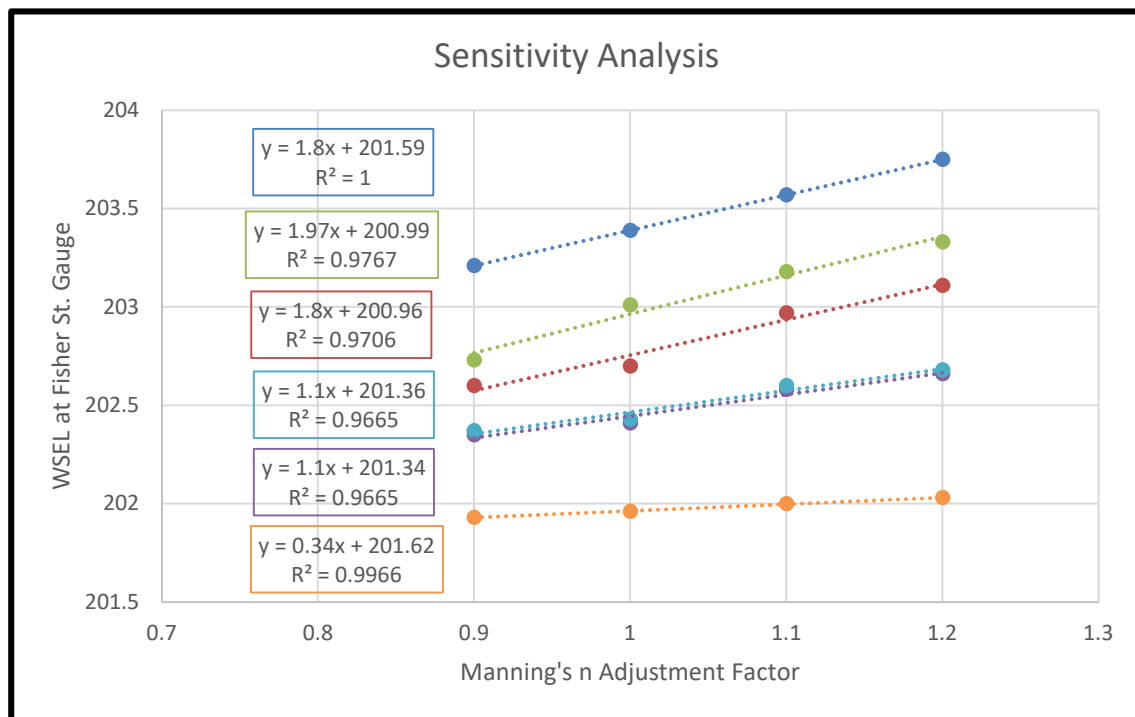


Figure 1: Sensitivity Analysis of Model Parameters

3.4 2D Modelling

For the spills identified through 1D modelling, as described in the Results section, 2D modelling was conducted to determine the spill extents and flow rates leaving the watercourse. HEC-RAS 5.0.7 was also used for 2D modelling and the same LiDAR-based terrain data was used. To avoid complications for 1D/2D boundaries in the model, separate 2D models were developed for each spill.

3.4.1 2D Modelling Areas

The 2D areas were extended upstream of the spill so that the 1D and 2D results would be the same and the results could easily be integrated. The spill areas were also large enough for the spill to flow into the receiving waterbody, or localized depression in the case of the Fraser Street Spill. Spill areas were iterated to ensure that the extent of the spill would be fully modelled. Breaklines of important topographic features, such as roads and berms, were delineated. A 2D finite element

mesh was then developed for the area and used the breaklines to ensure topography was properly represented. A mesh size of 2 m was selected for all 2D areas.

3.4.2 Additional Data

2D modelling requires additional data compared to a 1D model. First, a Manning's n raster is needed to define the 2D roughness characteristics. All roughness coefficients for basic materials were obtained from Open Channel Hydraulics (Chow, 1959). All roads were first delineated and classified as asphalt and assigned a Manning's n of 0.02, based on the assumption that some debris, cracks, and repairs would increase the roughness compared to smooth asphalt and its value of 0.013. To simplify the delineation of roughness parameters for residential lots, the average roughness of each lot was estimated. The portions of the lot covered by the driveway, lawn, and bushes were approximated based on several lots and an area-averaged Manning's n was determined. A Manning's n of 0.06 was used for residential lots. Large areas of a single surface type, such as fields in parks, were also delineated and assigned the corresponding surface roughness value.

2D modelling in HEC-RAS also requires the use of unsteady flows, due to stability issues with large changes in flow rate. The 100-year 6-hour SCS storm hydrographs from HEC-HMS that were used to define the peak flows for 1D modelling was also used as the unsteady hydrographs in 2D modelling. The selected hydrograph for each 2D area was taken from the next downstream node in HEC-HMS.

Finally, additional boundary conditions were needed to define the 2D areas. The flow hydrograph defined the upstream boundary condition for all 2D areas. Known water surface elevations were used when spills flowed into another waterbody, such as for Trout Lake, Circle Lake, and Lake Nipissing. The 2-year lake level was used for Lake Nipissing, while the LiDAR-based WSELs were used for Circle Lake and Trout Lake due to lack of level gauges. The use of LiDAR-based WSELs represents approximately average lake conditions and will not impact the delineation of the spills due to Circle Lake and Trout Lake being significantly downhill from the origin of the spill. For the Johnson Creek 2D areas and the Fraser St. 2D area, a downstream boundary condition was also required for the channel. Since no precise observed data exists to define those boundary conditions, they were conservatively approximated from the 1D model energy grade lines at the downstream boundary of the 2D area. The lowest energy grade slope in the vicinity of the boundary for the 100-year flood in the 1D model was used in an approximation. For the 2D area upstream of Trout Lake Rd. and the Fraser St. 2D area, the slopes were taken from downstream of a crossing so backwatering would not impact the slope. For the Delany Lake spill, the downstream slope was nearly flat, so a slope of 0.001 was used, as a slope of zero cannot be used.

For the Fraser St. and Chippewa Outlet spills, the low-lying areas receiving the spill flows resulted in extensive inundation that was overly conservative, as infiltration and storm sewer flows were not considered. To reduce the spill extents to a more reasonable area, the number of catchbasins in which the spill would flow over were calculated. The catchbasin inflow rates were determined from City of North Bay Stormwater Design Standards. Each catchbasin was assumed to be operating at 50% capacity as a conservative estimate to account for leaves and other debris that may obstruct flow. The number of catchbasins needed to completely capture the entire spill flow was calculated and the spill extents were truncated beyond that point, as any remaining spill flows would be much smaller and unlikely to cause damage to property and infrastructure.

3.4.3 2D Model Sensitivity Analysis

A sensitivity analysis was also conducted on the 2D model to determine the impact of Manning's n on the floodplain extents. This analysis found that varying the roughness from 0.02 to 0.08 for residential areas had a very minor impact on flood extents, since most flows were along roadways.

3.4.4 Simulation Parameters

Each simulation was run for 48 hours, allowing for the hydrograph resulting from the 6-hour storm to completely move through the system. A 1-minute computation time-step was used for both Johnson Creek 2D areas. A 6-second time step was used for both of the Chippewa Creek 2D areas due to increased complexity and higher flow rates leading to instability at larger time steps.

4. RESULTS

A summary of the HEC-RAS modelling results for the design storms is presented here. For detailed data on water surface elevations and flow conditions in each reach from the 1D model, please see **APPENDIX F**. A summary of 1D WSELs at key locations in Chippewa Creek to be used for floodline delineation for each rainfall distribution is shown in **Table 4**. The WSELs shown for the 100-year, 6-hour storm in the table reflect the higher of the 100-year flow combined with the 2-year Lake Nipissing WSEL, and the 2-year flow combined with the 100-year Lake Nipissing WSEL. The 2-year Lake Nipissing WSEL was used for the other return period storms. It was found that the lake level only affected the regulatory flood risk extents downstream of the Queen St. culvert, so the 100-year storm defines the flood risk extents upstream of the crossing and the 100-year lake level defines the flood risk extents downstream of the crossing. The overall impact of the lake level was found to affect the water surface elevations upstream to Memorial Drive. See Table 5 for summary of Flood Risk delineation.

Table 4: 1D Modelling Water Surface Elevation Summary Table

Return Period (years)	Storm		Water Surface Elevation (m)						
	Duration (hours)	Distribution	Chippewa U/S Fisher St.	Chippewa U/S Cassels St.	Eastview/ Chippewa Confluence	Johnson/ Eastview Confluence	Johnson Creek U/S Northgate Centre	Johnson Creek U/S ONR Railway	Eastview Creek U/S Laurentian Ave.
2	6	SCS Type II	202.85	205.76	203.94	204.18	204.54	206.53	206.72
5	6	SCS Type II	203.77	206.00	204.24	204.60	204.96	207.89	207.18
10	6	SCS Type II	204.06	206.15	204.45	204.95	205.53	207.89	207.60
25	6	SCS Type II	204.25	206.34	204.68	205.48	206.05	207.90	207.91
50	6	SCS Type II	204.29	206.51	204.76	205.53	206.13	207.93	207.92
100	6	SCS Type II	204.34	206.69	204.85	205.53	206.18	207.96	207.94
100	4	Chicago	204.28	206.47	204.74	205.51	206.12	207.92	207.91
>100		Timmins	204.93	207.88	205.68	205.70	206.37	208.24	208.00

Table 5 Regulatory Flood Risk

Reach	Regulatory Flood Risk
Chippewa Creek downstream of Cassels St	100-year 6-hour SCS storm
Chippewa Creek upstream Cassels St.	Timmins
Chippewa Creek downstream Queen St.	Lake Nipissing WSEL
Eastview Creek	100-year 6-hour SCS storm
Johnson Creek downstream of Ski Club Road	100-year 6-hour SCS storm
Johnson Creek upstream of Ski Club Road	Timmins

4.1 Model Profiles

The water surface profiles for the 100-year flow show that many of the structures in the watershed will be inundated. Several structures also showed moderate backwater effects that could lead to localized flooding in the immediate area. The profiles for Chippewa Creek, Johnson Creek, and

Eastview Creek are shown in **Figure 2**, **Figure 3**, and **Figure 4**, respectively. The Crossing Risk Assessment is shown in **APPENDIX C**.

The Crossing Risk Assessment uses risk criteria from the MNRF River & Stream Systems Flooding Hazard Limit Technical Guide. The criteria provides three thresholds that indicate the risk that a person faces if they are within a flooded area in a storm. The depth criteria is 0.8 m, over which some people will become buoyant; the velocity criteria is 1.7 m/s, above which people can become unstable at small depths; the depth*velocity criteria of 0.4 m²/s indicates the stability when both moderate depth and velocity are present. If any of the thresholds is exceeded, then the crossing is determined to be unsafe for pedestrians during floods. It is also noted that guidance for emergency vehicles indicates that 0.9-1.2 m of flood depth and velocities up to 4.5 m/s do not pose a significant risk to diesel fire vehicles with a top exhaust. All crossing depths have been calculated based on the minimum road surface elevation at the crossing relative to the WSEL.

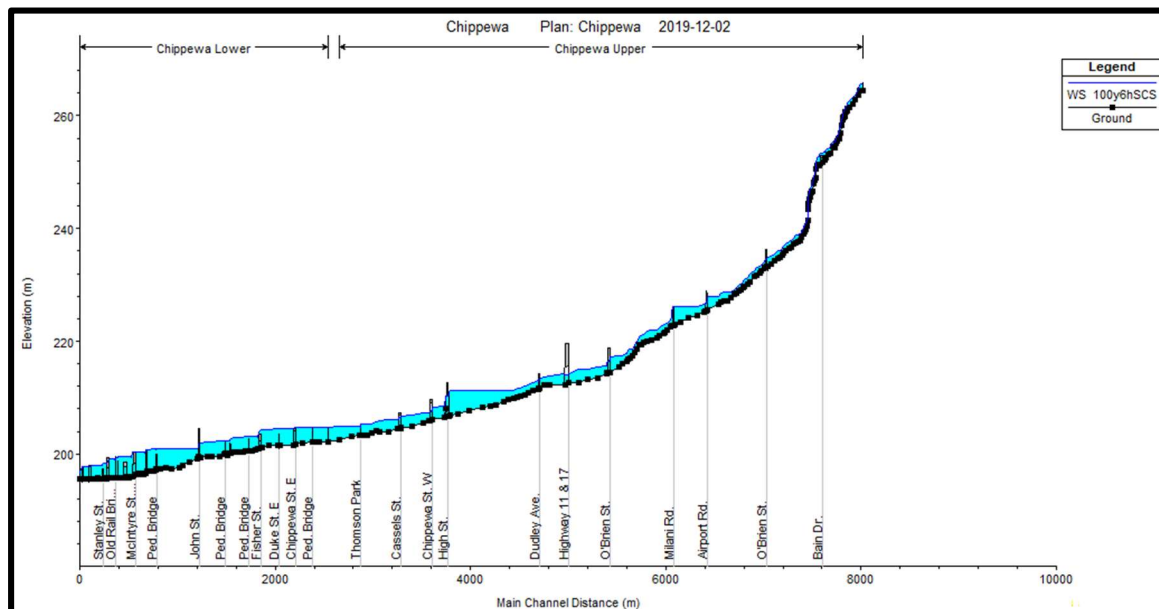


Figure 2: Chippewa Creek 1D water surface profile for SCS 100-year 6-hour storm

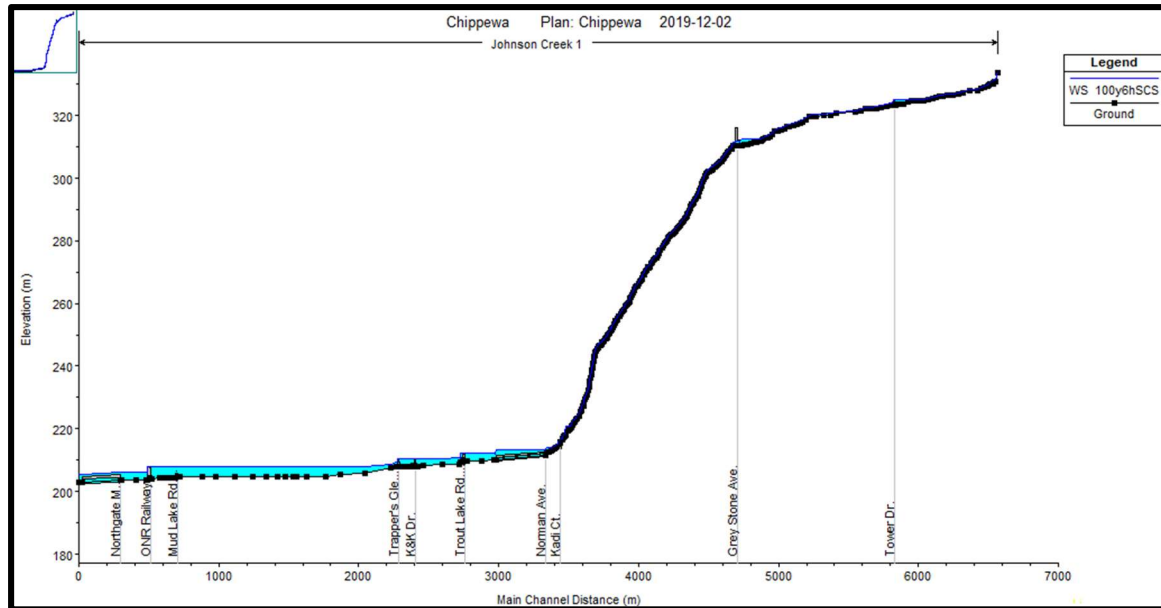


Figure 3: Johnson Creek 1D water surface profile for SCS 100-year 6-hour storm

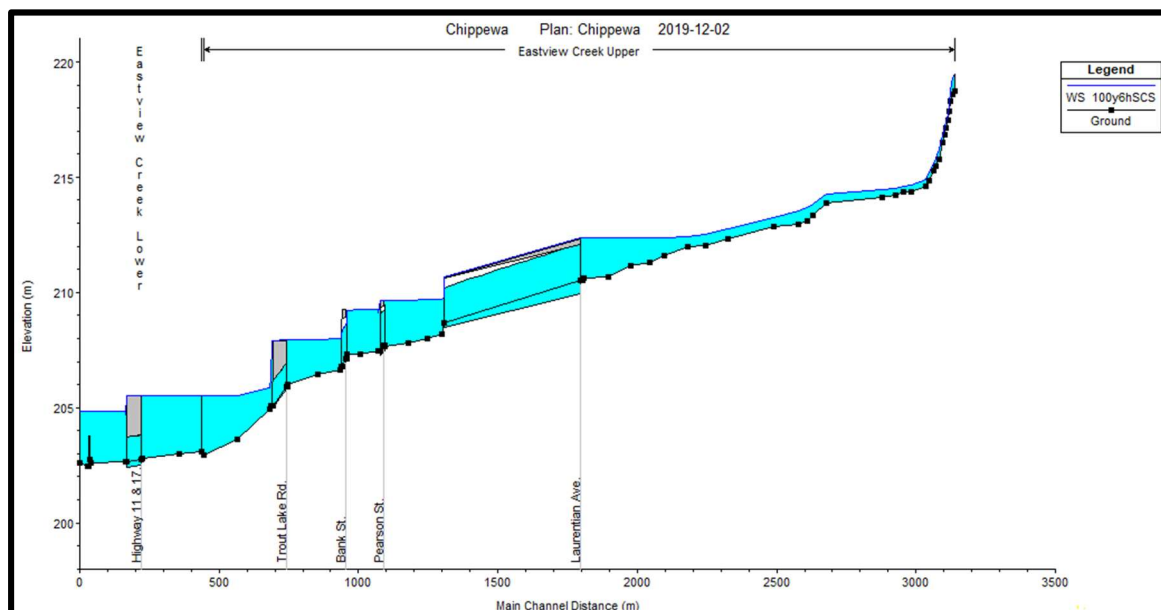


Figure 4: Eastview Creek 1D water surface profile for SCS 100-year 6-hour storm

4.1.1 Spills

Two significant spills to adjacent watersheds were identified within the Chippewa Creek watershed. The first was on Johnson Creek where flows spilled into Circle Lake from Delaney Lake. The second was downstream of the OVR railway on Chippewa Creek, where low-lying areas to the south prevented flows from being contained. Spills between subcatchments were also observed or previously reported at the Northgate Shopping Centre and between Johnson and Eastview Creeks south of Ski Club Road. The flow reduction that results from spills into adjacent watersheds would not alter the resulting floodlines in Chippewa Creek, as the floodlines are conservative estimates based on the assumption that all flows would remain in the watershed. This approach is used to

account for the possibility that adjacent watersheds are flooding at the same time and that spills would not occur.

4.1.1.1 Johnson Creek to Eastview Creek

A potential spill was identified by the 1985 floodplain report between Johnson Creek and Eastview Creek south of Ski Club Rd, resulting from the backwatering of the Norman Ave. culvert. The spill would likely only flow from Johnson to Eastview as the flows in Johnson Creek are much higher at the same location. The spill would have to travel a significant distance through a residential area to reach Eastview Creek, and the relatively small depth of flow over this area combined with many flow obstructions would likely lead to shallow flow depths and slow velocities that would not pose a navigation risk beyond the inundated areas. This spill was not observed through 1D and 2D modelling in the current study.

4.1.1.2 Johnson Creek Norman Ave. and Johnston Rd. Spill

When the long culvert along Johnston Rd. and Norman Ave. backwaters, a reservoir upstream of Norman Ave. is created which spills into backyards along Norman Ave. and spreads through several properties before flowing back into Johnson Creek by crossing Johnston Rd. This spill was delineated in the 1985 mapping and was observed with both the 1D and 2D HEC-RAS models. The spill only occurs during the 100-year storm and will cover several properties in the area. The peak spill flow leaving the channel upstream of Norman Ave. was 0.24 m³/s during the 100-year event. The storm sewer network was not modelled and would likely mitigate much of the spill, as the peak flow will occur significantly later than the peak rainfall.

4.1.1.1 Johnson Creek to Trout Lake

Resulting from the same spill area as the potential spill to Eastview Creek and the Norman Ave. spill, the Johnson Creek spill to Trout Lake occurs when the Trout Lake Rd. crossing backwaters and fills an undeveloped area that the ONR Railway travels through. When the backwatering is sufficient, the flows can cross Trout Lake Rd. and travel down Lakeside Dr. to Trout Lake. From the reservoir routing results, only the Timmins Storm would result in this spill occurring. The 2D modelling results for the area used the 100-year storm, which is the regulatory storm for the area, and no spill was observed. A minimum WSEL of 212.18 m is necessary for flow to enter the pedestrian tunnel connecting Ski Club Rd. to Trout Lake Rd. and flow into Trout Lake. A WSEL of 212.5 is necessary for the backwatered area to spill over the ONR railway and flow into Trout Lake.

4.1.1.2 Johnson Creek to Circle Lake

The spill from Johnson Creek flows through a low-lying industrial development and over Wallace Rd. into Circle Lake, which is a part of the Parks Creek watershed. It was determined by analyzing the topography between the two lakes that a WSEL greater than 205.39 m would be necessary to initiate the spill, which is achieved by the 5-year flood. 2D modelling was conducted to determine the spill flow rate and extents. The peak spill flow for the 100-year event was 2.22 m³/s. The spill extents were primarily limited to ditches and roadways, although both the Canadore College building and the Community Living North Bay building will experience inundation depths up to 15 cm deep during the 100-year event.

4.1.1.3 Chippewa Creek Fraser St.

A spill was observed along Fraser St. from Chippewa Creek upstream of the confluence with Eastview Creek. Based on 1D modelling, the spill occurred during the 100-year storm. Much of lower Chippewa Creek has been historically realigned, and it appears that the spill in this area follows the historical valley of the channel. The spill was quantified and delineated based on 2D modelling. The peak spill flow was determined to be 2.03 m³/s for the 100-year event. Conservative assumptions for storm sewer flows indicate that the spill would likely progress west to Victoria St

W and then southwest towards Ferguson St and 6th Ave W where a natural depression and an oversized stormwater relief culvert is located. The spill extents between Chippewa Creek and the Ferguson St. depression are based on the 2D modelling results that do not include storm sewer flows which will likely reduce the extent of the spill.

4.1.1.4 Chippewa Creek Outlet

The spill from Chippewa Creek between the CPR railway and Lake Nipissing flows into a small shoreline watershed via a low-lying area to the south. 2D modelling was used to determine the spill flows and extents. The peak spill flow for the 100-year event was 0.65 m³/s. The 2D modelling did not include the storm sewer network, so large flood extents were observed in the low-lying area south of the channel. The 2D model showed that the spill originated on the left bank of Chippewa Creek between the OVR Railway and Stanley St. and inundated Lee Park before spilling over Colgan Ave. and Memorial Dr. Overland flow through Lee Park and into the adjacent neighbourhood does not occur with the 2-year event, but does occur during the 5-year and larger events.

A spill is also present over the right bank of the channel between Stanley St and Memorial Dr. The spill crosses Monk St. and flows through the wastewater treatment plant before crossing Memorial Dr. and flowing into Lake Nipissing. Overland flow to Lake Nipissing via the wastewater treatment plant does not occur during the 10-year event but is present for the 25-year and greater events. The peak flow during the 100-year event is 6.4 m³/s.

4.1.1.5 Northgate Shopping Centre

The Northgate Shopping Centre is very prone to flooding, as flows from both Johnson and Eastview Creeks can inundate the parking lots. The spill is exclusively between Johnson and Eastview Creek up to the 50-year event, but the spill was shown to flow over the highway into Chippewa Creek for 100-year and greater storms based on reservoir routing. The minimum WSEL for initiating the spill across Highway 11 & 17 is 205.23 m and the spill would occur between cross-sections 405.7 and 325.4 on lower Eastview Creek. Based on reservoir routing, the 100-year WSEL at the mall will be 205.34 m. This indicates that the maximum depth on the roadway will be 11 cm and inundate an 80 m stretch of the road. The shallow depth and large wetted perimeter of the spill across the road indicate that the spill will be minor and will not approach the 10% flow threshold described in the River & Stream Systems: Flooding Hazard Limit Technical Guide for adjusting reach flows.

5. SUMMARY

In order to develop a HEC-RAS hydraulic model of Chippewa Creek, Johnson Creek, and Eastview Creek, Water's Edge conducted a background review to review data provided by NBMCA, developed a HEC-HMS model to determine peak flows in the watershed, and built a hydraulic model using HEC-RAS following guidelines in the MNR Technical Guide for River and Stream Systems: Flood Hazard Limit (MNR, 2002) and the Federal Floodplain Mapping Framework 2.0 (Natural Resources Canada, 2018).

Based on our review and modelling, we conclude that:

1. The regulatory flood risk extents are defined below

Reach	Regulatory Flood Risk
Chippewa Creek downstream of Cassels St	100 - Year 6-hour SCS storm
Chippewa Creek upstream Cassels St.	Timmins Storm
Chippewa Creek downstream Queen St.	100 – Year Lake Nipissing WSEL
Eastview Creek	100 - Year 6-hour SCS storm
Johnson Creek downstream of Ski Club Road	100 - Year 6-hour SCS storm
Johnson Creek upstream of Ski Club Road	Timmins Storm

2. The 100-year Lake Nipissing level is more significant than the 100-year storm downstream of Queen St.;
3. Two significant spills into adjacent watersheds exist, from Delaney Lake on Johnson Creek into Circle Lake (Parks Creek Watershed), and from Chippewa Creek into a minor shoreline watershed on Lake Nipissing;
4. Two significant spills within the watershed were also observed, on Johnson Creek upstream of Norman Ave. to downstream of Johnston Rd., and on Chippewa Creek at Fraser St. which will be conveyed back to Chippewa Creek via the storm sewer network;
5. 2D modelling has been completed for the four significant spills to delineate and accurately quantify spill flows;
6. Reservoir routing has been used to define the floodplains at the Northgate Shopping Centre;
7. The floodplain extents are increased moderately compared to the 1984 modelling, with more significant increases in Thomson Park, near Delaney Lake, and Johnson Creek between Ski Club Rd. and Trout Lake Rd.
8. All modelling and analysis have been completed in accordance with the MNRF River & Stream Systems: Flooding Hazard Limits Technical Guide.

Respectfully submitted,



Ed Gazendam, Ph.D., P. Eng.,
President, Sr. Geomorphologist

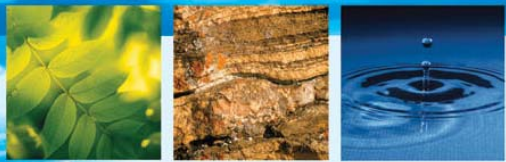
A handwritten signature in black ink, appearing to read "Tim Antonio".

Tim Antonio B.A.Sc. EIT
Water Resource Scientist

Water's Edge Environmental Solutions Team Ltd.

REFERENCES

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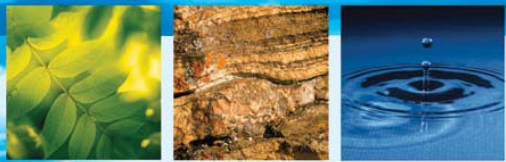
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APPENDIX A:

HEC-RAS Flow Rates

Table 1: HEC-RAS Flow Rates

Reach	HEC-RAS Station	HEC-HMS Flow Location	Design Storms								Calibration Events					
			Timmins	100y6hSCS	50y6hSCS	25y6hSCS	10y6hSCS	5y6hSCS	2y6hSCS	100y4h Chicago	25-Jul-77	15-Sep-78	29-Jul-86	10-Jun-89	18-May-90	17-Oct-91
Chippewa - Upper	7678	J196	75.8	23.7	20.5	17.4	13.6	11	7.3	19.7	10.5	8.1	8.9	7.1	6.9	3.1
Chippewa - Upper	6124	R260+W570	85.5	28.7	25	21.4	17	13.8	9.4	24.1	13.5	10.3	10.9	9.2	7	3.9
Chippewa - Lower	2544	J180	115.6	40.6	35.4	30.3	24	19.5	13.1	33.9	18.7	15.1	16.6	12.6	13.1	5.9
Chippewa - Lower	1860	J176	119.1	41.8	36.4	31.2	24.7	20.1	13.5	34.9	19.3	15.6	17	13.2	13.5	6
Chippewa - Lower	940	J173	122.7	43.6	38.1	32.7	25.9	21.1	14.3	36.5	20.4	16.5	18.1	14	14.3	6.4
Chippewa - Lower	787	Outlet	124	44.1	38.6	33.1	26.3	21.4	14.5	37	20.7	16.8	18.5	14.3	14.6	6.6
Eastview - Upper	3112	W580	13.4	7.3	6.3	5.3	4	3.1	1.9	5.7	2.4	1.4	1.3	1.4	1	0.5
Eastview - Lower	405	R270+W610	29.7	11.5	10.1	8.9	7	5.8	3.8	9.7	5.4	4.5	5.5	3.6	4.4	2
Johnson	6571	W520	10.9	5.9	5.3	4.7	3.8	3.1	2.1	5.1	3.1	2.4	2.3	2	1.9	1
Johnson	3349	R280+W600	19.3	9.5	8.3	7	6	4.9	3.3	8	4.8	3.9	4.2	3.2	3.4	1.6



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APPENDIX B:

Lake Nipissing Frequency Analysis

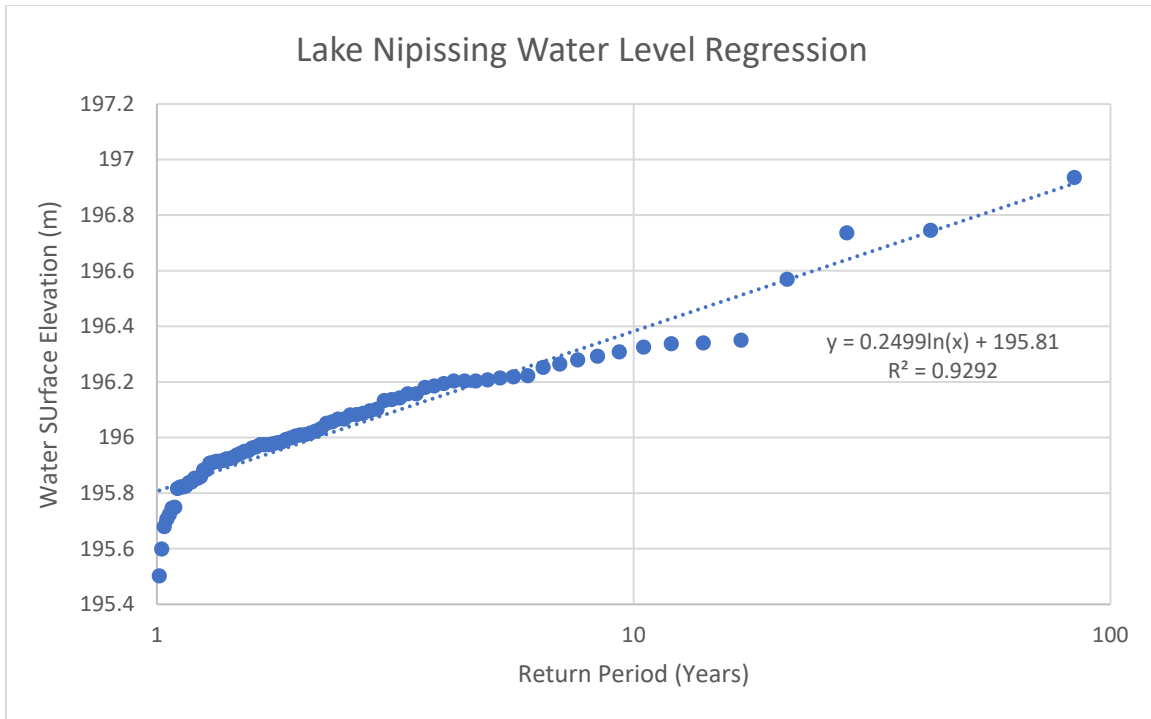
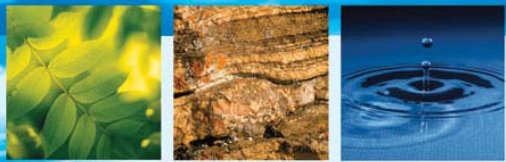


Figure 1: Lake Nipissing Water Level Regression

Table 2: Lake Nipissing Return Period Water Surface Elevations

Return Period (years)	Water Surface Elevation (m)
1	195.8068
2	195.98
5	196.209
10	196.3822
20	196.5554
50	196.7844
100	196.9576



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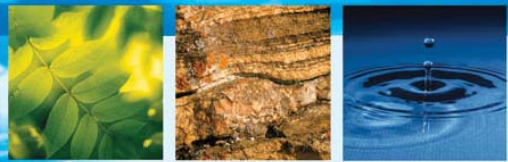
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APPENDIX C:

Crossing Risk Assessment

River	Reach	Crossing Name	River Sta	Type	Min. Deck Elevation	Timmins Depth	100y Depth	50y Depth	25y Depth	10y Depth	5y Depth	2y Depth	Timmins Velocity	100y Velocity	50y Velocity	25y Velocity	10y Velocity	5y Velocity	2y Velocity	Timmins Vel*Depth	100y Vel*Depth	50y Vel*Depth	25y Vel*Depth	10y Vel*Depth	5y Vel*Depth	2y Vel*Depth
Johnson Creek		Tower Dr.	5834.043	Culvert	324.9	0.1	0.06	0.05	0.05	0.04	0.03	0.02	0.44	0.34	0.33	0.31	0.28	0.24	0.18	0.04	0.02	0.02	0.02	0.01	0.01	0.00
Johnson Creek		Ski Ridge Estates (Unkown Name)	4707.051	Culvert	316	0	0	0	0	0	0	0								0.00	0.00	0.00	0.00	0.00	0.00	0.00
Johnson Creek		Ski Club Rd.	3494.642	Culvert	220.6	0.3	0.21	0.2	0.17	0.12	0.07	0	0.74	0.61	0.58	0.53	0.45	0.35		0.22	0.13	0.12	0.09	0.05	0.02	0.00
Johnson Creek		Kadi Crt.	3438.548	Culvert	216.23	0.51	0.36	0.34	0.3	0.23	0.11	0	0.73	0.55	0.53	0.52	0.47	0.27		0.37	0.20	0.18	0.16	0.11	0.03	0.00
Johnson Creek		Norman Ave.	3163.811	Culvert	213.5	0.12	0.05	0.05	0.02	0	0	0	0.50	0.33	0.29	0.21				0.06	0.02	0.01	0.00	0.00	0.00	0.00
Johnson Creek		Trout Lake Rd.	2756.221	Culvert	211.92	0.6	0.2	0.12	0	0	0	0	1.03	0.55	0.39					0.62	0.11	0.05	0.00	0.00	0.00	0.00
Johnson Creek		West of K & K Dr. and Wallace Rd.	2409.157	Culvert	209.93	1.66	0.63	0.62	0.58	0.35	0.22	0	0.13	0.48	0.45	0.44	0.72	0.59		0.21	0.30	0.28	0.25	0.25	0.13	0.00
Johnson Creek		West of Trappers Glen Rd. and Wallace Rd.	2290.768	Culvert	210.5	1.09	0.07	0.05	0.01	0	0	0	0.03	0.37	0.30	0.15				0.03	0.03	0.01	0.00	0.00	0.00	0.00
Johnson Creek		Mud Lake Rd.	706.6135	Culvert	205.78	2.46	2.18	2.15	2.12	2.11	2.11	0.75	0.10	0.02	0.02	0.01	0.00	0.01	0.02	0.25	0.05	0.04	0.01	0.01	0.01	0.02
Johnson Creek		Ontario Northland Railway	505.4535	Culvert	207.74	0.5	0.22	0.19	0.16	0.15	0.15	0	0.65	0.57	0.54	0.50	0.47	0.47		0.33	0.12	0.10	0.08	0.07	0.07	0.00
Johnson Creek		Northgate Shopping Centre	163.9316	Culvert	205.58	0.79	0.6	0.55	0.47	0	0	0	0.72	0.63	0.62	0.64				0.57	0.38	0.34	0.30	0.00	0.00	0.00
Eastview Creek	Upper	Laurentian Ave.	1528.804	Culvert	212.3	0.16	0.06	0.04	0	0	0	0	0.56	0.35	0.27					0.09	0.02	0.01	0.00	0.00	0.00	0.00
Eastview Creek	Upper	Pearson St.	1058.651	Culvert	209.63	0.32	0.01	0	0	0	0	0	0.44	0.22						0.14	0.00	0.00	0.00	0.00	0.00	0.00
Eastview Creek	Upper	Bank St.	921.6902	Culvert	209.26	0.23	0	0	0	0	0	0	0.68							0.16	0.00	0.00	0.00	0.00	0.00	0.00
Eastview Creek	Upper	Trout Lake Rd.	686.5256	Culvert	207.88	0.12	0.06	0.04	0.03	0	0	0	0.48	0.33	0.29	0.23				0.06	0.02	0.01	0.01	0.00	0.00	0.00
Eastview Creek	Lower	Hwy 11 & 17	163.2274	Culvert	205.5	0.18	0.03	0.02	0	0	0	0	0.34	0.24	0.17					0.06	0.01	0.00	0.00	0.00	0.00	0.00
Eastview Creek	Lower	Pedestrian Bridge in Thomson Park at McGaughey Ave.	42.5458	Bridge	204	1.68	0.85	0.77	0.68	0.45	0.24	0	0.19	0.26	0.27	0.28	0.35	0.44		0.32	0.22	0.21	0.19	0.16	0.11	0.00
Chippewa Creek	Upper	Bain Dr.	7286.624	Culvert	253.05	1.24	0.3	0.29	0.23	0.03	0	0	0.81	0.84	0.80	0.78	0.62	0.25		1.01	0.25	0.23	0.18	0.02	0.00	0.00
Chippewa Creek	Upper	O'Brien St. (North)	6719.625	Culvert	236.18	0	0	0	0	0	0	0	0.83							0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Upper	Airport Rd.	6111.608	Culvert	228.61	0.91	0	0	0	0	0	0	1.07							0.97	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Upper	Milani Rd.	5768.878	Culvert	225.85	0.73	0.29	0.13	0	0	0	0	1.19	0.77	0.53					0.87	0.22	0.07	0.00	0.00	0.00	0.00
Chippewa Creek	Upper	O'Brien St. (South)	5114.229	Culvert	218.83	0.96	0	0	0	0	0	0	0.84							0.80	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Upper	Hwy 11 & 17	4780.106	Culvert	219.5	0	0	0	0	0	0	0								0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Upper	Pedestrian Bridge at Dudley Ave.	4698.5	Culvert	213.82	1.02	0	0	0	0	0	0								0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Upper	High St.	3762.735	Culvert	212.6	1.52	0	0	0	0	0	0	0.29							0.43	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Upper	Chippewa Creek St. W	3594.852	Culvert	209.67	0.5	0	0	0	0	0	0	1.05							0.52	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Upper	Cassels St.	3271.484	Culvert	207.34	0.34	0	0	0	0	0	0	0.82							0.28	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Upper	Pedestrian Bridge in Thomson Park close to Skate Park	2873.769	Bridge	204.85	0.9	0.49	0.35	0	0	0	0	0.84	0.44	0.47					0.76	0.22	0.16	0.00	0.00	0.00	0.00
Chippewa Creek	Lower	Pedestrian Bridge in Thomson Park close to Fisher St.	2384.204	Bridge	203.5	1.96	1.21	1.14	1.07	0.82	0.58	0.25	1.28	0.83	0.78	0.71	0.73	0.80	0.82	2.51	1.00	0.89	0.76	0.60	0.46	0.21
Chippewa Creek	Lower	Chippewa Creek St. E	2195.209	Culvert	204.52	0.83	0.13	0.06	0	0	0	0	0.48	0.52	0.36	0.08				0.40	0.07	0.02	0.00	0.00	0.00	0.00
Chippewa Creek	Lower	Duke St.	2040.214	Culvert	203.6	1.65	0.86	0.8	0.73	0.54	0.28	0	0.46	0.48	0.47	0.44	0.48	0.70		0.75	0.41	0.37	0.32	0.26	0.20	0.00
Chippewa Creek	Lower	Fisher St.	1838.973	Bridge	203.6	1.33	0.74	0.69	0.65	0.45	0.17	0	1.76	1.00	0.91	0.81	0.76	0.77		2.34	0.74	0.63	0.53	0.34	0.13	0.00
Chippewa Creek	Lower	Fisher St. Park Pedestrian Bridge	1725.239	Bridge	202.29	2.43	0.85	0.76	0.66	0.48	0.36	0	1.17	1.15	1.08	1.00	0.93	0.84		2.84	0.98	0.82	0.66	0.45	0.30	0.00
Chippewa Creek	Lower	Hammond St.	1539.339	Bridge	202.22	2.39	0.58	0.51	0.47	0.29	0.22	0	0.79	1.26	1.19	1.08	1.07	0.96		1.89	0.73	0.61	0.51	0.31	0.21	0.00
Chippewa Creek	Lower	Pedestrian Bridge at Regina St.	1485.03	Bridge	201.63	2.96	0.75	0.6	0.42	0.2	0.03	0	0.75	1.28	1.33	1.43	1.54	1.47		2.22	0.96	0.80	0.60	0.31	0.04	0.00
Chippewa Creek	Lower	John St.	1224.539	Bridge	204.43	0.11	0	0	0	0	0	0	0.98							0.11	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Lower	1st Ave. E	785.233	Bridge	200.02	1.82	0.85	0.5	0.15	0	0	0	1.74	0.99	1.07	1.18				3.17	0.84	0.54	0.18	0.00	0.00	0.00
Chippewa Creek	Lower	Worthington St.	680.523	Culvert	200.68	1.1	0.16	0	0	0	0	0	1.33	0.58						1.46	0.09	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Lower	McIntyre St.	558.9447	Culvert	200.32	1.38	0.02	0	0	0	0	0	0.39	0.32						0.54	0.01	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Lower	Main St.	466.612	Culvert	198.63	1.64	0.83	0.54	0.41	0.02	0	0	0.61	0.47	0.72	0.81				1.00	0.39	0.39	0.33	0.00	0.00	0.00
Chippewa Creek	Lower	Oak St. Pedestrian Bridge	391.4831	Bridge	198.86	1.43	0.61	0.3	0.16	0	0	0	0.83	0.61	0.77	0.79				1.19	0.37	0.23	0.13	0.00	0.00	0.00
Chippewa Creek	Lower	Ontario Northland Railway	371.974	Bridge	199.88	0.35	0	0	0	0	0	0	1.43							0.50	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Lower	Ottawa Valley Railway	295.438	Bridge	199.28	0.39	0	0	0	0	0	0	0.75							0.29	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Lower	Stanley St.	245.142	Bridge	198.65	0.31	0	0	0	0	0	0	0.44							0.14	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Lower	Memorial Dr.	119.271	Culvert	198.12	0.27	0	0	0	0	0	0								0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chippewa Creek	Lower	Queen St.	42	Culvert	197.89	0.2	0	0	0	0	0	0								0.00	0.00	0.00	0.00	0.00	0.00	0.00



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APPENDIX D:

Structure Survey Tables

Chippewa Cr. Structures Inventory

		Survey Date: October 23, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Queen St.	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:		Temporary Benchmark:	Elev.
N - 5128577.274	E - 618490.089		
Structure Shape:	Round (mitered to shape) Chambered ends	Structure Material:	CSP
Sag Elevation:		Railing Height:	0.25 - 0.6
		Railing Description:	"M" beam guide rail
Opening Characteristics:		Pier Configuration:	
Length:		Skew Angle:	
Upstream Treatment:		Downstream Treatment:	
Upstream Elevations:		Downstream Elevations:	
Invert		Invert	
Obvert		Obvert	
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Surveyor:		Eric Gazendam		Survey Date:		October 23, 2018	
Street Location:		Memorial Dr.		Watercourse:		Chippewa	
Structure ID:				Municipality:		North Bay	
Coordinates:		N - 5128607.270 E - 618561.865		Date of Construction:		1986	
Structure Shape:		Double box culvert		Temporary Benchmark:		Elev.	
Sag Elevation:				Structure Material:		Concrete	
Opening Characteristics:		2 cells		Railing Height:		0.8m concrete & 0.45 steel rail	
				Railing Description:		Guide rail on each end	
Length:				Pier Configuration:			
Upstream Treatment:		Gabion wingwalls		Skew Angle:		10°	
				Downstream Treatment:		Gabion wingwalls	
Upstream Elevations:				Downstream Elevations:			
Invert				Invert			
Obvert				Obvert			
Top				Top			
Comments:							



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: October 23, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Stanley St.	Municipality:	North Bay
Structure ID:		Date of Construction:	1928
Coordinates:		Temporary Benchmark:	Elev.
N - 5128657.639	E - 618674.668		
Structure Shape:		Structure Material:	Concrete
Sag Elevation:		Railing Height:	1.05
		Railing Description:	Concrete
Opening Characteristics:		Pier Configuration:	
Length:		Skew Angle:	225°
Upstream Treatment:	vertical abutment	Downstream Treatment:	Vertical abutment
Upstream Elevations:		Downstream Elevations:	
Invert		Invert	
Obvert		Obvert	
Top		Top	
Comments: Closed to traffic			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: October 22, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	CN Rial D/S	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:		Temporary Benchmark:	Elev.
N - 5128677.362	E - 618709.875		
Structure Shape:	Straight	Structure Material:	Steel beam
Sag Elevation:		Railing Height:	1.1m
		Railing Description:	Steel beams act as railing
Opening Characteristics:	Low / Confined	Pier Configuration:	
Length:		Skew Angle:	
Upstream Treatment:	First bridge	Downstream Treatment:	Riprap / Stone ret. Wall
Upstream Elevations:		Downstream Elevations:	
Invert		Invert	
Obvert		Obvert	
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face



Chippewa Cr. Structures Inventory

		Survey Date: October 22, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	CN Rial U/S	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:		Temporary Benchmark:	Elev.
N - 5128690.318	E - 618724.577		
Structure Shape:	Straight	Structure Material:	Steel beam/wood surface
Sag Elevation:		Railing Height:	0.90m
		Railing Description:	Wooden
Opening Characteristics:	Low / Confined	Pier Configuration:	
Length:		Skew Angle:	
Upstream Treatment:	Concrete retaining wall Gabion	Downstream Treatment:	Second bridge
Upstream Elevations:		Downstream Elevations:	
Invert		Invert	
Obvert		Obvert	
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face



Chippewa Cr. Structures Inventory

		Survey Date: October 22, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	ONR bridge	Municipality:	North Bay
Structure ID:		Date of Construction:	1906
Coordinates:		Temporary Benchmark:	Elev.
N - 5128749.291	E - 618762.956		
Structure Shape:	Straight	Structure Material:	Steel beam/wood surface
Sag Elevation:		Railing Height:	1.1m
		Railing Description:	Wooden
Opening Characteristics:	Confined	Pier Configuration:	
Length:	5.5m	Skew Angle:	
Upstream Treatment:	Concrete wingwall LB	Downstream Treatment:	Concrete wingwall LB
Upstream Elevations:		Downstream Elevations:	
Invert		Invert	
Obvert		Obvert	
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: October 22, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Oak St. Pedestrian Bridge	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:		Temporary Benchmark:	Elev.
N - 5128761.040	E - 618776.608		
Structure Shape:	Straight	Structure Material:	Concrete
Sag Elevation:		Railing Height:	1.37m
		Railing Description:	Metal
Opening Characteristics:	Square	Pier Configuration:	
Length:	3.7m	Skew Angle:	15°
Upstream Treatment:	Concrete wingwalls	Downstream Treatment:	Concrete wingwalls
Upstream Elevations:		Downstream Elevations:	
Invert		Invert	
Obvert		Obvert	
Top		Top	
Comments: Too narrow & Exposed footings			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: October 22, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Main + Oak	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:		Temporary Benchmark:	Elev.
N - 5128807.146	E - 618802.801		
Structure Shape:	"L" Outlet in wingwall	Structure Material:	Concrete
Sag Elevation:		Railing Height:	1.2
		Railing Description:	Metal
Opening Characteristics	double boy culvert	Pier Configuration:	
Length:		Skew Angle:	0°
Upstream Treatment:	Stone/Concrete	Downstream Treatment:	None
Upstream Elevations:		Downstream Elevations:	
Invert		Invert	
Obvert		Obvert	
Top		Top	
Comments: Debris jam in centre of U/S culverts & Both culverts countersunk			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Survey Date: Nov 12			
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Mc Intyre St E	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	618875.5590m 5128892.3870m	Temporary Benchmark:	Elev.
Structure Shape:	Box culvert	Structure Material:	concrete
Sag Elevation:		Railing Height:	1.1m Steel upstream
		Railing Description:	.6m steel guardrail
Opening Characteristics:		Pier Configuration:	
open bottom			
Length:		Skew Angle:	15°
Upstream Treatment:		Downstream Treatment:	None
Slope to grade wingwalls			
Upstream Elevations:		Downstream Elevations:	
Invert	196.13	Invert	195.92
Obvert	198.38	Obvert	198.2
Top	199.05	Top	198.86
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

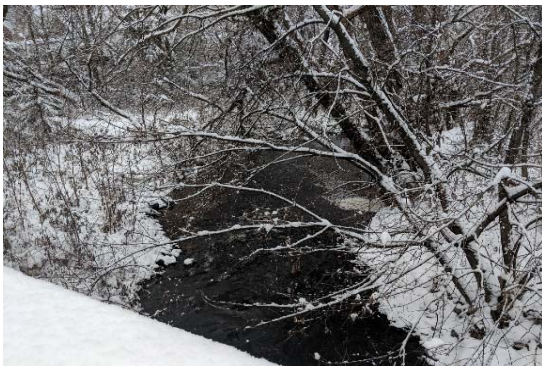
		Survey Date: Nov 12 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Worthington St East	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	618962.5050m 5128965.7890m	Temporary Benchmark:	Elev.
Structure Shape:	Box Culvert	Structure Material:	Concrete
Sag Elevation:		Railing Height:	1.1m
		Railing Description:	Concrete
Opening Characteristics	Open Bottom	Pier Configuration:	
Length:		Skew Angle:	0°
Upstream Treatment:	Rb Wingwall	Downstream Treatment:	RB Wingwall
Upstream Elevations:		Downstream Elevations:	
Invert	196.46	Invert	
Obvert	198.71	Obvert	198.67
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: Nov 12 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	1st Ave East	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619054.2460m 5128996.0830m	Temporary Benchmark:	Elev.
Structure Shape:	Bridge Pedestrian	Structure Material:	Conc
Sag Elevation:		Railing Height:	.94m
		Railing Description:	Steel
Opening Characteristics	Trapezoidal slight arch	Pier Configuration:	
Length:	2.45m	Skew Angle:	5°
Upstream Treatment:		Downstream Treatment:	None
Upstream Elevations:		Downstream Elevations:	
Invert	196.64	Invert	
Obvert	199.42	Obvert	199.3
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Surveyor:	Eric Gazendam	Survey Date:	Nov 12 2018
Street Location:	John St	Watercourse:	Chippewa
Structure ID:		Municipality:	North Bay
Coordinates:	619081.0180m 5129173.8020m	Date of Construction:	
Structure Shape:	Bridge	Temporary Benchmark:	Elev.
Sag Elevation:		Railing Height:	.75m Guardrail
Opening Characteristics:	Arched, trapezoidal channel	Railing Description:	.85 Conc 1.1 Railing
Length:		Pier Configuration:	
Upstream Treatment:	LB Wingwall RB Armourstone wall with path	Skew Angle:	15°
Downstream Treatment:	LB None RB Armourstone wall and path	Downstream Treatment:	LB None
Upstream Elevations:		Downstream Elevations:	
Invert	198.75	Invert	
Obvert	202.59	Obvert	202.57
Top	204.5	Top	204.48
Comments: Pathway running underneath with railing			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face



Chippewa Cr. Structures Inventory

		Survey Date: Nov 12 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Hammond + 3rd Ave E	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619023.9370m 5129395.0290m	Temporary Benchmark:	Elev.
Structure Shape:	Bridge pedestrian pre-fab	Structure Material:	Steel
Sag Elevation:		Railing Height:	Steel 1.07m
Opening Characteristics: Arched, trapezoidal		Railing Description:	
Length:		Pier Configuration:	
Upstream Treatment:		Skew Angle: 0°	
		Downstream Treatment: None	
Upstream Elevations:		Downstream Elevations:	
Invert	199.32	Invert	
Obvert	202.06	Obvert	202.06
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: Nov 12 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Hammond + 3rd Ave E	Municipality:	North Bay
Structure ID:	E 45 - 09504	Date of Construction:	
Coordinates:		Temporary Benchmark:	Elev.
Structure Shape:		Structure Material:	Steel
Bridge pedestrian, pre - fab			
Sag Elevation:		Railing Height:	Steel 1.07m
		Railing Description:	
Opening Characteristics:		Pier Configuration:	
Arched, trapezoidal			
Length:		Skew Angle:	0°
Upstream Treatment:		Downstream Treatment:	None
Upstream Elevations:		Downstream Elevations:	
Invert	199.6	Invert	
Obvert	201.45	Obvert	201.44
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Survey Date:		November 12, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	5th + Fisher	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619152.0620m 5129572.9090m	Temporary Benchmark:	Elev.
Structure Shape:	Pre - fab pedestrian bridge	Structure Material:	Pre fab steel
Sag Elevation:		Railing Height:	1.1m
		Railing Description:	Steel
Opening Characteristics:		Pier Configuration:	
Length:	2.6m	Skew Angle:	0°
Upstream Treatment:		Downstream Treatment:	None
Upstream Elevations:		Downstream Elevations:	
Invert	200.16	Invert	
Obvert	202.17	Obvert	202.79
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 12, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Fisher St + Princess St E	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619181.2820m 5129644.9740m	Temporary Benchmark:	Elev.
Structure Shape:	Box Culvert	Structure Material:	Concrete
Sag Elevation:		Railing Height:	.7 Concrete, 1.15 Steel
Opening Characteristics: Rectangle open bottom		Pier Configuration:	
Length:		Skew Angle:	22.5°
Upstream Treatment:	LB Wingwall, RB Armourstone Wall	Downstream Treatment:	Wingwalls
Upstream Elevations:		Downstream Elevations:	
Invert	200.6	Invert	
Obvert	202.77	Obvert	202.4
Top	203.56	Top	203.71
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 12, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Duke St	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619266.2380m 5129794.9340m	Temporary Benchmark:	Elev.
Structure Shape:	Csp Arch	Structure Material:	Steel
Sag Elevation:		Railing Height:	.7m
		Railing Description:	Guiderail
Opening Characteristics:		Pier Configuration:	
Length:		Skew Angle:	0°
Upstream Treatment:		Downstream Treatment:	None
Upstream Elevations:		Downstream Elevations:	
Invert	200.78	Invert	201.08
Obvert	203.05	Obvert	203.04
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Survey Date:		November 12, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Chippewa St E	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619366.5190m 5129854.3230m	Temporary Benchmark:	Elev.
Structure Shape:	Double box culvert	Structure Material:	Concrete
Sag Elevation:		Railing Height:	1.35m
		Railing Description:	Concrete with steel rail
Opening Characteristics:		Pier Configuration:	
Length:		Skew Angle:	0°
Upstream Treatment:	Gabion retaining wall	Downstream Treatment:	None
			Gabion retaining wall
Upstream Elevations:		Downstream Elevations:	
Invert	201.17	Invert	201.95
Obvert	203.89	Obvert	203.91
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 12, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Fisher St	Municipality:	North Bay
Structure ID:	13 - 13020	Date of Construction:	
Coordinates:	619540.5540m 5129908.1760m	Temporary Benchmark:	Elev.
Structure Shape:	Pedestrian bridge	Structure Material:	Pre - fab steel
Sag Elevation:		Railing Height:	1.35m
		Railing Description:	Steel rail
Opening Characteristics: Trapezoidal arch		Pier Configuration:	
Length:	2.73m	Skew Angle:	0°
Upstream Treatment:		Downstream Treatment:	None
Upstream Elevations:		Downstream Elevations:	
Invert	201.71	Invert	
Obvert	204.68	Obvert	204.7
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



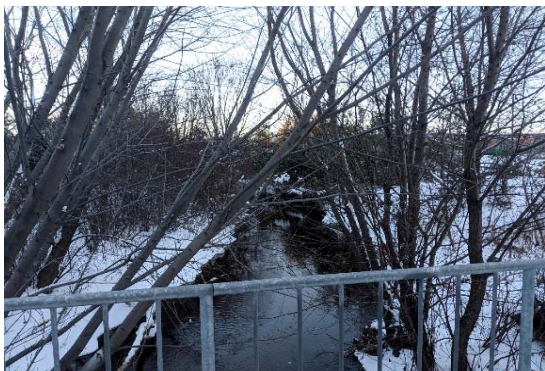
Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

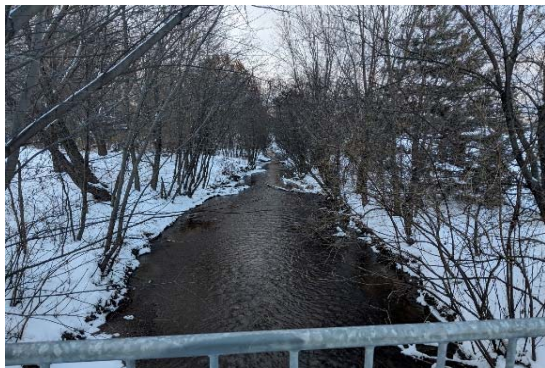
		Survey Date: 13 Novemeber 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Fraser St	Municipality:	North Bay
Structure ID:	13 - B020	Date of Construction:	
Coordinates:	619609.0380m 5130263.2750m	Temporary Benchmark:	Elev.
Structure Shape:	Pedestrian Bridge	Structure Material:	Steel Pre fab "Iron Bridge"
Sag Elevation:		Railing Height:	1.35m
		Railing Description:	Steel Rail
Opening Characteristics: Trapezoidal		Pier Configuration:	
Length:	2.7m	Skew Angle:	0°
Upstream Treatment:		Downstream Treatment:	None
Upstream Elevations:		Downstream Elevations:	
Invert	202.87	Invert	
Obvert	204.98	Obvert	204.98
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 13, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Cassels St	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619449.3100m 5130549.0720m	Temporary Benchmark:	Elev.
Structure Shape:	Box Culvert	Structure Material:	Concrete
Sag Elevation:		Railing Height:	1.1m
		Railing Description:	Steel / concrete
Opening Characteristics: Rectangular		Pier Configuration:	
Length:		Skew Angle:	U/S 45° D/S 0°
Upstream Treatment:		Downstream Treatment:	None
Wingwalls mitered to slope		Wingwalls mitered to slope	
Upstream Elevations:		Downstream Elevations:	
Invert	204.12	Invert	
Obvert	206.8	Obvert	206.8
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

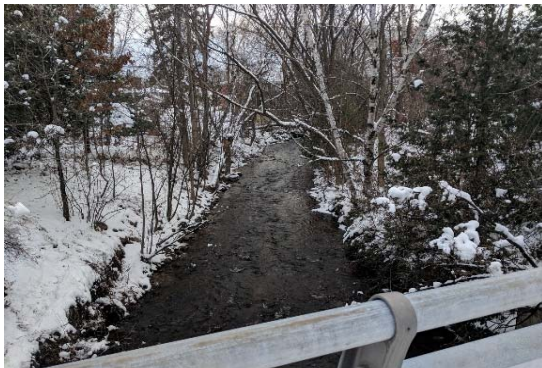
Survey Date:		November 13, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Chippewa St W	Municipality:	North Bay
Structure ID:		Date of Construction:	1979
Coordinates:	619350.3270m 5130776.1790m	Temporary Benchmark:	Elev.
Structure Shape:		Structure Material:	
Arch		CSP with concrete headwalls	
Sag Elevation:		Railing Height:	
		Railing Description:	
Opening Characteristics:		Pier Configuration:	
Open Bottom			
Length:		Skew Angle:	U/S 20° D/S 10°
Upstream Treatment:		Downstream Treatment:	None
Wingwall mitered to slope		Wingwall mitered to slope	
Upstream Elevations:		Downstream Elevations:	
Invert	205.74	Invert	205.9
Obvert	208.95	Obvert	209.01
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 13, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	High St	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619236.3940m 5130882.4600m	Temporary Benchmark:	Elev.
Structure Shape:	Box Culvert	Structure Material:	Concrete
Sag Elevation:		Railing Height:	.6m
		Railing Description:	Cable guiderail
Opening Characteristics: Open bottom, rectangular		Pier Configuration:	
Length:		Skew Angle:	U/S 80° D/S 0°
Upstream Treatment:		Downstream Treatment:	None
A couple concrete blocks		A couple concrete concrete blocks	
Upstream Elevations:		Downstream Elevations:	
Invert	206.64	Invert	206.36
Obvert	210.44	Obvert	210.28
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 13, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Dudley	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	618883.1950m 5131559.9400m	Temporary Benchmark:	Elev.
Structure Shape:		Structure Material:	
Pedestrian bridge		Pre fab eagle bridge - steel	
Sag Elevation:		Railing Height:	1.07m
		Railing Description:	Steel
Opening Characteristics:		Pier Configuration:	
Trapezoid			
Length:	2.6m	Skew Angle:	0°
Upstream Treatment:		Downstream Treatment:	None
Upstream Elevations:		Downstream Elevations:	
Invert	211.54	Invert	211.38
Obvert	214.15	Obvert	214.16
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 13, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Hwy 17 - Trans Can	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	618896.787m 5131637.623m	Temporary Benchmark:	Elev.
Structure Shape:	Box Culvert Closed Bottom	Structure Material:	Concrete
Sag Elevation:		Railing Height:	
		Railing Description:	
Opening Characteristics:		Pier Configuration:	
Rectangle			
Length:		Skew Angle: 0°	
Upstream Treatment:	RB none	Downstream Treatment:	None
LB gabion bank			
Upstream Elevations:		Downstream Elevations:	
Invert	212.43	Invert	211.81
Obvert	214.59	Obvert	214.2
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 13, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	O'brien St	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	618744.3000m 5131864.6110m	Temporary Benchmark:	Elev.
Structure Shape:	Box Culvert	Structure Material:	Concrete
Sag Elevation:		Railing Height:	
		Railing Description:	
Opening Characteristics: Closed bottom		Pier Configuration:	
Length:		Skew Angle:	0°
Upstream Treatment:		Downstream Treatment:	None
	Concrete blocks		Concrete blocks
Upstream Elevations:		Downstream Elevations:	
Invert	214.26	Invert	214.12
Obvert	216.6	Obvert	216.4
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



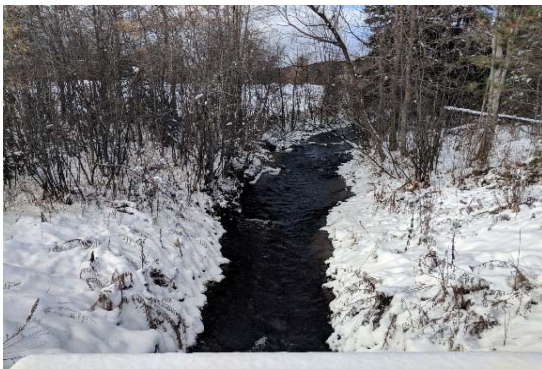
Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Survey Date:		November 13, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Milani Rd	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	618546.2180m 5132203.2180m	Temporary Benchmark:	Elev.
Structure Shape:	Box Culvert	Structure Material:	Concrete
Sag Elevation:		Railing Height:	0.7m
		Railing Description:	Guide rail
Opening Characteristics:	Closed bottom	Pier Configuration:	
Length:		Skew Angle:	0°
Upstream Treatment:	Concrete blocks	Downstream Treatment:	None
	Upstream Elevations:		Downstream Elevations:
Invert	222.72	Invert	222.39
Obvert	225.12	Obvert	224.82
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 13, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	Airport Rd	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	618448.8430m 5132457.3240m	Temporary Benchmark:	Elev.
Structure Shape: Box Culvert		Structure Material: Concrete	
Sag Elevation:		Railing Height:	.07m
		Railing Description:	Cable guiderail
Opening Characteristics: W 6.1m H 1.8m Closed Bottom		Pier Configuration:	
Length:		Skew Angle:	0°
Upstream Treatment:		Downstream Treatment:	None Concrete weir
Upstream Elevations:		Downstream Elevations:	
Invert	225.41	Invert	225.33
Obvert	227.25	Obvert	227.19
Top		Top	
Comments: Concrete weir 2m d/s of culvert			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 13, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Chippewa
Street Location:	O'Brien + Golf Club Rd	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	618866.318m 5132772.795m	Temporary Benchmark:	Elev.
Structure Shape:	Box culvert	Structure Material:	Concrete
Sag Elevation:		Railing Height:	1.25m
		Railing Description:	Concrete w/ steel rail
Opening Characteristics:		Pier Configuration:	
Open bottom			
Length:		Skew Angle:	0°
Upstream Treatment:		Downstream Treatment:	None
Wingwall mitered to slope		Wingwall mitered to slope	
Upstream Elevations:		Downstream Elevations:	
Invert	232.94	Invert	232.98
Obvert	235.37	Obvert	235.46
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Surveyor:		Eric Gazendam		Survey Date:	
Street Location:		Bain Dr		Watercourse:	
Structure ID:				Chippewa	
Coordinates:		619186.826m 5133162.817m		Municipality:	
Structure Shape:		Box Culvert		North Bay	
Sag Elevation:				Date of Construction:	
				Temporary Benchmark:	
				Elev.	
Structure Material:		Concrete		Railing Height:	
				1.3m	
Railing Description:		Concrete with steel rail		Pier Configuration:	
Opening Characteristics:		Rectangle			
Length:				Skew Angle:	
				0°	
Upstream Treatment:		Gabion banks		Downstream Treatment:	
				None	
Upstream Elevations:				Downstream Elevations:	
Invert		251.5		Invert	
Obvert		252.48		Obvert	
Top				Top	
Comments:					



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

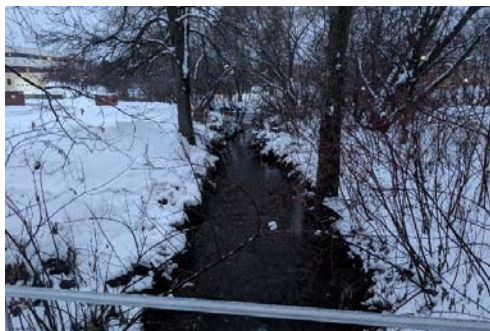
		Survey Date: November 12, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Johnson Cr.
Street Location:	Thomson Park	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619734.3300m 5130077.1820m	Temporary Benchmark:	Elev.
Structure Shape:	Pedestrian bridge	Structure Material:	Steel beam
Sag Elevation:		Railing Height:	0.9m
		Railing Description:	Steel
Opening Characteristics:	Trapezoid	Pier Configuration:	
Length:	1.4m	Skew Angle:	
Upstream Treatment:		Downstream Treatment:	
Upstream Elevations:		Downstream Elevations:	
Invert	202.33	Invert	202.3
Obvert	203.74	Obvert	203.79
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 2, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Johnson Cr.
Street Location:	Hwy 11	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619838.149m 5130134.445m	Temporary Benchmark:	Elev.
Structure Shape:	Box culvert	Structure Material:	Concrete
Sag Elevation:		Railing Height:	
		Railing Description:	
Opening Characteristics:	Rectangular	Pier Configuration:	
Length:		Skew Angle:	
Upstream Treatment:		Downstream Treatment:	
Upstream Elevations:		Downstream Elevations:	
Invert	202.5	Invert	202.43
Obvert	203.84	Obvert	203.69
Top		Top	
Comments: Second brass cap set in face of concrete SE corner			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Survey Date: November 13, 2018			
Surveyor:	Eric Gazendam	Watercourse:	Johnson Cr.
Street Location:	Northgate Shopping Centre	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	620040.729 5130363.282	Temporary Benchmark:	Elev.
Structure Shape:	Closed bottom box culvert	Structure Material:	Concrete
Sag Elevation:		Railing Height:	U/S 1.25m
		Railing Description:	Chain link fence
Opening Characteristics:	U/S - grate D/S - rectangular + grate	Pier Configuration:	
Length:		Skew Angle:	
Upstream Treatment:	Concrete block headwall	Downstream Treatment:	Concrete block headwall - banks
Upstream Elevations:		Downstream Elevations:	
Invert	202.99	Invert	202.5
Obvert	204.49	Obvert	203.98
Top	205.4	Top	204.17
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Survey Date:		November 14, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Johnson Cr.
Street Location:	Ontario Northland RR,	Municipality:	North Bay
Structure ID:	1015	Date of Construction:	
Coordinates:	620274.932 5130191.451	Temporary Benchmark:	Elev.
Structure Shape:	CSP 1.2m Circular	Structure Material:	Steel
Sag Elevation:		Railing Height:	
		Railing Description:	
Opening Characteristics:		Pier Configuration:	
Length:	30m	Skew Angle:	
Upstream Treatment:		Downstream Treatment:	
Upstream Elevations:		Downstream Elevations:	
Invert	203.86	Invert	203.59
Obvert	205.06	Obvert	204.76
Top		Top	
Comments: Weir 20m Upstream			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Surveyor: Eric Gazendam		Survey Date: November 14, 2018	
Street Location: Mud Lake Rd.		Watercourse: Johnson Cr.	
Structure ID:		Municipality: North Bay	
Coordinates:		Date of Construction:	
Structure Shape: 0.82m Ø concrete pipe		Temporary Benchmark: Elev.	
Sag Elevation:		Structure Material: Concrete	
Opening Characteristics: Countersunk		Railing Height:	
Length: 14m		Railing Description:	
Upstream Treatment:		Pier Configuration:	
Downstream Treatment:		Skew Angle: U/S - 10°, D/S - 0°	
Upstream Elevations:		Downstream Elevations:	
Invert	204.24	Invert	203.84
Obvert	204.91	Obvert	204.7
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 14, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Johnson Cr.
Street Location:	Wallace Rd. (North Bay Cycle	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	621226.107 5130897.146	Temporary Benchmark:	Elev.
Structure Shape:	1.7m CSP culvert	Structure Material:	Steel
Sag Elevation:		Railing Height:	
		Railing Description:	
Opening Characteristics:		Pier Configuration:	
Length:	12.5	Skew Angle:	
Upstream Treatment:		Downstream Treatment:	
Upstream Elevations:		Downstream Elevations:	
Invert	207.48	Invert	207.58
Obvert	209.22	Obvert	209.42
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Surveyor:		Eric Gazendam		Survey Date:		November 14, 2018	
Street Location:		Wallace Rd. (Old Plant)		Watercourse:		Johnson Cr.	
Structure ID:				Municipality:		North Bay	
Coordinates:		621251.785 5131010.509		Date of Construction:			
Structure Shape:		1.4m + 0.9m CSP pipes		Temporary Benchmark:		Elev.	
Sag Elevation:				Structure Material:		Steel	
Opening Characteristics:				Railing Height:			
				Railing Description:			
				Pier Configuration:			
Length:		20.5		Skew Angle:			
Upstream Treatment:				Downstream Treatment:			
Upstream Elevations:				Downstream Elevations:			
Invert	west 207.62	east 207.9		Invert	west 207.52	east 207.91	
Obvert	west 208.86	east 208.86		Obvert	west 208.47	east 208.58	
Top				Top			
Comments:							



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Survey Date:		November 14, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Johnson Cr.
Street Location:	Trout Lake Rd. Hwy 63	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	621301.9890m 5131335.6010m	Temporary Benchmark:	Elev.
Structure Shape:	Bridge	Structure Material:	Concrete
Sag Elevation:		Railing Height:	1.25m
		Railing Description:	1.25m concrete with steelrail + 0.8m guiderails
Opening Characteristics:	Trapezoid	Pier Configuration:	2 piers
Length:		Skew Angle:	40°
Upstream Treatment:		Downstream Treatment:	
Upstream Elevations:		Downstream Elevations:	
Invert	212.07	Invert	
Obvert	219.14	Obvert	219.9
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Surveyor:		Eric Gazendam	Survey Date:		#####
Street Location:		RR under Trout Lake Rd.	Watercourse:		Johnson Cr.
Structure ID:			Municipality:		North Bay
Coordinates:		621302.583 5131330.641	Date of Construction:		
Structure Shape:		CSP Culvert	Temporary Benchmark:		Elev.
Sag Elevation:			Railing Height:		
Opening Characteristics:		1.0m CSP + 1.8 m CSP	Railing Description:		
Length:		35.45	Pier Configuration:		
Upstream Treatment:		Gabion head wall	Skew Angle:		
			Downstream Treatment:		
Upstream Elevations:			Downstream Elevations:		
Invert	west 209.26	east 209.41	Invert	west 208.86	east 208.98
Obvert	west 210.69	east 210.42	Obvert	west 210.44	east 210.05
Top			Top		
Comments:					



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 14, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Johnson Cr.
Street Location:	Johntson Rd. to Norman	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:		Temporary Benchmark:	Elev.
Structure Shape:	U/S box culvert D/S round 1.78m	Structure Material:	Concrete
Sag Elevation:		Railing Height:	
		Railing Description:	
Opening Characteristics:	Countersunk	Pier Configuration:	
Length:		Skew Angle:	
Upstream Treatment:	Debris grate	Downstream Treatment:	
Upstream Elevations:		Downstream Elevations:	
Invert	211.17	Invert	209.7
Obvert	212.12	Obvert	211
Top	212.64	Top	211.63
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

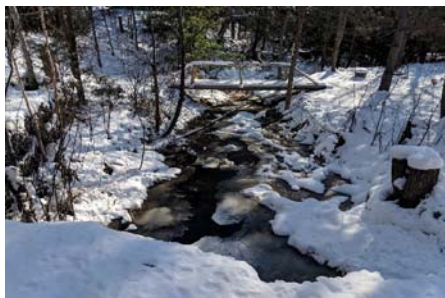
		Survey Date: November 14, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Johnson Cr.
Street Location:	Private Driveway	Municipality:	North Bay
Structure ID:	26 Kadi Street	Date of Construction:	
Coordinates:	621186.490 5131895.014	Temporary Benchmark:	Elev.
Structure Shape:	2 round culverts	Structure Material:	0.75m plastic and 1.1m CSP steel
Sag Elevation:		Railing Height:	
		Railing Description:	
Opening Characteristics:		Pier Configuration:	
Length:	6.3	Skew Angle:	
Upstream Treatment:		Downstream Treatment:	
Upstream Elevations:		Downstream Elevations:	
Invert	west 215.16 east 214.99	Invert	west 214.88 east 214.64
Obvert	west 215.91 east 216.11	Obvert	west 215.68 east 215.76
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

Surveyor:		Eric Gazendam		Survey Date:		November 14, 2018	
Street Location:		Trout Lake Rd		Watercourse:		Eastview Tributary	
Structure ID:				Municipality:		North Bay	
Coordinates:		619860.849m 5130627.49m		Date of Construction:			
Structure Shape:		Culvert		Temporary Benchmark:		Elev.	
Structure Material:		CSP Steel		Sag Elevation:			
Railing Height:				Railing Description:			
Opening Characteristics:		U/S Flattened Width 1.7m Height 1.07m		Pier Configuration:			
Length:				Skew Angle:			
Upstream Treatment:				Downstream Treatment:			
Upstream Elevations:				Downstream Elevations:			
Invert	205.82	Invert	204.96				
Obvert	206.94	Obvert	206.05				
Top		Top					
Comments:							



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 14, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Eastview Tributary
Street Location:	Bank St	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	619962.3220m 5130762.5740m	Temporary Benchmark:	Elev.
Structure Shape:		Structure Material:	CSP
Culvert mitered to slope			
Sag Elevation:		Railing Height:	.7m
		Railing Description:	Guiderail D/S only
Opening Characteristics:		Pier Configuration:	
2.0m Ø CSP			
Length:		Skew Angle:	
Upstream Treatment:		Downstream Treatment:	
Debris Grate		Gabion headwall	
Upstream Elevations:		Downstream Elevations:	
Invert	207.01	Invert	206.87
Obvert	208.96	Obvert	215.59
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 14, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Eastview Tributary
Street Location:	Pearson St	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:	620009.1740m 5130860.2470m	Temporary Benchmark:	Elev.
Structure Shape:		Structure Material:	CSP
Culvert mitered to slope		Railing Height:	
Sag Elevation:		Railing Description:	
Opening Characteristics:		Pier Configuration:	
Debris grate			
Length:		Skew Angle:	
Upstream Treatment:		Downstream Treatment:	
Sheetpile wingwall		Sheetpile wingwall	
Upstream Elevations:		Downstream Elevations:	
Invert	207.44	Invert	207.29
Obvert	209.45	Obvert	209.28
Top		Top	
Comments:			



Description: Looking u/s



Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face

Chippewa Cr. Structures Inventory

		Survey Date: November 14, 2018	
Surveyor:	Eric Gazendam	Watercourse:	Eastview Tributary
Street Location:	Laurentian Ave	Municipality:	North Bay
Structure ID:		Date of Construction:	
Coordinates:		Temporary Benchmark:	Elev.
Structure Shape:		Structure Material:	
D/S Ellipse	U/S Round	D/S Concrete	U/S CSP
Sag Elevation:		Railing Height:	
		Railing Description:	
Opening Characteristics:		Pier Configuration:	
D/S Width 2.1 Height 1.33 Upstream 2.0m Ø			
Length:		Skew Angle:	
Upstream Treatment:		Downstream Treatment:	
Debris grate - bevelled to slope		Wingwalls mitered to slope concrete dissipator pad	
Upstream Elevations:		Downstream Elevations:	
Invert	209.96	Invert	208.64
Obvert	212.22	Obvert	209.99
Top		Top	
Comments:			



Description: Looking u/s



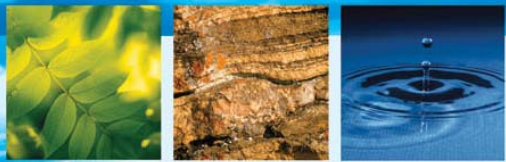
Description: Looking at u/s face



Description: Looking d/s



Description: Looking at d/s face



Fluvial Geomorphology

Natural Channel Design

Stream Restoration

Monitoring

Erosion Assessment

Sediment Transport

Visit our Website at www.watersedge-est.ca

APPENDIX E:

HEC-RAS Calibration Results Table

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	6571.411	25-Jul-77	3.1	333.64	333.88	333.87	333.95	0.052924	1.69	3.59	26.49	1.32
Johnson Creek	1	6571.411	15-Sep-78	2.4	333.64	333.85	333.85	333.91	0.053804	1.54	2.94	25.54	1.29
Johnson Creek	1	6571.411	29-Jul-86	2.3	333.64	333.85	333.85	333.91	0.055433	1.53	2.83	25.33	1.3
Johnson Creek	1	6571.411	10-Jun-89	2	333.64	333.84	333.84	333.89	0.060152	1.48	2.48	24.22	1.34
Johnson Creek	1	6571.411	18-May-90	1.9	333.64	333.83	333.83	333.89	0.06714	1.5	2.3	23.48	1.4
Johnson Creek	1	6571.411	27-Oct-91	1	333.64	333.78	333.78	333.82	0.098075	1.27	1.28	17.39	1.54
Johnson Creek	1	6561	25-Jul-77	3.1	330.87	331.12	331.39	332.37	0.539527	5.78	0.77	4.21	4.25
Johnson Creek	1	6561	15-Sep-78	2.4	330.87	331.08	331.31	332.4	0.740327	5.94	0.58	3.9	4.83
Johnson Creek	1	6561	29-Jul-86	2.3	330.87	331.07	331.3	332.36	0.743921	5.87	0.56	3.86	4.82
Johnson Creek	1	6561	10-Jun-89	2	330.87	331.06	331.26	332.25	0.762132	5.65	0.51	3.73	4.82
Johnson Creek	1	6561	18-May-90	1.9	330.87	331.06	331.25	332.15	0.703893	5.41	0.5	3.72	4.63
Johnson Creek	1	6561	27-Oct-91	1	330.87	331.31	331.15	331.34	0.005843	0.84	1.68	5.2	0.48
Johnson Creek	1	6552	25-Jul-77	3.1	331.01	331.45	331.33	331.49	0.015906	1.06	4.45	17.91	0.74
Johnson Creek	1	6552	15-Sep-78	2.4	331.01	331.42	331.27	331.44	0.014554	0.89	3.81	16.66	0.69
Johnson Creek	1	6552	29-Jul-86	2.3	331.01	331.41	331.23	331.43	0.014655	0.87	3.69	16.46	0.68
Johnson Creek	1	6552	10-Jun-89	2	331.01	331.38	331.2	331.41	0.015955	0.8	3.27	15.61	0.69
Johnson Creek	1	6552	18-May-90	1.9	331.01	331.37	331.2	331.4	0.016698	0.78	3.11	15.44	0.7
Johnson Creek	1	6552	27-Oct-91	1	331.01	331.23		331.25	0.023047	0.62	1.42	5.81	0.74
Johnson Creek	1	6544	25-Jul-77	3.1	330.55	331.2	331.16	331.28	0.044625	1.45	2.62	14.42	1.16
Johnson Creek	1	6544	15-Sep-78	2.4	330.55	331.1	331.06	331.21	0.070566	1.3	1.64	6.4	1.33
Johnson Creek	1	6544	29-Jul-86	2.3	330.55	331.09	331.04	331.2	0.071758	1.29	1.56	5.96	1.33
Johnson Creek	1	6544	10-Jun-89	2	330.55	331.06	330.97	331.16	0.068244	1.34	1.4	4.81	1.3
Johnson Creek	1	6544	18-May-90	1.9	330.55	331.03	330.95	331.14	0.067676	1.8	1.3	3.77	1.34
Johnson Creek	1	6544	27-Oct-91	1	330.55	330.84	330.78	330.94	0.071014	1.73	0.74	2.31	1.33
Johnson Creek	1	6537	25-Jul-77	3.1	330.46	330.94	330.74	330.99	0.038033	1.38	3.64	19.47	1.1
Johnson Creek	1	6537	15-Sep-78	2.4	330.46	330.88		330.93	0.025009	0.93	2.53	13.19	0.85
Johnson Creek	1	6537	29-Jul-86	2.3	330.46	330.87		330.92	0.024029	0.89	2.47	12.52	0.83
Johnson Creek	1	6537	10-Jun-89	2	330.46	330.85		330.89	0.023656	0.8	2.15	9.69	0.8
Johnson Creek	1	6537	18-May-90	1.9	330.46	330.85		330.89	0.021277	0.76	2.15	9.73	0.76
Johnson Creek	1	6537	27-Oct-91	1	330.46	330.72		330.74	0.01336	0.81	1.47	3.99	0.64
Johnson Creek	1	6528	25-Jul-77	3.1	330.06	330.64	330.64	330.73	0.022337	1.54	3.73	28.86	0.93
Johnson Creek	1	6528	15-Sep-78	2.4	330.06	330.59	330.59	330.68	0.027986	1.51	2.48	19.2	1
Johnson Creek	1	6528	29-Jul-86	2.3	330.06	330.58	330.58	330.67	0.029358	1.51	2.34	17.28	1.02
Johnson Creek	1	6528	10-Jun-89	2	330.06	330.57	330.57	330.65	0.028902	1.43	2.09	14.73	1
Johnson Creek	1	6528	18-May-90	1.9	330.06	330.55	330.55	330.64	0.03369	1.47	1.89	13.69	1.07
Johnson Creek	1	6528	27-Oct-91	1	330.06	330.49	330.49	330.55	0.034206	1.24	1.08	10.41	1.03
Johnson Creek	1	6520	25-Jul-77	3.1	330.15	330.42	330.32	330.44	0.018155	0.67	5.91	34.83	0.7
Johnson Creek	1	6520	15-Sep-78	2.4	330.15	330.39	330.29	330.41	0.017512	0.56	4.95	33.08	0.66
Johnson Creek	1	6520	29-Jul-86	2.3	330.15	330.39	330.28	330.4	0.01739	0.54	4.8	32.65	0.65
Johnson Creek	1	6520	10-Jun-89	2	330.15	330.37	330.26	330.39	0.016855	0.49	4.35	30.98	0.63
Johnson Creek	1	6520	18-May-90	1.9	330.15	330.37	330.26	330.38	0.016424	0.48	4.18	30.1	0.62
Johnson Creek	1	6520	27-Oct-91	1	330.15	330.3	330.18	330.31	0.016432	0.42	2.37	19.77	0.6
Johnson Creek	1	6512	25-Jul-77	3.1	330	330.09	330.07	330.13	0.100783	0.93	3.51	32.25	1.44
Johnson Creek	1	6512	15-Sep-78	2.4	330	330.06	330.05	330.1	0.107308	0.96	2.74	27.19	1.48
Johnson Creek	1	6512	29-Jul-86	2.3	330	330.06	330.04	330.1	0.107904	0.92	2.63	25.95	1.47
Johnson Creek	1	6512	10-Jun-89	2	330	330.04	330.03	330.08	0.112541	0.76	2.27	23.81	1.43
Johnson Creek	1	6512	18-May-90	1.9	330	330.04	330.03	330.08	0.119485	0.68	2.11	22.54	1.42
Johnson Creek	1	6512	27-Oct-91	1	330	329.99	329.97	330.02	0.098995		1.23	13.12	0
Johnson Creek	1	6503	25-Jul-77	3.1	329.53	329.73		329.75	0.023758	0.91	5.28	30.2	0.83
Johnson Creek	1	6503	15-Sep-78	2.4	329.53	329.7		329.71	0.023584	0.8	4.41	26.95	0.8
Johnson Creek	1	6503	29-Jul-86	2.3	329.53	329.69		329.71	0.023527	0.78	4.29	26.49	0.8
Johnson Creek	1	6503	10-Jun-89	2	329.53	329.68		329.69	0.023308	0.73	3.9	25.51	0.78
Johnson Creek	1	6503	18-May-90	1.9	329.53	329.67		329.69	0.02261	0.72	3.8	25.21	0.77
Johnson Creek	1	6503	27-Oct-91	1	329.53	329.6		329.61	0.026673	0.43	2.28	19.7	0.72
Johnson Creek	1	6476	25-Jul-77	3.1	329.24	329.37	329.22	329.37	0.008786	0.44	8.96	50.94	0.48
Johnson Creek	1	6476	15-Sep-78	2.4	329.24	329.34	329.2	329.34	0.008881	0.36	7.43	46.33	0.46
Johnson Creek	1	6476	29-Jul-86	2.3	329.24	329.33	329.19	329.34	0.008898	0.35	7.21	45.69	0.46
Johnson Creek	1	6476	10-Jun-89	2	329.24	329.31	329.17	329.32	0.009064	0.3	6.39	42.11	0.44
Johnson Creek	1	6476	18-May-90	1.9	329.24	329.31	329.17	329.31	0.009356	0.28	6.09	41.4	0.44

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	6476	27-Oct-91	1	329.24	329.25	329.12	329.26	0.007822	0.11	4.11	35.46	0.33
Johnson Creek	1	6456.486	25-Jul-77	3.1	328.74	328.87	328.87	328.92	0.154828	1.38	3.29	36.9	1.86
Johnson Creek	1	6456.486	15-Sep-78	2.4	328.74	328.86	328.86	328.9	0.133114	1.3	2.82	34.73	1.73
Johnson Creek	1	6456.486	29-Jul-86	2.3	328.74	328.85	328.85	328.89	0.128533	1.33	2.76	34.34	1.72
Johnson Creek	1	6456.486	10-Jun-89	2	328.74	328.85	328.85	328.88	0.106047	1.32	2.66	33.64	1.59
Johnson Creek	1	6456.486	18-May-90	1.9	328.74	328.85	328.85	328.88	0.095952	1.33	2.57	31.76	1.54
Johnson Creek	1	6456.486	27-Oct-91	1	328.74	328.79	328.79	328.83	0.179063	1.16	1.23	18.67	1.89
Johnson Creek	1	6428	25-Jul-77	3.1	328.11	328.43	328.22	328.43	0.001164	0.29	20.05	93.54	0.2
Johnson Creek	1	6428	15-Sep-78	2.4	328.11	328.4	328.2	328.4	0.001094	0.26	17.32	89.44	0.19
Johnson Creek	1	6428	29-Jul-86	2.3	328.11	328.39	328.2	328.39	0.001077	0.25	16.91	88.05	0.19
Johnson Creek	1	6428	10-Jun-89	2	328.11	328.38	328.2	328.38	0.001012	0.23	15.78	86.16	0.18
Johnson Creek	1	6428	18-May-90	1.9	328.11	328.37	328.2	328.37	0.001003	0.23	15.32	85.37	0.18
Johnson Creek	1	6428	27-Oct-91	1	328.11	328.32	328.17	328.32	0.000858	0.16	10.66	78.95	0.15
Johnson Creek	1	6370	25-Jul-77	3.1	328.06	328.19	328.19	328.23	0.042862	1.04	4.97	71.9	1.08
Johnson Creek	1	6370	15-Sep-78	2.4	328.06	328.18	328.18	328.21	0.041458	0.94	4.14	66.46	1.04
Johnson Creek	1	6370	29-Jul-86	2.3	328.06	328.17	328.17	328.2	0.041784	0.93	4	65.89	1.04
Johnson Creek	1	6370	10-Jun-89	2	328.06	328.16	328.16	328.2	0.048795	0.93	3.4	61.96	1.1
Johnson Creek	1	6370	18-May-90	1.9	328.06	328.16	328.16	328.19	0.046938	0.91	3.32	61.34	1.08
Johnson Creek	1	6370	27-Oct-91	1	328.06	328.14	328.14	328.16	0.049528	0.75	1.98	49.33	1.05
Johnson Creek	1	6328.961	25-Jul-77	3.1	327.17	327.51	327.43	327.53	0.008329	0.8	6.77	38.06	0.55
Johnson Creek	1	6328.961	15-Sep-78	2.4	327.17	327.48	327.39	327.5	0.007987	0.72	5.71	35.95	0.52
Johnson Creek	1	6328.961	29-Jul-86	2.3	327.17	327.48	327.4	327.49	0.007985	0.7	5.55	35.75	0.52
Johnson Creek	1	6328.961	10-Jun-89	2	327.17	327.46	327.39	327.48	0.007839	0.66	5.08	35.18	0.51
Johnson Creek	1	6328.961	18-May-90	1.9	327.17	327.46	327.37	327.47	0.007817	0.65	4.9	34.9	0.51
Johnson Creek	1	6328.961	27-Oct-91	1	327.17	327.4	327.33	327.41	0.007141	0.51	3.18	30.31	0.46
Johnson Creek	1	6290	25-Jul-77	3.1	326.93	327.23		327.24	0.006628	0.66	9.73	67.76	0.47
Johnson Creek	1	6290	15-Sep-78	2.4	326.93	327.2		327.21	0.006994	0.62	7.77	62.56	0.47
Johnson Creek	1	6290	29-Jul-86	2.3	326.93	327.2		327.2	0.00694	0.61	7.53	61.23	0.47
Johnson Creek	1	6290	10-Jun-89	2	326.93	327.18		327.19	0.007077	0.58	6.7	56.45	0.47
Johnson Creek	1	6290	18-May-90	1.9	326.93	327.18		327.18	0.007102	0.57	6.43	54.33	0.47
Johnson Creek	1	6290	27-Oct-91	1	326.93	327.12		327.13	0.007579	0.49	3.91	40.42	0.46
Johnson Creek	1	6252	25-Jul-77	3.1	326.66	326.94		326.95	0.008825	0.73	8.87	54.29	0.54
Johnson Creek	1	6252	15-Sep-78	2.4	326.66	326.91		326.92	0.008402	0.65	7.33	49.89	0.51
Johnson Creek	1	6252	29-Jul-86	2.3	326.66	326.91		326.92	0.008382	0.64	7.11	49.12	0.51
Johnson Creek	1	6252	10-Jun-89	2	326.66	326.9		326.9	0.008185	0.6	6.45	46.72	0.5
Johnson Creek	1	6252	18-May-90	1.9	326.66	326.89		326.9	0.008159	0.59	6.21	45.75	0.5
Johnson Creek	1	6252	27-Oct-91	1	326.66	326.83		326.84	0.007889	0.44	3.83	35.79	0.46
Johnson Creek	1	6210.316	25-Jul-77	3.1	326.52	326.57		326.58	0.008883	0.23	9.69	74.94	0.41
Johnson Creek	1	6210.316	15-Sep-78	2.4	326.52	326.54		326.55	0.009465	0.11	7.53	60.19	0.35
Johnson Creek	1	6210.316	29-Jul-86	2.3	326.52	326.53		326.54	0.009477	0.09	7.25	57.39	0.33
Johnson Creek	1	6210.316	10-Jun-89	2	326.52	326.52	326.38	326.52	0.00985		6.34	50.62	0
Johnson Creek	1	6210.316	18-May-90	1.9	326.52	326.51		326.52	0.009902		6.06	48.85	0
Johnson Creek	1	6210.316	27-Oct-91	1	326.52	326.44	326.33	326.44	0.01122		3.2	29.46	0
Johnson Creek	1	6180	25-Jul-77	3.1	326.18	326.31	326.16	326.32	0.008246	0.35	9.56	58.15	0.44
Johnson Creek	1	6180	15-Sep-78	2.4	326.18	326.29	326.14	326.3	0.007297	0.4	8.3	52.1	0.43
Johnson Creek	1	6180	29-Jul-86	2.3	326.18	326.29	326.14	326.29	0.007144	0.38	8.12	51.45	0.43
Johnson Creek	1	6180	10-Jun-89	2	326.18	326.28	326.13	326.28	0.006621	0.35	7.57	49.41	0.41
Johnson Creek	1	6180	18-May-90	1.9	326.18	326.27	326.13	326.28	0.006568	0.33	7.34	48.4	0.4
Johnson Creek	1	6180	27-Oct-91	1	326.18	326.21	326.08	326.21	0.00539	0.14	4.71	37.73	0.3
Johnson Creek	1	6157	25-Jul-77	3.1	326.02	325.92		325.94	0.049251		5.53	54.12	0
Johnson Creek	1	6157	15-Sep-78	2.4	326.02	325.89		325.91	0.072703		3.98	45.75	0
Johnson Creek	1	6157	29-Jul-86	2.3	326.02	325.89		325.91	0.07794		3.77	44.62	0
Johnson Creek	1	6157	10-Jun-89	2	326.02	325.87		325.89	0.104557		3	39.87	0
Johnson Creek	1	6157	18-May-90	1.9	326.02	325.87		325.89	0.109585		2.83	38.75	0
Johnson Creek	1	6157	27-Oct-91	1	326.02	325.82	325.82	325.85	0.191707		1.4	26.91	0
Johnson Creek	1	6131.63	25-Jul-77	3.1	325.77	325.72		325.72	0.003339		16.96	104.83	0
Johnson Creek	1	6131.63	15-Sep-78	2.4	325.77	325.69		325.7	0.00294		14.67	96.69	0
Johnson Creek	1	6131.63	29-Jul-86	2.3	325.77	325.69		325.69	0.002893		14.3	95.29	0

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	6131.63	10-Jun-89	2	325.77	325.68		325.68	0.002685		13.24	91.7	0
Johnson Creek	1	6131.63	18-May-90	1.9	325.77	325.67		325.67	0.002687		12.74	89.94	0
Johnson Creek	1	6131.63	27-Oct-91	1	325.77	325.62	325.49	325.62	0.002081		8.66	74.17	0
Johnson Creek	1	6108	25-Jul-77	3.1	325.41	325.55		325.57	0.018701	0.56	5.52	79.12	0.68
Johnson Creek	1	6108	15-Sep-78	2.4	325.41	325.53		325.55	0.020679	0.55	4.39	70.54	0.7
Johnson Creek	1	6108	29-Jul-86	2.3	325.41	325.53		325.55	0.021364	0.55	4.2	69	0.71
Johnson Creek	1	6108	10-Jun-89	2	325.41	325.52		325.54	0.022148	0.54	3.73	65.03	0.71
Johnson Creek	1	6108	18-May-90	1.9	325.41	325.52		325.54	0.022354	0.53	3.58	63.68	0.72
Johnson Creek	1	6108	27-Oct-91	1	325.41	325.5		325.51	0.022202	0.45	2.22	50.12	0.69
Johnson Creek	1	6080	25-Jul-77	3.1	325.28	325.37		325.38	0.003298	0.17	17.18	127.25	0.26
Johnson Creek	1	6080	15-Sep-78	2.4	325.28	325.35		325.35	0.003493	0.13	13.8	112.09	0.25
Johnson Creek	1	6080	29-Jul-86	2.3	325.28	325.34		325.34	0.003525	0.13	13.33	110.02	0.25
Johnson Creek	1	6080	10-Jun-89	2	325.28	325.33		325.33	0.003663	0.11	11.76	103.07	0.24
Johnson Creek	1	6080	18-May-90	1.9	325.28	325.32		325.32	0.003701	0.11	11.26	100.48	0.24
Johnson Creek	1	6080	27-Oct-91	1	325.28	325.26		325.27	0.004546		6.38	70.22	0
Johnson Creek	1	6047	25-Jul-77	3.1	325.16	325.24		325.24	0.005307	0.27	12.05	77.83	0.35
Johnson Creek	1	6047	15-Sep-78	2.4	325.16	325.21		325.21	0.005234	0.17	9.76	67.79	0.31
Johnson Creek	1	6047	29-Jul-86	2.3	325.16	325.2		325.21	0.005124	0.15	9.52	66.96	0.3
Johnson Creek	1	6047	10-Jun-89	2	325.16	325.19		325.19	0.005113	0.1	8.44	60.98	0.27
Johnson Creek	1	6047	18-May-90	1.9	325.16	325.18		325.18	0.005099	0.08	8.11	59.05	0.26
Johnson Creek	1	6047	27-Oct-91	1	325.16	325.12		325.12	0.004249		5.23	42.41	0
Johnson Creek	1	6015	25-Jul-77	3.1	324.8	325.1		325.1	0.003635	0.47	13.12	73.79	0.35
Johnson Creek	1	6015	15-Sep-78	2.4	324.8	325.07		325.07	0.003771	0.43	10.81	69.09	0.35
Johnson Creek	1	6015	29-Jul-86	2.3	324.8	325.06		325.06	0.003852	0.43	10.41	68.39	0.35
Johnson Creek	1	6015	10-Jun-89	2	324.8	325.04		325.05	0.003917	0.41	9.32	64.73	0.35
Johnson Creek	1	6015	18-May-90	1.9	324.8	325.04		325.04	0.003932	0.4	8.96	63.4	0.35
Johnson Creek	1	6015	27-Oct-91	1	324.8	324.97		324.97	0.005385	0.32	5.07	50.98	0.37
Johnson Creek	1	5982	25-Jul-77	3.1	324.63	325.02		325.02	0.001581	0.38	18.53	87.38	0.24
Johnson Creek	1	5982	15-Sep-78	2.4	324.63	324.99		324.99	0.001425	0.33	16.06	82.59	0.22
Johnson Creek	1	5982	29-Jul-86	2.3	324.63	324.99		324.99	0.001394	0.32	15.66	82.11	0.22
Johnson Creek	1	5982	10-Jun-89	2	324.63	324.97		324.97	0.00142	0.31	14.15	78.45	0.22
Johnson Creek	1	5982	18-May-90	1.9	324.63	324.97		324.97	0.001324	0.3	13.99	78.17	0.21
Johnson Creek	1	5982	27-Oct-91	1	324.63	324.87		324.87	0.001821	0.31	7.37	56.75	0.24
Johnson Creek	1	5954	25-Jul-77	3.1	324.55	324.96		324.97	0.002419	0.58	13.56	63.1	0.32
Johnson Creek	1	5954	15-Sep-78	2.4	324.55	324.94		324.95	0.001891	0.49	12.35	60.6	0.28
Johnson Creek	1	5954	29-Jul-86	2.3	324.55	324.94		324.94	0.001822	0.48	12.15	60.18	0.27
Johnson Creek	1	5954	10-Jun-89	2	324.55	324.92		324.93	0.001788	0.46	11.08	55.82	0.27
Johnson Creek	1	5954	18-May-90	1.9	324.55	324.93		324.93	0.001553	0.43	11.24	56.25	0.25
Johnson Creek	1	5954	27-Oct-91	1	324.55	324.81		324.82	0.002367	0.39	5.71	40.74	0.28
Johnson Creek	1	5930	25-Jul-77	3.1	324.51	324.93		324.93	0.000978	0.4	22.86	126.61	0.21
Johnson Creek	1	5930	15-Sep-78	2.4	324.51	324.92		324.92	0.000664	0.32	21.58	122.19	0.17
Johnson Creek	1	5930	29-Jul-86	2.3	324.51	324.92		324.92	0.000626	0.31	21.32	121.26	0.16
Johnson Creek	1	5930	10-Jun-89	2	324.51	324.9		324.9	0.000614	0.3	19.18	115.06	0.16
Johnson Creek	1	5930	18-May-90	1.9	324.51	324.91		324.91	0.000503	0.28	19.96	116.92	0.15
Johnson Creek	1	5930	27-Oct-91	1	324.51	324.66	324.65	324.68	0.031857	0.99	2.48	37.43	0.95
Johnson Creek	1	5901	25-Jul-77	3.1	323.78	324.93		324.93	0.000055	0.17	68.21	200.29	0.05
Johnson Creek	1	5901	15-Sep-78	2.4	323.78	324.92		324.92	0.000035	0.14	66.38	197.4	0.04
Johnson Creek	1	5901	29-Jul-86	2.3	323.78	324.92		324.92	0.000033	0.13	66	196.94	0.04
Johnson Creek	1	5901	10-Jun-89	2	323.78	324.9		324.9	0.000029	0.12	62.5	192.99	0.04
Johnson Creek	1	5901	18-May-90	1.9	323.78	324.91		324.91	0.000025	0.11	63.84	194.45	0.04
Johnson Creek	1	5901	27-Oct-91	1	323.78	324.3		324.33	0.006044	0.92	2.06	18.24	0.48
Johnson Creek	1	5873	25-Jul-77	3.1	323.55	324.93		324.93	0.000007	0.07	147.1	258.37	0.02
Johnson Creek	1	5873	15-Sep-78	2.4	323.55	324.92		324.92	0.000004	0.06	144.73	257.69	0.02
Johnson Creek	1	5873	29-Jul-86	2.3	323.55	324.92		324.92	0.000004	0.06	144.24	257.55	0.02
Johnson Creek	1	5873	10-Jun-89	2	323.55	324.9		324.9	0.000003	0.05	139.63	256.17	0.01
Johnson Creek	1	5873	18-May-90	1.9	323.55	324.91		324.91	0.000003	0.05	141.42	256.75	0.01
Johnson Creek	1	5873	27-Oct-91	1	323.55	324.32		324.32	0.000031	0.1	28.32	90.26	0.04
Johnson Creek	1	5845	25-Jul-77	3.1	323.46	324.93		324.93	0.000005	0.06	160.57	243.47	0.02

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	5845	15-Sep-78	2.4	323.46	324.92		324.92	0.000003	0.05	158.35	243.29	0.01
Johnson Creek	1	5845	29-Jul-86	2.3	323.46	324.92		324.92	0.000003	0.05	157.88	243.25	0.01
Johnson Creek	1	5845	10-Jun-89	2	323.46	324.9		324.9	0.000002	0.04	153.53	242.88	0.01
Johnson Creek	1	5845	18-May-90	1.9	323.46	324.91		324.91	0.000002	0.04	155.23	243.02	0.01
Johnson Creek	1	5845	27-Oct-91	1	323.46	324.32		324.32	0.000025	0.1	33.2	136.25	0.04
Johnson Creek	1	5843	25-Jul-77	3.1	323.4	324.93	323.72	324.93	0.000002	0.05	211.74	274.03	0.01
Johnson Creek	1	5843	15-Sep-78	2.4	323.4	324.92	323.69	324.92	0.000001	0.04	209.26	273.34	0.01
Johnson Creek	1	5843	29-Jul-86	2.3	323.4	324.92	323.68	324.92	0.000001	0.04	208.73	273.19	0.01
Johnson Creek	1	5843	10-Jun-89	2	323.4	324.9	323.68	324.9	0.000001	0.03	203.85	272.14	0.01
Johnson Creek	1	5843	18-May-90	1.9	323.4	324.91	323.67	324.91	0.000001	0.03	205.75	272.47	0.01
Johnson Creek	1	5843	27-Oct-91	1	323.4	324.32	323.62	324.32	0.000006	0.05	64.54	204.95	0.02
Johnson Creek	1	5834.043		Culvert									
Johnson Creek	1	5824	25-Jul-77	3.1	323.31	323.8		323.8	0.000515	0.31	23.37	80.45	0.15
Johnson Creek	1	5824	15-Sep-78	2.4	323.31	323.76		323.77	0.000421	0.26	20.71	77.61	0.13
Johnson Creek	1	5824	29-Jul-86	2.3	323.31	323.76		323.76	0.00041	0.26	20.27	77.08	0.13
Johnson Creek	1	5824	10-Jun-89	2	323.31	323.74		323.74	0.00038	0.24	18.84	76.05	0.13
Johnson Creek	1	5824	18-May-90	1.9	323.31	323.73		323.74	0.000367	0.23	18.38	75.72	0.12
Johnson Creek	1	5824	27-Oct-91	1	323.31	323.66		323.67	0.000239	0.16	13.38	66.51	0.1
Johnson Creek	1	5820	25-Jul-77	3.1	323.35	323.79		323.79	0.003062	0.64	11.52	60.35	0.35
Johnson Creek	1	5820	15-Sep-78	2.4	323.35	323.75		323.76	0.002863	0.58	9.7	54.81	0.33
Johnson Creek	1	5820	29-Jul-86	2.3	323.35	323.75		323.76	0.002856	0.57	9.4	54.19	0.33
Johnson Creek	1	5820	10-Jun-89	2	323.35	323.73		323.74	0.002735	0.54	8.46	51.13	0.32
Johnson Creek	1	5820	18-May-90	1.9	323.35	323.72		323.73	0.002714	0.53	8.16	49.99	0.32
Johnson Creek	1	5820	27-Oct-91	1	323.35	323.66		323.66	0.002468	0.42	5.16	41.17	0.29
Johnson Creek	1	5776	25-Jul-77	3.1	323.06	323.56		323.59	0.00799	1.01	6.76	47.92	0.55
Johnson Creek	1	5776	15-Sep-78	2.4	323.06	323.51		323.55	0.009699	1.02	4.75	40.29	0.6
Johnson Creek	1	5776	29-Jul-86	2.3	323.06	323.5		323.54	0.009939	1.01	4.46	37.32	0.6
Johnson Creek	1	5776	10-Jun-89	2	323.06	323.48		323.52	0.01138	1.03	3.62	30.72	0.64
Johnson Creek	1	5776	18-May-90	1.9	323.06	323.47		323.51	0.011799	1.02	3.38	28.1	0.64
Johnson Creek	1	5776	27-Oct-91	1	323.06	323.38	323.37	323.42	0.020032	1.01	1.42	16.21	0.79
Johnson Creek	1	5737.103	25-Jul-77	3.1	322.58	323.18	323.05	323.25	0.009093	1.26	3.07	15.36	0.61
Johnson Creek	1	5737.103	15-Sep-78	2.4	322.58	323.12	322.99	323.18	0.008962	1.16	2.3	10.19	0.6
Johnson Creek	1	5737.103	29-Jul-86	2.3	322.58	323.11	322.98	323.17	0.008882	1.14	2.21	8.73	0.59
Johnson Creek	1	5737.103	10-Jun-89	2	322.58	323.08	322.95	323.13	0.008527	1.08	1.97	7.66	0.58
Johnson Creek	1	5737.103	18-May-90	1.9	322.58	323.06	322.94	323.12	0.008426	1.06	1.89	7.3	0.57
Johnson Creek	1	5737.103	27-Oct-91	1	322.58	322.95		322.98	0.007265	0.83	1.22	4.89	0.51
Johnson Creek	1	5707	25-Jul-77	3.1	322.36	322.8	322.77	322.89	0.01714	1.45	3	13.59	0.83
Johnson Creek	1	5707	15-Sep-78	2.4	322.36	322.76		322.83	0.015582	1.28	2.55	12.72	0.77
Johnson Creek	1	5707	29-Jul-86	2.3	322.36	322.76		322.83	0.01542	1.25	2.48	12.64	0.77
Johnson Creek	1	5707	10-Jun-89	2	322.36	322.74		322.8	0.015173	1.18	2.24	12.32	0.75
Johnson Creek	1	5707	18-May-90	1.9	322.36	322.73		322.79	0.014977	1.16	2.17	12.22	0.74
Johnson Creek	1	5707	27-Oct-91	1	322.36	322.67		322.7	0.012611	0.87	1.42	10.7	0.65
Johnson Creek	1	5671	25-Jul-77	3.1	322.35	322.62		322.63	0.003373	0.38	11.9	47.63	0.32
Johnson Creek	1	5671	15-Sep-78	2.4	322.35	322.58		322.59	0.003322	0.32	10.07	46.23	0.31
Johnson Creek	1	5671	29-Jul-86	2.3	322.35	322.58		322.58	0.003311	0.31	9.8	45.84	0.31
Johnson Creek	1	5671	10-Jun-89	2	322.35	322.56		322.56	0.003248	0.31	8.93	44.23	0.3
Johnson Creek	1	5671	18-May-90	1.9	322.35	322.55		322.55	0.003258	0.32	8.6	43.47	0.3
Johnson Creek	1	5671	27-Oct-91	1	322.35	322.48		322.48	0.003377	0.22	5.54	37.7	0.28
Johnson Creek	1	5629.119	25-Jul-77	3.1	322.11	322.36	322.23	322.37	0.015242	0.74	6.95	37.84	0.66
Johnson Creek	1	5629.119	15-Sep-78	2.4	322.11	322.33	322.21	322.34	0.013819	0.69	5.93	35.57	0.63
Johnson Creek	1	5629.119	29-Jul-86	2.3	322.11	322.32	322.21	322.33	0.013646	0.69	5.78	35.3	0.62
Johnson Creek	1	5629.119	10-Jun-89	2	322.11	322.31	322.2	322.32	0.012899	0.66	5.34	34.42	0.6
Johnson Creek	1	5629.119	18-May-90	1.9	322.11	322.31	322.19	322.31	0.012628	0.65	5.17	34.05	0.6
Johnson Creek	1	5629.119	27-Oct-91	1	322.11	322.26	322.16	322.26	0.009161	0.44	3.62	29.66	0.48
Johnson Creek	1	5596	25-Jul-77	3.1	321.56	321.7		321.72	0.027043	0.64	5.82	39.83	0.76
Johnson Creek	1	5596	15-Sep-78	2.4	321.56	321.67		321.68	0.031693	0.57	4.5	33.12	0.78
Johnson Creek	1	5596	29-Jul-86	2.3	321.56	321.66		321.67	0.032596	0.55	4.27	32.16	0.79
Johnson Creek	1	5596	10-Jun-89	2	321.56	321.64		321.66	0.036274	0.51	3.72	30.19	0.8

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	5596	18-May-90	1.9	321.56	321.64		321.65	0.037979	0.49	3.53	29.58	0.81
Johnson Creek	1	5596	27-Oct-91	1	321.56	321.56		321.58	0.086166		1.66	21.39	0
Johnson Creek	1	5556.337	25-Jul-77	3.1	321.21	321.5		321.5	0.002142	0.22	16.85	89.09	0.23
Johnson Creek	1	5556.337	15-Sep-78	2.4	321.21	321.47		321.47	0.002015	0.2	13.89	80.21	0.22
Johnson Creek	1	5556.337	29-Jul-86	2.3	321.21	321.46		321.46	0.001995	0.2	13.48	78.81	0.22
Johnson Creek	1	5556.337	10-Jun-89	2	321.21	321.45		321.45	0.001939	0.2	12.17	73.66	0.21
Johnson Creek	1	5556.337	18-May-90	1.9	321.21	321.44		321.44	0.001916	0.2	11.73	71.81	0.21
Johnson Creek	1	5556.337	27-Oct-91	1	321.21	321.37		321.37	0.001616	0.2	7.64	51.47	0.2
Johnson Creek	1	5416.916	25-Jul-77	3.1	320.79	320.98		321.01	0.012617	0.72	4.47	34.34	0.62
Johnson Creek	1	5416.916	15-Sep-78	2.4	320.79	320.96		320.98	0.013694	0.67	3.71	34.12	0.63
Johnson Creek	1	5416.916	29-Jul-86	2.3	320.79	320.96		320.98	0.013972	0.66	3.59	34.02	0.63
Johnson Creek	1	5416.916	10-Jun-89	2	320.79	320.95		320.97	0.014424	0.63	3.26	33.76	0.63
Johnson Creek	1	5416.916	18-May-90	1.9	320.79	320.94		320.96	0.014783	0.62	3.13	33.7	0.64
Johnson Creek	1	5416.916	27-Oct-91	1	320.79	320.91	320.89	320.92	0.019942	0.53	1.92	32.54	0.68
Johnson Creek	1	5376	25-Jul-77	3.1	320.31	320.61		320.62	0.007178	0.76	8.53	52.41	0.5
Johnson Creek	1	5376	15-Sep-78	2.4	320.31	320.58		320.59	0.006942	0.69	7	44.22	0.49
Johnson Creek	1	5376	29-Jul-86	2.3	320.31	320.58		320.59	0.006918	0.68	6.76	42.75	0.48
Johnson Creek	1	5376	10-Jun-89	2	320.31	320.56		320.57	0.006979	0.64	6.03	38.5	0.48
Johnson Creek	1	5376	18-May-90	1.9	320.31	320.55		320.56	0.006947	0.63	5.8	37.95	0.48
Johnson Creek	1	5376	27-Oct-91	1	320.31	320.48		320.49	0.006472	0.49	3.48	24.3	0.44
Johnson Creek	1	5333	25-Jul-77	3.1	319.9	320.39		320.4	0.00395	0.5	10.33	56.93	0.36
Johnson Creek	1	5333	15-Sep-78	2.4	319.9	320.36		320.36	0.004057	0.47	8.51	54.63	0.36
Johnson Creek	1	5333	29-Jul-86	2.3	319.9	320.35		320.36	0.004025	0.47	8.27	54.24	0.36
Johnson Creek	1	5333	10-Jun-89	2	319.9	320.33		320.34	0.004086	0.47	7.2	50.9	0.36
Johnson Creek	1	5333	18-May-90	1.9	319.9	320.33		320.33	0.004063	0.46	6.89	49.44	0.36
Johnson Creek	1	5333	27-Oct-91	1	319.9	320.26		320.26	0.004211	0.42	3.95	39.35	0.36
Johnson Creek	1	5272.002	25-Jul-77	3.1	319.69	320.21		320.22	0.002345	0.65	12.81	46.21	0.31
Johnson Creek	1	5272.002	15-Sep-78	2.4	319.69	320.15		320.15	0.003049	0.66	9.85	44.84	0.34
Johnson Creek	1	5272.002	29-Jul-86	2.3	319.69	320.14		320.15	0.003116	0.66	9.51	44.64	0.35
Johnson Creek	1	5272.002	10-Jun-89	2	319.69	320.12		320.12	0.003066	0.63	8.62	43.68	0.34
Johnson Creek	1	5272.002	18-May-90	1.9	319.69	320.11		320.12	0.003153	0.63	8.25	43.2	0.34
Johnson Creek	1	5272.002	27-Oct-91	1	319.69	320.02		320.03	0.003715	0.58	4.64	35.01	0.36
Johnson Creek	1	5248	25-Jul-77	3.1	319.65	320.17		320.18	0.001115	0.49	15.85	44.01	0.23
Johnson Creek	1	5248	15-Sep-78	2.4	319.65	320.1		320.1	0.001315	0.48	12.67	42.78	0.24
Johnson Creek	1	5248	29-Jul-86	2.3	319.65	320.09		320.1	0.00131	0.47	12.33	42.63	0.24
Johnson Creek	1	5248	10-Jun-89	2	319.65	320.08		320.08	0.001191	0.44	11.6	42.3	0.23
Johnson Creek	1	5248	18-May-90	1.9	319.65	320.07		320.07	0.00119	0.43	11.22	42.15	0.23
Johnson Creek	1	5248	27-Oct-91	1	319.65	319.98		319.98	0.000987	0.33	7.65	38.97	0.2
Johnson Creek	1	5223	25-Jul-77	3.1	319.67	320.11		320.12	0.008164	0.84	7.51	29.56	0.54
Johnson Creek	1	5223	15-Sep-78	2.4	319.67	320		320.02	0.019901	1.26	4.52	25.07	0.83
Johnson Creek	1	5223	29-Jul-86	2.3	319.67	319.99		320.01	0.021227	1.28	4.29	24.5	0.85
Johnson Creek	1	5223	10-Jun-89	2	319.67	319.99		320.01	0.015942	1.11	4.3	24.52	0.74
Johnson Creek	1	5223	18-May-90	1.9	319.67	319.97		319.99	0.018601	1.17	3.94	23.77	0.79
Johnson Creek	1	5223	27-Oct-91	1	319.67	319.9	319.85	319.91	0.022007	1.07	2.25	18.8	0.83
Johnson Creek	1	5200	25-Jul-77	3.1	318.6	319.15	319.15	319.59	0.161273	4.19	1.31	6.04	2.16
Johnson Creek	1	5200	15-Sep-78	2.4	318.6	319.27	319.27	319.38	0.041555	2.23	2.28	9.56	1.12
Johnson Creek	1	5200	29-Jul-86	2.3	318.6	319.27	319.27	319.37	0.038185	2.13	2.28	9.56	1.07
Johnson Creek	1	5200	10-Jun-89	2	318.6	319.14	319.14	319.33	0.069692	2.75	1.29	5.99	1.42
Johnson Creek	1	5200	18-May-90	1.9	318.6	319.16	319.16	319.31	0.055193	2.47	1.38	6.17	1.27
Johnson Creek	1	5200	27-Oct-91	1	318.6	319.01	319.01	319.13	0.059383	2.18	0.76	3.13	1.31
Johnson Creek	1	5181	25-Jul-77	3.1	318.01	318.6	318.32	318.63	0.005036	1.01	6	14.63	0.48
Johnson Creek	1	5181	15-Sep-78	2.4	318.01	318.54	318.28	318.56	0.004856	0.9	5.1	14.09	0.46
Johnson Creek	1	5181	29-Jul-86	2.3	318.01	318.53	318.27	318.55	0.004768	0.88	4.99	14.05	0.45
Johnson Creek	1	5181	10-Jun-89	2	318.01	318.5	318.25	318.52	0.004718	0.83	4.55	13.89	0.44
Johnson Creek	1	5181	18-May-90	1.9	318.01	318.49	318.25	318.51	0.004696	0.81	4.4	13.82	0.44
Johnson Creek	1	5181	27-Oct-91	1	318.01	318.37	318.18	318.38	0.004925	0.62	2.75	12.04	0.42
Johnson Creek	1	5159.736	25-Jul-77	3.1	317.6	318.32	318.31	318.44	0.018757	1.94	3.56	16.2	0.86
Johnson Creek	1	5159.736	15-Sep-78	2.4	317.6	318.27	318.27	318.38	0.017288	1.75	2.91	14	0.81

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	5159.736	29-Jul-86	2.3	317.6	318.26	318.26	318.37	0.017721	1.75	2.77	13.76	0.82
Johnson Creek	1	5159.736	10-Jun-89	2	317.6	318.24	318.24	318.34	0.01676	1.66	2.51	13.3	0.79
Johnson Creek	1	5159.736	18-May-90	1.9	317.6	318.24	318.24	318.33	0.016494	1.62	2.41	13.13	0.78
Johnson Creek	1	5159.736	27-Oct-91	1	317.6	318.11	318.08	318.19	0.017215	1.4	1.12	6.68	0.77
Johnson Creek	1	5139	25-Jul-77	3.1	317.3	317.99		318.07	0.016021	1.72	3.88	15.59	0.81
Johnson Creek	1	5139	15-Sep-78	2.4	317.3	317.93	317.84	318	0.016834	1.6	2.98	13.57	0.81
Johnson Creek	1	5139	29-Jul-86	2.3	317.3	317.92	317.83	317.99	0.016831	1.58	2.87	13.34	0.81
Johnson Creek	1	5139	10-Jun-89	2	317.3	317.89	317.79	317.96	0.017668	1.53	2.46	12.62	0.82
Johnson Creek	1	5139	18-May-90	1.9	317.3	317.88	317.77	317.94	0.017827	1.5	2.33	12.34	0.82
Johnson Creek	1	5139	27-Oct-91	1	317.3	317.75		317.8	0.02037	1.19	1.25	5.08	0.81
Johnson Creek	1	5112	25-Jul-77	3.1	317.01	317.62		317.64	0.014663	0.98	4.79	16.57	0.69
Johnson Creek	1	5112	15-Sep-78	2.4	317.01	317.54		317.56	0.014888	0.75	3.57	13.98	0.64
Johnson Creek	1	5112	29-Jul-86	2.3	317.01	317.53		317.55	0.014968	0.72	3.43	13.04	0.64
Johnson Creek	1	5112	10-Jun-89	2	317.01	317.48		317.51	0.014909	0.6	2.94	9.21	0.61
Johnson Creek	1	5112	18-May-90	1.9	317.01	317.47		317.5	0.014813	0.57	2.84	8.82	0.6
Johnson Creek	1	5112	27-Oct-91	1	317.01	317.32		317.33	0.014133	0.68	1.77	5.83	0.53
Johnson Creek	1	5084.809	25-Jul-77	3.1	316.51	317.11	317.08	317.23	0.014379	1.71	2.92	10.18	0.79
Johnson Creek	1	5084.809	15-Sep-78	2.4	316.51	317.06	317.03	317.16	0.013713	1.55	2.4	9.53	0.75
Johnson Creek	1	5084.809	29-Jul-86	2.3	316.51	317.05	317.02	317.15	0.013615	1.52	2.33	9.48	0.75
Johnson Creek	1	5084.809	10-Jun-89	2	316.51	317.03	317	317.12	0.013102	1.44	2.1	9.33	0.73
Johnson Creek	1	5084.809	18-May-90	1.9	316.51	317.02	316.99	317.11	0.012979	1.41	2.02	9.27	0.72
Johnson Creek	1	5084.809	27-Oct-91	1	316.51	316.92		316.97	0.012063	1.1	1.14	6.85	0.66
Johnson Creek	1	5066	25-Jul-77	3.1	317.11	316.91		316.93	0.01457		4.72	12.29	0
Johnson Creek	1	5066	15-Sep-78	2.4	317.11	316.84		316.86	0.015178		3.97	12.09	0
Johnson Creek	1	5066	29-Jul-86	2.3	317.11	316.83		316.85	0.015286		3.86	12.08	0
Johnson Creek	1	5066	10-Jun-89	2	317.11	316.8		316.82	0.015932		3.49	12.02	0
Johnson Creek	1	5066	18-May-90	1.9	317.11	316.79		316.81	0.016097		3.37	11.95	0
Johnson Creek	1	5066	27-Oct-91	1	317.11	316.67		316.69	0.017007		2.05	9.4	0
Johnson Creek	1	5048	25-Jul-77	3.1	315.88	316.41	316.41	316.59	0.022442	1.9	1.73	5.74	0.96
Johnson Creek	1	5048	15-Sep-78	2.4	315.88	316.34	316.34	316.5	0.025223	1.8	1.36	4.64	0.99
Johnson Creek	1	5048	29-Jul-86	2.3	315.88	316.33	316.33	316.49	0.025526	1.78	1.31	4.55	0.99
Johnson Creek	1	5048	10-Jun-89	2	315.88	316.29	316.29	316.44	0.026897	1.72	1.17	4.25	1
Johnson Creek	1	5048	18-May-90	1.9	315.88	316.28	316.28	316.43	0.027276	1.69	1.13	4.08	1.01
Johnson Creek	1	5048	27-Oct-91	1	315.88	316.18	316.18	316.28	0.030362	1.4	0.72	3.63	1
Johnson Creek	1	5028.879	25-Jul-77	3.1	315.54	316.12	316.04	316.22	0.01148	1.41	2.54	7.67	0.69
Johnson Creek	1	5028.879	15-Sep-78	2.4	315.54	316.08	315.98	316.15	0.009954	1.23	2.2	7.34	0.64
Johnson Creek	1	5028.879	29-Jul-86	2.3	315.54	316.07	315.97	316.14	0.009983	1.22	2.13	7.25	0.64
Johnson Creek	1	5028.879	10-Jun-89	2	315.54	316.04	315.95	316.11	0.00974	1.15	1.93	6.99	0.62
Johnson Creek	1	5028.879	18-May-90	1.9	315.54	316.03	315.94	316.09	0.009557	1.12	1.87	6.91	0.61
Johnson Creek	1	5028.879	27-Oct-91	1	315.54	315.93	315.83	315.97	0.007969	0.85	1.23	5.65	0.53
Johnson Creek	1	5014	25-Jul-77	3.1	315.47	315.85	315.85	315.99	0.022422	1.65	2.11	9.64	0.94
Johnson Creek	1	5014	15-Sep-78	2.4	315.47	315.79	315.79	315.92	0.026981	1.59	1.6	7.56	1
Johnson Creek	1	5014	29-Jul-86	2.3	315.47	315.79	315.79	315.91	0.026464	1.55	1.56	7.47	0.99
Johnson Creek	1	5014	10-Jun-89	2	315.47	315.77	315.77	315.88	0.026746	1.48	1.41	7.25	0.98
Johnson Creek	1	5014	18-May-90	1.9	315.47	315.76	315.76	315.87	0.02739	1.46	1.35	7.17	0.98
Johnson Creek	1	5014	27-Oct-91	1	315.47	315.68	315.68	315.75	0.033001	1.21	0.83	5.72	1.01
Johnson Creek	1	5000	25-Jul-77	3.1	315.15	315.59	315.54	315.68	0.01258	1.34	2.67	10.89	0.72
Johnson Creek	1	5000	15-Sep-78	2.4	315.15	315.55	315.49	315.62	0.01186	1.19	2.22	9.72	0.69
Johnson Creek	1	5000	29-Jul-86	2.3	315.15	315.55	315.48	315.61	0.011751	1.17	2.16	9.32	0.68
Johnson Creek	1	5000	10-Jun-89	2	315.15	315.53	315.46	315.59	0.011312	1.1	1.98	8.84	0.66
Johnson Creek	1	5000	18-May-90	1.9	315.15	315.52	315.45	315.58	0.011158	1.07	1.92	8.77	0.65
Johnson Creek	1	5000	27-Oct-91	1	315.15	315.44	315.37	315.47	0.010726	0.82	1.23	7.34	0.6
Johnson Creek	1	4988	25-Jul-77	3.1	314.96	315.43	315.4	315.52	0.015511	1.35	2.79	13.42	0.78
Johnson Creek	1	4988	15-Sep-78	2.4	314.96	315.39	315.36	315.47	0.015008	1.21	2.3	12.9	0.75
Johnson Creek	1	4988	29-Jul-86	2.3	314.96	315.39	315.35	315.46	0.014954	1.19	2.22	12.69	0.75
Johnson Creek	1	4988	10-Jun-89	2	314.96	315.37	315.33	315.43	0.015074	1.13	1.97	11.99	0.74
Johnson Creek	1	4988	18-May-90	1.9	314.96	315.36	315.32	315.42	0.015086	1.11	1.89	11.8	0.74
Johnson Creek	1	4988	27-Oct-91	1	314.96	315.29	315.24	315.33	0.014342	0.87	1.16	7.21	0.68

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4979	25-Jul-77	3.1	314.85	315.22	315.22	315.33	0.024117	1.56	2.38	11.65	0.96
Johnson Creek	1	4979	15-Sep-78	2.4	314.85	315.17	315.17	315.28	0.026528	1.46	1.9	10.37	0.98
Johnson Creek	1	4979	29-Jul-86	2.3	314.85	315.17	315.17	315.27	0.026753	1.45	1.84	10.18	0.98
Johnson Creek	1	4979	10-Jun-89	2	314.85	315.15	315.15	315.24	0.026738	1.39	1.63	9.59	0.97
Johnson Creek	1	4979	18-May-90	1.9	314.85	315.14	315.14	315.23	0.026836	1.38	1.56	9.37	0.97
Johnson Creek	1	4979	27-Oct-91	1	314.85	315.05	315.05	315.13	0.032902	1.2	0.88	6.4	1.01
Johnson Creek	1	4963.422	25-Jul-77	3.1	313.79	314.07	314.19	314.51	0.161229	2.93	1.06	6.25	2.27
Johnson Creek	1	4963.422	15-Sep-78	2.4	313.79	314.04	314.15	314.4	0.157685	2.65	0.9	6.09	2.2
Johnson Creek	1	4963.422	29-Jul-86	2.3	313.79	314.04	314.14	314.39	0.158404	2.62	0.88	6.07	2.2
Johnson Creek	1	4963.422	10-Jun-89	2	313.79	314.02	314.12	314.35	0.166401	2.53	0.79	5.95	2.22
Johnson Creek	1	4963.422	18-May-90	1.9	313.79	314.02	314.11	314.34	0.168148	2.5	0.76	5.9	2.22
Johnson Creek	1	4963.422	27-Oct-91	1	313.79	313.98	314.03	314.16	0.140758	1.91	0.52	5.33	1.95
Johnson Creek	1	4945	25-Jul-77	3.1	313.36	313.91	313.91	314.08	0.025635	1.95	2.01	6.13	1.01
Johnson Creek	1	4945	15-Sep-78	2.4	313.36	313.85	313.85	314	0.025726	1.8	1.68	5.92	1
Johnson Creek	1	4945	29-Jul-86	2.3	313.36	313.84	313.84	313.98	0.025792	1.77	1.62	5.89	0.99
Johnson Creek	1	4945	10-Jun-89	2	313.36	313.81	313.81	313.95	0.025986	1.7	1.46	5.79	0.99
Johnson Creek	1	4945	18-May-90	1.9	313.36	313.8	313.8	313.93	0.025957	1.67	1.41	5.75	0.98
Johnson Creek	1	4945	27-Oct-91	1	313.36	313.68	313.68	313.78	0.037509	1.47	0.79	4.31	1.1
Johnson Creek	1	4931	25-Jul-77	3.1	313.05	313.54	313.45	313.61	0.01181	1.27	3.15	10.35	0.69
Johnson Creek	1	4931	15-Sep-78	2.4	313.05	313.46	313.4	313.53	0.014439	1.26	2.42	9.32	0.75
Johnson Creek	1	4931	29-Jul-86	2.3	313.05	313.45	313.4	313.52	0.014435	1.24	2.34	9.2	0.74
Johnson Creek	1	4931	10-Jun-89	2	313.05	313.43	313.37	313.49	0.014622	1.2	2.11	8.85	0.74
Johnson Creek	1	4931	18-May-90	1.9	313.05	313.42	313.37	313.48	0.014549	1.18	2.03	8.76	0.74
Johnson Creek	1	4931	27-Oct-91	1	313.05	313.33	313.28	313.37	0.014064	0.95	1.29	7.67	0.69
Johnson Creek	1	4912	25-Jul-77	3.1	312.84	313.16	313.14	313.27	0.028915	1.6	2.49	10.81	1.03
Johnson Creek	1	4912	15-Sep-78	2.4	312.84	313.16	313.1	313.22	0.018204	1.26	2.45	10.79	0.81
Johnson Creek	1	4912	29-Jul-86	2.3	312.84	313.15	313.09	313.22	0.018002	1.23	2.39	10.76	0.81
Johnson Creek	1	4912	10-Jun-89	2	312.84	313.14	313.08	313.19	0.016827	1.14	2.23	10.67	0.77
Johnson Creek	1	4912	18-May-90	1.9	312.84	313.13	313.07	313.18	0.016802	1.12	2.15	10.63	0.77
Johnson Creek	1	4912	27-Oct-91	1	312.84	313.06	313	313.09	0.015269	0.84	1.46	8.97	0.69
Johnson Creek	1	4895	25-Jul-77	3.1	312.46	312.79	312.76	312.87	0.020034	1.32	3.01	14.06	0.86
Johnson Creek	1	4895	15-Sep-78	2.4	312.46	312.73	312.73	312.81	0.03574	1.42	2.11	13.09	1.09
Johnson Creek	1	4895	29-Jul-86	2.3	312.46	312.72	312.72	312.81	0.03603	1.4	2.04	13.03	1.09
Johnson Creek	1	4895	10-Jun-89	2	312.46	312.7	312.7	312.78	0.0391	1.36	1.82	12.79	1.11
Johnson Creek	1	4895	18-May-90	1.9	312.46	312.7	312.7	312.78	0.039361	1.33	1.75	12.72	1.11
Johnson Creek	1	4895	27-Oct-91	1	312.46	312.64	312.64	312.7	0.041409	1.11	1.1	9.94	1.08
Johnson Creek	1	4879.412	25-Jul-77	3.1	311.98	312.34	312.34	312.45	0.0361	1.63	2.52	12.76	1.11
Johnson Creek	1	4879.412	15-Sep-78	2.4	311.98	312.4	312.3	312.44	0.009861	0.98	3.47	18.16	0.6
Johnson Creek	1	4879.412	29-Jul-86	2.3	311.98	312.39	312.29	312.43	0.009755	0.96	3.36	17.65	0.6
Johnson Creek	1	4879.412	10-Jun-89	2	311.98	312.37	312.28	312.41	0.009277	0.9	3.04	16.24	0.58
Johnson Creek	1	4879.412	18-May-90	1.9	311.98	312.36	312.28	312.4	0.009165	0.88	2.93	15.72	0.57
Johnson Creek	1	4879.412	27-Oct-91	1	311.98	312.29	312.22	312.31	0.008341	0.68	1.92	11.8	0.52
Johnson Creek	1	4811.571	25-Jul-77	3.1	311.01	311.66	311.47	311.7	0.004027	1.01	5.57	21.22	0.43
Johnson Creek	1	4811.571	15-Sep-78	2.4	311.01	311.44	311.43	311.55	0.019605	1.58	2.21	11.32	0.88
Johnson Creek	1	4811.571	29-Jul-86	2.3	311.01	311.43	311.43	311.54	0.01988	1.56	2.12	11.26	0.88
Johnson Creek	1	4811.571	10-Jun-89	2	311.01	311.4	311.4	311.51	0.021609	1.53	1.81	10.69	0.9
Johnson Creek	1	4811.571	18-May-90	1.9	311.01	311.39	311.39	311.5	0.02195	1.51	1.71	10.42	0.91
Johnson Creek	1	4811.571	27-Oct-91	1	311.01	311.28	311.28	311.37	0.028123	1.35	0.84	5.14	0.97
Johnson Creek	1	4742.112	25-Jul-77	3.1	310.43	311.67		311.67	0.000061	0.2	35.09	42	0.06
Johnson Creek	1	4742.112	15-Sep-78	2.4	310.43	311.49		311.49	0.000072	0.2	27.79	39.77	0.06
Johnson Creek	1	4742.112	29-Jul-86	2.3	310.43	311.47	310.76	311.47	0.000075	0.2	26.73	39.6	0.07
Johnson Creek	1	4742.112	10-Jun-89	2	310.43	311.39	310.75	311.39	0.000083	0.19	23.52	38.78	0.07
Johnson Creek	1	4742.112	18-May-90	1.9	310.43	311.36	310.74	311.36	0.000086	0.19	22.43	38.47	0.07
Johnson Creek	1	4742.112	27-Oct-91	1	310.43	311.07	310.7	311.07	0.000133	0.18	12.36	33.56	0.08
Johnson Creek	1	4738.226	25-Jul-77	3.1	310.36	311.54	311.1	311.66	0.003581	1.55	2	39.89	0.47
Johnson Creek	1	4738.226	15-Sep-78	2.4	310.36	311.38	310.99	311.48	0.003533	1.4	1.72	38.47	0.46
Johnson Creek	1	4738.226	29-Jul-86	2.3	310.36	311.36	310.98	311.46	0.003515	1.37	1.68	38.29	0.45
Johnson Creek	1	4738.226	10-Jun-89	2	310.36	311.29	310.93	311.38	0.003444	1.29	1.55	37.71	0.44
Johnson Creek	1	4738.226	18-May-90	1.9	310.36	311.27	310.91	311.35	0.003413	1.26	1.51	37.43	0.44

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4738.226	27-Oct-91	1	310.36	311.02	310.75	311.07	0.002975	0.93	1.07	34.12	0.39
Johnson Creek	1	4707.051		Culvert									
Johnson Creek	1	4684.051	25-Jul-77	3.1	310.45	311.15	311.15	311.49	0.019067	2.56	1.21	28.66	1
Johnson Creek	1	4684.051	15-Sep-78	2.4	310.45	311.05	311.05	311.33	0.020328	2.36	1.02	28.07	1
Johnson Creek	1	4684.051	29-Jul-86	2.3	310.45	311.03	311.03	311.31	0.020728	2.33	0.99	27.47	1
Johnson Creek	1	4684.051	10-Jun-89	2	310.45	310.98	310.98	311.23	0.02098	2.21	0.9	26.93	1
Johnson Creek	1	4684.051	18-May-90	1.9	310.45	310.97	310.97	311.21	0.021199	2.18	0.87	26.74	0.99
Johnson Creek	1	4684.051	27-Oct-91	1	310.45	310.79	310.79	310.95	0.025011	1.77	0.57	22.18	1
Johnson Creek	1	4676.353	25-Jul-77	3.1	309.56	309.68	309.82	310.79	1.491406	4.65	0.67	10.65	5.94
Johnson Creek	1	4676.353	15-Sep-78	2.4	309.56	309.67	309.79	310.63	1.459502	4.33	0.55	9.72	5.78
Johnson Creek	1	4676.353	29-Jul-86	2.3	309.56	309.67	309.79	310.6	1.458176	4.27	0.54	9.62	5.76
Johnson Creek	1	4676.353	10-Jun-89	2	309.56	309.67	309.77	310.53	1.483566	4.12	0.49	9.26	5.75
Johnson Creek	1	4676.353	18-May-90	1.9	309.56	309.66	309.77	310.51	1.487679	4.06	0.47	9.14	5.74
Johnson Creek	1	4676.353	27-Oct-91	1	309.56	309.64	309.72	310.23	1.406007	3.38	0.3	7.29	5.36
Johnson Creek	1	4669	25-Jul-77	3.1	309.38	309.71	309.63	309.75	0.010024	0.94	3.3	13.55	0.61
Johnson Creek	1	4669	15-Sep-78	2.4	309.38	309.67	309.61	309.71	0.010422	0.87	2.76	13.13	0.61
Johnson Creek	1	4669	29-Jul-86	2.3	309.38	309.66	309.6	309.7	0.01033	0.85	2.7	13.1	0.6
Johnson Creek	1	4669	10-Jun-89	2	309.38	309.64	309.59	309.68	0.010874	0.82	2.43	12.98	0.61
Johnson Creek	1	4669	18-May-90	1.9	309.38	309.64	309.58	309.67	0.011065	0.81	2.34	12.94	0.61
Johnson Creek	1	4669	27-Oct-91	1	309.38	309.57	309.54	309.59	0.014231	0.69	1.46	12.47	0.64
Johnson Creek	1	4662	25-Jul-77	3.1	309.13	309.53	309.53	309.63	0.030794	1.36	2.29	12.55	1.02
Johnson Creek	1	4662	15-Sep-78	2.4	309.13	309.49	309.49	309.58	0.029032	1.36	1.76	9.23	0.99
Johnson Creek	1	4662	29-Jul-86	2.3	309.13	309.47	309.47	309.57	0.030331	1.38	1.67	8.86	1.01
Johnson Creek	1	4662	10-Jun-89	2	309.13	309.45	309.45	309.55	0.029883	1.35	1.49	8.07	1
Johnson Creek	1	4662	18-May-90	1.9	309.13	309.45	309.45	309.54	0.030042	1.34	1.42	7.82	1
Johnson Creek	1	4662	27-Oct-91	1	309.13	309.36	309.36	309.43	0.033104	1.18	0.85	6.07	1.01
Johnson Creek	1	4653	25-Jul-77	3.1	308.46	308.78	308.88	309.11	0.110534	2.54	1.22	6.69	1.9
Johnson Creek	1	4653	15-Sep-78	2.4	308.46	308.75	308.84	309.06	0.131271	2.46	0.98	6.39	2.01
Johnson Creek	1	4653	29-Jul-86	2.3	308.46	308.74	308.83	309.04	0.127491	2.41	0.95	6.32	1.98
Johnson Creek	1	4653	10-Jun-89	2	308.46	308.73	308.81	309.01	0.133451	2.37	0.84	5.93	2
Johnson Creek	1	4653	18-May-90	1.9	308.46	308.72	308.8	309	0.133343	2.34	0.81	5.83	2
Johnson Creek	1	4653	27-Oct-91	1	308.46	308.67	308.72	308.86	0.143786	1.95	0.51	5.13	1.97
Johnson Creek	1	4645	25-Jul-77	3.1	308.16	308.61	308.61	308.77	0.026812	1.75	1.77	5.78	1.01
Johnson Creek	1	4645	15-Sep-78	2.4	308.16	308.56	308.56	308.69	0.027535	1.64	1.46	5.37	1
Johnson Creek	1	4645	29-Jul-86	2.3	308.16	308.55	308.55	308.68	0.02781	1.63	1.41	5.27	1.01
Johnson Creek	1	4645	10-Jun-89	2	308.16	308.52	308.52	308.65	0.028825	1.57	1.27	5.15	1.01
Johnson Creek	1	4645	18-May-90	1.9	308.16	308.51	308.51	308.63	0.028569	1.54	1.23	5.13	1
Johnson Creek	1	4645	27-Oct-91	1	308.16	308.42	308.42	308.5	0.03274	1.28	0.78	4.82	1.01
Johnson Creek	1	4633	25-Jul-77	3.1	307.58	307.88	307.98	308.22	0.079778	2.57	1.21	5.19	1.69
Johnson Creek	1	4633	15-Sep-78	2.4	307.58	307.84	307.93	308.13	0.084356	2.37	1.01	5.08	1.69
Johnson Creek	1	4633	29-Jul-86	2.3	307.58	307.84	307.92	308.12	0.084296	2.33	0.99	5.07	1.69
Johnson Creek	1	4633	10-Jun-89	2	307.58	307.82	307.9	308.07	0.083235	2.2	0.91	5.02	1.66
Johnson Creek	1	4633	18-May-90	1.9	307.58	307.82	307.89	308.06	0.085168	2.18	0.87	4.99	1.67
Johnson Creek	1	4633	27-Oct-91	1	307.58	307.76	307.8	307.9	0.078217	1.68	0.6	4.75	1.52
Johnson Creek	1	4623	25-Jul-77	3.1	307.06	307.49	307.52	307.67	0.035903	1.87	1.66	6.2	1.15
Johnson Creek	1	4623	15-Sep-78	2.4	307.06	307.45	307.47	307.6	0.033291	1.67	1.44	6.04	1.09
Johnson Creek	1	4623	29-Jul-86	2.3	307.06	307.45	307.46	307.58	0.033059	1.64	1.4	6.01	1.08
Johnson Creek	1	4623	10-Jun-89	2	307.06	307.43	307.44	307.55	0.032563	1.55	1.29	5.93	1.06
Johnson Creek	1	4623	18-May-90	1.9	307.06	307.42	307.43	307.54	0.031974	1.52	1.25	5.9	1.05
Johnson Creek	1	4623	27-Oct-91	1	307.06	307.33	307.35	307.42	0.038833	1.32	0.76	5.09	1.09
Johnson Creek	1	4614	25-Jul-77	3.1	306.55	306.94	307.06	307.27	0.054926	2.53	1.25	4.59	1.45
Johnson Creek	1	4614	15-Sep-78	2.4	306.55	306.88	306.97	307.19	0.065428	2.43	0.99	3.9	1.54
Johnson Creek	1	4614	29-Jul-86	2.3	306.55	306.88	306.96	307.17	0.066927	2.41	0.95	3.85	1.55
Johnson Creek	1	4614	10-Jun-89	2	306.55	306.85	306.93	307.13	0.071544	2.36	0.85	3.72	1.58
Johnson Creek	1	4614	18-May-90	1.9	306.55	306.84	306.92	307.12	0.074073	2.35	0.81	3.68	1.6
Johnson Creek	1	4614	27-Oct-91	1	306.55	306.75	306.81	306.94	0.079952	1.93	0.52	3.4	1.58
Johnson Creek	1	4606.412	25-Jul-77	3.1	306.13	306.47	306.57	306.79	0.073396	2.5	1.24	5.15	1.63

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4606.412	15-Sep-78	2.4	306.13	306.45	306.52	306.69	0.061731	2.17	1.11	5.01	1.47
Johnson Creek	1	4606.412	29-Jul-86	2.3	306.13	306.44	306.51	306.67	0.060427	2.12	1.08	4.99	1.45
Johnson Creek	1	4606.412	10-Jun-89	2	306.13	306.43	306.48	306.63	0.056835	1.98	1.01	4.91	1.4
Johnson Creek	1	4606.412	18-May-90	1.9	306.13	306.42	306.47	306.61	0.055194	1.93	0.98	4.89	1.37
Johnson Creek	1	4606.412	27-Oct-91	1	306.13	306.36	306.38	306.47	0.04691	1.47	0.68	4.52	1.21
Johnson Creek	1	4598	25-Jul-77	3.1	305.53	305.93	306.01	306.23	0.058632	2.43	1.3	5.12	1.49
Johnson Creek	1	4598	15-Sep-78	2.4	305.53	305.87	305.95	306.15	0.063459	2.32	1.05	4.61	1.52
Johnson Creek	1	4598	29-Jul-86	2.3	305.53	305.87	305.95	306.13	0.064225	2.3	1.01	4.54	1.52
Johnson Creek	1	4598	10-Jun-89	2	305.53	305.84	305.92	306.1	0.067053	2.23	0.9	4.32	1.53
Johnson Creek	1	4598	18-May-90	1.9	305.53	305.83	305.91	306.08	0.068593	2.22	0.86	4.24	1.54
Johnson Creek	1	4598	27-Oct-91	1	305.53	305.75	305.8	305.93	0.085016	1.9	0.53	3.71	1.61
Johnson Creek	1	4590	25-Jul-77	3.1	305.28	305.68	305.7	305.82	0.041918	1.84	2.38	12.91	1.22
Johnson Creek	1	4590	15-Sep-78	2.4	305.28	305.65	305.66	305.76	0.035587	1.59	2.1	12.34	1.11
Johnson Creek	1	4590	29-Jul-86	2.3	305.28	305.65	305.66	305.75	0.034031	1.54	2.07	12.3	1.08
Johnson Creek	1	4590	10-Jun-89	2	305.28	305.64	305.64	305.73	0.033114	1.46	1.89	12.1	1.05
Johnson Creek	1	4590	18-May-90	1.9	305.28	305.62	305.63	305.72	0.040206	1.52	1.7	11.92	1.15
Johnson Creek	1	4590	27-Oct-91	1	305.28	305.57	305.57	305.63	0.034175	1.14	1.12	10.91	1.01
Johnson Creek	1	4583	25-Jul-77	3.1	304.89	305.26	305.35	305.51	0.044223	2.22	1.49	6	1.31
Johnson Creek	1	4583	15-Sep-78	2.4	304.89	305.2	305.27	305.45	0.055317	2.2	1.13	5.25	1.42
Johnson Creek	1	4583	29-Jul-86	2.3	304.89	305.19	305.27	305.44	0.059174	2.21	1.07	5.1	1.46
Johnson Creek	1	4583	10-Jun-89	2	304.89	305.16	305.23	305.4	0.065732	2.18	0.94	4.8	1.52
Johnson Creek	1	4583	18-May-90	1.9	304.89	305.16	305.22	305.38	0.058501	2.06	0.94	4.8	1.43
Johnson Creek	1	4583	27-Oct-91	1	304.89	305.07	305.12	305.25	0.094539	1.9	0.53	4.05	1.68
Johnson Creek	1	4575	25-Jul-77	3.1	304.77	305.11	305.11	305.25	0.027257	1.68	2.16	8.35	1.02
Johnson Creek	1	4575	15-Sep-78	2.4	304.77	305.07	305.07	305.18	0.027767	1.55	1.81	8.13	1.01
Johnson Creek	1	4575	29-Jul-86	2.3	304.77	305.06	305.06	305.18	0.028068	1.54	1.75	8.09	1.01
Johnson Creek	1	4575	10-Jun-89	2	304.77	305.04	305.04	305.15	0.028426	1.47	1.59	7.98	1
Johnson Creek	1	4575	18-May-90	1.9	304.77	305.04	305.04	305.14	0.028772	1.45	1.53	7.94	1
Johnson Creek	1	4575	27-Oct-91	1	304.77	304.97	304.97	305.03	0.030857	1.17	0.97	7.68	0.98
Johnson Creek	1	4568	25-Jul-77	3.1	304.26	304.55	304.65	304.88	0.100397	2.58	1.25	6.41	1.85
Johnson Creek	1	4568	15-Sep-78	2.4	304.26	304.51	304.6	304.81	0.111098	2.41	1.04	6.33	1.89
Johnson Creek	1	4568	29-Jul-86	2.3	304.26	304.51	304.59	304.79	0.112067	2.38	1.01	6.32	1.89
Johnson Creek	1	4568	10-Jun-89	2	304.26	304.49	304.57	304.76	0.117431	2.29	0.91	6.28	1.91
Johnson Creek	1	4568	18-May-90	1.9	304.26	304.49	304.56	304.74	0.118497	2.25	0.88	6.26	1.9
Johnson Creek	1	4568	27-Oct-91	1	304.26	304.44	304.49	304.61	0.134185	1.85	0.56	5.87	1.9
Johnson Creek	1	4560	25-Jul-77	3.1	303.98	304.4	304.4	304.54	0.026918	1.68	1.87	6.84	1.01
Johnson Creek	1	4560	15-Sep-78	2.4	303.98	304.35	304.35	304.48	0.028361	1.54	1.57	6.73	1.01
Johnson Creek	1	4560	29-Jul-86	2.3	303.98	304.35	304.35	304.47	0.028169	1.52	1.53	6.71	1
Johnson Creek	1	4560	10-Jun-89	2	303.98	304.33	304.33	304.43	0.029652	1.46	1.38	6.66	1.01
Johnson Creek	1	4560	18-May-90	1.9	303.98	304.32	304.32	304.42	0.030061	1.44	1.33	6.64	1.01
Johnson Creek	1	4560	27-Oct-91	1	303.98	304.24	304.24	304.31	0.033896	1.2	0.84	5.95	1.01
Johnson Creek	1	4553	25-Jul-77	3.1	303.67	304.09	304.14	304.3	0.041878	2.06	1.55	6.39	1.25
Johnson Creek	1	4553	15-Sep-78	2.4	303.67	304.04	304.08	304.23	0.042806	1.94	1.25	5.5	1.25
Johnson Creek	1	4553	29-Jul-86	2.3	303.67	304.03	304.07	304.22	0.043037	1.92	1.21	5.35	1.24
Johnson Creek	1	4553	10-Jun-89	2	303.67	304.01	304.04	304.18	0.042991	1.85	1.08	4.94	1.23
Johnson Creek	1	4553	18-May-90	1.9	303.67	304	304.03	304.17	0.04302	1.82	1.04	4.8	1.23
Johnson Creek	1	4553	27-Oct-91	1	303.67	303.91	303.93	304.03	0.048568	1.52	0.66	4.23	1.23
Johnson Creek	1	4546	25-Jul-77	3.1	303.42	303.96	303.96	304.11	0.026122	1.73	1.86	6.6	1
Johnson Creek	1	4546	15-Sep-78	2.4	303.42	303.9	303.9	304.04	0.027471	1.66	1.48	5.82	1.01
Johnson Creek	1	4546	29-Jul-86	2.3	303.42	303.89	303.89	304.03	0.027821	1.64	1.43	5.77	1.01
Johnson Creek	1	4546	10-Jun-89	2	303.42	303.87	303.87	303.99	0.02812	1.57	1.3	5.61	1
Johnson Creek	1	4546	18-May-90	1.9	303.42	303.86	303.86	303.98	0.028466	1.55	1.25	5.55	1.01
Johnson Creek	1	4546	27-Oct-91	1	303.42	303.75	303.75	303.85	0.033737	1.39	0.72	3.94	1.04
Johnson Creek	1	4540	25-Jul-77	3.1	302.96	303.41	303.52	303.78	0.103086	2.72	1.14	5.25	1.86
Johnson Creek	1	4540	15-Sep-78	2.4	302.96	303.37	303.47	303.7	0.109965	2.53	0.95	5.1	1.88
Johnson Creek	1	4540	29-Jul-86	2.3	302.96	303.36	303.46	303.68	0.110793	2.5	0.92	5.07	1.88
Johnson Creek	1	4540	10-Jun-89	2	302.96	303.35	303.43	303.64	0.115561	2.41	0.83	5	1.89
Johnson Creek	1	4540	18-May-90	1.9	302.96	303.34	303.43	303.63	0.116419	2.37	0.8	4.97	1.89
Johnson Creek	1	4540	27-Oct-91	1	302.96	303.26	303.34	303.49	0.097986	2.09	0.48	3.12	1.7

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4533	25-Jul-77	3.1	302.71	303.28	303.25	303.4	0.020286	1.54	2.01	6.67	0.89
Johnson Creek	1	4533	15-Sep-78	2.4	302.71	303.21	303.18	303.33	0.022533	1.52	1.58	5.62	0.92
Johnson Creek	1	4533	29-Jul-86	2.3	302.71	303.2	303.17	303.32	0.021944	1.53	1.5	5.18	0.91
Johnson Creek	1	4533	10-Jun-89	2	302.71	303.16	303.14	303.28	0.021774	1.49	1.34	4.77	0.9
Johnson Creek	1	4533	18-May-90	1.9	302.71	303.15	303.12	303.26	0.021674	1.47	1.29	4.68	0.89
Johnson Creek	1	4533	27-Oct-91	1	302.71	303	302.99	303.1	0.025585	1.39	0.72	3.25	0.94
Johnson Creek	1	4525	25-Jul-77	3.1	302.54	303.22		303.28	0.007678	1.09	2.84	7.45	0.56
Johnson Creek	1	4525	15-Sep-78	2.4	302.54	303.15		303.21	0.007481	1.02	2.36	6.68	0.55
Johnson Creek	1	4525	29-Jul-86	2.3	302.54	303.14		303.19	0.00752	1.01	2.28	6.6	0.55
Johnson Creek	1	4525	10-Jun-89	2	302.54	303.11		303.16	0.007574	0.97	2.06	6.36	0.54
Johnson Creek	1	4525	18-May-90	1.9	302.54	303.1		303.14	0.00756	0.95	1.99	6.28	0.54
Johnson Creek	1	4525	27-Oct-91	1	302.54	302.95		302.99	0.006174	0.82	1.22	4.06	0.48
Johnson Creek	1	4513	25-Jul-77	3.1	302.28	302.96	302.96	303.12	0.02667	1.79	1.73	5.41	1.01
Johnson Creek	1	4513	15-Sep-78	2.4	302.28	302.9	302.9	303.05	0.028015	1.68	1.43	5.08	1.01
Johnson Creek	1	4513	29-Jul-86	2.3	302.28	302.89	302.89	303.04	0.027678	1.66	1.38	4.93	1
Johnson Creek	1	4513	10-Jun-89	2	302.28	302.86	302.86	303	0.028126	1.63	1.23	4.6	1
Johnson Creek	1	4513	18-May-90	1.9	302.28	302.85	302.85	302.98	0.028369	1.61	1.18	4.54	1
Johnson Creek	1	4513	27-Oct-91	1	302.28	302.74	302.74	302.84	0.032882	1.39	0.72	3.82	1.02
Johnson Creek	1	4503.086	25-Jul-77	3.1	302.06	302.38	302.47	302.67	0.07764	2.38	1.3	6.13	1.65
Johnson Creek	1	4503.086	15-Sep-78	2.4	302.06	302.35	302.42	302.59	0.076514	2.17	1.1	5.9	1.6
Johnson Creek	1	4503.086	29-Jul-86	2.3	302.06	302.34	302.41	302.58	0.077508	2.15	1.07	5.86	1.61
Johnson Creek	1	4503.086	10-Jun-89	2	302.06	302.33	302.39	302.54	0.07481	2.03	0.99	5.76	1.56
Johnson Creek	1	4503.086	18-May-90	1.9	302.06	302.32	302.38	302.52	0.075494	2	0.95	5.71	1.56
Johnson Creek	1	4503.086	27-Oct-91	1	302.06	302.27	302.3	302.38	0.060841	1.48	0.67	5.38	1.34
Johnson Creek	1	4498	25-Jul-77	3.1	301.66	302.23	302.24	302.42	0.029656	1.93	1.6	4.83	1.07
Johnson Creek	1	4498	15-Sep-78	2.4	301.66	302.16	302.18	302.33	0.03239	1.85	1.29	4.44	1.1
Johnson Creek	1	4498	29-Jul-86	2.3	301.66	302.15	302.17	302.32	0.033121	1.84	1.25	4.4	1.1
Johnson Creek	1	4498	10-Jun-89	2	301.66	302.12	302.14	302.28	0.034696	1.79	1.12	4.25	1.12
Johnson Creek	1	4498	18-May-90	1.9	301.66	302.11	302.13	302.27	0.034878	1.77	1.07	4.19	1.12
Johnson Creek	1	4498	27-Oct-91	1	301.66	301.99	302.01	302.12	0.045907	1.63	0.61	3.34	1.22
Johnson Creek	1	4492	25-Jul-77	3.1	301.36	301.88	301.96	302.19	0.044913	2.45	1.27	3.64	1.32
Johnson Creek	1	4492	15-Sep-78	2.4	301.36	301.82	301.89	302.09	0.047974	2.33	1.03	3.36	1.34
Johnson Creek	1	4492	29-Jul-86	2.3	301.36	301.81	301.88	302.08	0.048104	2.31	1	3.32	1.34
Johnson Creek	1	4492	10-Jun-89	2	301.36	301.78	301.84	302.03	0.0492	2.24	0.89	3.16	1.34
Johnson Creek	1	4492	18-May-90	1.9	301.36	301.76	301.83	302.01	0.049144	2.21	0.86	3.11	1.34
Johnson Creek	1	4492	27-Oct-91	1	301.36	301.65	301.69	301.83	0.052288	1.88	0.53	2.58	1.32
Johnson Creek	1	4487	25-Jul-77	3.1	300.81	301.29	301.46	301.84	0.09359	3.26	0.95	2.93	1.82
Johnson Creek	1	4487	15-Sep-78	2.4	300.81	301.23	301.38	301.72	0.100993	3.08	0.78	2.79	1.86
Johnson Creek	1	4487	29-Jul-86	2.3	300.81	301.22	301.37	301.7	0.102399	3.05	0.75	2.77	1.87
Johnson Creek	1	4487	10-Jun-89	2	300.81	301.2	301.33	301.64	0.106759	2.96	0.68	2.7	1.89
Johnson Creek	1	4487	18-May-90	1.9	300.81	301.19	301.32	301.62	0.108654	2.92	0.65	2.68	1.9
Johnson Creek	1	4487	27-Oct-91	1	300.81	301.09	301.19	301.4	0.127516	2.48	0.4	2.45	1.95
Johnson Creek	1	4482	25-Jul-77	3.1	300.62	301.12	301.2	301.43	0.051166	2.46	1.27	4.24	1.41
Johnson Creek	1	4482	15-Sep-78	2.4	300.62	301.08	301.14	301.32	0.045271	2.16	1.11	4.08	1.3
Johnson Creek	1	4482	29-Jul-86	2.3	300.62	301.08	301.13	301.3	0.043786	2.1	1.1	4.06	1.28
Johnson Creek	1	4482	10-Jun-89	2	300.62	301.06	301.1	301.26	0.040689	1.95	1.02	3.98	1.22
Johnson Creek	1	4482	18-May-90	1.9	300.62	301.06	301.09	301.24	0.039606	1.9	1	3.95	1.2
Johnson Creek	1	4482	27-Oct-91	1	300.62	300.96	300.98	301.08	0.039034	1.53	0.65	3.52	1.13
Johnson Creek	1	4477	25-Jul-77	3.1	300.28	300.8	300.9	301.16	0.048939	2.79	1.37	3.96	1.42
Johnson Creek	1	4477	15-Sep-78	2.4	300.28	300.74	300.83	301.06	0.052161	2.63	1.11	3.72	1.44
Johnson Creek	1	4477	29-Jul-86	2.3	300.28	300.73	300.82	301.04	0.052478	2.61	1.07	3.68	1.44
Johnson Creek	1	4477	10-Jun-89	2	300.28	300.69	300.78	300.99	0.056272	2.55	0.94	3.52	1.47
Johnson Creek	1	4477	18-May-90	1.9	300.28	300.68	300.77	300.98	0.057265	2.53	0.9	3.47	1.47
Johnson Creek	1	4477	27-Oct-91	1	300.28	300.56	300.63	300.8	0.071985	2.22	0.52	2.96	1.56
Johnson Creek	1	4473	25-Jul-77	3.1	299.85	300.13	300.33	300.73	0.396911	4.94	1	3.76	3.47
Johnson Creek	1	4473	15-Sep-78	2.4	299.85	300.09	300.27	300.6	0.425556	4.63	0.83	3.65	3.53
Johnson Creek	1	4473	29-Jul-86	2.3	299.85	300.08	300.23	300.58	0.433826	4.6	0.8	3.63	3.56
Johnson Creek	1	4473	10-Jun-89	2	299.85	300.06	300.19	300.52	0.437664	4.39	0.73	3.59	3.54

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4473	18-May-90	1.9	299.85	300.05	300.19	300.49	0.440326	4.32	0.71	3.57	3.54
Johnson Creek	1	4473	27-Oct-91	1	299.85	299.99	300.07	300.25	0.42473	3.34	0.48	3.41	3.32
Johnson Creek	1	4469	25-Jul-77	3.1	299.62	300.01	300.01	300.15	0.06091	2.12	2.12	7.41	1.45
Johnson Creek	1	4469	15-Sep-78	2.4	299.62	299.99	299.99	300.09	0.043738	1.84	1.97	7	1.23
Johnson Creek	1	4469	29-Jul-86	2.3	299.62	299.98	299.98	300.08	0.042351	1.83	1.92	6.86	1.22
Johnson Creek	1	4469	10-Jun-89	2	299.62	299.92	299.92	300.05	0.057888	2.15	1.53	6.16	1.42
Johnson Creek	1	4469	18-May-90	1.9	299.62	299.91	299.91	300.04	0.057937	2.11	1.48	6.13	1.41
Johnson Creek	1	4469	27-Oct-91	1	299.62	299.83	299.83	299.91	0.065165	1.75	0.95	5.79	1.42
Johnson Creek	1	4464	25-Jul-77	3.1	298.99	299.31	299.43	299.73	0.120131	3.15	1.31	6.02	2.08
Johnson Creek	1	4464	15-Sep-78	2.4	298.99	299.25	299.38	299.69	0.180131	3.21	0.97	5.67	2.43
Johnson Creek	1	4464	29-Jul-86	2.3	298.99	299.25	299.37	299.68	0.191343	3.21	0.93	5.61	2.48
Johnson Creek	1	4464	10-Jun-89	2	298.99	299.24	299.34	299.6	0.169052	2.92	0.88	5.55	2.32
Johnson Creek	1	4464	18-May-90	1.9	298.99	299.23	299.33	299.58	0.173531	2.88	0.85	5.5	2.33
Johnson Creek	1	4464	27-Oct-91	1	298.99	299.17	299.24	299.39	0.207316	2.3	0.54	5.09	2.36
Johnson Creek	1	4459	25-Jul-77	3.1	298.24	298.63	298.75	299.02	0.207671	3.39	1.35	8.53	2.6
Johnson Creek	1	4459	15-Sep-78	2.4	298.24	298.62	298.7	298.88	0.155374	2.78	1.24	8.19	2.22
Johnson Creek	1	4459	29-Jul-86	2.3	298.24	298.62	298.69	298.87	0.149176	2.7	1.22	8.12	2.17
Johnson Creek	1	4459	10-Jun-89	2	298.24	298.6	298.67	298.83	0.155843	2.55	1.08	7.64	2.18
Johnson Creek	1	4459	18-May-90	1.9	298.24	298.59	298.66	298.81	0.151967	2.47	1.05	7.53	2.14
Johnson Creek	1	4459	27-Oct-91	1	298.24	298.54	298.56	298.65	0.123309	1.62	0.71	5.74	1.78
Johnson Creek	1	4454	25-Jul-77	3.1	297.8	297.87	297.88	297.99	0.146458	1.24	2.1	10.3	1.77
Johnson Creek	1	4454	15-Sep-78	2.4	297.8	297.83	297.84	297.94	0.171936	0.63	1.65	9.31	1.59
Johnson Creek	1	4454	29-Jul-86	2.3	297.8	297.82	297.84	297.93	0.177363	0.46	1.59	9.2	1.49
Johnson Creek	1	4454	10-Jun-89	2	297.8	297.8	297.82	297.91	0.165317	0.1	1.42	7.79	0.99
Johnson Creek	1	4454	18-May-90	1.9	297.8	297.79	297.81	297.9	0.167938		1.35	7.45	0
Johnson Creek	1	4454	27-Oct-91	1	297.8	297.68	297.71	297.79	0.20275		0.7	4.88	0
Johnson Creek	1	4448.117	25-Jul-77	3.1	296.63	297.16	297.25	297.45	0.064516	2.86	2.07	11.16	1.54
Johnson Creek	1	4448.117	15-Sep-78	2.4	296.63	297.12	297.22	297.38	0.062452	2.65	1.65	9.27	1.49
Johnson Creek	1	4448.117	29-Jul-86	2.3	296.63	297.12	297.21	297.37	0.061992	2.62	1.6	9.01	1.49
Johnson Creek	1	4448.117	10-Jun-89	2	296.63	297.09	297.18	297.34	0.064547	2.57	1.39	8.49	1.5
Johnson Creek	1	4448.117	18-May-90	1.9	296.63	297.09	297.17	297.33	0.064615	2.54	1.32	8.41	1.5
Johnson Creek	1	4448.117	27-Oct-91	1	296.63	297	297.07	297.2	0.063522	2.13	0.7	6.24	1.43
Johnson Creek	1	4444	25-Jul-77	3.1	296.25	296.54	296.68	297.02	0.165258	3.68	1.45	10.51	2.44
Johnson Creek	1	4444	15-Sep-78	2.4	296.25	296.5	296.64	296.94	0.190519	3.49	1.1	7.44	2.54
Johnson Creek	1	4444	29-Jul-86	2.3	296.25	296.5	296.63	296.92	0.194904	3.46	1.06	7.22	2.56
Johnson Creek	1	4444	10-Jun-89	2	296.25	296.47	296.6	296.87	0.223614	3.34	0.88	6.01	2.67
Johnson Creek	1	4444	18-May-90	1.9	296.25	296.46	296.59	296.85	0.233708	3.3	0.84	5.67	2.71
Johnson Creek	1	4444	27-Oct-91	1	296.25	296.39	296.46	296.7	0.289	2.98	0.47	3.76	2.85
Johnson Creek	1	4439	25-Jul-77	3.1	295.7	296.02	296.04	296.2	0.11359	2.42	1.85	8.69	1.91
Johnson Creek	1	4439	15-Sep-78	2.4	295.7	295.99	296	296.12	0.098637	2.04	1.65	8.63	1.73
Johnson Creek	1	4439	29-Jul-86	2.3	295.7	295.99	296	296.11	0.097095	1.98	1.61	8.61	1.71
Johnson Creek	1	4439	10-Jun-89	2	295.7	295.98	295.98	296.08	0.084144	1.81	1.54	8.48	1.59
Johnson Creek	1	4439	18-May-90	1.9	295.7	295.95	295.97	296.08	0.134568	2.12	1.26	7.52	1.97
Johnson Creek	1	4439	27-Oct-91	1	295.7	295.89	295.89	295.97	0.107641	1.58	0.88	6.27	1.69
Johnson Creek	1	4434	25-Jul-77	3.1	295.26	295.42	295.43	295.6	0.143943	1.59	1.65	5.24	1.82
Johnson Creek	1	4434	15-Sep-78	2.4	295.26	295.35	295.37	295.52	0.172148	1.23	1.32	4.98	1.82
Johnson Creek	1	4434	29-Jul-86	2.3	295.26	295.34	295.37	295.51	0.175843	1.16	1.27	4.91	1.81
Johnson Creek	1	4434	10-Jun-89	2	295.26	295.3	295.34	295.48	0.213528	0.83	1.08	4.62	1.79
Johnson Creek	1	4434	18-May-90	1.9	295.26	295.3	295.33	295.46	0.192754	0.78	1.08	4.62	1.7
Johnson Creek	1	4434	27-Oct-91	1	295.26	295.22	295.23	295.32	0.179653		0.72	4.07	0
Johnson Creek	1	4429	25-Jul-77	3.1	294.51	294.97	294.85	295.06	0.037762	1.76	2.45	5.82	1.13
Johnson Creek	1	4429	15-Sep-78	2.4	294.51	294.91	294.79	294.98	0.0359	1.59	2.12	5.62	1.08
Johnson Creek	1	4429	29-Jul-86	2.3	294.51	294.91	294.79	294.97	0.035495	1.56	2.07	5.59	1.07
Johnson Creek	1	4429	10-Jun-89	2	294.51	294.88	294.76	294.94	0.034092	1.47	1.92	5.5	1.03
Johnson Creek	1	4429	18-May-90	1.9	294.51	294.87	294.75	294.92	0.033534	1.43	1.86	5.47	1.02
Johnson Creek	1	4429	27-Oct-91	1	294.51	294.76	294.66	294.79	0.031112	1.13	1.27	5.09	0.94
Johnson Creek	1	4424	25-Jul-77	3.1	294.24	294.7	294.7	294.87	0.035156	2.02	1.96	6.23	1.17
Johnson Creek	1	4424	15-Sep-78	2.4	294.24	294.64	294.64	294.79	0.038222	1.87	1.63	6.04	1.19

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4424	29-Jul-86	2.3	294.24	294.64	294.64	294.78	0.038889	1.85	1.58	6.01	1.19
Johnson Creek	1	4424	10-Jun-89	2	294.24	294.61	294.61	294.74	0.041238	1.78	1.42	5.91	1.21
Johnson Creek	1	4424	18-May-90	1.9	294.24	294.6	294.6	294.73	0.042184	1.76	1.37	5.88	1.22
Johnson Creek	1	4424	27-Oct-91	1	294.24	294.51	294.51	294.6	0.044223	1.5	0.86	4.89	1.19
Johnson Creek	1	4419	25-Jul-77	3.1	293.56	293.76	293.93	294.46	0.277235	3.71	0.84	5.21	2.96
Johnson Creek	1	4419	15-Sep-78	2.4	293.56	293.73	293.88	294.36	0.309609	3.5	0.69	5.11	3.05
Johnson Creek	1	4419	29-Jul-86	2.3	293.56	293.73	293.88	294.34	0.314001	3.46	0.66	5.08	3.05
Johnson Creek	1	4419	10-Jun-89	2	293.56	293.72	293.85	294.28	0.327714	3.33	0.6	5.01	3.08
Johnson Creek	1	4419	18-May-90	1.9	293.56	293.71	293.84	294.26	0.332247	3.29	0.58	4.99	3.08
Johnson Creek	1	4419	27-Oct-91	1	293.56	293.66	293.76	294.09	0.465984	2.88	0.35	4.72	3.39
Johnson Creek	1	4414	25-Jul-77	3.1	293.54	293.87	293.88	294	0.027526	1.59	2.05	9.31	1.01
Johnson Creek	1	4414	15-Sep-78	2.4	293.54	293.82	293.82	293.94	0.028592	1.51	1.62	8.04	1.01
Johnson Creek	1	4414	29-Jul-86	2.3	293.54	293.82	293.82	293.93	0.02807	1.48	1.58	7.86	1
Johnson Creek	1	4414	10-Jun-89	2	293.54	293.8	293.8	293.9	0.028861	1.42	1.42	7.39	1
Johnson Creek	1	4414	18-May-90	1.9	293.54	293.79	293.79	293.89	0.029182	1.4	1.36	7.26	1
Johnson Creek	1	4414	27-Oct-91	1	293.54	293.72	293.72	293.79	0.033321	1.15	0.87	6.42	1
Johnson Creek	1	4409	25-Jul-77	3.1	293.06	293.32	293.44	293.7	0.147639	2.84	1.22	6.86	2.17
Johnson Creek	1	4409	15-Sep-78	2.4	293.06	293.28	293.39	293.63	0.149392	2.73	0.99	6.1	2.16
Johnson Creek	1	4409	29-Jul-86	2.3	293.06	293.28	293.38	293.62	0.149465	2.72	0.96	5.95	2.16
Johnson Creek	1	4409	10-Jun-89	2	293.06	293.26	293.36	293.59	0.153592	2.64	0.86	5.72	2.17
Johnson Creek	1	4409	18-May-90	1.9	293.06	293.25	293.35	293.57	0.156102	2.61	0.83	5.68	2.18
Johnson Creek	1	4409	27-Oct-91	1	293.06	293.2	293.26	293.43	0.186238	2.21	0.51	5.29	2.24
Johnson Creek	1	4403	25-Jul-77	3.1	292.55	292.86	292.91	293.05	0.061634	1.92	1.67	9.44	1.43
Johnson Creek	1	4403	15-Sep-78	2.4	292.55	292.83	292.87	292.99	0.060361	1.74	1.42	9.23	1.39
Johnson Creek	1	4403	29-Jul-86	2.3	292.55	292.83	292.87	292.98	0.060066	1.71	1.38	9.2	1.38
Johnson Creek	1	4403	10-Jun-89	2	292.55	292.82	292.85	292.95	0.058294	1.61	1.28	9.1	1.34
Johnson Creek	1	4403	18-May-90	1.9	292.55	292.81	292.84	292.94	0.057541	1.57	1.24	9.07	1.33
Johnson Creek	1	4403	27-Oct-91	1	292.55	292.77	292.78	292.84	0.046909	1.19	0.85	8.29	1.15
Johnson Creek	1	4398	25-Jul-77	3.1	292.11	292.4	292.49	292.69	0.094615	2.38	1.3	7.04	1.76
Johnson Creek	1	4398	15-Sep-78	2.4	292.11	292.36	292.45	292.63	0.093585	2.32	1.03	5.76	1.75
Johnson Creek	1	4398	29-Jul-86	2.3	292.11	292.35	292.44	292.62	0.092393	2.31	1	5.51	1.74
Johnson Creek	1	4398	10-Jun-89	2	292.11	292.32	292.42	292.6	0.093006	2.32	0.86	4.79	1.74
Johnson Creek	1	4398	18-May-90	1.9	292.11	292.32	292.41	292.59	0.094908	2.31	0.82	4.66	1.76
Johnson Creek	1	4398	27-Oct-91	1	292.11	292.24	292.31	292.47	0.152408	2.11	0.47	4.42	2.06
Johnson Creek	1	4392	25-Jul-77	3.1	291.81	292.11	292.14	292.25	0.047769	1.7	1.82	9.91	1.27
Johnson Creek	1	4392	15-Sep-78	2.4	291.81	292.08	292.1	292.2	0.046215	1.54	1.56	9.66	1.22
Johnson Creek	1	4392	29-Jul-86	2.3	291.81	292.08	292.1	292.19	0.046744	1.52	1.52	9.62	1.22
Johnson Creek	1	4392	10-Jun-89	2	291.81	292.06	292.08	292.17	0.045781	1.43	1.4	9.54	1.19
Johnson Creek	1	4392	18-May-90	1.9	291.81	292.06	292.08	292.16	0.044832	1.4	1.36	9.52	1.18
Johnson Creek	1	4392	27-Oct-91	1	291.81	292	292	292.07	0.035167	1.13	0.89	7.09	1.02
Johnson Creek	1	4385.703	25-Jul-77	3.1	291.6	291.84	291.87	291.98	0.040978	1.64	1.89	9.59	1.18
Johnson Creek	1	4385.703	15-Sep-78	2.4	291.6	291.81	291.83	291.93	0.042589	1.51	1.58	9.36	1.18
Johnson Creek	1	4385.703	29-Jul-86	2.3	291.6	291.81	291.82	291.92	0.041674	1.48	1.55	9.34	1.16
Johnson Creek	1	4385.703	10-Jun-89	2	291.6	291.79	291.81	291.89	0.04241	1.41	1.41	9.23	1.15
Johnson Creek	1	4385.703	18-May-90	1.9	291.6	291.79	291.8	291.89	0.043764	1.4	1.36	9.19	1.17
Johnson Creek	1	4385.703	27-Oct-91	1	291.6	291.73	291.74	291.8	0.052611	1.17	0.86	8.81	1.19
Johnson Creek	1	4381	25-Jul-77	3.1	291.3	291.71	291.72	291.83	0.031478	1.58	1.97	8.59	1.05
Johnson Creek	1	4381	15-Sep-78	2.4	291.3	291.66	291.67	291.78	0.030866	1.5	1.6	7.48	1.03
Johnson Creek	1	4381	29-Jul-86	2.3	291.3	291.66	291.66	291.77	0.029666	1.46	1.58	7.4	1.01
Johnson Creek	1	4381	10-Jun-89	2	291.3	291.63	291.63	291.74	0.03038	1.43	1.4	6.93	1.01
Johnson Creek	1	4381	18-May-90	1.9	291.3	291.63	291.63	291.73	0.030401	1.41	1.35	6.78	1.01
Johnson Creek	1	4381	27-Oct-91	1	291.3	291.53	291.54	291.61	0.034463	1.25	0.8	5.32	1.03
Johnson Creek	1	4377	25-Jul-77	3.1	291.13	291.48	291.52	291.68	0.040194	1.96	1.58	6	1.22
Johnson Creek	1	4377	15-Sep-78	2.4	291.13	291.43	291.47	291.61	0.047083	1.89	1.27	5.77	1.29
Johnson Creek	1	4377	29-Jul-86	2.3	291.13	291.42	291.46	291.6	0.049663	1.89	1.21	5.73	1.31
Johnson Creek	1	4377	10-Jun-89	2	291.13	291.4	291.44	291.57	0.050568	1.81	1.1	5.64	1.31
Johnson Creek	1	4377	18-May-90	1.9	291.13	291.39	291.43	291.55	0.051459	1.79	1.06	5.61	1.31
Johnson Creek	1	4377	27-Oct-91	1	291.13	291.32	291.34	291.43	0.052495	1.49	0.67	4.76	1.27

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4372	25-Jul-77	3.1	290.3	290.67	290.82	291.25	0.215147	3.36	0.92	5.42	2.61
Johnson Creek	1	4372	15-Sep-78	2.4	290.3	290.64	290.77	291.13	0.22668	3.11	0.77	5.31	2.61
Johnson Creek	1	4372	29-Jul-86	2.3	290.3	290.64	290.76	291.11	0.223942	3.05	0.75	5.29	2.59
Johnson Creek	1	4372	10-Jun-89	2	290.3	290.62	290.74	291.07	0.235204	2.95	0.68	5.24	2.61
Johnson Creek	1	4372	18-May-90	1.9	290.3	290.62	290.73	291.05	0.235178	2.91	0.65	5.14	2.6
Johnson Creek	1	4372	27-Oct-91	1	290.3	290.55	290.65	290.91	0.24826	2.65	0.38	3.55	2.6
Johnson Creek	1	4366	25-Jul-77	3.1	289.45	289.78	289.94	290.31	0.134506	3.2	0.97	4.36	2.17
Johnson Creek	1	4366	15-Sep-78	2.4	289.45	289.75	289.88	290.18	0.131848	2.91	0.82	4.23	2.1
Johnson Creek	1	4366	29-Jul-86	2.3	289.45	289.75	289.87	290.17	0.132325	2.87	0.8	4.21	2.1
Johnson Creek	1	4366	10-Jun-89	2	289.45	289.73	289.84	290.11	0.129658	2.72	0.74	4.14	2.06
Johnson Creek	1	4366	18-May-90	1.9	289.45	289.72	289.83	290.09	0.13007	2.67	0.71	4.12	2.05
Johnson Creek	1	4366	27-Oct-91	1	289.45	289.66	289.73	289.9	0.133556	2.14	0.47	3.88	1.97
Johnson Creek	1	4360	25-Jul-77	3.1	288.82	289.21	289.28	289.48	0.117035	2.56	1.53	8.37	1.95
Johnson Creek	1	4360	15-Sep-78	2.4	288.82	289.18	289.25	289.4	0.10936	2.28	1.33	8.2	1.85
Johnson Creek	1	4360	29-Jul-86	2.3	288.82	289.18	289.24	289.4	0.106169	2.29	1.28	7.84	1.83
Johnson Creek	1	4360	10-Jun-89	2	288.82	289.16	289.23	289.38	0.100827	2.28	1.14	7.13	1.79
Johnson Creek	1	4360	18-May-90	1.9	288.82	289.15	289.21	289.37	0.098977	2.26	1.1	6.99	1.77
Johnson Creek	1	4360	27-Oct-91	1	288.82	289.08	289.14	289.24	0.085662	1.92	0.66	5.35	1.61
Johnson Creek	1	4355	25-Jul-77	3.1	288.38	288.91	288.96	289.13	0.044804	2.32	1.87	7.2	1.33
Johnson Creek	1	4355	15-Sep-78	2.4	288.38	288.85	288.91	289.05	0.04801	2.16	1.51	6.87	1.34
Johnson Creek	1	4355	29-Jul-86	2.3	288.38	288.82	288.9	289.04	0.052352	2.31	1.29	5.24	1.41
Johnson Creek	1	4355	10-Jun-89	2	288.38	288.78	288.82	289	0.0594	2.3	1.1	4.81	1.48
Johnson Creek	1	4355	18-May-90	1.9	288.38	288.77	288.81	288.99	0.061197	2.29	1.05	4.69	1.49
Johnson Creek	1	4355	27-Oct-91	1	288.38	288.66	288.7	288.83	0.083646	2.01	0.61	3.38	1.63
Johnson Creek	1	4350	25-Jul-77	3.1	288	288.43	288.54	288.78	0.101679	3.06	1.37	4.73	1.93
Johnson Creek	1	4350	15-Sep-78	2.4	288	288.38	288.47	288.68	0.106796	2.89	1.12	4.23	1.93
Johnson Creek	1	4350	29-Jul-86	2.3	288	288.37	288.46	288.66	0.103367	2.82	1.1	4.19	1.9
Johnson Creek	1	4350	10-Jun-89	2	288	288.35	288.41	288.61	0.098298	2.67	1.01	3.99	1.83
Johnson Creek	1	4350	18-May-90	1.9	288	288.34	288.41	288.59	0.096406	2.61	0.98	3.92	1.81
Johnson Creek	1	4350	27-Oct-91	1	288	288.25	288.28	288.4	0.079081	2.04	0.66	3.18	1.58
Johnson Creek	1	4343	25-Jul-77	3.1	287.41	287.8	287.77	287.95	0.087323	2.31	1.86	5.89	1.69
Johnson Creek	1	4343	15-Sep-78	2.4	287.41	287.72	287.72	287.87	0.10614	2.14	1.45	5.24	1.79
Johnson Creek	1	4343	29-Jul-86	2.3	287.41	287.71	287.72	287.86	0.108568	2.13	1.4	5.16	1.8
Johnson Creek	1	4343	10-Jun-89	2	287.41	287.71	287.69	287.82	0.088403	1.91	1.37	5.11	1.62
Johnson Creek	1	4343	18-May-90	1.9	287.41	287.7	287.68	287.81	0.083138	1.84	1.35	5.09	1.57
Johnson Creek	1	4343	27-Oct-91	1	287.41	287.63	287.58	287.69	0.056663	1.36	1.01	4.59	1.26
Johnson Creek	1	4337	25-Jul-77	3.1	286.95	287.34	287.34	287.47	0.077833	1.92	2.11	11.96	1.56
Johnson Creek	1	4337	15-Sep-78	2.4	286.95	287.32	287.33	287.42	0.058332	1.58	1.96	11.58	1.33
Johnson Creek	1	4337	29-Jul-86	2.3	286.95	287.31	287.32	287.41	0.067885	1.62	1.8	11.28	1.42
Johnson Creek	1	4337	10-Jun-89	2	286.95	287.3	287.3	287.38	0.064123	1.51	1.66	10.93	1.36
Johnson Creek	1	4337	18-May-90	1.9	286.95	287.29	287.29	287.38	0.0677	1.5	1.57	10.65	1.39
Johnson Creek	1	4337	27-Oct-91	1	286.95	287.21	287.21	287.28	0.089875	1.29	0.89	6.83	1.49
Johnson Creek	1	4329	25-Jul-77	3.1	286.53	286.89	286.92	287.02	0.053007	1.97	2.71	15.79	1.36
Johnson Creek	1	4329	15-Sep-78	2.4	286.53	286.86	286.89	286.98	0.052072	1.84	2.26	15.38	1.33
Johnson Creek	1	4329	29-Jul-86	2.3	286.53	286.86	286.88	286.96	0.046248	1.74	2.29	15.41	1.25
Johnson Creek	1	4329	10-Jun-89	2	286.53	286.85	286.87	286.95	0.047089	1.7	2.04	15.18	1.25
Johnson Creek	1	4329	18-May-90	1.9	286.53	286.84	286.87	286.94	0.045035	1.65	2	15.14	1.22
Johnson Creek	1	4329	27-Oct-91	1	286.53	286.79	286.79	286.85	0.036021	1.26	1.26	11.32	1.05
Johnson Creek	1	4321.43	25-Jul-77	3.1	285.96	286.45	286.51	286.67	0.035101	2.14	1.83	8.81	1.17
Johnson Creek	1	4321.43	15-Sep-78	2.4	285.96	286.39	286.45	286.6	0.039398	2.09	1.33	7.86	1.22
Johnson Creek	1	4321.43	29-Jul-86	2.3	285.96	286.37	286.44	286.6	0.042273	2.12	1.22	7.59	1.25
Johnson Creek	1	4321.43	10-Jun-89	2	285.96	286.34	286.41	286.56	0.045666	2.09	1	6.04	1.29
Johnson Creek	1	4321.43	18-May-90	1.9	285.96	286.33	286.4	286.55	0.048295	2.09	0.93	5.1	1.32
Johnson Creek	1	4321.43	27-Oct-91	1	285.96	286.2	286.26	286.41	0.081614	2.04	0.49	2.95	1.6
Johnson Creek	1	4312	25-Jul-77	3.1	285.67	286.24	286.25	286.37	0.030646	1.77	2.54	12.27	1.05
Johnson Creek	1	4312	15-Sep-78	2.4	285.67	286.22	286.22	286.32	0.020203	1.48	2.35	11.58	0.85
Johnson Creek	1	4312	29-Jul-86	2.3	285.67	286.21	286.21	286.31	0.021754	1.52	2.18	11.25	0.88
Johnson Creek	1	4312	10-Jun-89	2	285.67	286.18	286.18	286.28	0.023931	1.52	1.83	10.29	0.91
Johnson Creek	1	4312	18-May-90	1.9	285.67	286.17	286.16	286.27	0.024317	1.51	1.73	10.03	0.91

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4312	27-Oct-91	1	285.67	286.07	286.07	286.15	0.025789	1.3	0.89	6.9	0.9
Johnson Creek	1	4304	25-Jul-77	3.1	285.06	285.33	285.45	285.78	0.273086	3.83	1.19	5.63	2.96
Johnson Creek	1	4304	15-Sep-78	2.4	285.06	285.27	285.4	285.82	0.406997	4.31	0.87	5	3.55
Johnson Creek	1	4304	29-Jul-86	2.3	285.06	285.26	285.39	285.8	0.412904	4.26	0.84	4.98	3.56
Johnson Creek	1	4304	10-Jun-89	2	285.06	285.24	285.37	285.74	0.425477	4.08	0.76	4.93	3.57
Johnson Creek	1	4304	18-May-90	1.9	285.06	285.24	285.37	285.69	0.390836	3.89	0.76	4.92	3.42
Johnson Creek	1	4304	27-Oct-91	1	285.06	285.18	285.27	285.54	0.69843	3.56	0.43	4.68	4.17
Johnson Creek	1	4293	25-Jul-77	3.1	285.16	285.07	284.92	285.14	0.050091		2.71	10.51	0
Johnson Creek	1	4293	15-Sep-78	2.4	285.16	285.01	284.86	285.07	0.043127		2.15	7.07	0
Johnson Creek	1	4293	29-Jul-86	2.3	285.16	285	284.85	285.06	0.04186		2.09	6.86	0
Johnson Creek	1	4293	10-Jun-89	2	285.16	284.97	284.82	285.03	0.038249		1.92	5.3	0
Johnson Creek	1	4293	18-May-90	1.9	285.16	284.96	284.81	285.02	0.037217		1.86	5.03	0
Johnson Creek	1	4293	27-Oct-91	1	285.16	284.84	284.71	284.87	0.028636		1.31	4.47	0
Johnson Creek	1	4287	25-Jul-77	3.1	285.62	284.85		284.89	0.035905		3.81	14.43	0
Johnson Creek	1	4287	15-Sep-78	2.4	285.62	284.81		284.84	0.034973		3.27	14.17	0
Johnson Creek	1	4287	29-Jul-86	2.3	285.62	284.81		284.83	0.03487		3.18	14.13	0
Johnson Creek	1	4287	10-Jun-89	2	285.62	284.79		284.81	0.034138		2.93	13.95	0
Johnson Creek	1	4287	18-May-90	1.9	285.62	284.78		284.81	0.033225		2.86	13.89	0
Johnson Creek	1	4287	27-Oct-91	1	285.62	284.68		284.7	0.030348		1.72	9.82	0
Johnson Creek	1	4279	25-Jul-77	3.1	285.32	284.31	284.31	284.4	0.118004		2.3	11.99	0
Johnson Creek	1	4279	15-Sep-78	2.4	285.32	284.26	284.26	284.35	0.127512		1.78	10.07	0
Johnson Creek	1	4279	29-Jul-86	2.3	285.32	284.25	284.25	284.35	0.12915		1.71	9.76	0
Johnson Creek	1	4279	10-Jun-89	2	285.32	284.23	284.23	284.32	0.13628		1.51	8.4	0
Johnson Creek	1	4279	18-May-90	1.9	285.32	284.22	284.22	284.31	0.145766		1.41	8.18	0
Johnson Creek	1	4279	27-Oct-91	1	285.32	284.14	284.14	284.21	0.173594		0.84	6.01	0
Johnson Creek	1	4271	25-Jul-77	3.1	284.43	283.79	283.6	283.82	0.022751		3.92	10.99	0
Johnson Creek	1	4271	15-Sep-78	2.4	284.43	283.72	283.56	283.75	0.021816		3.24	9.87	0
Johnson Creek	1	4271	29-Jul-86	2.3	284.43	283.71	283.55	283.74	0.0218		3.15	9.67	0
Johnson Creek	1	4271	10-Jun-89	2	284.43	283.68	283.54	283.7	0.023311		2.82	9.52	0
Johnson Creek	1	4271	18-May-90	1.9	284.43	283.66	283.53	283.69	0.023999		2.71	9.47	0
Johnson Creek	1	4271	27-Oct-91	1	284.43	283.56	283.47	283.57	0.027988		1.71	8.89	0
Johnson Creek	1	4263	25-Jul-77	3.1	284.04	283.5		283.56	0.053372		2.82	9.15	0
Johnson Creek	1	4263	15-Sep-78	2.4	284.04	283.4		283.48	0.071002		1.96	6.66	0
Johnson Creek	1	4263	29-Jul-86	2.3	284.04	283.38		283.46	0.073361		1.86	6.38	0
Johnson Creek	1	4263	10-Jun-89	2	284.04	283.38		283.44	0.055265		1.87	6.39	0
Johnson Creek	1	4263	18-May-90	1.9	284.04	283.36		283.43	0.055339		1.75	5.85	0
Johnson Creek	1	4263	27-Oct-91	1	284.04	283.24		283.29	0.054946		1.1	4.85	0
Johnson Creek	1	4257	25-Jul-77	3.1	282.56	283.04	283.04	283.18	0.071535	1.95	1.93	6.42	1.48
Johnson Creek	1	4257	15-Sep-78	2.4	282.56	283.02	283.02	283.12	0.046949	1.78	1.82	5.69	1.23
Johnson Creek	1	4257	29-Jul-86	2.3	282.56	283.02	283.02	283.12	0.044797	1.76	1.79	5.59	1.2
Johnson Creek	1	4257	10-Jun-89	2	282.56	282.94	282.94	283.09	0.057862	2.3	1.42	4.74	1.39
Johnson Creek	1	4257	18-May-90	1.9	282.56	282.93	282.93	283.07	0.057268	2.26	1.38	4.72	1.38
Johnson Creek	1	4257	27-Oct-91	1	282.56	282.83	282.83	282.93	0.06113	1.89	0.9	4.51	1.36
Johnson Creek	1	4249	25-Jul-77	3.1	282.11	282.68	282.68	282.86	0.02322	2.04	2.06	8.08	1
Johnson Creek	1	4249	15-Sep-78	2.4	282.11	282.58	282.61	282.78	0.035332	2.11	1.42	5.04	1.17
Johnson Creek	1	4249	29-Jul-86	2.3	282.11	282.56	282.6	282.77	0.037439	2.12	1.36	4.95	1.2
Johnson Creek	1	4249	10-Jun-89	2	282.11	282.54	282.57	282.72	0.035117	1.96	1.26	4.73	1.15
Johnson Creek	1	4249	18-May-90	1.9	282.11	282.53	282.55	282.7	0.035437	1.93	1.21	4.66	1.15
Johnson Creek	1	4249	27-Oct-91	1	282.11	282.48	282.44	282.55	0.018388	1.25	0.97	4.44	0.81
Johnson Creek	1	4237.645	25-Jul-77	3.1	282.04	282.37	282.32	282.42	0.021663	1.46	4.54	22.23	0.91
Johnson Creek	1	4237.645	15-Sep-78	2.4	282.04	282.33	282.3	282.38	0.023809	1.37	3.69	21.28	0.92
Johnson Creek	1	4237.645	29-Jul-86	2.3	282.04	282.33	282.29	282.37	0.023943	1.36	3.58	21.11	0.92
Johnson Creek	1	4237.645	10-Jun-89	2	282.04	282.31	282.28	282.35	0.024972	1.31	3.2	20.64	0.93
Johnson Creek	1	4237.645	18-May-90	1.9	282.04	282.31	282.28	282.34	0.024722	1.28	3.1	20.54	0.92
Johnson Creek	1	4237.645	27-Oct-91	1	282.04	282.24	282.23	282.27	0.031047	1.1	1.83	18.29	0.97
Johnson Creek	1	4230	25-Jul-77	3.1	281.56	282.15	282.11	282.23	0.024986	1.73	3.35	14.03	0.99
Johnson Creek	1	4230	15-Sep-78	2.4	281.56	282.1	282.07	282.18	0.026236	1.6	2.73	13.32	0.99
Johnson Creek	1	4230	29-Jul-86	2.3	281.56	282.09	282.07	282.17	0.026759	1.58	2.63	13.21	0.99

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4230	10-Jun-89	2	281.56	282.07	282.06	282.14	0.027558	1.51	2.35	12.67	0.99
Johnson Creek	1	4230	18-May-90	1.9	281.56	282.06	282.05	282.13	0.02844	1.53	2.22	12.37	1.01
Johnson Creek	1	4230	27-Oct-91	1	281.56	281.97	281.95	282.03	0.029702	1.39	1.2	8.78	1
Johnson Creek	1	4225	25-Jul-77	3.1	281.44	281.94	281.94	282.07	0.037604	1.99	2.5	9.47	1.15
Johnson Creek	1	4225	15-Sep-78	2.4	281.44	281.89	281.89	282.01	0.039932	1.87	2.02	8.82	1.16
Johnson Creek	1	4225	29-Jul-86	2.3	281.44	281.88	281.88	282	0.040024	1.85	1.96	8.74	1.16
Johnson Creek	1	4225	10-Jun-89	2	281.44	281.86	281.86	281.97	0.040088	1.77	1.76	8.49	1.15
Johnson Creek	1	4225	18-May-90	1.9	281.44	281.85	281.85	281.96	0.040441	1.75	1.69	8.4	1.15
Johnson Creek	1	4225	27-Oct-91	1	281.44	281.76	281.76	281.84	0.044965	1.47	1	7.31	1.15
Johnson Creek	1	4219	25-Jul-77	3.1	280.93	281.34	281.43	281.69	0.105424	3.09	1.55	6.51	1.91
Johnson Creek	1	4219	15-Sep-78	2.4	280.93	281.3	281.4	281.62	0.096985	2.93	1.29	6.15	1.82
Johnson Creek	1	4219	29-Jul-86	2.3	280.93	281.29	281.39	281.61	0.098005	2.91	1.25	6.13	1.83
Johnson Creek	1	4219	10-Jun-89	2	280.93	281.27	281.37	281.57	0.101483	2.82	1.12	6.08	1.84
Johnson Creek	1	4219	18-May-90	1.9	280.93	281.26	281.36	281.56	0.102093	2.78	1.08	6.06	1.84
Johnson Creek	1	4219	27-Oct-91	1	280.93	281.17	281.26	281.38	0.136355	2.35	0.58	3.98	1.98
Johnson Creek	1	4213	25-Jul-77	3.1	280.5	280.96	280.88	281.06	0.022021	1.69	2.59	6.81	0.94
Johnson Creek	1	4213	15-Sep-78	2.4	280.5	280.9	280.83	280.99	0.022228	1.57	2.18	6.46	0.92
Johnson Creek	1	4213	29-Jul-86	2.3	280.5	280.89	280.81	280.97	0.022396	1.56	2.11	6.39	0.92
Johnson Creek	1	4213	10-Jun-89	2	280.5	280.86	280.78	280.94	0.021798	1.49	1.94	6.21	0.9
Johnson Creek	1	4213	18-May-90	1.9	280.5	280.85	280.78	280.92	0.022368	1.48	1.86	6.14	0.91
Johnson Creek	1	4213	27-Oct-91	1	280.5	280.78	280.68	280.81	0.014071	1.03	1.42	5.79	0.7
Johnson Creek	1	4207	25-Jul-77	3.1	280.06	280.7	280.7	280.86	0.06012	2.21	1.98	7.02	1.44
Johnson Creek	1	4207	15-Sep-78	2.4	280.06	280.65	280.65	280.78	0.059735	2.01	1.67	6.54	1.4
Johnson Creek	1	4207	29-Jul-86	2.3	280.06	280.64	280.64	280.77	0.05863	1.97	1.63	6.46	1.38
Johnson Creek	1	4207	10-Jun-89	2	280.06	280.61	280.61	280.74	0.061811	1.93	1.45	6.08	1.4
Johnson Creek	1	4207	18-May-90	1.9	280.06	280.61	280.61	280.73	0.058601	1.87	1.43	6.03	1.36
Johnson Creek	1	4207	27-Oct-91	1	280.06	280.41	280.41	280.63	0.075997	2.55	0.6	2.38	1.57
Johnson Creek	1	4200	25-Jul-77	3.1	279.65	280.17	280.25	280.44	0.052338	2.38	1.72	8.91	1.42
Johnson Creek	1	4200	15-Sep-78	2.4	279.65	280.13	280.2	280.36	0.052844	2.24	1.34	7.32	1.4
Johnson Creek	1	4200	29-Jul-86	2.3	279.65	280.12	280.2	280.35	0.05362	2.22	1.28	7.19	1.4
Johnson Creek	1	4200	10-Jun-89	2	279.65	280.1	280.17	280.31	0.052391	2.11	1.15	6.86	1.37
Johnson Creek	1	4200	18-May-90	1.9	279.65	280.09	280.16	280.3	0.055237	2.11	1.07	6.53	1.4
Johnson Creek	1	4200	27-Oct-91	1	279.65	280	280.03	280.13	0.05589	1.64	0.67	4.04	1.33
Johnson Creek	1	4190	25-Jul-77	3.1	279.29	279.5	279.53	279.68	0.114942	2.25	1.72	8.26	1.88
Johnson Creek	1	4190	15-Sep-78	2.4	279.29	279.47	279.5	279.61	0.110675	1.98	1.48	7.92	1.79
Johnson Creek	1	4190	29-Jul-86	2.3	279.29	279.46	279.48	279.6	0.108665	1.93	1.45	7.88	1.77
Johnson Creek	1	4190	10-Jun-89	2	279.29	279.45	279.46	279.57	0.110067	1.8	1.32	7.69	1.75
Johnson Creek	1	4190	18-May-90	1.9	279.29	279.45	279.45	279.56	0.100005	1.72	1.32	7.68	1.67
Johnson Creek	1	4190	27-Oct-91	1	279.29	279.38	279.38	279.45	0.110274	1.2	0.84	6.56	1.58
Johnson Creek	1	4183	25-Jul-77	3.1	278.5	278.82	278.87	279.02	0.075273	2.32	1.79	7.18	1.61
Johnson Creek	1	4183	15-Sep-78	2.4	278.5	278.82	278.81	278.94	0.048214	1.83	1.76	7.16	1.29
Johnson Creek	1	4183	29-Jul-86	2.3	278.5	278.81	278.8	278.93	0.048821	1.8	1.71	7.13	1.29
Johnson Creek	1	4183	10-Jun-89	2	278.5	278.79	278.78	278.9	0.047358	1.68	1.58	7.05	1.25
Johnson Creek	1	4183	18-May-90	1.9	278.5	278.79	278.77	278.89	0.04641	1.63	1.54	7.03	1.23
Johnson Creek	1	4183	27-Oct-91	1	278.5	278.7	278.67	278.77	0.051069	1.38	0.98	5.87	1.23
Johnson Creek	1	4173	25-Jul-77	3.1	277.93	278.52	278.52	278.65	0.028593	1.68	2.3	9.16	1.03
Johnson Creek	1	4173	15-Sep-78	2.4	277.93	278.48	278.48	278.59	0.028194	1.58	1.9	8.6	1.01
Johnson Creek	1	4173	29-Jul-86	2.3	277.93	278.47	278.47	278.58	0.027717	1.55	1.85	8.52	1
Johnson Creek	1	4173	10-Jun-89	2	277.93	278.45	278.45	278.55	0.028217	1.51	1.65	8.18	1
Johnson Creek	1	4173	18-May-90	1.9	277.93	278.44	278.44	278.54	0.028338	1.5	1.58	8.06	1
Johnson Creek	1	4173	27-Oct-91	1	277.93	278.35	278.35	278.43	0.025404	1.26	0.95	6.75	0.91
Johnson Creek	1	4162	25-Jul-77	3.1	277.23	277.48	277.62	277.94	0.247258	3.74	1.36	8.96	2.81
Johnson Creek	1	4162	15-Sep-78	2.4	277.23	277.44	277.57	277.88	0.299064	3.6	1.06	8.06	3
Johnson Creek	1	4162	29-Jul-86	2.3	277.23	277.44	277.55	277.86	0.29025	3.51	1.04	8.01	2.94
Johnson Creek	1	4162	10-Jun-89	2	277.23	277.43	277.55	277.82	0.312475	3.4	0.92	7.74	3.01
Johnson Creek	1	4162	18-May-90	1.9	277.23	277.42	277.54	277.83	0.361842	3.49	0.85	7.57	3.2
Johnson Creek	1	4162	27-Oct-91	1	277.23	277.36	277.45	277.71	0.435158	3.15	0.49	6.21	3.35
Johnson Creek	1	4154.567	25-Jul-77	3.1	276.71	277.02	277.02	277.11	0.047575	1.71	3.17	19.26	1.25

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4154.567	15-Sep-78	2.4	276.71	276.97	276.97	277.06	0.057964	1.64	2.4	16.11	1.33
Johnson Creek	1	4154.567	29-Jul-86	2.3	276.71	276.98	276.98	277.05	0.050734	1.55	2.44	16.16	1.25
Johnson Creek	1	4154.567	10-Jun-89	2	276.71	276.96	276.95	277.03	0.057679	1.53	2.13	15.57	1.31
Johnson Creek	1	4154.567	18-May-90	1.9	276.71	276.95	276.95	277.02	0.057437	1.5	2.06	15.4	1.3
Johnson Creek	1	4154.567	27-Oct-91	1	276.71	276.9	276.9	276.95	0.057509	1.21	1.33	13.55	1.24
Johnson Creek	1	4150	25-Jul-77	3.1	276.49	276.53	276.57	276.68	0.271628	0.91	1.78	10.45	2.08
Johnson Creek	1	4150	15-Sep-78	2.4	276.49	276.51	276.53	276.62	0.201859	0.56	1.66	10.2	1.65
Johnson Creek	1	4150	29-Jul-86	2.3	276.49	276.5	276.52	276.62	0.24358	0.41	1.51	9.83	1.63
Johnson Creek	1	4150	10-Jun-89	2	276.49	276.5	276.51	276.59	0.17999	0.36	1.52	9.86	1.41
Johnson Creek	1	4150	18-May-90	1.9	276.49	276.49	276.5	276.58	0.195635	0.19	1.43	9.67	1.25
Johnson Creek	1	4150	27-Oct-91	1	276.49	276.42	276.43	276.5	0.226435		0.84	7.71	0
Johnson Creek	1	4146	25-Jul-77	3.1	276.49	276.16	275.96	276.19	0.019036		4.07	12.27	0
Johnson Creek	1	4146	15-Sep-78	2.4	276.49	276.09	275.91	276.12	0.019308		3.34	10.75	0
Johnson Creek	1	4146	29-Jul-86	2.3	276.49	276.08	275.9	276.11	0.019364		3.24	10.56	0
Johnson Creek	1	4146	10-Jun-89	2	276.49	276.05	275.88	276.08	0.01933		2.93	10.2	0
Johnson Creek	1	4146	18-May-90	1.9	276.49	276.04	275.87	276.07	0.019473		2.81	10.07	0
Johnson Creek	1	4146	27-Oct-91	1	276.49	275.93	275.79	275.94	0.019887		1.74	7.76	0
Johnson Creek	1	4140	25-Jul-77	3.1	278.22	275.8	275.79	275.93	0.119718		2.01	7.24	0
Johnson Creek	1	4140	15-Sep-78	2.4	278.22	275.76	275.74	275.86	0.111003		1.72	6.81	0
Johnson Creek	1	4140	29-Jul-86	2.3	278.22	275.76	275.73	275.85	0.108708		1.68	6.75	0
Johnson Creek	1	4140	10-Jun-89	2	278.22	275.73	275.71	275.82	0.11215		1.51	6.53	0
Johnson Creek	1	4140	18-May-90	1.9	278.22	275.72	275.7	275.81	0.110577		1.47	6.51	0
Johnson Creek	1	4140	27-Oct-91	1	278.22	275.66		275.71	0.084171		1.06	6.18	0
Johnson Creek	1	4133	25-Jul-77	3.1	277.79	275.22		275.29	0.071651		2.54	8.44	0
Johnson Creek	1	4133	15-Sep-78	2.4	277.79	275.15		275.22	0.078676		1.99	7.79	0
Johnson Creek	1	4133	29-Jul-86	2.3	277.79	275.14		275.21	0.080524		1.92	7.66	0
Johnson Creek	1	4133	10-Jun-89	2	277.79	275.1		275.18	0.079836		1.65	6.87	0
Johnson Creek	1	4133	18-May-90	1.9	277.79	275.09		275.17	0.081225		1.58	6.62	0
Johnson Creek	1	4133	27-Oct-91	1	277.79	274.96	274.94	275.03	0.117594		0.87	4.82	0
Johnson Creek	1	4127	25-Jul-77	3.1	276.2	275.09		275.12	0.013521		4.33	9.5	0
Johnson Creek	1	4127	15-Sep-78	2.4	276.2	275.03		275.05	0.012515		3.77	9.32	0
Johnson Creek	1	4127	29-Jul-86	2.3	276.2	275.03		275.05	0.012261		3.69	9.29	0
Johnson Creek	1	4127	10-Jun-89	2	276.2	275		275.01	0.011659		3.43	9.21	0
Johnson Creek	1	4127	18-May-90	1.9	276.2	274.99		275.01	0.011297		3.35	9.19	0
Johnson Creek	1	4127	27-Oct-91	1	276.2	274.88		274.89	0.008472		2.39	8.33	0
Johnson Creek	1	4120	25-Jul-77	3.1	274.59	274.83	274.81	274.92	0.096445	2.05	2.46	12.13	1.69
Johnson Creek	1	4120	15-Sep-78	2.4	274.59	274.8	274.78	274.87	0.093003	1.77	2.12	11.84	1.62
Johnson Creek	1	4120	29-Jul-86	2.3	274.59	274.8	274.77	274.87	0.092376	1.73	2.06	11.79	1.6
Johnson Creek	1	4120	10-Jun-89	2	274.59	274.78	274.75	274.84	0.089274	1.58	1.91	11.66	1.55
Johnson Creek	1	4120	18-May-90	1.9	274.59	274.77	274.75	274.84	0.098272	1.56	1.8	11.56	1.6
Johnson Creek	1	4120	27-Oct-91	1	274.59	274.68	274.68	274.74	0.114615	1.23	0.91	7.56	1.62
Johnson Creek	1	4113	25-Jul-77	3.1	273.9	274.45	274.45	274.59	0.025688	1.7	2.07	9.1	0.96
Johnson Creek	1	4113	15-Sep-78	2.4	273.9	274.4	274.4	274.53	0.028429	1.6	1.62	7.25	0.98
Johnson Creek	1	4113	29-Jul-86	2.3	273.9	274.39	274.39	274.51	0.028971	1.59	1.55	6.97	0.98
Johnson Creek	1	4113	10-Jun-89	2	273.9	274.35	274.35	274.48	0.031399	1.6	1.32	5.87	1.01
Johnson Creek	1	4113	18-May-90	1.9	273.9	274.35	274.35	274.47	0.029901	1.55	1.29	5.76	0.99
Johnson Creek	1	4113	27-Oct-91	1	273.9	274.23	274.23	274.33	0.033821	1.38	0.73	4.02	1.01
Johnson Creek	1	4104	25-Jul-77	3.1	273.18	273.55	273.7	274.09	0.160879	3.25	0.95	4.61	2.29
Johnson Creek	1	4104	15-Sep-78	2.4	273.18	273.51	273.65	273.99	0.163485	3.06	0.78	4.24	2.27
Johnson Creek	1	4104	29-Jul-86	2.3	273.18	273.51	273.64	273.97	0.163089	3.03	0.76	4.17	2.26
Johnson Creek	1	4104	10-Jun-89	2	273.18	273.49	273.61	273.92	0.160334	2.89	0.69	4.02	2.23
Johnson Creek	1	4104	18-May-90	1.9	273.18	273.48	273.61	273.91	0.170678	2.91	0.65	3.96	2.28
Johnson Creek	1	4104	27-Oct-91	1	273.18	273.41	273.5	273.72	0.183876	2.46	0.41	3.36	2.26
Johnson Creek	1	4094	25-Jul-77	3.1	272.6	272.91	272.92	273.07	0.059035	2.15	2.07	7.79	1.45
Johnson Creek	1	4094	15-Sep-78	2.4	272.6	272.85	272.87	273	0.083357	2.14	1.59	7.5	1.65
Johnson Creek	1	4094	29-Jul-86	2.3	272.6	272.86	272.86	272.99	0.06096	1.92	1.71	7.57	1.43
Johnson Creek	1	4094	10-Jun-89	2	272.6	272.84	272.84	272.96	0.063911	1.84	1.55	7.47	1.44
Johnson Creek	1	4094	18-May-90	1.9	272.6	272.83	272.83	272.94	0.070566	1.85	1.46	7.42	1.49
Johnson Creek	1	4094	27-Oct-91	1	272.6	272.75	272.75	272.83	0.106489	1.5	0.89	7.09	1.66

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4084	25-Jul-77	3.1	271.78	272.19	272.26	272.48	0.048148	2.42	1.36	4.56	1.35
Johnson Creek	1	4084	15-Sep-78	2.4	271.78	272.15	272.2	272.38	0.041954	2.12	1.2	4.42	1.24
Johnson Creek	1	4084	29-Jul-86	2.3	271.78	272.12	272.19	272.37	0.051216	2.22	1.08	4.29	1.35
Johnson Creek	1	4084	10-Jun-89	2	271.78	272.1	272.16	272.33	0.051385	2.12	0.99	4.18	1.34
Johnson Creek	1	4084	18-May-90	1.9	271.78	272.1	272.15	272.31	0.048621	2.04	0.97	4.16	1.3
Johnson Creek	1	4084	27-Oct-91	1	271.78	272.02	272.04	272.14	0.041667	1.55	0.66	3.71	1.15
Johnson Creek	1	4077	25-Jul-77	3.1	271.47	271.86	271.94	272.14	0.045682	2.36	1.48	5.64	1.35
Johnson Creek	1	4077	15-Sep-78	2.4	271.47	271.81	271.88	272.05	0.048129	2.21	1.19	5.21	1.35
Johnson Creek	1	4077	29-Jul-86	2.3	271.47	271.91	271.87	272.02	0.015775	1.5	1.76	6.04	0.81
Johnson Creek	1	4077	10-Jun-89	2	271.47	271.89	271.84	271.98	0.014969	1.4	1.62	5.84	0.78
Johnson Creek	1	4077	18-May-90	1.9	271.47	271.88	271.83	271.97	0.014355	1.36	1.58	5.79	0.76
Johnson Creek	1	4077	27-Oct-91	1	271.47	271.77	271.72	271.83	0.01308	1.07	1.01	4.78	0.69
Johnson Creek	1	4071	25-Jul-77	3.1	271.55	271.78	271.78	271.92	0.083071	1.63	1.9	7.24	1.54
Johnson Creek	1	4071	15-Sep-78	2.4	271.55	271.74	271.74	271.85	0.083188	1.32	1.59	6.69	1.46
Johnson Creek	1	4071	29-Jul-86	2.3	271.55	271.73	271.73	271.84	0.083651	1.27	1.54	6.53	1.45
Johnson Creek	1	4071	10-Jun-89	2	271.55	271.71	271.71	271.81	0.082499	1.09	1.4	6.21	1.39
Johnson Creek	1	4071	18-May-90	1.9	271.55	271.69	271.69	271.8	0.086956	1	1.32	6	1.39
Johnson Creek	1	4071	27-Oct-91	1	271.55	271.52	271.52	271.64	0.174003		0.64	2.7	0
Johnson Creek	1	4065	25-Jul-77	3.1	270.73	271.14	271.22	271.42	0.068725	2.59	1.64	6.49	1.58
Johnson Creek	1	4065	15-Sep-78	2.4	270.73	271.1	271.17	271.34	0.072989	2.42	1.36	6.37	1.59
Johnson Creek	1	4065	29-Jul-86	2.3	270.73	271.09	271.16	271.33	0.073039	2.39	1.32	6.35	1.59
Johnson Creek	1	4065	10-Jun-89	2	270.73	271.07	271.14	271.3	0.078024	2.33	1.17	6.22	1.62
Johnson Creek	1	4065	18-May-90	1.9	270.73	271.06	271.13	271.28	0.078709	2.29	1.13	6.15	1.62
Johnson Creek	1	4065	27-Oct-91	1	270.73	271.01	271.03	271.12	0.045589	1.63	0.83	5.34	1.21
Johnson Creek	1	4057	25-Jul-77	3.1	270.14	270.73	270.79	270.94	0.047744	2.22	1.95	8.73	1.3
Johnson Creek	1	4057	15-Sep-78	2.4	270.14	270.69	270.74	270.87	0.04597	2.04	1.55	7.65	1.26
Johnson Creek	1	4057	29-Jul-86	2.3	270.14	270.68	270.74	270.86	0.045903	2.02	1.5	7.3	1.25
Johnson Creek	1	4057	10-Jun-89	2	270.14	270.66	270.68	270.82	0.044114	1.91	1.36	6.34	1.22
Johnson Creek	1	4057	18-May-90	1.9	270.14	270.65	270.67	270.81	0.043798	1.89	1.3	6.15	1.21
Johnson Creek	1	4057	27-Oct-91	1	270.14	270.52	270.57	270.69	0.066008	1.9	0.65	4.18	1.41
Johnson Creek	1	4047.476	25-Jul-77	3.1	269.46	269.82	269.96	270.28	0.118491	3	1.03	4.51	2.01
Johnson Creek	1	4047.476	15-Sep-78	2.4	269.46	269.78	269.9	270.19	0.133736	2.84	0.84	4.42	2.08
Johnson Creek	1	4047.476	29-Jul-86	2.3	269.46	269.77	269.89	270.18	0.134385	2.82	0.82	4.35	2.08
Johnson Creek	1	4047.476	10-Jun-89	2	269.46	269.75	269.87	270.15	0.142167	2.78	0.72	4.08	2.12
Johnson Creek	1	4047.476	18-May-90	1.9	269.46	269.74	269.86	270.13	0.144549	2.76	0.69	3.99	2.13
Johnson Creek	1	4047.476	27-Oct-91	1	269.46	269.68	269.76	269.92	0.113211	2.17	0.46	3.23	1.83
Johnson Creek	1	4044	25-Jul-77	3.1	269.25	269.55	269.63	269.8	0.098903	2.56	1.66	8.19	1.84
Johnson Creek	1	4044	15-Sep-78	2.4	269.25	269.53	269.58	269.71	0.084411	2.2	1.48	8	1.67
Johnson Creek	1	4044	29-Jul-86	2.3	269.25	269.52	269.57	269.7	0.08349	2.16	1.45	7.97	1.65
Johnson Creek	1	4044	10-Jun-89	2	269.25	269.56	269.55	269.66	0.036619	1.59	1.72	8.25	1.12
Johnson Creek	1	4044	18-May-90	1.9	269.25	269.55	269.54	269.64	0.036012	1.55	1.68	8.2	1.11
Johnson Creek	1	4044	27-Oct-91	1	269.25	269.48	269.47	269.54	0.034251	1.2	1.13	7.48	1.02
Johnson Creek	1	4039	25-Jul-77	3.1	269.06	269.35	269.35	269.51	0.090777	2.13	1.84	6.8	1.7
Johnson Creek	1	4039	15-Sep-78	2.4	269.06	269.3	269.3	269.43	0.103484	1.9	1.52	6.54	1.74
Johnson Creek	1	4039	29-Jul-86	2.3	269.06	269.3	269.3	269.42	0.103843	1.85	1.48	6.5	1.73
Johnson Creek	1	4039	10-Jun-89	2	269.06	269.28	269.28	269.39	0.092666	1.77	1.39	6.15	1.64
Johnson Creek	1	4039	18-May-90	1.9	269.06	269.27	269.27	269.38	0.096657	1.77	1.32	6.01	1.66
Johnson Creek	1	4039	27-Oct-91	1	269.06	269.19	269.19	269.26	0.121542	1.06	0.83	5.56	1.6
Johnson Creek	1	4033	25-Jul-77	3.1	268.2	268.68	268.79	269.02	0.07314	2.87	1.58	7.16	1.65
Johnson Creek	1	4033	15-Sep-78	2.4	268.2	268.64	268.74	268.94	0.071323	2.63	1.3	6.69	1.61
Johnson Creek	1	4033	29-Jul-86	2.3	268.2	268.63	268.72	268.92	0.07143	2.59	1.25	6.62	1.6
Johnson Creek	1	4033	10-Jun-89	2	268.2	268.6	268.7	268.89	0.077483	2.55	1.08	6.33	1.65
Johnson Creek	1	4033	18-May-90	1.9	268.2	268.6	268.69	268.88	0.076394	2.5	1.05	6.27	1.63
Johnson Creek	1	4033	27-Oct-91	1	268.2	268.52	268.58	268.72	0.074446	2.01	0.62	5.09	1.53
Johnson Creek	1	4027	25-Jul-77	3.1	267.83	268.23	268.25	268.5	0.103188	3.24	1.62	5.43	1.89
Johnson Creek	1	4027	15-Sep-78	2.4	267.83	268.17	268.24	268.41	0.106988	3.04	1.34	4.92	1.89
Johnson Creek	1	4027	29-Jul-86	2.3	267.83	268.17	268.23	268.4	0.107154	3	1.3	4.88	1.89
Johnson Creek	1	4027	10-Jun-89	2	267.83	268.14	268.23	268.35	0.102761	2.84	1.2	4.76	1.84

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	4027	18-May-90	1.9	267.83	268.13	268.18	268.34	0.10454	2.81	1.15	4.7	1.85
Johnson Creek	1	4027	27-Oct-91	1	267.83	268.05	268.08	268.19	0.107079	2.34	0.75	4.34	1.79
Johnson Creek	1	4022	25-Jul-77	3.1	267.47	267.82	267.84	267.97	0.076411	2.01	2.04	10.6	1.57
Johnson Creek	1	4022	15-Sep-78	2.4	267.47	267.8	267.81	267.91	0.06712	1.73	1.81	10.34	1.44
Johnson Creek	1	4022	29-Jul-86	2.3	267.47	267.8	267.8	267.9	0.065042	1.69	1.78	10.3	1.41
Johnson Creek	1	4022	10-Jun-89	2	267.47	267.76	267.78	267.88	0.114477	1.83	1.36	9.69	1.78
Johnson Creek	1	4022	18-May-90	1.9	267.47	267.77	267.77	267.86	0.071877	1.58	1.52	10.02	1.44
Johnson Creek	1	4022	27-Oct-91	1	267.47	267.71	267.71	267.77	0.063492	1.36	0.98	7.28	1.33
Johnson Creek	1	4017	25-Jul-77	3.1	267.04	267.32	267.34	267.47	0.149455	2.67	2.01	10.45	2.17
Johnson Creek	1	4017	15-Sep-78	2.4	267.04	267.28	267.33	267.42	0.166888	2.61	1.63	9.9	2.25
Johnson Creek	1	4017	29-Jul-86	2.3	267.04	267.27	267.33	267.42	0.173017	2.61	1.57	9.8	2.28
Johnson Creek	1	4017	10-Jun-89	2	267.04	267.29	267.29	267.38	0.092118	2	1.76	10.08	1.68
Johnson Creek	1	4017	18-May-90	1.9	267.04	267.26	267.28	267.38	0.153854	2.38	1.44	9.61	2.13
Johnson Creek	1	4017	27-Oct-91	1	267.04	267.2	267.22	267.29	0.18505	2.11	0.85	8.51	2.22
Johnson Creek	1	4010	25-Jul-77	3.1	266.17	266.61	266.72	266.88	0.054055	2.35	1.54	8.03	1.41
Johnson Creek	1	4010	15-Sep-78	2.4	266.17	266.57	266.64	266.8	0.05495	2.15	1.24	7.37	1.39
Johnson Creek	1	4010	29-Jul-86	2.3	266.17	266.56	266.63	266.79	0.054619	2.12	1.2	7.27	1.38
Johnson Creek	1	4010	10-Jun-89	2	266.17	266.52	266.6	266.78	0.077017	2.24	0.93	6.35	1.6
Johnson Creek	1	4010	18-May-90	1.9	266.17	266.53	266.59	266.74	0.059723	2.03	0.99	6.59	1.42
Johnson Creek	1	4010	27-Oct-91	1	266.17	266.45	266.5	266.6	0.061051	1.7	0.59	3.76	1.37
Johnson Creek	1	4001	25-Jul-77	3.1	265.7	266.06	266.14	266.35	0.069536	2.6	1.49	5.8	1.61
Johnson Creek	1	4001	15-Sep-78	2.4	265.7	266.01	266.09	266.26	0.071189	2.39	1.25	5.63	1.59
Johnson Creek	1	4001	29-Jul-86	2.3	265.7	266.01	266.09	266.25	0.071711	2.36	1.22	5.61	1.59
Johnson Creek	1	4001	10-Jun-89	2	265.7	266	266.07	266.19	0.056872	2.09	1.2	5.6	1.41
Johnson Creek	1	4001	18-May-90	1.9	265.7	265.98	266.06	266.19	0.069179	2.18	1.08	5.49	1.54
Johnson Creek	1	4001	27-Oct-91	1	265.7	265.99	265.94	266.05	0.01655	1.1	1.14	5.56	0.76
Johnson Creek	1	3993	25-Jul-77	3.1	265.44	265.93	265.93	266.03	0.025968	1.51	2.93	16.49	0.96
Johnson Creek	1	3993	15-Sep-78	2.4	265.44	265.9	265.9	265.98	0.026936	1.4	2.39	15.65	0.96
Johnson Creek	1	3993	29-Jul-86	2.3	265.44	265.89	265.89	265.98	0.02835	1.4	2.27	15.37	0.98
Johnson Creek	1	3993	10-Jun-89	2	265.44	265.87	265.87	265.95	0.028294	1.33	2.04	14.99	0.96
Johnson Creek	1	3993	18-May-90	1.9	265.44	265.87	265.87	265.95	0.027673	1.3	1.98	14.88	0.95
Johnson Creek	1	3993	27-Oct-91	1	265.44	265.81	265.81	265.86	0.031163	1.09	1.13	11.59	0.95
Johnson Creek	1	3986	25-Jul-77	3.1	265.12	265.47	265.54	265.72	0.074915	2.29	1.69	11.88	1.62
Johnson Creek	1	3986	15-Sep-78	2.4	265.12	265.43	265.52	265.68	0.064873	2.3	1.22	8.26	1.53
Johnson Creek	1	3986	29-Jul-86	2.3	265.12	265.42	265.51	265.67	0.063002	2.24	1.19	8.16	1.51
Johnson Creek	1	3986	10-Jun-89	2	265.12	265.4	265.49	265.64	0.069305	2.21	1	6.03	1.56
Johnson Creek	1	3986	18-May-90	1.9	265.12	265.39	265.48	265.63	0.072302	2.2	0.95	5.38	1.58
Johnson Creek	1	3986	27-Oct-91	1	265.12	265.31	265.36	265.49	0.091633	1.94	0.55	4.47	1.67
Johnson Creek	1	3978.521	25-Jul-77	3.1	264.51	264.87	264.96	265.17	0.067918	2.43	1.28	5.07	1.55
Johnson Creek	1	3978.521	15-Sep-78	2.4	264.51	264.82	264.9	265.11	0.086821	2.39	1	4.95	1.7
Johnson Creek	1	3978.521	29-Jul-86	2.3	264.51	264.81	264.9	265.1	0.088619	2.37	0.97	4.93	1.71
Johnson Creek	1	3978.521	10-Jun-89	2	264.51	264.8	264.87	265.05	0.085799	2.23	0.9	4.89	1.66
Johnson Creek	1	3978.521	18-May-90	1.9	264.51	264.79	264.86	265.03	0.084124	2.17	0.87	4.88	1.64
Johnson Creek	1	3978.521	27-Oct-91	1	264.51	264.74	264.77	264.87	0.069823	1.61	0.62	4.73	1.42
Johnson Creek	1	3974	25-Jul-77	3.1	264.1	264.52	264.6	264.81	0.081394	2.45	1.45	8.92	1.69
Johnson Creek	1	3974	15-Sep-78	2.4	264.1	264.49	264.56	264.73	0.065078	2.24	1.2	6.32	1.51
Johnson Creek	1	3974	29-Jul-86	2.3	264.1	264.48	264.55	264.72	0.063813	2.23	1.15	5.85	1.5
Johnson Creek	1	3974	10-Jun-89	2	264.1	264.45	264.53	264.69	0.062859	2.19	1.01	5.1	1.48
Johnson Creek	1	3974	18-May-90	1.9	264.1	264.44	264.52	264.67	0.063423	2.17	0.96	4.89	1.49
Johnson Creek	1	3974	27-Oct-91	1	264.1	264.35	264.4	264.53	0.069458	1.88	0.57	3.77	1.49
Johnson Creek	1	3964	25-Jul-77	3.1	263.35	263.7	263.75	263.96	0.094365	2.75	1.58	5.71	1.8
Johnson Creek	1	3964	15-Sep-78	2.4	263.35	263.64	263.7	263.88	0.12581	2.69	1.24	5.56	2
Johnson Creek	1	3964	29-Jul-86	2.3	263.35	263.63	263.69	263.87	0.130223	2.67	1.2	5.54	2.02
Johnson Creek	1	3964	10-Jun-89	2	263.35	263.61	263.67	263.83	0.136049	2.54	1.09	5.49	2.03
Johnson Creek	1	3964	18-May-90	1.9	263.35	263.6	263.66	263.81	0.13497	2.48	1.06	5.48	2.01
Johnson Creek	1	3964	27-Oct-91	1	263.35	263.59	263.57	263.66	0.045631	1.4	0.99	5.39	1.16
Johnson Creek	1	3958	25-Jul-77	3.1	263.1	263.28	263.26	263.38	0.097542	1.48	2.26	9.01	1.59
Johnson Creek	1	3958	15-Sep-78	2.4	263.1	263.24	263.22	263.32	0.109572	1.1	1.86	8.85	1.54

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	3958	29-Jul-86	2.3	263.1	263.23	263.21	263.31	0.106106	1.05	1.83	8.83	1.51
Johnson Creek	1	3958	10-Jun-89	2	263.1	263.21	263.2	263.29	0.119085	0.83	1.62	8.65	1.48
Johnson Creek	1	3958	18-May-90	1.9	263.1	263.2	263.19	263.28	0.122415	0.73	1.55	8.59	1.45
Johnson Creek	1	3958	27-Oct-91	1	263.1	263.08	263.08	263.17	0.154153		0.75	4.25	0
Johnson Creek	1	3951	25-Jul-77	3.1	263.56	262.8	262.71	262.87	0.065215		2.51	9.04	0
Johnson Creek	1	3951	15-Sep-78	2.4	263.56	262.75	262.66	262.81	0.061455		2.1	7.42	0
Johnson Creek	1	3951	29-Jul-86	2.3	263.56	262.73	262.65	262.8	0.064269		1.99	7.15	0
Johnson Creek	1	3951	10-Jun-89	2	263.56	262.71	262.62	262.77	0.060024		1.81	6.73	0
Johnson Creek	1	3951	18-May-90	1.9	263.56	262.69	262.61	262.76	0.059433		1.74	6.55	0
Johnson Creek	1	3951	27-Oct-91	1	263.56	262.58	262.49	262.62	0.049929		1.09	4.85	0
Johnson Creek	1	3945	25-Jul-77	3.1	263.23	262.18	262.18	262.28	0.163853		2.14	10.53	0
Johnson Creek	1	3945	15-Sep-78	2.4	263.23	262.14	262.14	262.23	0.17074		1.78	10.06	0
Johnson Creek	1	3945	29-Jul-86	2.3	263.23	262.14	262.14	262.23	0.154844		1.73	9.82	0
Johnson Creek	1	3945	10-Jun-89	2	263.23	262.11	262.11	262.2	0.166794		1.53	8.89	0
Johnson Creek	1	3945	18-May-90	1.9	263.23	262.11	262.11	262.19	0.166823		1.45	8.42	0
Johnson Creek	1	3945	27-Oct-91	1	263.23	262.03	262.03	262.1	0.188619		0.86	6.57	0
Johnson Creek	1	3938	25-Jul-77	3.1	262.45	261.4	261.21	261.45	0.03595		3.14	8.68	0
Johnson Creek	1	3938	15-Sep-78	2.4	262.45	261.31	261.16	261.36	0.034467		2.41	6.32	0
Johnson Creek	1	3938	29-Jul-86	2.3	262.45	261.3	261.15	261.35	0.034287		2.34	6.26	0
Johnson Creek	1	3938	10-Jun-89	2	262.45	261.27	261.12	261.31	0.034087		2.13	6.09	0
Johnson Creek	1	3938	18-May-90	1.9	262.45	261.26	261.12	261.3	0.034124		2.06	6.02	0
Johnson Creek	1	3938	27-Oct-91	1	262.45	261.14	261.01	261.16	0.032771		1.37	5.6	0
Johnson Creek	1	3931	25-Jul-77	3.1	262.09	260.83	260.83	261	0.135824		1.7	5.12	0
Johnson Creek	1	3931	15-Sep-78	2.4	262.09	260.77	260.77	260.92	0.140641		1.41	4.81	0
Johnson Creek	1	3931	29-Jul-86	2.3	262.09	260.76	260.76	260.91	0.141788		1.37	4.79	0
Johnson Creek	1	3931	10-Jun-89	2	262.09	260.74	260.74	260.87	0.143954		1.24	4.72	0
Johnson Creek	1	3931	18-May-90	1.9	262.09	260.73	260.73	260.86	0.145295		1.2	4.7	0
Johnson Creek	1	3931	27-Oct-91	1	262.09	260.63	260.63	260.72	0.164793		0.76	4.43	0
Johnson Creek	1	3926	25-Jul-77	3.1	261.3	260.61	260.44	260.66	0.03026		3.25	8.32	0
Johnson Creek	1	3926	15-Sep-78	2.4	261.3	260.55	260.39	260.58	0.030496		2.73	7.98	0
Johnson Creek	1	3926	29-Jul-86	2.3	261.3	260.54	260.38	260.58	0.029005		2.69	7.87	0
Johnson Creek	1	3926	10-Jun-89	2	261.3	260.51	260.36	260.54	0.029195		2.45	7.71	0
Johnson Creek	1	3926	18-May-90	1.9	261.3	260.5	260.35	260.53	0.029215		2.37	7.66	0
Johnson Creek	1	3926	27-Oct-91	1	261.3	260.39	260.25	260.41	0.029148		1.54	6.81	0
Johnson Creek	1	3919	25-Jul-77	3.1	260.69	260.09	260.09	260.23	0.149219		1.92	7.45	0
Johnson Creek	1	3919	15-Sep-78	2.4	260.69	260.05	260.05	260.16	0.140045		1.59	6.47	0
Johnson Creek	1	3919	29-Jul-86	2.3	260.69	260.03	260.03	260.15	0.153761		1.48	6.25	0
Johnson Creek	1	3919	10-Jun-89	2	260.69	259.99	259.99	260.12	0.151783		1.24	4.87	0
Johnson Creek	1	3919	18-May-90	1.9	260.69	259.98	259.98	260.11	0.15427		1.2	4.84	0
Johnson Creek	1	3919	27-Oct-91	1	260.69	259.89	259.89	259.97	0.169997		0.77	4.53	0
Johnson Creek	1	3913	25-Jul-77	3.1	259.49	259.66	259.49	259.71	0.027723	0.84	3.35	8.66	0.8
Johnson Creek	1	3913	15-Sep-78	2.4	259.49	259.62	259.43	259.65	0.024389	0.68	2.97	8.57	0.73
Johnson Creek	1	3913	29-Jul-86	2.3	259.49	259.61	259.42	259.64	0.024281	0.65	2.9	8.55	0.72
Johnson Creek	1	3913	10-Jun-89	2	259.49	259.59	259.39	259.62	0.023152	0.57	2.7	8.5	0.69
Johnson Creek	1	3913	18-May-90	1.9	259.49	259.58	259.39	259.61	0.022275	0.54	2.65	8.49	0.67
Johnson Creek	1	3913	27-Oct-91	1	259.49	259.46	259.3	259.48	0.016873		1.73	6.55	0
Johnson Creek	1	3906.493	25-Jul-77	3.1	259.08	259.33	259.33	259.44	0.06159	1.86	2.34	10.89	1.43
Johnson Creek	1	3906.493	15-Sep-78	2.4	259.08	259.29	259.29	259.39	0.073694	1.75	1.9	10.59	1.5
Johnson Creek	1	3906.493	29-Jul-86	2.3	259.08	259.28	259.28	259.38	0.075822	1.73	1.84	10.55	1.52
Johnson Creek	1	3906.493	10-Jun-89	2	259.08	259.26	259.26	259.35	0.082558	1.66	1.65	10.42	1.55
Johnson Creek	1	3906.493	18-May-90	1.9	259.08	259.26	259.26	259.34	0.086107	1.64	1.58	10.35	1.57
Johnson Creek	1	3906.493	27-Oct-91	1	259.08	259.19	259.19	259.26	0.102387	1.41	0.98	8.61	1.61
Johnson Creek	1	3902	25-Jul-77	3.1	258.3	258.64	258.75	259.01	0.138174	3.04	1.39	6.7	2.15
Johnson Creek	1	3902	15-Sep-78	2.4	258.3	258.61	258.7	258.91	0.14018	2.76	1.18	6.63	2.12
Johnson Creek	1	3902	29-Jul-86	2.3	258.3	258.61	258.69	258.9	0.139377	2.7	1.14	6.57	2.1
Johnson Creek	1	3902	10-Jun-89	2	258.3	258.59	258.67	258.86	0.135208	2.6	1.03	6.22	2.05
Johnson Creek	1	3902	18-May-90	1.9	258.3	258.59	258.66	258.84	0.132789	2.55	1	6	2.03
Johnson Creek	1	3902	27-Oct-91	1	258.3	258.52	258.57	258.69	0.143301	2.1	0.63	5.22	1.99

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	3895	25-Jul-77	3.1	257.81	258.2	258.27	258.44	0.052866	2.24	1.64	7.64	1.41
Johnson Creek	1	3895	15-Sep-78	2.4	257.81	258.16	258.22	258.36	0.050405	2.03	1.38	7.26	1.35
Johnson Creek	1	3895	29-Jul-86	2.3	257.81	258.16	258.22	258.35	0.049751	1.99	1.34	7.21	1.33
Johnson Creek	1	3895	10-Jun-89	2	257.81	258.14	258.19	258.32	0.050349	1.9	1.2	7.01	1.33
Johnson Creek	1	3895	18-May-90	1.9	257.81	258.13	258.17	258.3	0.050678	1.87	1.16	6.94	1.32
Johnson Creek	1	3895	27-Oct-91	1	257.81	258.07	258.09	258.18	0.046269	1.48	0.73	5.83	1.21
Johnson Creek	1	3890	25-Jul-77	3.1	257.46	257.9	257.97	258.15	0.062352	2.25	1.44	6.59	1.48
Johnson Creek	1	3890	15-Sep-78	2.4	257.46	257.86	257.92	258.08	0.065336	2.06	1.21	6.44	1.47
Johnson Creek	1	3890	29-Jul-86	2.3	257.46	257.86	257.91	258.06	0.065909	2.03	1.17	6.42	1.47
Johnson Creek	1	3890	10-Jun-89	2	257.46	257.84	257.89	258.03	0.066422	1.92	1.07	6.36	1.46
Johnson Creek	1	3890	18-May-90	1.9	257.46	257.84	257.88	258.02	0.06645	1.89	1.04	6.34	1.45
Johnson Creek	1	3890	27-Oct-91	1	257.46	257.76	257.81	257.9	0.068457	1.61	0.63	4.89	1.41
Johnson Creek	1	3884	25-Jul-77	3.1	257.23	257.69	257.7	257.84	0.037982	1.91	2.12	7.49	1.18
Johnson Creek	1	3884	15-Sep-78	2.4	257.23	257.63	257.66	257.78	0.035631	1.88	1.72	6.34	1.15
Johnson Creek	1	3884	29-Jul-86	2.3	257.23	257.63	257.63	257.76	0.036132	1.86	1.67	6.32	1.15
Johnson Creek	1	3884	10-Jun-89	2	257.23	257.6	257.64	257.73	0.036073	1.77	1.53	6.25	1.14
Johnson Creek	1	3884	18-May-90	1.9	257.23	257.59	257.6	257.72	0.036427	1.75	1.47	6.22	1.14
Johnson Creek	1	3884	27-Oct-91	1	257.23	257.5	257.51	257.6	0.037286	1.53	0.91	5.35	1.11
Johnson Creek	1	3877	25-Jul-77	3.1	257.03	257.24	257.26	257.39	0.12174	2.01	1.85	9.08	1.87
Johnson Creek	1	3877	15-Sep-78	2.4	257.03	257.2	257.21	257.33	0.132013	1.76	1.52	8.33	1.86
Johnson Creek	1	3877	29-Jul-86	2.3	257.03	257.2	257.21	257.32	0.126207	1.7	1.5	8.27	1.82
Johnson Creek	1	3877	10-Jun-89	2	257.03	257.18	257.19	257.29	0.120409	1.53	1.38	7.93	1.74
Johnson Creek	1	3877	18-May-90	1.9	257.03	257.18	257.19	257.28	0.115492	1.47	1.35	7.85	1.7
Johnson Creek	1	3877	27-Oct-91	1	257.03	257.1	257.1	257.18	0.108844	0.87	0.82	5.37	1.46
Johnson Creek	1	3871	25-Jul-77	3.1	256.07	256.45	256.55	256.79	0.076418	2.62	1.21	4.83	1.64
Johnson Creek	1	3871	15-Sep-78	2.4	256.07	256.4	256.49	256.7	0.081167	2.43	1.01	4.68	1.64
Johnson Creek	1	3871	29-Jul-86	2.3	256.07	256.39	256.48	256.69	0.083768	2.41	0.97	4.65	1.66
Johnson Creek	1	3871	10-Jun-89	2	256.07	256.37	256.46	256.65	0.089649	2.34	0.87	4.58	1.69
Johnson Creek	1	3871	18-May-90	1.9	256.07	256.36	256.45	256.64	0.093456	2.32	0.83	4.56	1.72
Johnson Creek	1	3871	27-Oct-91	1	256.07	256.29	256.35	256.49	0.116716	1.94	0.52	4.37	1.79
Johnson Creek	1	3863	25-Jul-77	3.1	255.79	256.2	256.22	256.37	0.029525	1.78	1.74	6.04	1.06
Johnson Creek	1	3863	15-Sep-78	2.4	255.79	256.15	256.16	256.3	0.031839	1.67	1.43	5.8	1.07
Johnson Creek	1	3863	29-Jul-86	2.3	255.79	256.14	256.16	256.29	0.035357	1.71	1.35	5.73	1.12
Johnson Creek	1	3863	10-Jun-89	2	255.79	256.13	256.13	256.25	0.028847	1.52	1.32	5.71	1.01
Johnson Creek	1	3863	18-May-90	1.9	255.79	256.12	256.12	256.24	0.02906	1.5	1.27	5.67	1.01
Johnson Creek	1	3863	27-Oct-91	1	255.79	256.04	256.04	256.12	0.032839	1.24	0.81	5.25	1.01
Johnson Creek	1	3857	25-Jul-77	3.1	255.35	255.72	255.82	256.07	0.095792	2.63	1.18	5.41	1.8
Johnson Creek	1	3857	15-Sep-78	2.4	255.35	255.68	255.77	255.99	0.100721	2.44	0.98	5.28	1.8
Johnson Creek	1	3857	29-Jul-86	2.3	255.35	255.68	255.77	255.97	0.095492	2.36	0.97	5.27	1.75
Johnson Creek	1	3857	10-Jun-89	2	255.35	255.65	255.74	255.95	0.109903	2.4	0.83	4.9	1.86
Johnson Creek	1	3857	18-May-90	1.9	255.35	255.65	255.73	255.94	0.110849	2.38	0.8	4.79	1.86
Johnson Creek	1	3857	27-Oct-91	1	255.35	255.58	255.64	255.79	0.119444	2.03	0.49	4.01	1.84
Johnson Creek	1	3852	25-Jul-77	3.1	254.94	255.25	255.37	255.63	0.094072	2.7	1.15	5.08	1.82
Johnson Creek	1	3852	15-Sep-78	2.4	254.94	255.22	255.32	255.53	0.093454	2.47	0.97	4.94	1.77
Johnson Creek	1	3852	29-Jul-86	2.3	254.94	255.21	255.31	255.52	0.094474	2.44	0.94	4.92	1.78
Johnson Creek	1	3852	10-Jun-89	2	254.94	255.2	255.28	255.47	0.092524	2.3	0.87	4.87	1.74
Johnson Creek	1	3852	18-May-90	1.9	254.94	255.19	255.27	255.45	0.091746	2.25	0.84	4.85	1.72
Johnson Creek	1	3852	27-Oct-91	1	254.94	255.14	255.18	255.29	0.088097	1.75	0.57	4.67	1.6
Johnson Creek	1	3846.215	25-Jul-77	3.1	254.64	255.07	255.09	255.24	0.033075	1.8	1.72	6.34	1.1
Johnson Creek	1	3846.215	15-Sep-78	2.4	254.64	255.04	255.04	255.17	0.030481	1.6	1.5	6.18	1.04
Johnson Creek	1	3846.215	29-Jul-86	2.3	254.64	255.03	255.03	255.16	0.029528	1.56	1.47	6.16	1.02
Johnson Creek	1	3846.215	10-Jun-89	2	254.64	255	255.01	255.12	0.033412	1.55	1.29	6.03	1.07
Johnson Creek	1	3846.215	18-May-90	1.9	254.64	254.99	255	255.11	0.035242	1.55	1.23	5.98	1.09
Johnson Creek	1	3846.215	27-Oct-91	1	254.64	254.92	254.92	255	0.033028	1.2	0.83	5.68	1
Johnson Creek	1	3841	25-Jul-77	3.1	254.46	254.78	254.84	255	0.05361	2.1	1.48	6.38	1.39
Johnson Creek	1	3841	15-Sep-78	2.4	254.46	254.73	254.79	254.93	0.058348	1.97	1.22	6.12	1.41
Johnson Creek	1	3841	29-Jul-86	2.3	254.46	254.73	254.78	254.92	0.059962	1.96	1.17	6.07	1.43
Johnson Creek	1	3841	10-Jun-89	2	254.46	254.71	254.76	254.88	0.056396	1.83	1.09	5.99	1.37
Johnson Creek	1	3841	18-May-90	1.9	254.46	254.71	254.75	254.87	0.054691	1.78	1.07	5.97	1.35

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	3841	27-Oct-91	1	254.46	254.64	254.67	254.75	0.060922	1.47	0.68	5.57	1.34
Johnson Creek	1	3836	25-Jul-77	3.1	253.88	254.27	254.39	254.63	0.081825	2.63	1.18	4.87	1.7
Johnson Creek	1	3836	15-Sep-78	2.4	253.88	254.23	254.33	254.54	0.084732	2.43	0.99	4.7	1.69
Johnson Creek	1	3836	29-Jul-86	2.3	253.88	254.23	254.32	254.52	0.084753	2.4	0.96	4.67	1.69
Johnson Creek	1	3836	10-Jun-89	2	253.88	254.21	254.29	254.48	0.090711	2.33	0.86	4.58	1.72
Johnson Creek	1	3836	18-May-90	1.9	253.88	254.2	254.28	254.47	0.093582	2.31	0.82	4.54	1.74
Johnson Creek	1	3836	27-Oct-91	1	253.88	254.13	254.19	254.32	0.102119	1.92	0.52	4.11	1.72
Johnson Creek	1	3832	25-Jul-77	3.1	253.41	253.92	254.02	254.27	0.088897	2.7	1.27	6.47	1.73
Johnson Creek	1	3832	15-Sep-78	2.4	253.41	253.88	253.97	254.18	0.086479	2.47	1.05	6.01	1.68
Johnson Creek	1	3832	29-Jul-86	2.3	253.41	253.87	253.96	254.17	0.086004	2.44	1.01	5.9	1.67
Johnson Creek	1	3832	10-Jun-89	2	253.41	253.86	253.94	254.13	0.082972	2.32	0.91	5.59	1.63
Johnson Creek	1	3832	18-May-90	1.9	253.41	253.85	253.93	254.11	0.081577	2.27	0.88	5.47	1.61
Johnson Creek	1	3832	27-Oct-91	1	253.41	253.73	253.83	253.97	0.068004	2.2	0.46	2.02	1.48
Johnson Creek	1	3827	25-Jul-77	3.1	253.08	253.34	253.46	253.77	0.144749	2.89	1.07	6.01	2.18
Johnson Creek	1	3827	15-Sep-78	2.4	253.08	253.31	253.42	253.67	0.151417	2.66	0.9	5.91	2.17
Johnson Creek	1	3827	29-Jul-86	2.3	253.08	253.31	253.41	253.66	0.152859	2.63	0.88	5.9	2.18
Johnson Creek	1	3827	10-Jun-89	2	253.08	253.29	253.39	253.62	0.158221	2.52	0.79	5.85	2.18
Johnson Creek	1	3827	18-May-90	1.9	253.08	253.29	253.38	253.6	0.160442	2.48	0.77	5.83	2.19
Johnson Creek	1	3827	27-Oct-91	1	253.08	253.23	253.3	253.47	0.209917	2.17	0.46	5.29	2.34
Johnson Creek	1	3822	25-Jul-77	3.1	252.52	252.97	253.08	253.31	0.060945	2.56	1.21	4.15	1.52
Johnson Creek	1	3822	15-Sep-78	2.4	252.52	252.92	253.01	253.21	0.061123	2.39	1.01	3.85	1.49
Johnson Creek	1	3822	29-Jul-86	2.3	252.52	252.92	253	253.2	0.061185	2.36	0.98	3.81	1.49
Johnson Creek	1	3822	10-Jun-89	2	252.52	252.89	252.97	253.15	0.061258	2.26	0.88	3.69	1.47
Johnson Creek	1	3822	18-May-90	1.9	252.52	252.88	252.96	253.13	0.061276	2.23	0.85	3.65	1.47
Johnson Creek	1	3822	27-Oct-91	1	252.52	252.79	252.84	252.96	0.060781	1.81	0.55	3.22	1.4
Johnson Creek	1	3816	25-Jul-77	3.1	252.14	252.37	252.49	252.8	0.159603	2.89	1.07	6.49	2.27
Johnson Creek	1	3816	15-Sep-78	2.4	252.14	252.34	252.45	252.7	0.161629	2.64	0.91	6.38	2.23
Johnson Creek	1	3816	29-Jul-86	2.3	252.14	252.34	252.44	252.69	0.161782	2.6	0.88	6.36	2.23
Johnson Creek	1	3816	10-Jun-89	2	252.14	252.33	252.42	252.64	0.162609	2.47	0.81	6.31	2.2
Johnson Creek	1	3816	18-May-90	1.9	252.14	252.33	252.41	252.62	0.161486	2.42	0.79	6.29	2.19
Johnson Creek	1	3816	27-Oct-91	1	252.14	252.28	252.34	252.46	0.153977	1.89	0.53	5.97	2.02
Johnson Creek	1	3812	25-Jul-77	3.1	251.8	252.32	252.33	252.49	0.028427	1.81	1.71	5.53	1.04
Johnson Creek	1	3812	15-Sep-78	2.4	251.8	252.23	252.24	252.41	0.029728	1.86	1.29	4.09	1.06
Johnson Creek	1	3812	29-Jul-86	2.3	251.8	252.22	252.23	252.39	0.029937	1.84	1.25	4.04	1.06
Johnson Creek	1	3812	10-Jun-89	2	251.8	252.19	252.2	252.35	0.03065	1.79	1.12	3.87	1.06
Johnson Creek	1	3812	18-May-90	1.9	251.8	252.18	252.19	252.34	0.030944	1.76	1.08	3.83	1.06
Johnson Creek	1	3812	27-Oct-91	1	251.8	252.07	252.08	252.18	0.035832	1.49	0.67	3.47	1.08
Johnson Creek	1	3808	25-Jul-77	3.1	251.53	251.94	252.07	252.29	0.07042	2.65	1.25	5.78	1.61
Johnson Creek	1	3808	15-Sep-78	2.4	251.53	251.89	251.99	252.21	0.07195	2.51	0.98	5.05	1.61
Johnson Creek	1	3808	29-Jul-86	2.3	251.53	251.88	251.98	252.19	0.072168	2.48	0.94	4.78	1.6
Johnson Creek	1	3808	10-Jun-89	2	251.53	251.86	251.95	252.15	0.073378	2.39	0.84	3.88	1.6
Johnson Creek	1	3808	18-May-90	1.9	251.53	251.85	251.94	252.13	0.073777	2.35	0.81	3.64	1.6
Johnson Creek	1	3808	27-Oct-91	1	251.53	251.76	251.82	251.96	0.079768	1.97	0.51	3.2	1.58
Johnson Creek	1	3802	25-Jul-77	3.1	251.11	251.29	251.38	251.55	0.279138	2.71	1.37	6.74	2.77
Johnson Creek	1	3802	15-Sep-78	2.4	251.11	251.26	251.33	251.47	0.258445	2.41	1.19	6.37	2.61
Johnson Creek	1	3802	29-Jul-86	2.3	251.11	251.26	251.32	251.46	0.254347	2.37	1.16	6.32	2.58
Johnson Creek	1	3802	10-Jun-89	2	251.11	251.24	251.3	251.42	0.239625	2.18	1.09	6.19	2.47
Johnson Creek	1	3802	18-May-90	1.9	251.11	251.24	251.29	251.4	0.234265	2.11	1.06	6.15	2.43
Johnson Creek	1	3802	27-Oct-91	1	251.11	251.26	251.2	251.3	0.044277	1	1.2	6.39	1.08
Johnson Creek	1	3797	25-Jul-77	3.1	250.73	251.05	251.05	251.19	0.044944	1.94	2.22	8.55	1.26
Johnson Creek	1	3797	15-Sep-78	2.4	250.73	251	251	251.13	0.050755	1.84	1.81	8.06	1.31
Johnson Creek	1	3797	29-Jul-86	2.3	250.73	251	251	251.12	0.051746	1.82	1.75	7.98	1.32
Johnson Creek	1	3797	10-Jun-89	2	250.73	250.97	250.97	251.08	0.055717	1.76	1.56	7.75	1.34
Johnson Creek	1	3797	18-May-90	1.9	250.73	250.96	250.96	251.07	0.057145	1.74	1.5	7.67	1.35
Johnson Creek	1	3797	27-Oct-91	1	250.73	250.88	250.88	250.96	0.08499	1.48	0.89	6.83	1.51
Johnson Creek	1	3792	25-Jul-77	3.1	250.13	250.49	250.61	250.86	0.082375	2.78	1.33	7.27	1.73
Johnson Creek	1	3792	15-Sep-78	2.4	250.13	250.45	250.56	250.78	0.082211	2.57	1.05	6.85	1.7
Johnson Creek	1	3792	29-Jul-86	2.3	250.13	250.44	250.55	250.77	0.081962	2.54	1.01	6.77	1.69

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson Creek	1	3792	10-Jun-89	2	250.13	250.42	250.52	250.73	0.081076	2.44	0.88	6.44	1.67
Johnson Creek	1	3792	18-May-90	1.9	250.13	250.42	250.51	250.71	0.080914	2.4	0.83	6.02	1.66
Johnson Creek	1	3792	27-Oct-91	1	250.13	250.34	250.4	250.53	0.079131	1.92	0.52	3.41	1.56
Johnson Creek	1	3785.005	25-Jul-77	3.1	249.91	250.3	250.32	250.42	0.038125	1.63	2.42	15.03	1.14
Johnson Creek	1	3785.005	15-Sep-78	2.4	249.91	250.28	250.28	250.37	0.033629	1.43	2.08	14.29	1.06
Johnson Creek	1	3785.005	29-Jul-86	2.3	249.91	250.27	250.28	250.36	0.032957	1.4	2.03	14.15	1.04
Johnson Creek	1	3785.005	10-Jun-89	2	249.91	250.26	250.26	250.34	0.030425	1.3	1.88	13.34	0.99
Johnson Creek	1	3785.005	18-May-90	1.9	249.91	250.26	250.26	250.33	0.029675	1.27	1.83	13.09	0.98
Johnson Creek	1	3785.005	27-Oct-91	1	249.91	250.18	250.17	250.24	0.02759	1.18	0.97	8.05	0.93
Johnson Creek	1	3780	25-Jul-77	3.1	249.16	249.51	249.64	250	0.20925	3.11	1	6.55	2.55
Johnson Creek	1	3780	15-Sep-78	2.4	249.16	249.47	249.59	249.96	0.260311	3.08	0.78	6.14	2.76
Johnson Creek	1	3780	29-Jul-86	2.3	249.16	249.47	249.59	249.95	0.268041	3.09	0.75	5.99	2.79
Johnson Creek	1	3780	10-Jun-89	2	249.16	249.45	249.57	249.96	0.249661	3.16	0.63	4.64	2.73
Johnson Creek	1	3780	18-May-90	1.9	249.16	249.44	249.56	249.96	0.230422	3.2	0.59	4.02	2.66
Johnson Creek	1	3780	27-Oct-91	1	249.16	249.36	249.48	249.85	0.379256	3.1	0.32	3.36	3.19
Johnson Creek	1	3775	25-Jul-77	3.1	248.95	249.31	249.39	249.53	0.043079	2.17	1.84	10.02	1.29
Johnson Creek	1	3775	15-Sep-78	2.4	248.95	249.27	249.31	249.45	0.042502	1.98	1.47	7.93	1.26
Johnson Creek	1	3775	29-Jul-86	2.3	248.95	249.26	249.31	249.44	0.042793	1.95	1.42	7.7	1.26
Johnson Creek	1	3775	10-Jun-89	2	248.95	249.24	249.28	249.41	0.047827	1.93	1.22	6.84	1.31
Johnson Creek	1	3775	18-May-90	1.9	248.95	249.22	249.27	249.4	0.051645	1.94	1.14	6.56	1.35
Johnson Creek	1	3775	27-Oct-91	1	248.95	249.16	249.17	249.26	0.044709	1.45	0.77	5.01	1.19
Johnson Creek	1	3770	25-Jul-77	3.1	248.86	249.23	249.08	249.27	0.017644	0.93	3.76	14.72	0.75
Johnson Creek	1	3770	15-Sep-78	2.4	248.86	249.17	249.03	249.21	0.017166	1.03	2.99	10.78	0.76
Johnson Creek	1	3770	29-Jul-86	2.3	248.86	249.16	249.03	249.2	0.017335	1.02	2.89	10.58	0.76
Johnson Creek	1	3770	10-Jun-89	2	248.86	249.15	249.01	249.18	0.015082	0.93	2.76	10.28	0.7
Johnson Creek	1	3770	18-May-90	1.9	248.86	249.14	249	249.17	0.014723	0.91	2.68	10.07	0.69
Johnson Creek	1	3770	27-Oct-91	1	248.86	249.05	248.93	249.07	0.012758	0.66	1.85	8.78	0.61
Johnson Creek	1	3766	25-Jul-77	3.1	248.65	249.03	249.03	249.13	0.04426	1.57	2.51	14.46	1.21
Johnson Creek	1	3766	15-Sep-78	2.4	248.65	249.01	249.01	249.09	0.037224	1.37	2.22	13.82	1.09
Johnson Creek	1	3766	29-Jul-86	2.3	248.65	249.01	249.01	249.08	0.034995	1.34	2.18	13.54	1.06
Johnson Creek	1	3766	10-Jun-89	2	248.65	248.97	248.97	249.06	0.042929	1.49	1.7	11.1	1.18
Johnson Creek	1	3766	18-May-90	1.9	248.65	248.96	248.96	249.05	0.044721	1.48	1.62	10.79	1.19
Johnson Creek	1	3766	27-Oct-91	1	248.65	248.9	248.9	248.96	0.050882	1.21	1.02	8.36	1.19
Johnson Creek	1	3760	25-Jul-77	3.1	248.2	248.54	248.62	248.79	0.076033	2.24	1.48	7.49	1.61
Johnson Creek	1	3760	15-Sep-78	2.4	248.2	248.49	248.58	248.74	0.094366	2.25	1.14	6.8	1.75
Johnson Creek	1	3760	29-Jul-86	2.3	248.2	248.49	248.57	248.74	0.10166	2.29	1.08	6.66	1.8
Johnson Creek	1	3760	10-Jun-89	2	248.2	248.47	248.55	248.7	0.092798	2.13	1.01	6.5	1.71
Johnson Creek	1	3760	18-May-90	1.9	248.2	248.47	248.54	248.68	0.090539	2.08	0.98	6.44	1.69
Johnson Creek	1	3760	27-Oct-91	1	248.2	248.41	248.45	248.56	0.091937	1.72	0.62	5.58	1.62
Johnson Creek	1	3756	25-Jul-77	3.1	248.01	248.3	248.32	248.46	0.074667	1.97	1.87	10.07	1.55
Johnson Creek	1	3756	15-Sep-78	2.4	248.01	248.28	248.3	248.4	0.064961	1.7	1.67	9.91	1.42
Johnson Creek	1	3756	29-Jul-86	2.3	248.01	248.27	248.29	248.39	0.061362	1.65	1.66	9.89	1.38
Johnson Creek	1	3756	10-Jun-89	2	248.01	248.26	248.27	248.36	0.062248	1.57	1.51	9.73	1.37
Johnson Creek	1	3756	18-May-90	1.9	248.01	248.25	248.27	248.35	0.062246	1.53	1.47	9.68	1.36
Johnson Creek	1	3756	27-Oct-91	1	248.01	248.2	248.2	248.26	0.063594	1.21	0.98	8.8	1.29
Johnson Creek	1	3750	25-Jul-77	3.1	247.84	248.12	248.01	248.17	0.029707	0.99	3.13	12.24	0.92
Johnson Creek	1	3750	15-Sep-78	2.4	247.84	248.07	247.96	248.11	0.030109	0.98	2.57	9.95	0.92
Johnson Creek	1	3750	29-Jul-86	2.3	247.84	248.06	247.95	248.1	0.030793	0.95	2.48	9.83	0.93
Johnson Creek	1	3750	10-Jun-89	2	247.84	248.04	247.93	248.08	0.030097	0.86	2.28	9.53	0.9
Johnson Creek	1	3750	18-May-90	1.9	247.84	248.03	247.92	248.07	0.028649	0.82	2.24	9.47	0.87
Johnson Creek	1	3750	27-Oct-91	1	247.84	247.94	247.82	247.97	0.025673	0.62	1.5	7.03	0.78
Johnson Creek	1	3743.018	25-Jul-77	3.1	247.55	247.71	247.71	247.83	0.09927	1.57	2.01	8.45	1.62
Johnson Creek	1	3743.018	15-Sep-78	2.4	247.55	247.68	247.68	247.78	0.094971	1.18	1.72	8.22	1.49
Johnson Creek	1	3743.018	29-Jul-86	2.3	247.55	247.68	247.68	247.77	0.090735	1.12	1.7	8.2	1.45
Johnson Creek	1	3743.018	10-Jun-89	2	247.55	247.65	247.65	247.74	0.094569	0.88	1.52	7.95	1.39
Johnson Creek	1	3743.018	18-May-90	1.9	247.55	247.64	247.64	247.73	0.107051	0.9	1.39	6.95	1.46
Johnson Creek	1	3743.018	27-Oct-91	1	247.55	247.52	247.52	247.61	0.174482		0.76	4.43	0
Johnson Creek	1	3739	25-Jul-77	3.1	247.01	247.39	247.39	247.52	0.033912	1.8	2.19	8.01	1.11

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	3739	15-Sep-78	2.4	247.01	247.35	247.34	247.46	0.030375	1.59	1.92	7.82	1.03
Johnson Creek	1	3739	29-Jul-86	2.3	247.01	247.35	247.33	247.45	0.029924	1.57	1.88	7.79	1.02
Johnson Creek	1	3739	10-Jun-89	2	247.01	247.33	247.31	247.42	0.028468	1.47	1.74	7.68	0.99
Johnson Creek	1	3739	18-May-90	1.9	247.01	247.32	247.31	247.41	0.027789	1.44	1.7	7.65	0.97
Johnson Creek	1	3739	27-Oct-91	1	247.01	247.25	247.23	247.3	0.024496	1.13	1.15	7.07	0.88
Johnson Creek	1	3733	25-Jul-77	3.1	246.78	247.19	247.19	247.3	0.032571	1.59	2.34	10.07	1.07
Johnson Creek	1	3733	15-Sep-78	2.4	246.78	247.14	247.14	247.25	0.0364	1.57	1.84	8.77	1.11
Johnson Creek	1	3733	29-Jul-86	2.3	246.78	247.13	247.13	247.24	0.036653	1.56	1.79	8.68	1.11
Johnson Creek	1	3733	10-Jun-89	2	246.78	247.11	247.11	247.21	0.037543	1.5	1.61	8.4	1.11
Johnson Creek	1	3733	18-May-90	1.9	246.78	247.1	247.1	247.2	0.038176	1.49	1.55	8.3	1.12
Johnson Creek	1	3733	27-Oct-91	1	246.78	247.03	247.03	247.1	0.043046	1.25	0.97	7.38	1.12
Johnson Creek	1	3726	25-Jul-77	3.1	246.44	246.89	246.8	246.95	0.009258	1.14	3.05	9.57	0.62
Johnson Creek	1	3726	15-Sep-78	2.4	246.44	246.83	246.76	246.88	0.011146	1.1	2.43	9.34	0.66
Johnson Creek	1	3726	29-Jul-86	2.3	246.44	246.82	246.75	246.87	0.011499	1.09	2.34	9.3	0.66
Johnson Creek	1	3726	10-Jun-89	2	246.44	246.68	246.73	246.86	0.07906	1.88	1.13	8.61	1.57
Johnson Creek	1	3726	18-May-90	1.9	246.44	246.68	246.73	246.85	0.077378	1.84	1.1	8.59	1.55
Johnson Creek	1	3726	27-Oct-91	1	246.44	246.63	246.66	246.74	0.073407	1.41	0.73	7.75	1.42
Johnson Creek	1	3721	25-Jul-77	3.1	246.24	246.71	246.71	246.88	0.026635	1.8	1.72	5.34	1.01
Johnson Creek	1	3721	15-Sep-78	2.4	246.24	246.66	246.66	246.8	0.027753	1.67	1.43	5.14	1.01
Johnson Creek	1	3721	29-Jul-86	2.3	246.24	246.65	246.65	246.79	0.027985	1.65	1.39	5.11	1.01
Johnson Creek	1	3721	10-Jun-89	2	246.24	246.62	246.62	246.75	0.028644	1.59	1.26	5.01	1.01
Johnson Creek	1	3721	18-May-90	1.9	246.24	246.61	246.61	246.74	0.028945	1.56	1.21	4.98	1.01
Johnson Creek	1	3721	27-Oct-91	1	246.24	246.52	246.52	246.61	0.031844	1.32	0.76	4.34	1.01
Johnson Creek	1	3716	25-Jul-77	3.1	246.04	246.5	246.55	246.7	0.053277	2.37	2.04	8.36	1.38
Johnson Creek	1	3716	15-Sep-78	2.4	246.04	246.45	246.48	246.63	0.051212	2.17	1.69	7.57	1.33
Johnson Creek	1	3716	29-Jul-86	2.3	246.04	246.45	246.48	246.62	0.050909	2.14	1.64	7.5	1.33
Johnson Creek	1	3716	10-Jun-89	2	246.04	246.43	246.45	246.58	0.04869	2.02	1.51	7.32	1.29
Johnson Creek	1	3716	18-May-90	1.9	246.04	246.42	246.45	246.57	0.047249	1.97	1.47	7.27	1.27
Johnson Creek	1	3716	27-Oct-91	1	246.04	246.33	246.34	246.43	0.048375	1.59	0.9	5.55	1.22
Johnson Creek	1	3709	25-Jul-77	3.1	245.54	245.63	245.7	245.87	0.381889	2.45	1.41	8.83	3.02
Johnson Creek	1	3709	15-Sep-78	2.4	245.54	245.6	245.66	245.81	0.403025	1.91	1.18	8.55	2.9
Johnson Creek	1	3709	29-Jul-86	2.3	245.54	245.6	245.66	245.8	0.406085	1.81	1.14	8.5	2.87
Johnson Creek	1	3709	10-Jun-89	2	245.54	245.58	245.63	245.78	0.431133	1.45	1.02	8.35	2.78
Johnson Creek	1	3709	18-May-90	1.9	245.54	245.57	245.64	245.77	0.455501	1.27	0.97	8.28	2.75
Johnson Creek	1	3709	27-Oct-91	1	245.54	245.53	245.57	245.65	0.398692		0.65	5.91	0
Johnson Creek	1	3700.77	25-Jul-77	3.1	244.68	244.88	244.88	245	0.086995	1.93	2.14	10.83	1.59
Johnson Creek	1	3700.77	15-Sep-78	2.4	244.68	244.8	244.8	244.93	0.123411	1.64	1.5	6.18	1.76
Johnson Creek	1	3700.77	29-Jul-86	2.3	244.68	244.8	244.8	244.92	0.118539	1.57	1.48	6.15	1.72
Johnson Creek	1	3700.77	10-Jun-89	2	244.68	244.78	244.78	244.89	0.111988	1.35	1.37	6	1.62
Johnson Creek	1	3700.77	18-May-90	1.9	244.68	244.77	244.77	244.88	0.120237	1.24	1.29	5.89	1.64
Johnson Creek	1	3700.77	27-Oct-91	1	244.68	244.62	244.62	244.74	0.153956		0.66	2.89	0
Johnson Creek	1	3698	25-Jul-77	3.1	244.29	244.54	244.46	244.63	0.062265	1.19	2.38	7.02	1.17
Johnson Creek	1	3698	15-Sep-78	2.4	244.29	244.49	244.41	244.56	0.058296	1.2	2.04	6.46	1.13
Johnson Creek	1	3698	29-Jul-86	2.3	244.29	244.48	244.4	244.55	0.057251	1.15	2	6.43	1.11
Johnson Creek	1	3698	10-Jun-89	2	244.29	244.46	244.37	244.52	0.054621	1.02	1.85	6.34	1.07
Johnson Creek	1	3698	18-May-90	1.9	244.29	244.45	244.36	244.51	0.053025	0.97	1.81	6.31	1.05
Johnson Creek	1	3698	27-Oct-91	1	244.29	244.35	244.25	244.39	0.035326	0.41	1.22	5.32	0.74
Johnson Creek	1	3695	25-Jul-77	3.1	244.09	244.28	244.28	244.4	0.109588	1.72	2.06	9.76	1.7
Johnson Creek	1	3695	15-Sep-78	2.4	244.09	244.25	244.25	244.34	0.106045	1.45	1.76	9.31	1.62
Johnson Creek	1	3695	29-Jul-86	2.3	244.09	244.24	244.24	244.33	0.106789	1.41	1.71	9.23	1.61
Johnson Creek	1	3695	10-Jun-89	2	244.09	244.23	244.23	244.31	0.107108	1.26	1.56	8.97	1.57
Johnson Creek	1	3695	18-May-90	1.9	244.09	244.22	244.22	244.3	0.110011	1.21	1.5	8.86	1.57
Johnson Creek	1	3695	27-Oct-91	1	244.09	244.14	244.14	244.2	0.151701	0.64	0.86	6.39	1.52
Johnson Creek	1	3691	25-Jul-77	3.1	243.52	243.76	243.81	243.94	0.156582	2.5	1.75	7.36	2.1
Johnson Creek	1	3691	15-Sep-78	2.4	243.52	243.72	243.74	243.87	0.172762	2.24	1.44	7	2.14
Johnson Creek	1	3691	29-Jul-86	2.3	243.52	243.71	243.74	243.86	0.173333	2.19	1.39	6.96	2.13
Johnson Creek	1	3691	10-Jun-89	2	243.52	243.7	243.71	243.83	0.17793	2.05	1.26	6.74	2.12
Johnson Creek	1	3691	18-May-90	1.9	243.52	243.69	243.71	243.82	0.174711	1.98	1.23	6.68	2.09
Johnson Creek	1	3691	27-Oct-91	1	243.52	243.63	243.63	243.7	0.136255	1.23	0.87	6.01	1.7

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	3688	25-Jul-77	3.1	243.09	243.31	243.34	243.47	0.133151	2.13	1.86	9.89	1.95
Johnson Creek	1	3688	15-Sep-78	2.4	243.09	243.29	243.3	243.41	0.118151	1.79	1.65	9.7	1.79
Johnson Creek	1	3688	29-Jul-86	2.3	243.09	243.29	243.29	243.4	0.116404	1.74	1.61	9.67	1.76
Johnson Creek	1	3688	10-Jun-89	2	243.09	243.28	243.28	243.37	0.111986	1.58	1.5	9.56	1.7
Johnson Creek	1	3688	18-May-90	1.9	243.09	243.27	243.28	243.36	0.112786	1.53	1.45	9.51	1.69
Johnson Creek	1	3688	27-Oct-91	1	243.09	243.2	243.2	243.27	0.135362	1.23	0.85	6.73	1.71
Johnson Creek	1	3685	25-Jul-77	3.1	242.58	242.54	242.66	242.88	0.378457		1.2	4.55	0
Johnson Creek	1	3685	15-Sep-78	2.4	242.58	242.48	242.59	242.82	0.470459		0.93	4.26	0
Johnson Creek	1	3685	29-Jul-86	2.3	242.58	242.47	242.57	242.81	0.486843		0.9	4.22	0
Johnson Creek	1	3685	10-Jun-89	2	242.58	242.45	242.55	242.78	0.536387		0.79	4.01	0
Johnson Creek	1	3685	18-May-90	1.9	242.58	242.44	242.54	242.76	0.54399		0.75	3.94	0
Johnson Creek	1	3685	27-Oct-91	1	242.58	242.36	242.43	242.59	0.566821		0.47	3.32	0
Johnson Creek	1	3682	25-Jul-77	3.1	241.74	242.19	242.25	242.41	0.060732	2.23	1.75	7.95	1.47
Johnson Creek	1	3682	15-Sep-78	2.4	241.74	242.17	242.2	242.34	0.055843	1.97	1.52	7.75	1.38
Johnson Creek	1	3682	29-Jul-86	2.3	241.74	242.16	242.19	242.33	0.055134	1.93	1.49	7.72	1.37
Johnson Creek	1	3682	10-Jun-89	2	241.74	242.15	242.17	242.29	0.053217	1.81	1.37	7.6	1.33
Johnson Creek	1	3682	18-May-90	1.9	241.74	242.14	242.16	242.28	0.052893	1.77	1.33	7.55	1.32
Johnson Creek	1	3682	27-Oct-91	1	241.74	242.07	242.08	242.16	0.045485	1.4	0.86	5.88	1.17
Johnson Creek	1	3678	25-Jul-77	3.1	240.86	241.13	241.28	241.83	0.368984	3.93	0.94	7.1	3.32
Johnson Creek	1	3678	15-Sep-78	2.4	240.86	241.1	241.24	241.78	0.403064	3.82	0.75	6.6	3.42
Johnson Creek	1	3678	29-Jul-86	2.3	240.86	241.09	241.23	241.77	0.406051	3.8	0.72	6.49	3.42
Johnson Creek	1	3678	10-Jun-89	2	240.86	241.08	241.21	241.74	0.414282	3.75	0.64	6.16	3.44
Johnson Creek	1	3678	18-May-90	1.9	240.86	241.08	241.2	241.73	0.41583	3.73	0.61	6.04	3.44
Johnson Creek	1	3678	27-Oct-91	1	240.86	241.02	241.13	241.63	0.594664	3.48	0.32	5.01	3.88
Johnson Creek	1	3674	25-Jul-77	3.1	239.75	239.97	240.13	240.5	0.324949	4.2	1.05	4.2	3.2
Johnson Creek	1	3674	15-Sep-78	2.4	239.75	239.94	240.06	240.35	0.330127	3.7	0.9	4.12	3.14
Johnson Creek	1	3674	29-Jul-86	2.3	239.75	239.93	240.05	240.33	0.332628	3.62	0.87	4.11	3.13
Johnson Creek	1	3674	10-Jun-89	2	239.75	239.91	240.02	240.26	0.34054	3.36	0.8	4.07	3.11
Johnson Creek	1	3674	18-May-90	1.9	239.75	239.9	240	240.24	0.34366	3.27	0.77	4.06	3.1
Johnson Creek	1	3674	27-Oct-91	1	239.75	239.84	239.89	240.02	0.285837	1.91	0.53	3.58	2.55
Johnson Creek	1	3671	25-Jul-77	3.1	238.78	239.11	239.26	239.66	0.241225	3.59	1.09	6.4	2.73
Johnson Creek	1	3671	15-Sep-78	2.4	238.78	239.09	239.21	239.53	0.22965	3.21	0.94	6.32	2.61
Johnson Creek	1	3671	29-Jul-86	2.3	238.78	239.08	239.2	239.51	0.227475	3.15	0.92	6.3	2.59
Johnson Creek	1	3671	10-Jun-89	2	238.78	239.07	239.17	239.45	0.220813	2.96	0.85	6.27	2.52
Johnson Creek	1	3671	18-May-90	1.9	238.78	239.07	239.17	239.43	0.218075	2.89	0.82	6.25	2.49
Johnson Creek	1	3671	27-Oct-91	1	238.78	239.02	239.09	239.27	0.215942	2.41	0.52	5.54	2.38
Johnson Creek	1	3667	25-Jul-77	3.1	237.38	237.61	237.76	238.31	0.559767	4.22	0.98	8.08	3.95
Johnson Creek	1	3667	15-Sep-78	2.4	237.38	237.59	237.72	238.18	0.597766	3.88	0.82	8.02	3.97
Johnson Creek	1	3667	29-Jul-86	2.3	237.38	237.59	237.71	238.17	0.605826	3.84	0.8	8	3.97
Johnson Creek	1	3667	10-Jun-89	2	237.38	237.58	237.69	238.11	0.634783	3.67	0.71	7.79	4
Johnson Creek	1	3667	18-May-90	1.9	237.38	237.57	237.69	238.09	0.645546	3.62	0.68	7.65	4.01
Johnson Creek	1	3667	27-Oct-91	1	237.38	237.54	237.62	237.91	0.701327	3.1	0.43	6.22	3.98
Johnson Creek	1	3663	25-Jul-77	3.1	236.35	236.66	236.85	237.21	0.158869	3.29	0.95	4.79	2.32
Johnson Creek	1	3663	15-Sep-78	2.4	236.35	236.63	236.77	237.09	0.154103	2.98	0.8	4.42	2.24
Johnson Creek	1	3663	29-Jul-86	2.3	236.35	236.62	236.76	237.08	0.152451	2.97	0.77	4.24	2.22
Johnson Creek	1	3663	10-Jun-89	2	236.35	236.61	236.73	237.02	0.148454	2.84	0.7	4.06	2.18
Johnson Creek	1	3663	18-May-90	1.9	236.35	236.6	236.72	237	0.147732	2.79	0.68	4.03	2.16
Johnson Creek	1	3663	27-Oct-91	1	236.35	236.54	236.62	236.81	0.144936	2.31	0.43	3.35	2.05
Johnson Creek	1	3657.491	25-Jul-77	3.1	235.14	235.38	235.54	236.01	0.245498	3.53	0.88	5.38	2.8
Johnson Creek	1	3657.491	15-Sep-78	2.4	235.14	235.35	235.49	235.89	0.253999	3.25	0.74	5.29	2.78
Johnson Creek	1	3657.491	29-Jul-86	2.3	235.14	235.35	235.48	235.87	0.259787	3.22	0.71	5.28	2.79
Johnson Creek	1	3657.491	10-Jun-89	2	235.14	235.33	235.46	235.82	0.268692	3.09	0.65	5.23	2.8
Johnson Creek	1	3657.491	18-May-90	1.9	235.14	235.33	235.45	235.8	0.270481	3.03	0.63	5.22	2.8
Johnson Creek	1	3657.491	27-Oct-91	1	235.14	235.29	235.37	235.59	0.290897	2.43	0.41	5.07	2.73
Johnson Creek	1	3655	25-Jul-77	3.1	234.41	234.84	235.05	235.53	0.131573	3.69	0.84	2.87	2.18
Johnson Creek	1	3655	15-Sep-78	2.4	234.41	234.79	234.98	235.39	0.135019	3.46	0.69	2.69	2.17
Johnson Creek	1	3655	29-Jul-86	2.3	234.41	234.78	234.97	235.37	0.136056	3.42	0.67	2.66	2.17
Johnson Creek	1	3655	10-Jun-89	2	234.41	234.75	234.93	235.31	0.137999	3.3	0.61	2.57	2.17

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	3655	18-May-90	1.9	234.41	234.74	234.91	235.28	0.138689	3.25	0.58	2.54	2.17
Johnson Creek	1	3655	27-Oct-91	1	234.41	234.65	234.76	235.03	0.149563	2.73	0.37	2.22	2.15
Johnson Creek	1	3650	25-Jul-77	3.1	233.49	233.77	233.98	234.65	0.270225	4.17	0.76	3.89	2.98
Johnson Creek	1	3650	15-Sep-78	2.4	233.49	233.74	233.92	234.49	0.285011	3.84	0.63	3.84	2.99
Johnson Creek	1	3650	29-Jul-86	2.3	233.49	233.74	233.91	234.46	0.286916	3.78	0.62	3.84	2.98
Johnson Creek	1	3650	10-Jun-89	2	233.49	233.72	233.88	234.38	0.292675	3.6	0.56	3.81	2.97
Johnson Creek	1	3650	18-May-90	1.9	233.49	233.72	233.87	234.36	0.294539	3.54	0.54	3.81	2.97
Johnson Creek	1	3650	27-Oct-91	1	233.49	233.67	233.77	234.06	0.301114	2.77	0.36	3.73	2.83
Johnson Creek	1	3644	25-Jul-77	3.1	232.38	232.73	232.87	233.21	0.155433	3.12	1.07	5.74	2.26
Johnson Creek	1	3644	15-Sep-78	2.4	232.38	232.7	232.82	233.09	0.142773	2.81	0.92	5.41	2.13
Johnson Creek	1	3644	29-Jul-86	2.3	232.38	232.7	232.81	233.07	0.141063	2.76	0.89	5.35	2.11
Johnson Creek	1	3644	10-Jun-89	2	232.38	232.68	232.79	233.02	0.135116	2.61	0.82	5.19	2.05
Johnson Creek	1	3644	18-May-90	1.9	232.38	232.68	232.78	233	0.133315	2.56	0.79	5.12	2.03
Johnson Creek	1	3644	27-Oct-91	1	232.38	232.61	232.69	232.85	0.116663	2.18	0.48	3.7	1.87
Johnson Creek	1	3637	25-Jul-77	3.1	231.02	231.4	231.56	231.92	0.24096	3.9	1.05	3.95	2.84
Johnson Creek	1	3637	15-Sep-78	2.4	231.02	231.35	231.48	231.83	0.254881	3.83	0.85	3.45	2.89
Johnson Creek	1	3637	29-Jul-86	2.3	231.02	231.34	231.47	231.81	0.259331	3.8	0.82	3.39	2.9
Johnson Creek	1	3637	10-Jun-89	2	231.02	231.31	231.44	231.76	0.2753	3.7	0.73	3.22	2.95
Johnson Creek	1	3637	18-May-90	1.9	231.02	231.3	231.44	231.74	0.281444	3.66	0.7	3.16	2.97
Johnson Creek	1	3637	27-Oct-91	1	231.02	231.2	231.3	231.53	0.390547	3.23	0.41	2.58	3.26
Johnson Creek	1	3632	25-Jul-77	3.1	230.17	230.51	230.64	230.94	0.140004	3.21	1.22	5.41	2.22
Johnson Creek	1	3632	15-Sep-78	2.4	230.17	230.48	230.58	230.83	0.136014	2.91	1.04	5.2	2.15
Johnson Creek	1	3632	29-Jul-86	2.3	230.17	230.47	230.57	230.81	0.13416	2.86	1.01	5.17	2.13
Johnson Creek	1	3632	10-Jun-89	2	230.17	230.46	230.55	230.75	0.127927	2.68	0.94	5.08	2.05
Johnson Creek	1	3632	18-May-90	1.9	230.17	230.45	230.54	230.73	0.125653	2.61	0.92	5.05	2.03
Johnson Creek	1	3632	27-Oct-91	1	230.17	230.39	230.44	230.56	0.097539	2.02	0.64	4.35	1.73
Johnson Creek	1	3626	25-Jul-77	3.1	229.39	229.79	229.89	230.14	0.115805	2.82	1.36	7.05	2
Johnson Creek	1	3626	15-Sep-78	2.4	229.39	229.76	229.85	230.06	0.112784	2.59	1.15	6.73	1.94
Johnson Creek	1	3626	29-Jul-86	2.3	229.39	229.75	229.85	230.05	0.112945	2.56	1.11	6.68	1.93
Johnson Creek	1	3626	10-Jun-89	2	229.39	229.74	229.82	230.01	0.113883	2.46	1	6.51	1.92
Johnson Creek	1	3626	18-May-90	1.9	229.39	229.73	229.81	230	0.115189	2.43	0.96	6.45	1.92
Johnson Creek	1	3626	27-Oct-91	1	229.39	229.64	229.73	229.9	0.119445	2.37	0.51	3.74	1.93
Johnson Creek	1	3618	25-Jul-77	3.1	228.2	228.55	228.69	229.06	0.16088	3.19	0.97	5.07	2.33
Johnson Creek	1	3618	15-Sep-78	2.4	228.2	228.51	228.64	228.97	0.16972	3.01	0.8	4.71	2.34
Johnson Creek	1	3618	29-Jul-86	2.3	228.2	228.5	228.63	228.96	0.171122	2.98	0.77	4.69	2.34
Johnson Creek	1	3618	10-Jun-89	2	228.2	228.49	228.61	228.91	0.175246	2.86	0.7	4.6	2.34
Johnson Creek	1	3618	18-May-90	1.9	228.2	228.48	228.6	228.89	0.175737	2.81	0.68	4.58	2.33
Johnson Creek	1	3618	27-Oct-91	1	228.2	228.43	228.5	228.7	0.200985	2.33	0.43	4.28	2.35
Johnson Creek	1	3612	25-Jul-77	3.1	227.33	227.75	227.94	228.27	0.102043	3.19	0.97	3.47	1.92
Johnson Creek	1	3612	15-Sep-78	2.4	227.33	227.7	227.84	228.15	0.102631	2.98	0.81	3.21	1.9
Johnson Creek	1	3612	29-Jul-86	2.3	227.33	227.69	227.83	228.13	0.10255	2.94	0.78	3.17	1.89
Johnson Creek	1	3612	10-Jun-89	2	227.33	227.67	227.8	228.08	0.102231	2.82	0.71	3.05	1.87
Johnson Creek	1	3612	18-May-90	1.9	227.33	227.66	227.79	228.06	0.102313	2.78	0.68	3	1.86
Johnson Creek	1	3612	27-Oct-91	1	227.33	227.58	227.66	227.84	0.100105	2.26	0.44	2.64	1.76
Johnson Creek	1	3608	25-Jul-77	3.1	227.1	227.37	227.5	227.82	0.138859	2.96	1.05	5.53	2.17
Johnson Creek	1	3608	15-Sep-78	2.4	227.1	227.35	227.45	227.71	0.132252	2.65	0.9	5.41	2.07
Johnson Creek	1	3608	29-Jul-86	2.3	227.1	227.34	227.45	227.69	0.130824	2.6	0.88	5.39	2.06
Johnson Creek	1	3608	10-Jun-89	2	227.1	227.33	227.42	227.64	0.126441	2.45	0.82	5.33	2
Johnson Creek	1	3608	18-May-90	1.9	227.1	227.33	227.41	227.62	0.125076	2.4	0.79	5.31	1.98
Johnson Creek	1	3608	27-Oct-91	1	227.1	227.28	227.33	227.44	0.100896	1.77	0.57	5.11	1.7
Johnson Creek	1	3602	25-Jul-77	3.1	226.19	226.62	226.74	227.01	0.134338	2.76	1.12	6.15	2.06
Johnson Creek	1	3602	15-Sep-78	2.4	226.19	226.58	226.69	226.95	0.12871	2.68	0.89	4.92	2.01
Johnson Creek	1	3602	29-Jul-86	2.3	226.19	226.57	226.68	226.94	0.127127	2.68	0.86	4.68	2
Johnson Creek	1	3602	10-Jun-89	2	226.19	226.55	226.66	226.9	0.125995	2.61	0.77	4.3	1.98
Johnson Creek	1	3602	18-May-90	1.9	226.19	226.55	226.65	226.89	0.12604	2.59	0.73	4.19	1.97
Johnson Creek	1	3602	27-Oct-91	1	226.19	226.45	226.55	226.75	0.138052	2.43	0.41	2.73	2
Johnson Creek	1	3596	25-Jul-77	3.1	225.8	226.23	226.3	226.47	0.053789	2.16	1.43	5.76	1.39
Johnson Creek	1	3596	15-Sep-78	2.4	225.8	226.16	226.25	226.41	0.056667	2.21	1.09	4.39	1.42

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	3596	29-Jul-86	2.3	225.8	226.15	226.24	226.39	0.057695	2.19	1.05	4.37	1.43
Johnson Creek	1	3596	10-Jun-89	2	225.8	226.13	226.18	226.35	0.058641	2.1	0.95	4.31	1.42
Johnson Creek	1	3596	18-May-90	1.9	225.8	226.12	226.18	226.33	0.058751	2.06	0.92	4.29	1.42
Johnson Creek	1	3596	27-Oct-91	1	225.8	226.05	226.08	226.18	0.05591	1.61	0.62	4.09	1.32
Johnson Creek	1	3589.279	25-Jul-77	3.1	225.34	225.62	225.72	225.96	0.115888	2.56	1.21	6.9	1.95
Johnson Creek	1	3589.279	15-Sep-78	2.4	225.34	225.59	225.68	225.88	0.120036	2.35	1.02	6.79	1.94
Johnson Creek	1	3589.279	29-Jul-86	2.3	225.34	225.59	225.67	225.86	0.11845	2.31	1	6.78	1.92
Johnson Creek	1	3589.279	10-Jun-89	2	225.34	225.58	225.65	225.82	0.115548	2.18	0.92	6.68	1.88
Johnson Creek	1	3589.279	18-May-90	1.9	225.34	225.57	225.64	225.81	0.114763	2.13	0.89	6.65	1.86
Johnson Creek	1	3589.279	27-Oct-91	1	225.34	225.53	225.57	225.67	0.110385	1.7	0.59	6.01	1.73
Johnson Creek	1	3579	25-Jul-77	3.1	224.04	224.36	224.47	224.72	0.11144	2.66	1.17	6.01	1.93
Johnson Creek	1	3579	15-Sep-78	2.4	224.04	224.34	224.42	224.63	0.110003	2.4	1	5.94	1.87
Johnson Creek	1	3579	29-Jul-86	2.3	224.04	224.33	224.42	224.62	0.111257	2.37	0.97	5.94	1.88
Johnson Creek	1	3579	10-Jun-89	2	224.04	224.32	224.39	224.58	0.113394	2.28	0.88	5.79	1.87
Johnson Creek	1	3579	18-May-90	1.9	224.04	224.31	224.39	224.58	0.112471	2.29	0.83	5.42	1.87
Johnson Creek	1	3579	27-Oct-91	1	224.04	224.24	224.3	224.43	0.118657	1.94	0.52	4.5	1.83
Johnson Creek	1	3569	25-Jul-77	3.1	223.37	223.83	223.88	224.05	0.041904	2.08	1.49	5.31	1.25
Johnson Creek	1	3569	15-Sep-78	2.4	223.37	223.79	223.82	223.97	0.041695	1.9	1.26	5.15	1.23
Johnson Creek	1	3569	29-Jul-86	2.3	223.37	223.78	223.82	223.96	0.041459	1.87	1.23	5.12	1.22
Johnson Creek	1	3569	10-Jun-89	2	223.37	223.76	223.79	223.92	0.040842	1.77	1.13	5.03	1.2
Johnson Creek	1	3569	18-May-90	1.9	223.37	223.75	223.78	223.91	0.041571	1.75	1.08	5	1.2
Johnson Creek	1	3569	27-Oct-91	1	223.37	223.68	223.69	223.78	0.040173	1.4	0.72	4.55	1.12
Johnson Creek	1	3562	25-Jul-77	3.1	223.06	223.27	223.37	223.58	0.109894	2.47	1.25	7.25	1.9
Johnson Creek	1	3562	15-Sep-78	2.4	223.06	223.25	223.32	223.5	0.110951	2.25	1.07	7.14	1.86
Johnson Creek	1	3562	29-Jul-86	2.3	223.06	223.24	223.32	223.49	0.111117	2.22	1.04	7.12	1.86
Johnson Creek	1	3562	10-Jun-89	2	223.06	223.23	223.3	223.46	0.113476	2.12	0.94	7.06	1.85
Johnson Creek	1	3562	18-May-90	1.9	223.06	223.23	223.29	223.44	0.111838	2.07	0.92	7.04	1.83
Johnson Creek	1	3562	27-Oct-91	1	223.06	223.28	223.22	223.31	0.010782	0.78	1.28	7.26	0.6
Johnson Creek	1	3556	25-Jul-77	3.1	222.91	223.27	223.27	223.4	0.028049	1.58	1.96	7.89	1.01
Johnson Creek	1	3556	15-Sep-78	2.4	222.91	223.23	223.23	223.34	0.029481	1.46	1.65	7.78	1.01
Johnson Creek	1	3556	29-Jul-86	2.3	222.91	223.23	223.23	223.33	0.029744	1.44	1.6	7.76	1.01
Johnson Creek	1	3556	10-Jun-89	2	222.91	223.21	223.21	223.3	0.030647	1.38	1.45	7.71	1.01
Johnson Creek	1	3556	18-May-90	1.9	222.91	223.2	223.2	223.3	0.030911	1.35	1.4	7.69	1.01
Johnson Creek	1	3556	27-Oct-91	1	222.91	223.13	223.13	223.2	0.035333	1.11	0.9	7.38	1.02
Johnson Creek	1	3550	25-Jul-77	3.1	222.33	222.75	222.87	223.14	0.06198	2.82	1.19	3.83	1.56
Johnson Creek	1	3550	15-Sep-78	2.4	222.33	222.68	222.8	223.06	0.076049	2.76	0.93	3.6	1.68
Johnson Creek	1	3550	29-Jul-86	2.3	222.33	222.67	222.79	223.05	0.078299	2.74	0.9	3.57	1.7
Johnson Creek	1	3550	10-Jun-89	2	222.33	222.64	222.75	223	0.086615	2.69	0.79	3.46	1.76
Johnson Creek	1	3550	18-May-90	1.9	222.33	222.63	222.74	222.99	0.089933	2.68	0.75	3.42	1.78
Johnson Creek	1	3550	27-Oct-91	1	222.33	222.54	222.62	222.82	0.133936	2.4	0.44	3.16	2.02
Johnson Creek	1	3543	25-Jul-77	3.1	221.94	222.66	222.66	222.87	0.028243	2.15	1.75	4.36	1.07
Johnson Creek	1	3543	15-Sep-78	2.4	221.94	222.58	222.58	222.77	0.02996	2.04	1.42	3.94	1.07
Johnson Creek	1	3543	29-Jul-86	2.3	221.94	222.57	222.57	222.75	0.030231	2.02	1.37	3.87	1.08
Johnson Creek	1	3543	10-Jun-89	2	221.94	222.53	222.53	222.7	0.031303	1.96	1.22	3.67	1.08
Johnson Creek	1	3543	18-May-90	1.9	221.94	222.51	222.51	222.68	0.031723	1.94	1.17	3.59	1.08
Johnson Creek	1	3543	27-Oct-91	1	221.94	222.37	222.37	222.49	0.039234	1.68	0.7	2.89	1.13
Johnson Creek	1	3536	25-Jul-77	3.1	221.38	221.88	222.05	222.43	0.199366	3.96	1.09	3.45	2.48
Johnson Creek	1	3536	15-Sep-78	2.4	221.38	221.82	221.96	222.3	0.231775	3.71	0.89	3.34	2.59
Johnson Creek	1	3536	29-Jul-86	2.3	221.38	221.81	221.95	222.28	0.239315	3.67	0.86	3.33	2.62
Johnson Creek	1	3536	10-Jun-89	2	221.38	221.79	221.91	222.21	0.255083	3.51	0.78	3.29	2.66
Johnson Creek	1	3536	18-May-90	1.9	221.38	221.78	221.9	222.18	0.261713	3.45	0.75	3.27	2.67
Johnson Creek	1	3536	27-Oct-91	1	221.38	221.68	221.77	221.95	0.228048	2.88	0.47	2.14	2.41
Johnson Creek	1	3530	25-Jul-77	3.1	220.77	221.77	221.77	222.01	0.021839	2.36	1.82	4.07	0.88
Johnson Creek	1	3530	15-Sep-78	2.4	220.77	221.63	221.65	221.9	0.025749	2.37	1.29	3.61	0.95
Johnson Creek	1	3530	29-Jul-86	2.3	220.77	221.62	221.64	221.88	0.0252	2.33	1.25	3.49	0.94
Johnson Creek	1	3530	10-Jun-89	2	220.77	221.57	221.59	221.81	0.024752	2.23	1.09	3.01	0.92
Johnson Creek	1	3530	18-May-90	1.9	220.77	221.53	221.56	221.79	0.02805	2.31	0.97	2.64	0.98
Johnson Creek	1	3530	27-Oct-91	1	220.77	221.3	221.31	221.5	0.032214	2.01	0.53	1.49	1.02

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	3524	25-Jul-77	3.1	220.43	220.77	221	221.57	0.641862	5.67	0.82	2.89	4.01
Johnson Creek	1	3524	15-Sep-78	2.4	220.43	220.73	220.93	221.41	0.662751	5.31	0.69	2.78	4.01
Johnson Creek	1	3524	29-Jul-86	2.3	220.43	220.72	220.92	221.39	0.684501	5.31	0.67	2.76	4.06
Johnson Creek	1	3524	10-Jun-89	2	220.43	220.69	220.87	221.33	0.732389	5.22	0.6	2.71	4.16
Johnson Creek	1	3524	18-May-90	1.9	220.43	220.69	220.86	221.28	0.676287	5	0.59	2.71	3.99
Johnson Creek	1	3524	27-Oct-91	1	220.43	220.62	220.72	220.97	0.597663	3.99	0.41	2.57	3.64
Johnson Creek	1	3517	25-Jul-77	3.1	219.98	220.61	220.53	220.75	0.030597	2.09	2.14	4.62	1.1
Johnson Creek	1	3517	15-Sep-78	2.4	219.98	220.47	220.47	220.64	0.057391	2.35	1.48	4.24	1.44
Johnson Creek	1	3517	29-Jul-86	2.3	219.98	220.47	220.47	220.62	0.050841	2.2	1.5	4.29	1.35
Johnson Creek	1	3517	10-Jun-89	2	219.98	220.43	220.43	220.59	0.052967	2.27	1.33	3.99	1.38
Johnson Creek	1	3517	18-May-90	1.9	219.98	220.42	220.42	220.57	0.053287	2.26	1.28	3.95	1.38
Johnson Creek	1	3517	27-Oct-91	1	219.98	220.3	220.3	220.41	0.053677	1.94	0.83	3.58	1.33
Johnson Creek	1	3511	25-Jul-77	3.1	219.66	220.64		220.69	0.002739	0.98	3.51	5.27	0.36
Johnson Creek	1	3511	15-Sep-78	2.4	219.66	220.42	220.16	220.47	0.004541	1.08	2.41	4.53	0.45
Johnson Creek	1	3511	29-Jul-86	2.3	219.66	220.36	220.15	220.42	0.005733	1.15	2.16	4.37	0.5
Johnson Creek	1	3511	10-Jun-89	2	219.66	220.25	220.12	220.33	0.008904	1.26	1.69	4.12	0.61
Johnson Creek	1	3511	18-May-90	1.9	219.66	220.21	220.11	220.3	0.010856	1.32	1.53	4.04	0.67
Johnson Creek	1	3511	27-Oct-91	1	219.66	219.95	219.99	220.11	0.048865	1.76	0.59	3.13	1.27
Johnson Creek	1	3503.421	25-Jul-77	3.1	219.4	220.65		220.67	0.00059	0.62	5.94	7.06	0.19
Johnson Creek	1	3503.421	15-Sep-78	2.4	219.4	220.43		220.45	0.000742	0.61	4.51	6.07	0.2
Johnson Creek	1	3503.421	29-Jul-86	2.3	219.4	220.38		220.4	0.000839	0.62	4.18	5.94	0.21
Johnson Creek	1	3503.421	10-Jun-89	2	219.4	220.27		220.29	0.000986	0.62	3.57	5.7	0.22
Johnson Creek	1	3503.421	18-May-90	1.9	219.4	220.24		220.26	0.001051	0.62	3.37	5.61	0.23
Johnson Creek	1	3503.421	27-Oct-91	1	219.4	219.88	219.67	219.9	0.002859	0.65	1.55	4.37	0.34
Johnson Creek	1	3501.112	25-Jul-77	3.1	219.19	220.66	220.14	220.67	0.000414	0.52	11.51	29.91	0.15
Johnson Creek	1	3501.112	15-Sep-78	2.4	219.19	220.14	219.99	220.42	0.010536	2.35	1.02	8.23	0.78
Johnson Creek	1	3501.112	29-Jul-86	2.3	219.19	219.97	219.97	220.36	0.018369	2.73	0.84	4.43	1
Johnson Creek	1	3501.112	10-Jun-89	2	219.19	219.91	219.91	220.25	0.019047	2.61	0.77	3.89	1
Johnson Creek	1	3501.112	18-May-90	1.9	219.19	219.88	219.88	220.22	0.019087	2.56	0.74	3.78	1
Johnson Creek	1	3501.112	27-Oct-91	1	219.19	219.65	219.65	219.87	0.022119	2.07	0.48	2.82	1
Johnson Creek	1	3494.642		Culvert									
Johnson Creek	1	3484.142	25-Jul-77	3.1	218.3	219.25	219.25	219.72	0.017426	3.04	1.02	7.67	1.01
Johnson Creek	1	3484.142	15-Sep-78	2.4	218.3	219.1	219.1	219.5	0.0181	2.77	0.87	7.12	1
Johnson Creek	1	3484.142	29-Jul-86	2.3	218.3	219.08	219.08	219.46	0.018449	2.74	0.84	7.04	1
Johnson Creek	1	3484.142	10-Jun-89	2	218.3	219.01	219.01	219.36	0.019132	2.62	0.76	6.83	1.01
Johnson Creek	1	3484.142	18-May-90	1.9	218.3	218.99	218.99	219.33	0.01924	2.57	0.74	6.65	1
Johnson Creek	1	3484.142	27-Oct-91	1	218.3	218.76	218.76	218.97	0.021997	2.07	0.48	5.15	1
Johnson Creek	1	3478.732	25-Jul-77	3.1	218.09	218.33	218.53	219.31	0.388729	4.38	0.71	4.47	3.51
Johnson Creek	1	3478.732	15-Sep-78	2.4	218.09	218.31	218.48	219.11	0.380924	3.97	0.61	4.37	3.4
Johnson Creek	1	3478.732	29-Jul-86	2.3	218.09	218.3	218.47	219.08	0.378295	3.9	0.59	4.35	3.38
Johnson Creek	1	3478.732	10-Jun-89	2	218.09	218.29	218.45	218.98	0.371205	3.68	0.54	4.3	3.31
Johnson Creek	1	3478.732	18-May-90	1.9	218.09	218.29	218.44	218.95	0.369078	3.61	0.53	4.29	3.29
Johnson Creek	1	3478.732	27-Oct-91	1	218.09	218.25	218.34	218.63	0.315381	2.73	0.37	4.05	2.89
Johnson Creek	1	3475	25-Jul-77	3.1	217.66	217.99	218.14	218.48	0.11168	3.09	1	4.1	1.99
Johnson Creek	1	3475	15-Sep-78	2.4	217.66	217.96	218.08	218.35	0.101411	2.77	0.87	3.87	1.87
Johnson Creek	1	3475	29-Jul-86	2.3	217.66	217.95	218.07	218.33	0.100207	2.72	0.84	3.83	1.85
Johnson Creek	1	3475	10-Jun-89	2	217.66	217.93	218.04	218.27	0.095673	2.57	0.78	3.72	1.8
Johnson Creek	1	3475	18-May-90	1.9	217.66	217.93	218.03	218.25	0.094213	2.52	0.75	3.67	1.78
Johnson Creek	1	3475	27-Oct-91	1	217.66	217.86	217.92	218.05	0.08259	1.96	0.51	3.32	1.59
Johnson Creek	1	3471	25-Jul-77	3.1	217.43	217.83	217.91	218.09	0.059121	2.26	1.37	5.61	1.46
Johnson Creek	1	3471	15-Sep-78	2.4	217.43	217.8	217.87	218.01	0.053218	2.01	1.19	5.4	1.36
Johnson Creek	1	3471	29-Jul-86	2.3	217.43	217.8	217.86	217.99	0.052375	1.97	1.17	5.38	1.35
Johnson Creek	1	3471	10-Jun-89	2	217.43	217.78	217.82	217.95	0.049704	1.85	1.08	5.29	1.3
Johnson Creek	1	3471	18-May-90	1.9	217.43	217.77	217.81	217.94	0.048786	1.8	1.05	5.26	1.29
Johnson Creek	1	3471	27-Oct-91	1	217.43	217.72	217.72	217.81	0.038015	1.33	0.75	4.95	1.09
Johnson Creek	1	3467	25-Jul-77	3.1	217.07	217.56	217.65	217.86	0.063751	2.42	1.28	4.87	1.5
Johnson Creek	1	3467	15-Sep-78	2.4	217.07	217.51	217.61	217.77	0.068045	2.28	1.05	4.54	1.51
Johnson Creek	1	3467	29-Jul-86	2.3	217.07	217.5	217.59	217.76	0.068769	2.26	1.02	4.51	1.52

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	3467	10-Jun-89	2	217.07	217.48	217.55	217.72	0.071693	2.19	0.91	4.36	1.53
Johnson Creek	1	3467	18-May-90	1.9	217.07	217.47	217.54	217.71	0.072991	2.17	0.88	4.31	1.53
Johnson Creek	1	3467	27-Oct-91	1	217.07	217.38	217.44	217.57	0.102502	1.96	0.51	3.8	1.7
Johnson Creek	1	3463	25-Jul-77	3.1	216.81	217.18	217.34	217.58	0.081189	2.79	1.11	4.18	1.73
Johnson Creek	1	3463	15-Sep-78	2.4	216.81	217.13	217.24	217.49	0.083032	2.63	0.91	3.83	1.72
Johnson Creek	1	3463	29-Jul-86	2.3	216.81	217.13	217.24	217.47	0.083053	2.6	0.89	3.78	1.71
Johnson Creek	1	3463	10-Jun-89	2	216.81	217.1	217.2	217.42	0.084568	2.52	0.8	3.61	1.71
Johnson Creek	1	3463	18-May-90	1.9	216.81	217.09	217.19	217.41	0.085477	2.48	0.77	3.59	1.71
Johnson Creek	1	3463	27-Oct-91	1	216.81	217.01	217.08	217.22	0.086967	2.02	0.5	3.24	1.65
Johnson Creek	1	3459	25-Jul-77	3.1	216.46	216.74	216.84	217.05	0.161238	2.46	1.26	10.1	2.2
Johnson Creek	1	3459	15-Sep-78	2.4	216.46	216.73	216.8	216.97	0.143746	2.19	1.1	9.38	2.04
Johnson Creek	1	3459	29-Jul-86	2.3	216.46	216.72	216.79	216.96	0.140354	2.15	1.07	9.17	2.02
Johnson Creek	1	3459	10-Jun-89	2	216.46	216.71	216.78	216.93	0.129815	2.05	0.98	8.54	1.93
Johnson Creek	1	3459	18-May-90	1.9	216.46	216.71	216.77	216.91	0.124589	2	0.95	8.35	1.89
Johnson Creek	1	3459	27-Oct-91	1	216.46	216.67	216.71	216.79	0.093066	1.54	0.65	6.83	1.59
Johnson Creek	1	3449.587	25-Jul-77	3.1	215.69	214.67	214.57	214.7	0.038999		3.95	17.55	0
Johnson Creek	1	3449.587	15-Sep-78	2.4	215.69	214.64	214.54	214.66	0.035786		3.41	16.39	0
Johnson Creek	1	3449.587	29-Jul-86	2.3	215.69	214.63	214.53	214.66	0.03444		3.36	16.29	0
Johnson Creek	1	3449.587	10-Jun-89	2	215.69	214.62	214.51	214.64	0.031792		3.15	15.85	0
Johnson Creek	1	3449.587	18-May-90	1.9	215.69	214.61	214.51	214.63	0.031401		3.06	15.78	0
Johnson Creek	1	3449.587	27-Oct-91	1	215.69	214.55	214.46	214.57	0.021614		2.2	13.64	0
Johnson Creek	1	3444.999	25-Jul-77	3.1	215.41	214.46	214.42	214.49	0.059701		4.48	32.2	0
Johnson Creek	1	3444.999	15-Sep-78	2.4	215.41	214.44	214.4	214.46	0.059899		3.83	32.14	0
Johnson Creek	1	3444.999	29-Jul-86	2.3	215.41	214.44	214.4	214.46	0.06344		3.67	32.12	0
Johnson Creek	1	3444.999	10-Jun-89	2	215.41	214.42	214.39	214.44	0.068322		3.3	32.08	0
Johnson Creek	1	3444.999	18-May-90	1.9	215.41	214.42	214.39	214.44	0.064991		3.25	32.08	0
Johnson Creek	1	3444.999	27-Oct-91	1	215.41	214.38	214.37	214.4	0.086088		2.03	31.95	0
Johnson Creek	1	3438.548		Culvert									
Johnson Creek	1	3433.468	25-Jul-77	3.1	214.65	214.44	214.27	214.45	0.009711		8.91	55.82	0
Johnson Creek	1	3433.468	15-Sep-78	2.4	214.65	214.41	214.25	214.42	0.010022		7.38	52.09	0
Johnson Creek	1	3433.468	29-Jul-86	2.3	214.65	214.4	214.24	214.41	0.010269		7.11	51.17	0
Johnson Creek	1	3433.468	10-Jun-89	2	214.65	214.39	214.23	214.4	0.010055		6.52	49.28	0
Johnson Creek	1	3433.468	18-May-90	1.9	214.65	214.37	214.22	214.38	0.011601		5.9	41.63	0
Johnson Creek	1	3433.468	27-Oct-91	1	214.65	214.25	214.1	214.26	0.024505		2.42	20.61	0
Johnson Creek	1	3426.149	25-Jul-77	3.1	214.37	214.37		214.38	0.01488	0.04	8.28	58.38	0.32
Johnson Creek	1	3426.149	15-Sep-78	2.4	214.37	214.33		214.34	0.01712		6.17	45.23	0
Johnson Creek	1	3426.149	29-Jul-86	2.3	214.37	214.33		214.33	0.016824		5.87	42.29	0
Johnson Creek	1	3426.149	10-Jun-89	2	214.37	214.31		214.32	0.017448		5.27	40	0
Johnson Creek	1	3426.149	18-May-90	1.9	214.37	214.28		214.29	0.021234		4.17	30.08	0
Johnson Creek	1	3426.149	27-Oct-91	1	214.37	214.09		214.12	0.022287		1.29	3.66	0
Johnson Creek	1	3416	25-Jul-77	3.1	214.04	214.19		214.2	0.019975	0.82	6.31	38.21	0.75
Johnson Creek	1	3416	15-Sep-78	2.4	214.04	214.14		214.15	0.018213	0.6	4.8	25.41	0.68
Johnson Creek	1	3416	29-Jul-86	2.3	214.04	214.13		214.15	0.018762	0.57	4.57	24.27	0.68
Johnson Creek	1	3416	10-Jun-89	2	214.04	214.11		214.12	0.020353	0.48	3.98	21.7	0.67
Johnson Creek	1	3416	18-May-90	1.9	214.04	214.08		214.1	0.016321	0.29	3.47	16.34	0.55
Johnson Creek	1	3416	27-Oct-91	1	214.04	213.94		213.95	0.011052		2.1	7.22	0
Johnson Creek	1	3406	25-Jul-77	3.1	213.64	214.02	213.85	214.05	0.012918	1.18	6.96	40.31	0.7
Johnson Creek	1	3406	15-Sep-78	2.4	213.64	213.98	213.81	214	0.013207	1.12	5.37	33.06	0.7
Johnson Creek	1	3406	29-Jul-86	2.3	213.64	213.97	213.81	213.99	0.013128	1.09	5.08	30.92	0.69
Johnson Creek	1	3406	10-Jun-89	2	213.64	213.94	213.77	213.96	0.013102	1.03	4.25	26.96	0.68
Johnson Creek	1	3406	18-May-90	1.9	213.64	213.93	213.76	213.95	0.013107	1	4.03	26.12	0.68
Johnson Creek	1	3406	27-Oct-91	1	213.64	213.81		213.83	0.015201	0.73	1.79	11.68	0.66
Johnson Creek	1	3393	25-Jul-77	3.1	213.41	213.56	213.56	213.67	0.110917	1.18	2.19	10.38	1.59
Johnson Creek	1	3393	15-Sep-78	2.4	213.41	213.51	213.51	213.61	0.11903	1.09	1.7	8.18	1.59
Johnson Creek	1	3393	29-Jul-86	2.3	213.41	213.5	213.5	213.61	0.11869	1.03	1.64	8	1.57
Johnson Creek	1	3393	10-Jun-89	2	213.41	213.48	213.48	213.58	0.117652	0.82	1.45	7.4	1.48
Johnson Creek	1	3393	18-May-90	1.9	213.41	213.47	213.47	213.57	0.117182	0.74	1.38	7.17	1.44
Johnson Creek	1	3393	27-Oct-91	1	213.41	213.41		213.46	0.068453		0.99	5.81	0

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	3382	25-Jul-77	3.1	212.87	213.47	213.28	213.48	0.002766	0.72	9.42	32.85	0.34
Johnson Creek	1	3382	15-Sep-78	2.4	212.87	213.42	213.25	213.43	0.002698	0.67	7.86	31.54	0.33
Johnson Creek	1	3382	29-Jul-86	2.3	212.87	213.42	213.24	213.43	0.002424	0.63	7.92	31.6	0.32
Johnson Creek	1	3382	10-Jun-89	2	212.87	213.37	213.23	213.38	0.003278	0.68	6.3	28.78	0.36
Johnson Creek	1	3382	18-May-90	1.9	212.87	213.37	213.22	213.38	0.002919	0.64	6.33	28.81	0.34
Johnson Creek	1	3382	27-Oct-91	1	212.87	213.21		213.23	0.009547	0.81	2.27	20.2	0.57
Johnson Creek	1	3369	25-Jul-77	3.1	212.74	213.41		213.43	0.006541	0.93	6.81	27.85	0.49
Johnson Creek	1	3369	15-Sep-78	2.4	212.74	213.37		213.38	0.005456	0.81	5.69	25.45	0.44
Johnson Creek	1	3369	29-Jul-86	2.3	212.74	213.38		213.39	0.004653	0.76	5.92	26.04	0.41
Johnson Creek	1	3369	10-Jun-89	2	212.74	213.31		213.32	0.005715	0.79	4.48	17.67	0.45
Johnson Creek	1	3369	18-May-90	1.9	212.74	213.32		213.33	0.004837	0.73	4.65	18.51	0.41
Johnson Creek	1	3369	27-Oct-91	1	212.74	213.13		213.14	0.005179	0.65	2.44	7.56	0.41
Johnson Creek	1	3349.752	25-Jul-77	4.8	212.24	213.08	213.08	213.23	0.013243	1.85	4.6	26.91	0.78
Johnson Creek	1	3349.752	15-Sep-78	3.9	212.24	212.98	212.98	213.16	0.019369	1.97	2.75	11.17	0.91
Johnson Creek	1	3349.752	29-Jul-86	4.2	212.24	213.01	213.01	213.18	0.017529	1.96	3.15	16.02	0.88
Johnson Creek	1	3349.752	10-Jun-89	3.2	212.24	212.93	212.93	213.09	0.020291	1.87	2.25	9.01	0.92
Johnson Creek	1	3349.752	18-May-90	3.4	212.24	212.94	212.94	213.11	0.019887	1.9	2.4	9.35	0.91
Johnson Creek	1	3349.752	27-Oct-91	1.6	212.24	212.77	212.77	212.9	0.025568	1.61	1.07	5.33	0.96
Johnson Creek	1	3345.376	25-Jul-77	4.8	211.56	212.52	212.66	213.09	0.048415	3.34	1.44	3.59	1.38
Johnson Creek	1	3345.376	15-Sep-78	3.9	211.56	212.4	212.57	212.98	0.06553	3.36	1.16	3.34	1.54
Johnson Creek	1	3345.376	29-Jul-86	4.2	211.56	212.44	212.59	213.01	0.058598	3.35	1.25	3.42	1.48
Johnson Creek	1	3345.376	10-Jun-89	3.2	211.56	212.32	212.49	212.89	0.084798	3.36	0.95	3.24	1.7
Johnson Creek	1	3345.376	18-May-90	3.4	211.56	212.34	212.51	212.92	0.078181	3.36	1.01	3.27	1.65
Johnson Creek	1	3345.376	27-Oct-91	1.6	211.56	212.09	212.28	212.65	0.119727	3.3	0.49	2.1	1.86
Johnson Creek	1	3163.811		Culvert									
Johnson Creek	1	2982.311	25-Jul-77	4.8	210.02	211.17	210.91	211.37	0.007649	1.99	2.42	21.72	0.63
Johnson Creek	1	2982.311	15-Sep-78	3.9	210.02	211.13	210.81	211.28	0.005715	1.67	2.33	18.91	0.54
Johnson Creek	1	2982.311	29-Jul-86	4.2	210.02	211.15	210.84	211.31	0.006317	1.78	2.36	20.3	0.57
Johnson Creek	1	2982.311	10-Jun-89	3.2	210.02	211.12	210.73	211.22	0.003986	1.39	2.3	17.93	0.45
Johnson Creek	1	2982.311	18-May-90	3.4	210.02	211.13	210.76	211.24	0.004485	1.47	2.31	18.03	0.48
Johnson Creek	1	2982.311	27-Oct-91	1.6	210.02	210.97	210.52	211	0.001822	0.83	1.92	10.25	0.3
Johnson Creek	1	2974.876	25-Jul-77	4.8	210.06	211.07	211.13	211.28	0.024552	2.36	3.81	17.35	0.93
Johnson Creek	1	2974.876	15-Sep-78	3.9	210.06	211.06	211.08	211.21	0.017822	1.99	3.59	16.87	0.79
Johnson Creek	1	2974.876	29-Jul-86	4.2	210.06	211.06	211.09	211.23	0.020186	2.13	3.65	17.04	0.84
Johnson Creek	1	2974.876	10-Jun-89	3.2	210.06	211	211.01	211.15	0.018086	1.93	2.8	11.47	0.78
Johnson Creek	1	2974.876	18-May-90	3.4	210.06	211.03	211.03	211.17	0.016383	1.88	3.19	14.58	0.75
Johnson Creek	1	2974.876	27-Oct-91	1.6	210.06	210.76	210.75	210.93	0.024181	1.84	1.02	3.87	0.86
Johnson Creek	1	2885.705	25-Jul-77	4.8	209.89	211.06	210.45	211.07	0.000612	0.45	10.55	15.06	0.17
Johnson Creek	1	2885.705	15-Sep-78	3.9	209.89	210.86	210.41	210.87	0.000996	0.51	7.66	13.28	0.21
Johnson Creek	1	2885.705	29-Jul-86	4.2	209.89	210.92	210.42	210.93	0.000883	0.5	8.48	14.03	0.2
Johnson Creek	1	2885.705	10-Jun-89	3.2	209.89	210.74	210.37	210.75	0.001294	0.52	6.14	12.55	0.24
Johnson Creek	1	2885.705	18-May-90	3.4	209.89	210.77	210.38	210.79	0.001227	0.52	6.55	12.94	0.23
Johnson Creek	1	2885.705	27-Oct-91	1.6	209.89	210.53		210.54	0.001475	0.43	3.73	11.25	0.24
Johnson Creek	1	2780.736	25-Jul-77	4.8	209.82	210.99		211.01	0.000614	0.51	9.43	11.13	0.18
Johnson Creek	1	2780.736	15-Sep-78	3.9	209.82	210.75		210.76	0.001063	0.57	6.81	10.28	0.22
Johnson Creek	1	2780.736	29-Jul-86	4.2	209.82	210.82		210.84	0.000884	0.55	7.59	10.43	0.21
Johnson Creek	1	2780.736	10-Jun-89	3.2	209.82	210.58		210.6	0.001766	0.63	5.1	9.91	0.28
Johnson Creek	1	2780.736	18-May-90	3.4	209.82	210.62		210.64	0.001508	0.61	5.58	10.02	0.26
Johnson Creek	1	2780.736	27-Oct-91	1.6	209.82	210.26		210.29	0.004764	0.7	2.29	8.04	0.42
Johnson Creek	1	2767.571	25-Jul-77	4.8	209.62	210.86	210.35	210.98	0.003042	1.52	3.17	13.39	0.44
Johnson Creek	1	2767.571	15-Sep-78	3.9	209.62	210.6	210.26	210.73	0.00451	1.57	2.48	12.04	0.51
Johnson Creek	1	2767.571	29-Jul-86	4.2	209.62	210.68	210.29	210.8	0.004015	1.56	2.69	12.28	0.49
Johnson Creek	1	2767.571	10-Jun-89	3.2	209.62	210.42	210.18	210.55	0.006226	1.6	2	11.29	0.58
Johnson Creek	1	2767.571	18-May-90	3.4	209.62	210.47	210.2	210.6	0.005617	1.59	2.14	11.38	0.56
Johnson Creek	1	2767.571	27-Oct-91	1.6	209.62	209.98	209.98	210.15	0.024206	1.82	0.88	5.62	1
Johnson Creek	1	2756.221		Culvert									

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	2730.169	25-Jul-77	4.8	209.23	210.33	210.2	210.58	0.011942	2.24	2.14	10.58	0.79
Johnson Creek	1	2730.169	15-Sep-78	3.9	209.23	210.12	210.12	210.42	0.020999	2.44	1.6	7.81	1
Johnson Creek	1	2730.169	29-Jul-86	4.2	209.23	210.15	210.14	210.47	0.020066	2.48	1.69	7.96	0.98
Johnson Creek	1	2730.169	10-Jun-89	3.2	209.23	210.04	210.04	210.31	0.021987	2.29	1.4	7.49	1
Johnson Creek	1	2730.169	18-May-90	3.4	209.23	210.06	210.06	210.34	0.021927	2.34	1.45	7.58	1
Johnson Creek	1	2730.169	27-Oct-91	1.6	209.23	209.84	209.84	210.01	0.025576	1.81	0.88	5.24	0.99
Johnson Creek	1	2721.879	25-Jul-77	4.8	208.82	210.44		210.45	0.000277	0.34	14.06	17.16	0.12
Johnson Creek	1	2721.879	15-Sep-78	3.9	208.82	210.24	209.56	210.25	0.000398	0.36	10.78	15.84	0.14
Johnson Creek	1	2721.879	29-Jul-86	4.2	208.82	210.3		210.3	0.000372	0.36	11.6	16.18	0.14
Johnson Creek	1	2721.879	10-Jun-89	3.2	208.82	210.13	209.5	210.14	0.000457	0.36	9.01	15.09	0.15
Johnson Creek	1	2721.879	18-May-90	3.4	208.82	210.17	209.52	210.18	0.000427	0.35	9.6	15.34	0.14
Johnson Creek	1	2721.879	27-Oct-91	1.6	208.82	209.62	209.27	209.64	0.003548	0.62	2.59	8.73	0.36
Johnson Creek	1	2602.666	25-Jul-77	4.8	208.48	210.43		210.43	0.000106	0.26	19.04	20.83	0.08
Johnson Creek	1	2602.666	15-Sep-78	3.9	208.48	210.22		210.22	0.000136	0.26	15.13	17.81	0.09
Johnson Creek	1	2602.666	29-Jul-86	4.2	208.48	210.27		210.28	0.000133	0.26	16.07	18.13	0.09
Johnson Creek	1	2602.666	10-Jun-89	3.2	208.48	210.11		210.11	0.00013	0.24	13.2	15.29	0.08
Johnson Creek	1	2602.666	18-May-90	3.4	208.48	210.15		210.15	0.00013	0.25	13.82	16.69	0.08
Johnson Creek	1	2602.666	27-Oct-91	1.6	208.48	209.52		209.52	0.00041	0.3	5.37	10.7	0.13
Johnson Creek	1	2470.182	25-Jul-77	4.8	208.27	210.41		210.42	0.000088	0.3	21.55	21.45	0.07
Johnson Creek	1	2470.182	15-Sep-78	3.9	208.27	210.21		210.21	0.000096	0.29	17.33	19.67	0.08
Johnson Creek	1	2470.182	29-Jul-86	4.2	208.27	210.26		210.26	0.000097	0.3	18.36	19.92	0.08
Johnson Creek	1	2470.182	10-Jun-89	3.2	208.27	210.09		210.1	0.000087	0.26	15.13	19.04	0.07
Johnson Creek	1	2470.182	18-May-90	3.4	208.27	210.13		210.13	0.000089	0.27	15.88	19.29	0.07
Johnson Creek	1	2470.182	27-Oct-91	1.6	208.27	209.49		209.49	0.000167	0.25	6.44	8.8	0.09
Johnson Creek	1	2424.088	25-Jul-77	4.8	208.11	210.41		210.41	0.000142	0.34	18.02	30.83	0.09
Johnson Creek	1	2424.088	15-Sep-78	3.9	208.11	210.2		210.2	0.000169	0.34	12.42	21.2	0.1
Johnson Creek	1	2424.088	29-Jul-86	4.2	208.11	210.25		210.26	0.000169	0.35	13.61	24.03	0.1
Johnson Creek	1	2424.088	10-Jun-89	3.2	208.11	210.09		210.09	0.000154	0.31	10.51	11.61	0.09
Johnson Creek	1	2424.088	18-May-90	3.4	208.11	210.12		210.13	0.000157	0.31	11.03	15.47	0.09
Johnson Creek	1	2424.088	27-Oct-91	1.6	208.11	209.48		209.48	0.000248	0.29	5.46	7.37	0.11
Johnson Creek	1	2421.543	25-Jul-77	4.8	208.09	210.41	209.06	210.41	0.000148	0.35	18.72	38.03	0.09
Johnson Creek	1	2421.543	15-Sep-78	3.9	208.09	210.2	208.95	210.2	0.000179	0.35	12.63	24.05	0.1
Johnson Creek	1	2421.543	29-Jul-86	4.2	208.09	210.25	208.99	210.26	0.000178	0.35	13.97	26.53	0.1
Johnson Creek	1	2421.543	10-Jun-89	3.2	208.09	210.08	208.87	210.09	0.000162	0.31	10.41	15.56	0.09
Johnson Creek	1	2421.543	18-May-90	3.4	208.09	210.12	208.9	210.13	0.000165	0.32	11.06	18.12	0.09
Johnson Creek	1	2421.543	27-Oct-91	1.6	208.09	209.46	208.66	209.48	0.000553	0.6	2.68	6.6	0.18
Johnson Creek	1	2409.157		Culvert									
Johnson Creek	1	2395.953	25-Jul-77	4.8	208.26	210.4	209.18	210.41	0.00004	0.2	47.43	64.73	0.05
Johnson Creek	1	2395.953	15-Sep-78	3.9	208.26	210.13	209.08	210.13	0.000064	0.23	31.44	53.82	0.06
Johnson Creek	1	2395.953	29-Jul-86	4.2	208.26	210.23	209.12	210.23	0.000053	0.22	36.74	54.97	0.06
Johnson Creek	1	2395.953	10-Jun-89	3.2	208.26	209.88	209	209.93	0.000997	0.95	3.36	43.09	0.25
Johnson Creek	1	2395.953	18-May-90	3.4	208.26	209.97	209.03	209.97	0.000089	0.25	22.86	52.63	0.07
Johnson Creek	1	2395.953	27-Oct-91	1.6	208.26	209.38	208.79	209.41	0.001006	0.72	2.21	15.27	0.24
Johnson Creek	1	2391.541	25-Jul-77	4.8	208.12	210.4		210.41	0.000023	0.18	67.25	81.98	0.04
Johnson Creek	1	2391.541	15-Sep-78	3.9	208.12	210.13		210.13	0.000033	0.19	46.31	68.95	0.05
Johnson Creek	1	2391.541	29-Jul-86	4.2	208.12	210.23		210.23	0.000028	0.18	53.28	73.33	0.04
Johnson Creek	1	2391.541	10-Jun-89	3.2	208.12	209.9		209.9	0.000044	0.2	32.07	54.99	0.05
Johnson Creek	1	2391.541	18-May-90	3.4	208.12	209.97		209.97	0.000041	0.2	35.78	60.71	0.05
Johnson Creek	1	2391.541	27-Oct-91	1.6	208.12	209.39		209.39	0.000058	0.17	14.09	21.47	0.06
Johnson Creek	1	2370	25-Jul-77	4.8	208.08	210.4		210.41	0.000011	0.12	102.05	106.78	0.03
Johnson Creek	1	2370	15-Sep-78	3.9	208.08	210.13		210.13	0.000016	0.14	72.82	103.57	0.03
Johnson Creek	1	2370	29-Jul-86	4.2	208.08	210.23		210.23	0.000014	0.13	83.03	105.14	0.03
Johnson Creek	1	2370	10-Jun-89	3.2	208.08	209.9		209.9	0.00002	0.14	51.73	80.49	0.04
Johnson Creek	1	2370	18-May-90	3.4	208.08	209.97		209.97	0.000019	0.14	57.08	88.32	0.04
Johnson Creek	1	2370	27-Oct-91	1.6	208.08	209.39		209.39	0.000032	0.14	19.22	43.21	0.04
Johnson Creek	1	2338.491	25-Jul-77	4.8	208	210.4		210.4	0.000009	0.11	138.57	203.86	0.02
Johnson Creek	1	2338.491	15-Sep-78	3.9	208	210.13		210.13	0.000017	0.13	84.47	183.5	0.03
Johnson Creek	1	2338.491	29-Jul-86	4.2	208	210.22		210.23	0.000013	0.12	102.89	192.45	0.03

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Chl El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson Creek	1	2338.491	10-Jun-89	3.2	208	209.9		209.9	0.000025	0.15	50.33	124.53	0.04
Johnson Creek	1	2338.491	18-May-90	3.4	208	209.97		209.97	0.000022	0.14	58.6	135.54	0.04
Johnson Creek	1	2338.491	27-Oct-91	1.6	208	209.39		209.39	0.000048	0.16	13.51	42.77	0.05
Johnson Creek	1	2299.574	25-Jul-77	4.8	207.93	210.4		210.4	0.000015	0.14	102.87	182.27	0.03
Johnson Creek	1	2299.574	15-Sep-78	3.9	207.93	210.13		210.13	0.000028	0.18	57.33	140.32	0.04
Johnson Creek	1	2299.574	29-Jul-86	4.2	207.93	210.22		210.22	0.000022	0.17	71.74	155.06	0.04
Johnson Creek	1	2299.574	10-Jun-89	3.2	207.93	209.9		209.9	0.000044	0.21	29.27	95.73	0.05
Johnson Creek	1	2299.574	18-May-90	3.4	207.93	209.96		209.97	0.000041	0.2	36.28	120.39	0.05
Johnson Creek	1	2299.574	27-Oct-91	1.6	207.93	209.39		209.39	0.000057	0.18	9.28	14.17	0.06
Johnson Creek	1	2296.756	25-Jul-77	4.8	207.95	210.31	209.11	210.4	0.001342	1.33	3.7	179.05	0.29
Johnson Creek	1	2296.756	15-Sep-78	3.9	207.95	210.04	208.99	210.12	0.001382	1.23	3.16	143.47	0.29
Johnson Creek	1	2296.756	29-Jul-86	4.2	207.95	210.13	209.03	210.22	0.001361	1.26	3.32	151.61	0.29
Johnson Creek	1	2296.756	10-Jun-89	3.2	207.95	209.83	208.89	209.89	0.001396	1.14	2.8	70.24	0.28
Johnson Creek	1	2296.756	18-May-90	3.4	207.95	209.89	208.92	209.96	0.001398	1.17	2.9	100	0.29
Johnson Creek	1	2296.756	27-Oct-91	1.6	207.95	209.35	208.63	209.39	0.001082	0.8	1.99	9.81	0.24
Johnson Creek	1	2290.768		Culvert									
Johnson Creek	1	2283.861	25-Jul-77	4.8	208.61	209.61	209.61	210.08	0.017563	3.02	1.59	60.2	1
Johnson Creek	1	2283.861	15-Sep-78	3.9	208.61	209.49	209.49	209.9	0.018285	2.82	1.39	48.52	1
Johnson Creek	1	2283.861	29-Jul-86	4.2	208.61	209.53	209.53	209.96	0.018186	2.9	1.45	54.26	1
Johnson Creek	1	2283.861	10-Jun-89	3.2	208.61	209.39	209.39	209.74	0.019323	2.64	1.21	26.67	1
Johnson Creek	1	2283.861	18-May-90	3.4	208.61	209.42	209.42	209.79	0.01916	2.7	1.26	30.95	1
Johnson Creek	1	2283.861	27-Oct-91	1.6	208.61	209.12	209.12	209.35	0.022681	2.1	0.76	5.73	1
Johnson Creek	1	2278.452	25-Jul-77	4.8	207.95	208.4	208.63	209.59	0.439856	4.85	0.99	5.76	3.73
Johnson Creek	1	2278.452	15-Sep-78	3.9	207.95	208.37	208.58	209.43	0.440166	4.55	0.86	5.49	3.68
Johnson Creek	1	2278.452	29-Jul-86	4.2	207.95	208.38	208.6	209.48	0.44889	4.65	0.9	5.69	3.72
Johnson Creek	1	2278.452	10-Jun-89	3.2	207.95	208.35	208.54	209.29	0.415713	4.29	0.75	4.99	3.54
Johnson Creek	1	2278.452	18-May-90	3.4	207.95	208.36	208.55	209.33	0.422063	4.36	0.78	5.14	3.58
Johnson Creek	1	2278.452	27-Oct-91	1.6	207.95	208.28	208.42	208.92	0.322849	3.54	0.45	3.31	3.06
Johnson Creek	1	2232.269	25-Jul-77	4.8	207.75	207.94	207.94	208.13	0.089695	1.93	2.46	6.53	1.65
Johnson Creek	1	2232.269	15-Sep-78	3.9	207.75	207.9	207.9	208.06	0.080906	1.52	2.21	6.41	1.5
Johnson Creek	1	2232.269	29-Jul-86	4.2	207.75	207.91	207.91	208.09	0.087926	1.66	2.26	6.43	1.58
Johnson Creek	1	2232.269	10-Jun-89	3.2	207.75	208.07	207.85	208.12	0.015425	1.17	3.32	6.9	0.74
Johnson Creek	1	2232.269	18-May-90	3.4	207.75	207.87	207.87	208.02	0.079706	1.24	2.01	6.18	1.42
Johnson Creek	1	2232.269	27-Oct-91	1.6	207.75	207.99	207.55	208.01	0.006584	0.63	2.81	6.69	0.47
Johnson Creek	1	2048.833	25-Jul-77	4.8	205.76	207.97	206.32	207.97	0.000121	0.33	14.74	8.96	0.08
Johnson Creek	1	2048.833	15-Sep-78	3.9	205.76	207.31	206.26	207.32	0.000306	0.42	9.2	8.03	0.13
Johnson Creek	1	2048.833	29-Jul-86	4.2	205.76	207.77	206.28	207.78	0.000131	0.32	13	8.58	0.08
Johnson Creek	1	2048.833	10-Jun-89	3.2	205.76	206.36		206.44	0.008122	1.23	2.59	5.73	0.59
Johnson Creek	1	2048.833	18-May-90	3.4	205.76	206.63	206.22	206.67	0.002102	0.8	4.27	6.45	0.31
Johnson Creek	1	2048.833	27-Oct-91	1.6	205.76	206.08	206.08	206.19	0.028937	1.48	1.08	4.9	1
Johnson Creek	1	1770.458	25-Jul-77	4.8	204.66	207.97		207.97	0	0.01	1067.13	393.2	0
Johnson Creek	1	1770.458	15-Sep-78	3.9	204.66	207.32		207.32	0	0.01	815.28	375.05	0
Johnson Creek	1	1770.458	29-Jul-86	4.2	204.66	207.77		207.77	0	0	989.57	388.06	0
Johnson Creek	1	1770.458	10-Jun-89	3.2	204.66	206.41		206.41	0	0.01	483.48	357.84	0
Johnson Creek	1	1770.458	18-May-90	3.4	204.66	206.66		206.66	0	0.01	571.17	362.88	0
Johnson Creek	1	1770.458	27-Oct-91	1.6	204.66	205.55	204.82	205.55	0	0.01	190.95	313.19	0
Johnson Creek	1	1636.795	25-Jul-77	4.8	204.77	207.97		207.97	0	0	1439.86	506.54	0
Johnson Creek	1	1636.795	15-Sep-78	3.9	204.77	207.32		207.32	0	0	1112.45	489.88	0
Johnson Creek	1	1636.795	29-Jul-86	4.2	204.77	207.77		207.77	0	0	1339.42	503.82	0
Johnson Creek	1	1636.795	10-Jun-89	3.2	204.77	206.41		206.41	0	0.01	678.2	470.34	0
Johnson Creek	1	1636.795	18-May-90	3.4	204.77	206.66		206.66	0	0.01	792.61	472.17	0
Johnson Creek	1	1636.795	27-Oct-91	1.6	204.77	205.55		205.55	0	0.01	286.9	434.15	0
Johnson Creek	1	1560.34	25-Jul-77	4.8	204.74	207.97	204.82	207.97	0	0	1566.03	580.04	0
Johnson Creek	1	1560.34	15-Sep-78	3.9	204.74	207.32	204.82	207.32	0	0	1219.66	525.22	0
Johnson Creek	1	1560.34	29-Jul-86	4.2	204.74	207.77	204.82	207.77	0	0	1460.75	551.95	0
Johnson Creek	1	1560.34	10-Jun-89	3.2	204.74	206.41	204.81	206.41	0	0.01	747.54	513.63	0
Johnson Creek	1	1560.34	18-May-90	3.4	204.74	206.66	204.82	206.66	0	0.01	873.14	521.04	0
Johnson Creek	1	1560.34	27-Oct-91	1.6	204.74	205.55	204.8	205.55	0	0.01	319.06	478.37	0

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	1541.292	25-Jul-77	4.8	204.75	207.97	204.91	207.97	0	0.01	1438.69	603.34	0
Johnson Creek	1	1541.292	15-Sep-78	3.9	204.75	207.32	204.9	207.32	0	0.01	1077.17	513.61	0
Johnson Creek	1	1541.292	29-Jul-86	4.2	204.75	207.77	204.9	207.77	0	0.01	1321.16	568.49	0
Johnson Creek	1	1541.292	10-Jun-89	3.2	204.75	206.41	204.89	206.41	0	0.01	628.11	465.64	0
Johnson Creek	1	1541.292	18-May-90	3.4	204.75	206.66	204.89	206.66	0	0.01	744.23	486.82	0
Johnson Creek	1	1541.292	27-Oct-91	1.6	204.75	205.55	204.85	205.55	0.000001	0.02	248.45	424.06	0.01
Johnson Creek	1	1482.765	25-Jul-77	4.8	204.77	207.97	204.95	207.97	0	0.01	1459.14	695.85	0
Johnson Creek	1	1482.765	15-Sep-78	3.9	204.77	207.32	204.94	207.32	0	0.01	1002.83	695.15	0
Johnson Creek	1	1482.765	29-Jul-86	4.2	204.77	207.77	204.94	207.77	0	0.01	1320.96	695.65	0
Johnson Creek	1	1482.765	10-Jun-89	3.2	204.77	206.41	204.92	206.41	0	0.02	460.51	412.8	0
Johnson Creek	1	1482.765	18-May-90	3.4	204.77	206.66	204.93	206.66	0	0.02	578.18	534.35	0
Johnson Creek	1	1482.765	27-Oct-91	1.6	204.77	205.55	204.89	205.55	0.000002	0.02	166.37	292.19	0.01
Johnson Creek	1	1427.489	25-Jul-77	4.8	204.73	207.97	204.83	207.97	0	0.01	1621.78	744.58	0
Johnson Creek	1	1427.489	15-Sep-78	3.9	204.73	207.32	204.82	207.32	0	0.01	1133.65	743.11	0
Johnson Creek	1	1427.489	29-Jul-86	4.2	204.73	207.77	204.82	207.77	0	0.01	1473.91	744.35	0
Johnson Creek	1	1427.489	10-Jun-89	3.2	204.73	206.41	204.82	206.41	0	0.01	440.69	452.96	0
Johnson Creek	1	1427.489	18-May-90	3.4	204.73	206.66	204.82	206.66	0	0.01	642.59	731.67	0
Johnson Creek	1	1427.489	27-Oct-91	1.6	204.73	205.55	204.8	205.55	0	0.01	179.29	272.42	0
Johnson Creek	1	1347.835	25-Jul-77	4.8	204.71	207.97	204.82	207.97	0	0	1845.8	695.57	0
Johnson Creek	1	1347.835	15-Sep-78	3.9	204.71	207.32	204.82	207.32	0	0.01	1389.85	694.34	0
Johnson Creek	1	1347.835	29-Jul-86	4.2	204.71	207.77	204.82	207.77	0	0	1707.68	695.27	0
Johnson Creek	1	1347.835	10-Jun-89	3.2	204.71	206.41	204.81	206.41	0	0.01	766.91	666.58	0
Johnson Creek	1	1347.835	18-May-90	3.4	204.71	206.66	204.81	206.66	0	0.01	931.6	685.85	0
Johnson Creek	1	1347.835	27-Oct-91	1.6	204.71	205.55	204.8	205.55	0	0.01	171.04	431.11	0
Johnson Creek	1	1249.306	25-Jul-77	4.8	204.75	207.97		207.97	0	0	1930.98	760.93	0
Johnson Creek	1	1249.306	15-Sep-78	3.9	204.75	207.32		207.32	0	0.01	1433.66	746.78	0
Johnson Creek	1	1249.306	29-Jul-86	4.2	204.75	207.77		207.77	0	0	1779.9	760.51	0
Johnson Creek	1	1249.306	10-Jun-89	3.2	204.75	206.41		206.41	0	0.01	799.52	633.48	0
Johnson Creek	1	1249.306	18-May-90	3.4	204.75	206.66		206.66	0	0.01	958.09	677.06	0
Johnson Creek	1	1249.306	27-Oct-91	1.6	204.75	205.55		205.55	0	0.01	297.44	548.63	0
Johnson Creek	1	1119.792	25-Jul-77	4.8	204.8	207.97		207.97	0	0.01	884.53	554.36	0
Johnson Creek	1	1119.792	15-Sep-78	3.9	204.8	207.32		207.32	0	0.01	562.35	420.37	0
Johnson Creek	1	1119.792	29-Jul-86	4.2	204.8	207.77		207.77	0	0.01	777.23	522.94	0
Johnson Creek	1	1119.792	10-Jun-89	3.2	204.8	206.41		206.41	0	0.01	256.03	236.62	0
Johnson Creek	1	1119.792	18-May-90	3.4	204.8	206.66		206.66	0	0.01	321.59	308.26	0
Johnson Creek	1	1119.792	27-Oct-91	1.6	204.8	205.55		205.55	0.000001	0.02	98.84	139.91	0.01
Johnson Creek	1	982.5439	25-Jul-77	4.8	204.78	207.97		207.97	0	0.02	356.4	221.98	0
Johnson Creek	1	982.5439	15-Sep-78	3.9	204.78	207.32		207.32	0	0.02	251.22	141.48	0
Johnson Creek	1	982.5439	29-Jul-86	4.2	204.78	207.77		207.77	0	0.02	319.8	163.83	0
Johnson Creek	1	982.5439	10-Jun-89	3.2	204.78	206.41		206.41	0.000001	0.03	138.08	107.94	0.01
Johnson Creek	1	982.5439	18-May-90	3.4	204.78	206.66		206.66	0	0.02	164.92	114.3	0.01
Johnson Creek	1	982.5439	27-Oct-91	1.6	204.78	205.55		205.55	0.000002	0.03	58.34	82.5	0.01
Johnson Creek	1	887.877	25-Jul-77	4.8	204.8	207.97		207.97	0	0.02	229.88	93.76	0
Johnson Creek	1	887.877	15-Sep-78	3.9	204.8	207.32		207.32	0	0.03	169.82	89.43	0.01
Johnson Creek	1	887.877	29-Jul-86	4.2	204.8	207.77		207.77	0	0.02	211.36	92.35	0
Johnson Creek	1	887.877	10-Jun-89	3.2	204.8	206.41		206.41	0.000001	0.03	93.61	73.03	0.01
Johnson Creek	1	887.877	18-May-90	3.4	204.8	206.66		206.66	0.000001	0.03	112.58	84.28	0.01
Johnson Creek	1	887.877	27-Oct-91	1.6	204.8	205.55		205.55	0.000005	0.04	40.04	58.35	0.02
Johnson Creek	1	724.8068	25-Jul-77	4.8	204.79	207.97		207.97	0	0.01	764.19	432.31	0
Johnson Creek	1	724.8068	15-Sep-78	3.9	204.79	207.32		207.32	0	0.02	516.58	319.89	0
Johnson Creek	1	724.8068	29-Jul-86	4.2	204.79	207.77		207.77	0	0.01	679.81	415.55	0
Johnson Creek	1	724.8068	10-Jun-89	3.2	204.79	206.41		206.41	0.000001	0.03	249.42	250.4	0.01
Johnson Creek	1	724.8068	18-May-90	3.4	204.79	206.66		206.66	0	0.02	313.97	279.45	0.01
Johnson Creek	1	724.8068	27-Oct-91	1.6	204.79	205.55		205.55	0.000003	0.04	75.48	154.22	0.01
Johnson Creek	1	720.3074	25-Jul-77	4.8	204.79	207.97	205.78	207.97	0	0.02	682.66	417.87	0
Johnson Creek	1	720.3074	15-Sep-78	3.9	204.79	207.32	205.67	207.32	0	0.02	454.41	308.51	0
Johnson Creek	1	720.3074	29-Jul-86	4.2	204.79	207.77	205.71	207.77	0	0.02	605.48	346.43	0
Johnson Creek	1	720.3074	10-Jun-89	3.2	204.79	206.41	205.57	206.41	0.000001	0.03	224.42	198.99	0.01

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	720.3074	18-May-90	3.4	204.79	206.66	205.6	206.66	0.000001	0.03	275	230.54	0.01
Johnson Creek	1	720.3074	27-Oct-91	1.6	204.79	205.3	205.3	205.53	0.021436	2.12	0.76	105.87	0.99
Johnson Creek	1	706.6135		Culvert									
Johnson Creek	1	692.6135	25-Jul-77	4.8	204.4	207.97	205.5	207.97	0	0.02	600.64	344.65	0
Johnson Creek	1	692.6135	15-Sep-78	3.9	204.4	207.32	205.37	207.32	0	0.02	416.74	250.79	0
Johnson Creek	1	692.6135	29-Jul-86	4.2	204.4	207.77	205.41	207.77	0	0.02	538.35	284.28	0
Johnson Creek	1	692.6135	10-Jun-89	3.2	204.4	206.41	205.27	206.41	0.000001	0.04	207.2	219.14	0.01
Johnson Creek	1	692.6135	18-May-90	3.4	204.4	206.65	205.3	206.65	0.000001	0.03	261.27	223.64	0.01
Johnson Creek	1	692.6135	27-Oct-91	1.6	204.4	205.1	204.99	205.25	0.011831	1.74	0.92	49.65	0.73
Johnson Creek	1	682.7532	25-Jul-77	4.8	204.51	207.97		207.97	0	0.02	568.93	287.18	0
Johnson Creek	1	682.7532	15-Sep-78	3.9	204.51	207.32		207.32	0	0.02	403.7	236.66	0.01
Johnson Creek	1	682.7532	29-Jul-86	4.2	204.51	207.77		207.77	0	0.02	515.28	252.76	0
Johnson Creek	1	682.7532	10-Jun-89	3.2	204.51	206.41		206.41	0.000002	0.04	199.36	211.26	0.01
Johnson Creek	1	682.7532	18-May-90	3.4	204.51	206.65		206.65	0.000001	0.04	251.93	219.22	0.01
Johnson Creek	1	682.7532	27-Oct-91	1.6	204.51	205.15		205.16	0.00075	0.32	7.12	31.99	0.17
Johnson Creek	1	607.846	25-Jul-77	4.8	204.23	207.97		207.97	0	0.03	452.37	275.56	0.01
Johnson Creek	1	607.846	15-Sep-78	3.9	204.23	207.32		207.32	0.000001	0.03	284.73	221.29	0.01
Johnson Creek	1	607.846	29-Jul-86	4.2	204.23	207.77		207.77	0	0.03	397.77	274.27	0.01
Johnson Creek	1	607.846	10-Jun-89	3.2	204.23	206.41		206.41	0.000004	0.05	121.92	144.8	0.02
Johnson Creek	1	607.846	18-May-90	3.4	204.23	206.65		206.65	0.000002	0.04	158.06	150.71	0.01
Johnson Creek	1	607.846	27-Oct-91	1.6	204.23	205.1		205.11	0.000626	0.41	5.24	18.71	0.17
Johnson Creek	1	528.6843	25-Jul-77	4.8	204.16	207.97		207.97	0	0.02	603.77	324.82	0
Johnson Creek	1	528.6843	15-Sep-78	3.9	204.16	207.32		207.32	0	0.02	434.6	243.26	0
Johnson Creek	1	528.6843	29-Jul-86	4.2	204.16	207.77		207.77	0	0.02	548.03	256.04	0
Johnson Creek	1	528.6843	10-Jun-89	3.2	204.16	206.41		206.41	0.000001	0.03	230.46	201.66	0.01
Johnson Creek	1	528.6843	18-May-90	3.4	204.16	206.65		206.65	0	0.03	281.48	215.73	0.01
Johnson Creek	1	528.6843	27-Oct-91	1.6	204.16	205.1		205.1	0.000024	0.08	28.37	80.99	0.03
Johnson Creek	1	525.2311	25-Jul-77	4.8	204.17	207.97	205.4	207.97	0	0.01	596.97	313.24	0
Johnson Creek	1	525.2311	15-Sep-78	3.9	204.17	207.25	205.25	207.31	0.00047	1.09	3.59	233.09	0.2
Johnson Creek	1	525.2311	29-Jul-86	4.2	204.17	207.72	205.3	207.77	0.000339	1.02	4.14	254.75	0.17
Johnson Creek	1	525.2311	10-Jun-89	3.2	204.17	206.32	205.12	206.4	0.001074	1.29	2.49	196.62	0.28
Johnson Creek	1	525.2311	18-May-90	3.4	204.17	206.57	205.15	206.65	0.000831	1.22	2.79	201.86	0.25
Johnson Creek	1	525.2311	27-Oct-91	1.6	204.17	204.78	204.78	205.07	0.020529	2.36	0.68	40.75	1
Johnson Creek	1	505.4535		Culvert									
Johnson Creek	1	493.4535	25-Jul-77	4.8	203.68	204.92	204.92	205.51	0.015738	3.41	1.41	79.03	1
Johnson Creek	1	493.4535	15-Sep-78	3.9	203.68	204.76	204.76	205.28	0.016713	3.2	1.22	66.19	1
Johnson Creek	1	493.4535	29-Jul-86	4.2	203.68	204.82	204.82	205.36	0.01613	3.26	1.29	70.63	1
Johnson Creek	1	493.4535	10-Jun-89	3.2	203.68	204.64	204.64	205.09	0.017166	2.98	1.07	53.14	1
Johnson Creek	1	493.4535	18-May-90	3.4	203.68	204.67	204.67	205.14	0.017104	3.05	1.12	58.72	1
Johnson Creek	1	493.4535	27-Oct-91	1.6	203.68	204.3	204.3	204.58	0.019993	2.36	0.68	36.46	1
Johnson Creek	1	487.68	25-Jul-77	4.8	203.75	204.91	204.18	204.91	0.000074	0.21	65.78	203.87	0.07
Johnson Creek	1	487.68	15-Sep-78	3.9	203.75	204.72	204.13	204.72	0.000153	0.26	34.62	113.19	0.09
Johnson Creek	1	487.68	29-Jul-86	4.2	203.75	204.79	204.14	204.79	0.000118	0.24	43.82	148.41	0.08
Johnson Creek	1	487.68	10-Jun-89	3.2	203.75	204.61	204.09	204.61	0.000185	0.26	25.41	56.7	0.1
Johnson Creek	1	487.68	18-May-90	3.4	203.75	204.64	204.12	204.64	0.000175	0.26	27.46	73.13	0.1
Johnson Creek	1	487.68	27-Oct-91	1.6	203.75	204.34	203.99	204.34	0.000338	0.26	12.52	44.6	0.12
Johnson Creek	1	412.3536	25-Jul-77	4.8	203.68	204.91		204.91	0.000091	0.2	52.12	94.41	0.07
Johnson Creek	1	412.3536	15-Sep-78	3.9	203.68	204.71		204.71	0.000163	0.23	34.75	77.57	0.09
Johnson Creek	1	412.3536	29-Jul-86	4.2	203.68	204.78		204.78	0.000131	0.22	40.58	84.34	0.08
Johnson Creek	1	412.3536	10-Jun-89	3.2	203.68	204.59		204.6	0.000204	0.24	26.73	64.62	0.1
Johnson Creek	1	412.3536	18-May-90	3.4	203.68	204.63		204.63	0.000191	0.23	28.92	69.27	0.1
Johnson Creek	1	412.3536	27-Oct-91	1.6	203.68	204.31		204.31	0.000383	0.25	12.49	42.32	0.13
Johnson Creek	1	309.6899	25-Jul-77	4.8	203.65	204.88		204.89	0.00046	0.48	20.33	80	0.16
Johnson Creek	1	309.6899	15-Sep-78	3.9	203.65	204.65		204.67	0.001149	0.63	6.99	36.84	0.24
Johnson Creek	1	309.6899	29-Jul-86	4.2	203.65	204.73		204.75	0.000816	0.57	10.71	48.18	0.2
Johnson Creek	1	309.6899	10-Jun-89	3.2	203.65	204.52		204.54	0.001421	0.63	5.1	8.45	0.26
Johnson Creek	1	309.6899	18-May-90	3.4	203.65	204.56		204.58	0.001352	0.63	5.4	8.58	0.25

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson Creek	1	309.6899	27-Oct-91	1.6	203.65	204.2		204.22	0.002188	0.59	2.69	6.81	0.3
Johnson Creek	1	308.3116	25-Jul-77	4.8	203.61	204.66	204.4	204.87	0.00682	2	2.4	53.24	0.64
Johnson Creek	1	308.3116	15-Sep-78	3.9	203.61	204.31	204.31	204.63	0.019242	2.51	1.55	6.91	1
Johnson Creek	1	308.3116	29-Jul-86	4.2	203.61	204.5	204.34	204.72	0.009366	2.08	2.02	7.61	0.73
Johnson Creek	1	308.3116	10-Jun-89	3.2	203.61	204.23	204.23	204.51	0.02055	2.36	1.35	6.45	1.01
Johnson Creek	1	308.3116	18-May-90	3.4	203.61	204.25	204.25	204.55	0.019992	2.4	1.42	6.57	1
Johnson Creek	1	308.3116	27-Oct-91	1.6	203.61	204.02	204.02	204.2	0.023802	1.87	0.85	5.7	1
Johnson Creek	1	163.9316		Culvert									
Johnson Creek	1	23.93161	25-Jul-77	4.8	203.06	204.47	203.9	204.59	0.002907	1.52	3.16	435.77	0.42
Johnson Creek	1	23.93161	15-Sep-78	3.9	203.06	204.25	203.8	204.36	0.003497	1.48	2.64	331.96	0.45
Johnson Creek	1	23.93161	29-Jul-86	4.2	203.06	204.41	203.83	204.51	0.002579	1.39	3.02	420.34	0.4
Johnson Creek	1	23.93161	10-Jun-89	3.2	203.06	204.09	203.72	204.19	0.004014	1.42	2.25	156.29	0.47
Johnson Creek	1	23.93161	18-May-90	3.4	203.06	204.19	203.74	204.29	0.003198	1.36	2.5	280.97	0.43
Johnson Creek	1	23.93161	27-Oct-91	1.6	203.06	203.79	203.51	203.84	0.003698	1.05	1.52	31.16	0.42
Johnson Creek	1	21.02631	25-Jul-77	4.8	203.07	204.53		204.53	0.000015	0.11	189.88	453.17	0.03
Johnson Creek	1	21.02631	15-Sep-78	3.9	203.07	204.31		204.31	0.000068	0.2	95.8	398.15	0.06
Johnson Creek	1	21.02631	29-Jul-86	4.2	203.07	204.46		204.46	0.000019	0.12	160.24	437.33	0.03
Johnson Creek	1	21.02631	10-Jun-89	3.2	203.07	204.14		204.14	0.000241	0.34	41.2	218.45	0.11
Johnson Creek	1	21.02631	18-May-90	3.4	203.07	204.24		204.24	0.000098	0.23	69.74	353.44	0.07
Johnson Creek	1	21.02631	27-Oct-91	1.6	203.07	203.8		203.82	0.001955	0.69	4.84	35.85	0.3
Johnson Creek	1	5.809449	25-Jul-77	4.8	203.04	204.53		204.53	0.000008	0.08	230.03	453.25	0.02
Johnson Creek	1	5.809449	15-Sep-78	3.9	203.04	204.31		204.31	0.000024	0.12	135.52	388.32	0.04
Johnson Creek	1	5.809449	29-Jul-86	4.2	203.04	204.46		204.46	0.000009	0.08	200.26	440.53	0.02
Johnson Creek	1	5.809449	10-Jun-89	3.2	203.04	204.14		204.14	0.00007	0.19	75	306.1	0.06
Johnson Creek	1	5.809449	18-May-90	3.4	203.04	204.24		204.24	0.000031	0.13	109.7	368.96	0.04
Johnson Creek	1	5.809449	27-Oct-91	1.6	203.04	203.79		203.8	0.000883	0.49	8.02	69.68	0.2
Eastview Creek	Upper	3112.06	25-Jul-77	2.4	218.74	219.19	219.13	219.27	0.013826	1.27	1.89	6.2	0.73
Eastview Creek	Upper	3112.06	15-Sep-78	1.4	218.74	219.09	219.04	219.15	0.014835	1.08	1.29	5.69	0.73
Eastview Creek	Upper	3112.06	29-Jul-86	1.3	218.74	219.08	219.03	219.13	0.015101	1.06	1.22	5.63	0.73
Eastview Creek	Upper	3112.06	10-Jun-89	1.4	218.74	219.09	219.04	219.15	0.014835	1.08	1.29	5.69	0.73
Eastview Creek	Upper	3112.06	18-May-90	1	218.74	219.04	219	219.09	0.015582	0.98	1.02	5.42	0.72
Eastview Creek	Upper	3112.06	27-Oct-91	0.5	218.74	218.97	218.94	219	0.016312	0.78	0.64	5.02	0.7
Eastview Creek	Upper	3105	25-Jul-77	2.4	218.6	218.99	218.99	219.13	0.026634	1.67	1.44	5.16	1.01
Eastview Creek	Upper	3105	15-Sep-78	1.4	218.6	218.89	218.89	219	0.029075	1.46	0.96	4.52	1.01
Eastview Creek	Upper	3105	29-Jul-86	1.3	218.6	218.88	218.88	218.99	0.029447	1.43	0.91	4.45	1.01
Eastview Creek	Upper	3105	10-Jun-89	1.4	218.6	218.89	218.89	219	0.029075	1.46	0.96	4.52	1.01
Eastview Creek	Upper	3105	18-May-90	1	218.6	218.84	218.84	218.93	0.030843	1.33	0.75	4.25	1.01
Eastview Creek	Upper	3105	27-Oct-91	0.5	218.6	218.77	218.77	218.83	0.034683	1.1	0.45	3.74	1.01
Eastview Creek	Upper	3098	25-Jul-77	2.4	218.47	218.63	218.58	218.67	0.041333	1.07	3.12	18.69	1.07
Eastview Creek	Upper	3098	15-Sep-78	1.4	218.47	218.59	218.53	218.6	0.03752	0.74	2.29	16.45	0.94
Eastview Creek	Upper	3098	29-Jul-86	1.3	218.47	218.58	218.52	218.6	0.036436	0.7	2.2	16.34	0.92
Eastview Creek	Upper	3098	10-Jun-89	1.4	218.47	218.59	218.53	218.6	0.03752	0.74	2.29	16.45	0.94
Eastview Creek	Upper	3098	18-May-90	1	218.47	218.56	218.5	218.58	0.033689	0.57	1.91	15.77	0.85
Eastview Creek	Upper	3098	27-Oct-91	0.5	218.47	218.51	218.46	218.52	0.034919	0.32	1.14	11.88	0.75
Eastview Creek	Upper	3091	25-Jul-77	2.4	218.35	218.1	218.1	218.15	0.160014		2.42	24.09	0
Eastview Creek	Upper	3091	15-Sep-78	1.4	218.35	218.06	218.06	218.1	0.182255		1.6	18.8	0
Eastview Creek	Upper	3091	29-Jul-86	1.3	218.35	218.06	218.06	218.1	0.193171		1.49	18.52	0
Eastview Creek	Upper	3091	10-Jun-89	1.4	218.35	218.06	218.06	218.1	0.182255		1.6	18.8	0
Eastview Creek	Upper	3091	18-May-90	1	218.35	218.04	218.04	218.08	0.229008		1.18	17.46	0
Eastview Creek	Upper	3091	27-Oct-91	0.5	218.35	218.01	218.01	218.04	0.188915		0.7	14.47	0
Eastview Creek	Upper	3086	25-Jul-77	2.4	218.16	217.7	217.63	217.71	0.03179		4.59	32.72	0
Eastview Creek	Upper	3086	15-Sep-78	1.4	218.16	217.66	217.59	217.67	0.028769		3.28	29.98	0
Eastview Creek	Upper	3086	29-Jul-86	1.3	218.16	217.65	217.59	217.66	0.028376		3.13	29.61	0
Eastview Creek	Upper	3086	10-Jun-89	1.4	218.16	217.66	217.59	217.67	0.028769		3.28	29.98	0
Eastview Creek	Upper	3086	18-May-90	1	218.16	217.64	217.57	217.64	0.028052		2.64	28.29	0
Eastview Creek	Upper	3086	27-Oct-91	0.5	218.16	217.59	217.54	217.6	0.024641		1.63	20.69	0
Eastview Creek	Upper	3080	25-Jul-77	2.4	217.92	217.37		217.39	0.081087		3.41	30.93	0

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview Creek	Upper	3080	15-Sep-78	1.4	217.92	217.32		217.34	0.094832		2.22	26.42	0
Eastview Creek	Upper	3080	29-Jul-86	1.3	217.92	217.32		217.34	0.096963		2.09	25.78	0
Eastview Creek	Upper	3080	10-Jun-89	1.4	217.92	217.32		217.34	0.094832		2.22	26.42	0
Eastview Creek	Upper	3080	18-May-90	1	217.92	217.3		217.32	0.099804		1.67	23.45	0
Eastview Creek	Upper	3080	27-Oct-91	0.5	217.92	217.27		217.28	0.124235		0.91	18.35	0
Eastview Creek	Upper	3074.643	25-Jul-77	2.4	217.76	217.08		217.1	0.040515		4.78	41.85	0
Eastview Creek	Upper	3074.643	15-Sep-78	1.4	217.76	217.04		217.05	0.036522		3.13	32.29	0
Eastview Creek	Upper	3074.643	29-Jul-86	1.3	217.76	217.03		217.04	0.035747		2.98	31.51	0
Eastview Creek	Upper	3074.643	10-Jun-89	1.4	217.76	217.04		217.05	0.036522		3.13	32.29	0
Eastview Creek	Upper	3074.643	18-May-90	1	217.76	217.02		217.03	0.03539		2.48	29.28	0
Eastview Creek	Upper	3074.643	27-Oct-91	0.5	217.76	216.98		216.99	0.030753		1.56	24.32	0
Eastview Creek	Upper	3068	25-Jul-77	2.4	217.79	216.7	216.68	216.73	0.096421		3.25	34.44	0
Eastview Creek	Upper	3068	15-Sep-78	1.4	217.79	216.67	216.65	216.69	0.108306		2.13	27.09	0
Eastview Creek	Upper	3068	29-Jul-86	1.3	217.79	216.66	216.65	216.68	0.113283		1.99	26.1	0
Eastview Creek	Upper	3068	10-Jun-89	1.4	217.79	216.67	216.65	216.69	0.108306		2.13	27.09	0
Eastview Creek	Upper	3068	18-May-90	1	217.79	216.65	216.63	216.67	0.11403		1.56	23.7	0
Eastview Creek	Upper	3068	27-Oct-91	0.5	217.79	216.61	216.6	216.63	0.152932		0.81	16.26	0
Eastview Creek	Upper	3057	25-Jul-77	2.4	217.09	216.14		216.15	0.032667		4.09	28.1	0
Eastview Creek	Upper	3057	15-Sep-78	1.4	217.09	216.08		216.1	0.032152		2.81	21.53	0
Eastview Creek	Upper	3057	29-Jul-86	1.3	217.09	216.08		216.09	0.031539		2.68	20.97	0
Eastview Creek	Upper	3057	10-Jun-89	1.4	217.09	216.08		216.1	0.032152		2.81	21.53	0
Eastview Creek	Upper	3057	18-May-90	1	217.09	216.06		216.07	0.031677		2.25	19.67	0
Eastview Creek	Upper	3057	27-Oct-91	0.5	217.09	216		216.01	0.028731		1.33	14.5	0
Eastview Creek	Upper	3046	25-Jul-77	2.4	217.08	215.81	215.74	215.82	0.026762		5.83	58.17	0
Eastview Creek	Upper	3046	15-Sep-78	1.4	217.08	215.77	215.71	215.77	0.02506		3.75	42.13	0
Eastview Creek	Upper	3046	29-Jul-86	1.3	217.08	215.76	215.7	215.77	0.024736		3.54	40.02	0
Eastview Creek	Upper	3046	10-Jun-89	1.4	217.08	215.77	215.71	215.77	0.02506		3.75	42.13	0
Eastview Creek	Upper	3046	18-May-90	1	217.08	215.74	215.69	215.75	0.024454		2.91	35.13	0
Eastview Creek	Upper	3046	27-Oct-91	0.5	217.08	215.71	215.66	215.71	0.023364		1.76	26.77	0
Eastview Creek	Upper	3036	25-Jul-77	2.4	216.85	215.5		215.52	0.035087		4.95	47.33	0
Eastview Creek	Upper	3036	15-Sep-78	1.4	216.85	215.45		215.47	0.038822		2.97	33.63	0
Eastview Creek	Upper	3036	29-Jul-86	1.3	216.85	215.45		215.46	0.040418		2.76	32.37	0
Eastview Creek	Upper	3036	10-Jun-89	1.4	216.85	215.45		215.47	0.038822		2.97	33.63	0
Eastview Creek	Upper	3036	18-May-90	1	216.85	215.43		215.44	0.040941		2.23	29.8	0
Eastview Creek	Upper	3036	27-Oct-91	0.5	216.85	215.39		215.4	0.044597		1.24	19.39	0
Eastview Creek	Upper	3021	25-Jul-77	2.4	216.75	215.19	215.09	215.2	0.013037		7.47	56.8	0
Eastview Creek	Upper	3021	15-Sep-78	1.4	216.75	215.14	215.06	215.14	0.012488		4.74	42.31	0
Eastview Creek	Upper	3021	29-Jul-86	1.3	216.75	215.13	215.05	215.14	0.012386		4.52	41.43	0
Eastview Creek	Upper	3021	10-Jun-89	1.4	216.75	215.14	215.06	215.14	0.012488		4.74	42.31	0
Eastview Creek	Upper	3021	18-May-90	1	216.75	215.12	215.04	215.12	0.012228		3.78	39.64	0
Eastview Creek	Upper	3021	27-Oct-91	0.5	216.75	215.07	215	215.08	0.011875		2.24	32.65	0
Eastview Creek	Upper	3009.138	25-Jul-77	2.4	216.65	214.78	214.78	214.82	0.183055		2.54	27.64	0
Eastview Creek	Upper	3009.138	15-Sep-78	1.4	216.65	214.74	214.74	214.78	0.197339		1.64	22.31	0
Eastview Creek	Upper	3009.138	29-Jul-86	1.3	216.65	214.74	214.74	214.77	0.201745		1.54	21.53	0
Eastview Creek	Upper	3009.138	10-Jun-89	1.4	216.65	214.74	214.74	214.78	0.197339		1.64	22.31	0
Eastview Creek	Upper	3009.138	18-May-90	1	216.65	214.72	214.72	214.75	0.20695		1.25	19.18	0
Eastview Creek	Upper	3009.138	27-Oct-91	0.5	216.65	214.69	214.69	214.72	0.230821		0.73	15.23	0
Eastview Creek	Upper	2957.83	25-Jul-77	2.4	215.77	214.65	214.51	214.65	0.000948		29.8	262.41	0
Eastview Creek	Upper	2957.83	15-Sep-78	1.4	215.77	214.61	214.49	214.61	0.000864		20.64	225.69	0
Eastview Creek	Upper	2957.83	29-Jul-86	1.3	215.77	214.61	214.49	214.61	0.000872		19.47	218.29	0
Eastview Creek	Upper	2957.83	10-Jun-89	1.4	215.77	214.61	214.49	214.61	0.000864		20.64	225.69	0
Eastview Creek	Upper	2957.83	18-May-90	1	215.77	214.6	214.48	214.6	0.000802		16.54	198.94	0
Eastview Creek	Upper	2957.83	27-Oct-91	0.5	215.77	214.56	214.46	214.56	0.000721		10.32	162.13	0
Eastview Creek	Upper	2927.809	25-Jul-77	2.4	215.27	214.61		214.61	0.001578		25.56	262.87	0
Eastview Creek	Upper	2927.809	15-Sep-78	1.4	215.27	214.57		214.57	0.001624		16.97	223.91	0
Eastview Creek	Upper	2927.809	29-Jul-86	1.3	215.27	214.57		214.57	0.001607		16	217.39	0
Eastview Creek	Upper	2927.809	10-Jun-89	1.4	215.27	214.57		214.57	0.001624		16.97	223.91	0
Eastview Creek	Upper	2927.809	18-May-90	1	215.27	214.55		214.55	0.001633		13	195.08	0
Eastview Creek	Upper	2927.809	27-Oct-91	0.5	215.27	214.52		214.52	0.00167		7.59	144.67	0

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview Creek	Upper	2900.87	25-Jul-77	2.4	214.88	214.5		214.5	0.00393		16.76	201.35	0
Eastview Creek	Upper	2900.87	15-Sep-78	1.4	214.88	214.47		214.47	0.003965		11.02	147.92	0
Eastview Creek	Upper	2900.87	29-Jul-86	1.3	214.88	214.46		214.46	0.004024		10.38	143.46	0
Eastview Creek	Upper	2900.87	10-Jun-89	1.4	214.88	214.47		214.47	0.003965		11.02	147.92	0
Eastview Creek	Upper	2900.87	18-May-90	1	214.88	214.45		214.45	0.003802		8.56	128.13	0
Eastview Creek	Upper	2900.87	27-Oct-91	0.5	214.88	214.42		214.42	0.003729		4.96	95.76	0
Eastview Creek	Upper	2849.897	25-Jul-77	2.4	214.75	214.38		214.38	0.00259		21.07	233.66	0
Eastview Creek	Upper	2849.897	15-Sep-78	1.4	214.75	214.35		214.35	0.002462		14.55	203.21	0
Eastview Creek	Upper	2849.897	29-Jul-86	1.3	214.75	214.34		214.34	0.002387		13.93	199.41	0
Eastview Creek	Upper	2849.897	10-Jun-89	1.4	214.75	214.35		214.35	0.002462		14.55	203.21	0
Eastview Creek	Upper	2849.897	18-May-90	1	214.75	214.33		214.33	0.00244		11.35	183.24	0
Eastview Creek	Upper	2849.897	27-Oct-91	0.5	214.75	214.3		214.3	0.00235		6.72	139.51	0
Eastview Creek	Upper	2651.094	25-Jul-77	2.4	214.16	214.23	214.17	214.23	0.012261	0.34	10.9	161.62	0.49
Eastview Creek	Upper	2651.094	15-Sep-78	1.4	214.16	214.2		214.2	0.012838	0.24	6.92	125.89	0.46
Eastview Creek	Upper	2651.094	29-Jul-86	1.3	214.16	214.2		214.2	0.012899	0.22	6.5	120.91	0.45
Eastview Creek	Upper	2651.094	10-Jun-89	1.4	214.16	214.2		214.2	0.012838	0.24	6.92	125.89	0.46
Eastview Creek	Upper	2651.094	18-May-90	1	214.16	214.18		214.19	0.01296	0.15	5.19	104.21	0.42
Eastview Creek	Upper	2651.094	27-Oct-91	0.5	214.16	214.15		214.16	0.014674		2.71	64.83	0
Eastview Creek	Upper	2605.043	25-Jul-77	2.4	214.14	213.78		213.79	0.017766		4.6	22.03	0
Eastview Creek	Upper	2605.043	15-Sep-78	1.4	214.14	213.69		213.7	0.022931		2.84	16.98	0
Eastview Creek	Upper	2605.043	29-Jul-86	1.3	214.14	213.68		213.69	0.023577		2.68	16.64	0
Eastview Creek	Upper	2605.043	10-Jun-89	1.4	214.14	213.69		213.7	0.022931		2.84	16.98	0
Eastview Creek	Upper	2605.043	18-May-90	1	214.14	213.64		213.66	0.025591		2.17	15.41	0
Eastview Creek	Upper	2605.043	27-Oct-91	0.5	214.14	213.59		213.59	0.025209		1.33	12.8	0
Eastview Creek	Upper	2581	25-Jul-77	2.4	213.18	213.6		213.61	0.004058	0.73	7.3	30.85	0.4
Eastview Creek	Upper	2581	15-Sep-78	1.4	213.18	213.52		213.53	0.003373	0.58	5.2	24.13	0.35
Eastview Creek	Upper	2581	29-Jul-86	1.3	213.18	213.51		213.52	0.003367	0.57	4.93	23.74	0.35
Eastview Creek	Upper	2581	10-Jun-89	1.4	213.18	213.52		213.53	0.003373	0.58	5.2	24.13	0.35
Eastview Creek	Upper	2581	18-May-90	1	213.18	213.47		213.48	0.00339	0.53	4.08	22.45	0.35
Eastview Creek	Upper	2581	27-Oct-91	0.5	213.18	213.38		213.39	0.004251	0.46	2.27	17.14	0.36
Eastview Creek	Upper	2552.909	25-Jul-77	2.4	213.13	213.45		213.46	0.006845	0.72	7.13	47.57	0.49
Eastview Creek	Upper	2552.909	15-Sep-78	1.4	213.13	213.41		213.41	0.005144	0.53	5.12	35.97	0.41
Eastview Creek	Upper	2552.909	29-Jul-86	1.3	213.13	213.4		213.4	0.004876	0.5	4.81	33.12	0.39
Eastview Creek	Upper	2552.909	10-Jun-89	1.4	213.13	213.41		213.41	0.005144	0.53	5.12	35.97	0.41
Eastview Creek	Upper	2552.909	18-May-90	1	213.13	213.37		213.37	0.004098	0.44	4.02	27.37	0.36
Eastview Creek	Upper	2552.909	27-Oct-91	0.5	213.13	213.29		213.3	0.002607	0.3	2.52	14.91	0.28
Eastview Creek	Upper	2461.396	25-Jul-77	2.4	212.88	213.15		213.16	0.003773	0.5	13.08	122.87	0.36
Eastview Creek	Upper	2461.396	15-Sep-78	1.4	212.88	213.11		213.11	0.004488	0.47	7.91	94.9	0.38
Eastview Creek	Upper	2461.396	29-Jul-86	1.3	212.88	213.1		213.1	0.004582	0.46	7.4	91.69	0.38
Eastview Creek	Upper	2461.396	10-Jun-89	1.4	212.88	213.11		213.11	0.004488	0.47	7.91	94.9	0.38
Eastview Creek	Upper	2461.396	18-May-90	1	212.88	213.08	213.03	213.09	0.004929	0.44	5.77	82.65	0.39
Eastview Creek	Upper	2461.396	27-Oct-91	0.5	212.88	213.04		213.05	0.006074	0.4	2.97	57.26	0.41
Eastview Creek	Upper	2297.958	25-Jul-77	2.4	212.48	212.74		212.74	0.004256	0.58	11.38	80.11	0.39
Eastview Creek	Upper	2297.958	15-Sep-78	1.4	212.48	212.7		212.7	0.003335	0.44	8.27	68.18	0.33
Eastview Creek	Upper	2297.958	29-Jul-86	1.3	212.48	212.69		212.69	0.003296	0.43	7.85	66.66	0.33
Eastview Creek	Upper	2297.958	10-Jun-89	1.4	212.48	212.7		212.7	0.003335	0.44	8.27	68.18	0.33
Eastview Creek	Upper	2297.958	18-May-90	1	212.48	212.67		212.67	0.003074	0.38	6.61	62.21	0.31
Eastview Creek	Upper	2297.958	27-Oct-91	0.5	212.48	212.63		212.63	0.002569	0.28	4.07	49.7	0.27
Eastview Creek	Upper	2219.658	25-Jul-77	2.4	212.21	212.43		212.43	0.004874	0.48	10.28	61.53	0.39
Eastview Creek	Upper	2219.658	15-Sep-78	1.4	212.21	212.36		212.36	0.008135	0.45	5.94	53.31	0.46
Eastview Creek	Upper	2219.658	29-Jul-86	1.3	212.21	212.35		212.35	0.008284	0.44	5.57	51.92	0.46
Eastview Creek	Upper	2219.658	10-Jun-89	1.4	212.21	212.36		212.36	0.008135	0.45	5.94	53.31	0.46
Eastview Creek	Upper	2219.658	18-May-90	1	212.21	212.32		212.33	0.009803	0.42	4.25	46.33	0.49
Eastview Creek	Upper	2219.658	27-Oct-91	0.5	212.21	212.26		212.27	0.016097	0.36	1.96	29.43	0.57
Eastview Creek	Upper	2070.13	25-Jul-77	2.4	211.63	212.03		212.03	0.002002	0.54	10.57	41.28	0.29
Eastview Creek	Upper	2070.13	15-Sep-78	1.4	211.63	211.96		211.96	0.001526	0.41	7.97	36.22	0.25
Eastview Creek	Upper	2070.13	29-Jul-86	1.3	211.63	211.95		211.95	0.001525	0.4	7.58	35.71	0.24
Eastview Creek	Upper	2070.13	10-Jun-89	1.4	211.63	211.96		211.96	0.001526	0.41	7.97	36.22	0.25

River	Reach	River Sta	Profile	Q Total	Min Chl El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview Creek	Upper	2070.13	18-May-90	1	211.63	211.92		211.92	0.00147	0.36	6.36	34.09	0.23
Eastview Creek	Upper	2070.13	27-Oct-91	0.5	211.63	211.84		211.84	0.001312	0.26	3.9	27.32	0.21
Eastview Creek	Upper	1950.924	25-Jul-77	2.4	211.16	211.54		211.57	0.014191	1.05	4.56	37.3	0.7
Eastview Creek	Upper	1950.924	15-Sep-78	1.4	211.16	211.45	211.45	211.51	0.03182	1.2	1.98	23.99	0.98
Eastview Creek	Upper	1950.924	29-Jul-86	1.3	211.16	211.45	211.45	211.5	0.030125	1.15	1.89	23.22	0.95
Eastview Creek	Upper	1950.924	10-Jun-89	1.4	211.16	211.45	211.45	211.51	0.03182	1.2	1.98	23.99	0.98
Eastview Creek	Upper	1950.924	18-May-90	1	211.16	211.43	211.43	211.48	0.030266	1.06	1.48	19.72	0.93
Eastview Creek	Upper	1950.924	27-Oct-91	0.5	211.16	211.38	211.38	211.42	0.037887	0.92	0.71	11.93	0.98
Eastview Creek	Upper	1868.878	25-Jul-77	2.4	210.68	211.52		211.52	0.000146	0.23	28.12	67.27	0.09
Eastview Creek	Upper	1868.878	15-Sep-78	1.4	210.68	211.31	211.02	211.31	0.00032	0.26	14.2	60.31	0.12
Eastview Creek	Upper	1868.878	29-Jul-86	1.3	210.68	211.29	211	211.29	0.000351	0.27	12.92	58.7	0.13
Eastview Creek	Upper	1868.878	10-Jun-89	1.4	210.68	211.31	211.02	211.31	0.00032	0.26	14.2	60.31	0.12
Eastview Creek	Upper	1868.878	18-May-90	1	210.68	211.22	210.97	211.22	0.000479	0.28	9.3	50.51	0.14
Eastview Creek	Upper	1868.878	27-Oct-91	0.5	210.68	211.1	210.89	211.11	0.000873	0.3	3.77	39.28	0.18
Eastview Creek	Upper	1780.61	25-Jul-77	2.4	210.6	211.5		211.5	0.000311	0.3	15.88	53.68	0.12
Eastview Creek	Upper	1780.61	15-Sep-78	1.4	210.6	211.26		211.27	0.000894	0.36	5.82	28.23	0.19
Eastview Creek	Upper	1780.61	29-Jul-86	1.3	210.6	211.23		211.24	0.001043	0.37	5.1	25.7	0.2
Eastview Creek	Upper	1780.61	10-Jun-89	1.4	210.6	211.26		211.27	0.000894	0.36	5.82	28.23	0.19
Eastview Creek	Upper	1780.61	18-May-90	1	210.6	211.15		211.16	0.001505	0.41	3.23	19.14	0.24
Eastview Creek	Upper	1780.61	27-Oct-91	0.5	210.6	210.99		211	0.00229	0.42	1.24	8.13	0.28
Eastview Creek	Upper	1779.016	25-Jul-77	2.4	210.54	211.22	211.22	211.48	0.021244	2.24	1.07	19.34	1
Eastview Creek	Upper	1779.016	15-Sep-78	1.4	210.54	211.07	211.07	211.24	0.023905	1.87	0.75	10.08	1
Eastview Creek	Upper	1779.016	29-Jul-86	1.3	210.54	211.05	211.05	211.22	0.024267	1.83	0.71	7.75	1
Eastview Creek	Upper	1779.016	10-Jun-89	1.4	210.54	211.07	211.07	211.24	0.023905	1.87	0.75	10.08	1
Eastview Creek	Upper	1779.016	18-May-90	1	210.54	210.99	210.99	211.14	0.025947	1.68	0.6	5.02	1
Eastview Creek	Upper	1779.016	27-Oct-91	0.5	210.54	210.89	210.89	210.98	0.029673	1.32	0.38	4.43	1
Eastview Creek	Upper	1528.804		Culvert									
Eastview Creek	Upper	1278.494	25-Jul-77	2.4	208.68	209.62	209.24	209.7	0.003214	1.27	1.88	7.88	0.43
Eastview Creek	Upper	1278.494	15-Sep-78	1.4	208.68	209.7	209.08	209.72	0.000836	0.69	2.04	8.16	0.22
Eastview Creek	Upper	1278.494	29-Jul-86	1.3	208.68	209.67	209.07	209.69	0.000785	0.65	1.99	8.05	0.21
Eastview Creek	Upper	1278.494	10-Jun-89	1.4	208.68	209.7	209.08	209.72	0.000836	0.69	2.04	8.16	0.22
Eastview Creek	Upper	1278.494	18-May-90	1	208.68	209.6	209.01	209.61	0.000613	0.55	1.83	7.78	0.19
Eastview Creek	Upper	1278.494	27-Oct-91	0.5	208.68	209.42	208.9	209.43	0.00032	0.34	1.47	7.17	0.13
Eastview Creek	Upper	1273.532	25-Jul-77	2.4	208.21	209.67		209.68	0.000162	0.28	8.61	9.37	0.09
Eastview Creek	Upper	1273.532	15-Sep-78	1.4	208.21	209.71		209.71	0.00005	0.16	8.96	9.58	0.05
Eastview Creek	Upper	1273.532	29-Jul-86	1.3	208.21	209.68		209.69	0.000046	0.15	8.72	9.43	0.05
Eastview Creek	Upper	1273.532	10-Jun-89	1.4	208.21	209.71		209.71	0.00005	0.16	8.96	9.58	0.05
Eastview Creek	Upper	1273.532	18-May-90	1	208.21	209.6		209.61	0.000034	0.13	7.98	9.03	0.04
Eastview Creek	Upper	1273.532	27-Oct-91	0.5	208.21	209.43		209.43	0.000015	0.08	6.45	8.17	0.03
Eastview Creek	Upper	1220.065	25-Jul-77	2.4	208.02	209.67		209.67	0.000045	0.2	17.83	26.95	0.05
Eastview Creek	Upper	1220.065	15-Sep-78	1.4	208.02	209.71		209.71	0.000014	0.11	18.94	28.97	0.03
Eastview Creek	Upper	1220.065	29-Jul-86	1.3	208.02	209.68		209.68	0.000013	0.11	18.19	27.71	0.03
Eastview Creek	Upper	1220.065	10-Jun-89	1.4	208.02	209.71		209.71	0.000014	0.11	18.94	28.97	0.03
Eastview Creek	Upper	1220.065	18-May-90	1	208.02	209.6		209.6	0.000009	0.09	16.15	23.91	0.02
Eastview Creek	Upper	1220.065	27-Oct-91	0.5	208.02	209.43		209.43	0.000004	0.05	12.26	20.15	0.02
Eastview Creek	Upper	1152.543	25-Jul-77	2.4	207.82	209.67		209.67	0.000013	0.12	35.71	36.77	0.03
Eastview Creek	Upper	1152.543	15-Sep-78	1.4	207.82	209.71		209.71	0.000004	0.07	37.18	37.17	0.02
Eastview Creek	Upper	1152.543	29-Jul-86	1.3	207.82	209.68		209.68	0.000004	0.07	36.22	36.94	0.02
Eastview Creek	Upper	1152.543	10-Jun-89	1.4	207.82	209.71		209.71	0.000004	0.07	37.18	37.17	0.02
Eastview Creek	Upper	1152.543	18-May-90	1	207.82	209.6		209.6	0.000003	0.05	33.33	35.85	0.01
Eastview Creek	Upper	1152.543	27-Oct-91	0.5	207.82	209.43		209.43	0.000001	0.03	27.14	34.16	0.01
Eastview Creek	Upper	1068.805	25-Jul-77	2.4	207.68	209.67		209.67	0.000021	0.14	26.38	51.32	0.04
Eastview Creek	Upper	1068.805	15-Sep-78	1.4	207.68	209.71		209.71	0.000006	0.08	28.6	57.23	0.02
Eastview Creek	Upper	1068.805	29-Jul-86	1.3	207.68	209.68		209.68	0.000006	0.07	27.17	53.28	0.02
Eastview Creek	Upper	1068.805	10-Jun-89	1.4	207.68	209.71		209.71	0.000006	0.08	28.6	57.23	0.02
Eastview Creek	Upper	1068.805	18-May-90	1	207.68	209.6		209.6	0.000004	0.06	23.33	43.67	0.02
Eastview Creek	Upper	1068.805	27-Oct-91	0.5	207.68	209.43		209.43	0.000002	0.04	16.98	29.27	0.01

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview Creek	Upper	1067.513	25-Jul-77	2.4	207.69	209.67	208.24	209.67	0.000035	0.21	22.91	51.52	0.05
Eastview Creek	Upper	1067.513	15-Sep-78	1.4	207.69	209.71	208.08	209.71	0.000011	0.12	25.18	59.17	0.03
Eastview Creek	Upper	1067.513	29-Jul-86	1.3	207.69	209.68	208.06	209.68	0.00001	0.11	23.73	52.98	0.03
Eastview Creek	Upper	1067.513	10-Jun-89	1.4	207.69	209.71	208.08	209.71	0.000011	0.12	25.18	59.17	0.03
Eastview Creek	Upper	1067.513	18-May-90	1	207.69	209.6	208.01	209.6	0.000051	0.26	3.78	42.37	0.06
Eastview Creek	Upper	1067.513	27-Oct-91	0.5	207.69	209.42	207.9	209.43	0.000018	0.15	3.43	22.86	0.04
Eastview Creek	Upper	1058.651		Culvert									
Eastview Creek	Upper	1049.151	25-Jul-77	2.4	208.97	209.63	209.63	209.63	0.000448	0.32	17.68	57.7	0.14
Eastview Creek	Upper	1049.151	15-Sep-78	1.4	208.97	209.53	209.53	209.71	0.024958	1.89	0.74	38.55	0.99
Eastview Creek	Upper	1049.151	29-Jul-86	1.3	208.97	209.51	209.51	209.68	0.025971	1.86	0.7	35.16	1
Eastview Creek	Upper	1049.151	10-Jun-89	1.4	208.97	209.53	209.53	209.71	0.024958	1.89	0.74	38.55	0.99
Eastview Creek	Upper	1049.151	18-May-90	1	208.97	209.45	209.45	209.6	0.027108	1.7	0.59	30.26	1
Eastview Creek	Upper	1049.151	27-Oct-91	0.5	208.97	209.34	209.34	209.43	0.031615	1.35	0.37	25.96	1
Eastview Creek	Upper	1046.922	25-Jul-77	2.4	207.55	207.89	208.18	209.47	0.64833	5.58	0.43	2.42	4.22
Eastview Creek	Upper	1046.922	15-Sep-78	1.4	207.55	207.8	208.03	209.4	0.989797	5.6	0.25	1.94	4.98
Eastview Creek	Upper	1046.922	29-Jul-86	1.3	207.55	207.79	208.02	209.37	1.028284	5.56	0.23	1.89	5.05
Eastview Creek	Upper	1046.922	10-Jun-89	1.4	207.55	207.8	208.03	209.4	0.989797	5.6	0.25	1.94	4.98
Eastview Creek	Upper	1046.922	18-May-90	1	207.55	207.77	207.97	209.28	1.2011	5.44	0.18	1.73	5.34
Eastview Creek	Upper	1046.922	27-Oct-91	0.5	207.55	207.71	207.87	209.09	1.86236	5.19	0.1	1.38	6.27
Eastview Creek	Upper	978.1509	25-Jul-77	2.4	207.32	208.29	207.63	208.29	0.000246	0.29	8.21	12.29	0.11
Eastview Creek	Upper	978.1509	15-Sep-78	1.4	207.32	208.06	207.56	208.06	0.000262	0.25	5.58	10.62	0.11
Eastview Creek	Upper	978.1509	29-Jul-86	1.3	207.32	208.03	207.55	208.03	0.000264	0.25	5.3	10.5	0.11
Eastview Creek	Upper	978.1509	10-Jun-89	1.4	207.32	208.06	207.56	208.06	0.000262	0.25	5.58	10.62	0.11
Eastview Creek	Upper	978.1509	18-May-90	1	207.32	207.94	207.53	207.94	0.00027	0.23	4.4	10.04	0.11
Eastview Creek	Upper	978.1509	27-Oct-91	0.5	207.32	207.77	207.48	207.77	0.000259	0.18	2.79	8.82	0.1
Eastview Creek	Upper	932.8052	25-Jul-77	2.4	207.3	208.2		208.26	0.005552	1.19	2.95	8.21	0.47
Eastview Creek	Upper	932.8052	15-Sep-78	1.4	207.3	207.92		208.01	0.013887	1.37	1.15	4.32	0.69
Eastview Creek	Upper	932.8052	29-Jul-86	1.3	207.3	207.89	207.8	207.99	0.015284	1.39	1.02	3.93	0.71
Eastview Creek	Upper	932.8052	10-Jun-89	1.4	207.3	207.92		208.01	0.013887	1.37	1.15	4.32	0.69
Eastview Creek	Upper	932.8052	18-May-90	1	207.3	207.79	207.74	207.9	0.019964	1.43	0.7	2.66	0.8
Eastview Creek	Upper	932.8052	27-Oct-91	0.5	207.3	207.62	207.62	207.72	0.035884	1.39	0.36	1.89	1.01
Eastview Creek	Upper	931.6569	25-Jul-77	2.4	207.14	207.95	207.95	208.22	0.04232	2.3	1.05	2.14	1
Eastview Creek	Upper	931.6569	15-Sep-78	1.4	207.14	207.78	207.78	207.98	0.045587	1.96	0.71	1.92	1
Eastview Creek	Upper	931.6569	29-Jul-86	1.3	207.14	207.76	207.76	207.95	0.045668	1.93	0.67	1.86	1
Eastview Creek	Upper	931.6569	10-Jun-89	1.4	207.14	207.78	207.78	207.98	0.045587	1.96	0.71	1.92	1
Eastview Creek	Upper	931.6569	18-May-90	1	207.14	207.68	207.68	207.85	0.048726	1.84	0.54	1.68	1.01
Eastview Creek	Upper	931.6569	27-Oct-91	0.5	207.14	207.5	207.53	207.66	0.072596	1.78	0.28	1.24	1.19
Eastview Creek	Upper	921.6902		Culvert									
Eastview Creek	Upper	911.8402	25-Jul-77	2.4	206.8	207.46	207.46	207.72	0.022998	2.29	1.05	4.37	1
Eastview Creek	Upper	911.8402	15-Sep-78	1.4	206.8	207.29	207.29	207.48	0.026135	1.92	0.73	3.68	1
Eastview Creek	Upper	911.8402	29-Jul-86	1.3	206.8	207.28	207.28	207.45	0.02629	1.87	0.69	3.6	1
Eastview Creek	Upper	911.8402	10-Jun-89	1.4	206.8	207.29	207.29	207.48	0.026135	1.92	0.73	3.68	1
Eastview Creek	Upper	911.8402	18-May-90	1	206.8	207.21	207.21	207.37	0.027605	1.75	0.57	3.35	1
Eastview Creek	Upper	911.8402	27-Oct-91	0.5	206.8	207.08	207.08	207.19	0.030753	1.43	0.35	2.28	1
Eastview Creek	Upper	908.3951	25-Jul-77	2.4	206.66	206.99	207.14	207.53	0.158778	3.27	0.73	3.64	2.32
Eastview Creek	Upper	908.3951	15-Sep-78	1.4	206.66	207.21	207.04	207.25	0.005174	0.84	1.66	4.78	0.46
Eastview Creek	Upper	908.3951	29-Jul-86	1.3	206.66	207.19	207.02	207.22	0.005402	0.84	1.55	4.66	0.46
Eastview Creek	Upper	908.3951	10-Jun-89	1.4	206.66	207.21	207.04	207.25	0.005174	0.84	1.66	4.78	0.46
Eastview Creek	Upper	908.3951	18-May-90	1	206.66	207.12	206.98	207.15	0.005747	0.79	1.26	4.31	0.47
Eastview Creek	Upper	908.3951	27-Oct-91	0.5	206.66	207	206.9	207.02	0.005591	0.63	0.79	3.71	0.44
Eastview Creek	Upper	828.0273	25-Jul-77	2.4	206.43	206.96	206.75	207	0.004063	0.84	2.85	6.87	0.42
Eastview Creek	Upper	828.0273	15-Sep-78	1.4	206.43	206.81		206.84	0.004845	0.75	1.87	6.14	0.43
Eastview Creek	Upper	828.0273	29-Jul-86	1.3	206.43	206.81		206.84	0.004162	0.7	1.87	6.14	0.4
Eastview Creek	Upper	828.0273	10-Jun-89	1.4	206.43	206.81		206.84	0.004845	0.75	1.87	6.14	0.43
Eastview Creek	Upper	828.0273	18-May-90	1	206.43	206.78		206.8	0.003419	0.6	1.67	5.93	0.36
Eastview Creek	Upper	828.0273	27-Oct-91	0.5	206.43	206.68		206.69	0.003217	0.46	1.08	5.45	0.33
Eastview Creek	Upper	719.6296	25-Jul-77	2.4	205.99	206.96		206.96	0.000052	0.13	46.25	108.3	0.05

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview Creek	Upper	719.6296	15-Sep-78	1.4	205.99	206.59		206.59	0.001085	0.41	7.77	72.1	0.21
Eastview Creek	Upper	719.6296	29-Jul-86	1.3	205.99	206.56		206.57	0.001448	0.45	5.71	61.74	0.24
Eastview Creek	Upper	719.6296	10-Jun-89	1.4	205.99	206.59		206.59	0.001085	0.41	7.77	72.1	0.21
Eastview Creek	Upper	719.6296	18-May-90	1	205.99	206.46		206.48	0.002448	0.53	2.55	21.33	0.31
Eastview Creek	Upper	719.6296	27-Oct-91	0.5	205.99	206.29		206.3	0.003845	0.54	0.92	4.05	0.37
Eastview Creek	Upper	717.2271	25-Jul-77	2.4	205.93	206.83	206.54	206.95	0.005093	1.54	1.55	105.14	0.54
Eastview Creek	Upper	717.2271	15-Sep-78	1.4	205.93	206.37	206.37	206.57	0.023239	1.96	0.71	3.73	1
Eastview Creek	Upper	717.2271	29-Jul-86	1.3	205.93	206.35	206.35	206.54	0.023253	1.91	0.68	3.68	1
Eastview Creek	Upper	717.2271	10-Jun-89	1.4	205.93	206.37	206.37	206.57	0.023239	1.96	0.71	3.73	1
Eastview Creek	Upper	717.2271	18-May-90	1	205.93	206.29	206.29	206.45	0.02463	1.75	0.57	3.48	1
Eastview Creek	Upper	717.2271	27-Oct-91	0.5	205.93	206.18	206.18	206.28	0.028447	1.38	0.36	2.98	0.99
Eastview Creek	Upper	686.5256		Culvert									
Eastview Creek	Upper	660.0256	25-Jul-77	2.4	205.08	205.69	205.69	205.97	0.020693	2.34	1.02	4.51	1
Eastview Creek	Upper	660.0256	15-Sep-78	1.4	205.08	205.52	205.52	205.71	0.023316	1.96	0.72	2.92	1
Eastview Creek	Upper	660.0256	29-Jul-86	1.3	205.08	205.5	205.5	205.69	0.023271	1.9	0.68	2.87	0.99
Eastview Creek	Upper	660.0256	10-Jun-89	1.4	205.08	205.52	205.52	205.71	0.023316	1.96	0.72	2.92	1
Eastview Creek	Upper	660.0256	18-May-90	1	205.08	205.44	205.44	205.6	0.024788	1.74	0.57	2.68	0.99
Eastview Creek	Upper	660.0256	27-Oct-91	0.5	205.08	205.32	205.32	205.42	0.029839	1.4	0.36	2.32	1.01
Eastview Creek	Upper	656.5312	25-Jul-77	2.4	204.94	205.25	205.41	205.75	0.12969	3.35	0.94	3.6	2.14
Eastview Creek	Upper	656.5312	15-Sep-78	1.4	204.94	205.17	205.27	205.5	0.142767	2.81	0.66	2.94	2.13
Eastview Creek	Upper	656.5312	29-Jul-86	1.3	204.94	205.16	205.25	205.48	0.144302	2.75	0.63	2.9	2.13
Eastview Creek	Upper	656.5312	10-Jun-89	1.4	204.94	205.17	205.27	205.5	0.142767	2.81	0.66	2.94	2.13
Eastview Creek	Upper	656.5312	18-May-90	1	204.94	205.12	205.2	205.38	0.151269	2.53	0.53	2.76	2.13
Eastview Creek	Upper	656.5312	27-Oct-91	0.5	204.94	205.26	205.09	205.28	0.005579	0.7	0.94	3.61	0.44
Eastview Creek	Upper	538.0533	25-Jul-77	2.4	203.63	204.54	204.08	204.56	0.001386	0.59	4.05	6.72	0.24
Eastview Creek	Upper	538.0533	15-Sep-78	1.4	203.63	204.32	203.99	204.33	0.001528	0.53	2.66	5.76	0.25
Eastview Creek	Upper	538.0533	29-Jul-86	1.3	203.63	204.47	203.98	204.47	0.00059	0.36	3.57	6.55	0.16
Eastview Creek	Upper	538.0533	10-Jun-89	1.4	203.63	204.17	203.99	204.2	0.004143	0.75	1.86	5.06	0.39
Eastview Creek	Upper	538.0533	18-May-90	1	203.63	204.25	203.93	204.26	0.001161	0.44	2.27	5.23	0.21
Eastview Creek	Upper	538.0533	27-Oct-91	0.5	203.63	203.85	203.85	203.92	0.036075	1.16	0.43	3.2	1.01
Eastview Creek	Upper	419.4579	25-Jul-77	2.4	202.93	204.53		204.53	0.000067	0.22	27.03	50.18	0.06
Eastview Creek	Upper	419.4579	15-Sep-78	1.4	202.93	204.31		204.31	0.000067	0.2	16.34	46.77	0.06
Eastview Creek	Upper	419.4579	29-Jul-86	1.3	202.93	204.46		204.46	0.000027	0.14	23.76	49.17	0.04
Eastview Creek	Upper	419.4579	10-Jun-89	1.4	202.93	204.14		204.14	0.000152	0.26	10.07	27.03	0.09
Eastview Creek	Upper	419.4579	18-May-90	1	202.93	204.24		204.24	0.000046	0.16	13.44	38.64	0.05
Eastview Creek	Upper	419.4579	27-Oct-91	0.5	202.93	203.79	203.25	203.79	0.000132	0.18	4.11	11.14	0.08
Eastview Creek	Lower	405.6813	25-Jul-77	5.4	203.09	204.52		204.53	0.000236	0.43	21.07	60.63	0.12
Eastview Creek	Lower	405.6813	15-Sep-78	4.5	203.09	204.3		204.31	0.000358	0.47	14.53	23.79	0.15
Eastview Creek	Lower	405.6813	29-Jul-86	5.5	203.09	204.45		204.46	0.000308	0.47	18.4	26.16	0.14
Eastview Creek	Lower	405.6813	10-Jun-89	3.6	203.09	204.13		204.14	0.000461	0.47	10.73	20.98	0.16
Eastview Creek	Lower	405.6813	18-May-90	4.4	203.09	204.23		204.24	0.00045	0.5	12.91	22.57	0.16
Eastview Creek	Lower	405.6813	27-Oct-91	2	203.09	203.77		203.78	0.00098	0.48	4.46	11.46	0.21
Eastview Creek	Lower	325.3824	25-Jul-77	5.4	202.97	204.51		204.51	0.000165	0.37	54.97	131.38	0.1
Eastview Creek	Lower	325.3824	15-Sep-78	4.5	202.97	204.27		204.27	0.000446	0.53	27.15	74.71	0.16
Eastview Creek	Lower	325.3824	29-Jul-86	5.5	202.97	204.43		204.44	0.000279	0.46	45.08	128.03	0.13
Eastview Creek	Lower	325.3824	10-Jun-89	3.6	202.97	204.09		204.09	0.000598	0.54	16.36	44.42	0.18
Eastview Creek	Lower	325.3824	18-May-90	4.4	202.97	204.18		204.19	0.000694	0.63	21.38	63.88	0.2
Eastview Creek	Lower	325.3824	27-Oct-91	2	202.97	203.65		203.66	0.002676	0.76	5.49	17.24	0.34
Eastview Creek	Lower	192.1866	25-Jul-77	5.4	202.78	204.5		204.5	0.000013	0.12	127.33	144.13	0.03
Eastview Creek	Lower	192.1866	15-Sep-78	4.5	202.78	204.26		204.26	0.000023	0.14	92.59	141.55	0.04
Eastview Creek	Lower	192.1866	29-Jul-86	5.5	202.78	204.43		204.43	0.000018	0.13	116.17	143.41	0.03
Eastview Creek	Lower	192.1866	10-Jun-89	3.6	202.78	204.08		204.08	0.000036	0.16	66.56	139.55	0.05
Eastview Creek	Lower	192.1866	18-May-90	4.4	202.78	204.17		204.18	0.000032	0.16	80.49	140.67	0.04
Eastview Creek	Lower	192.1866	27-Oct-91	2	202.78	203.56		203.56	0.000278	0.29	11.55	46.12	0.12
Eastview Creek	Lower	188.9599	25-Jul-77	5.4	202.73	204.39	203.59	204.49	0.001881	1.43	3.78	131.49	0.36
Eastview Creek	Lower	188.9599	15-Sep-78	4.5	202.73	204.15	203.5	204.25	0.002226	1.4	3.22	129.09	0.38
Eastview Creek	Lower	188.9599	29-Jul-86	5.5	202.73	204.29	203.6	204.41	0.002404	1.55	3.55	130.58	0.4
Eastview Creek	Lower	188.9599	10-Jun-89	3.6	202.73	203.98	203.4	204.07	0.002193	1.27	2.83	123.46	0.37

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview Creek	Lower	188.9599	18-May-90	4.4	202.73	204.05	203.49	204.16	0.002722	1.47	2.99	125.36	0.42
Eastview Creek	Lower	188.9599	27-Oct-91	2	202.73	203.47	203.2	203.55	0.004232	1.22	1.63	31.02	0.47
Eastview Creek	Lower	163.2274		Culvert									
Eastview Creek	Lower	134.4274	25-Jul-77	5.4	202.63	204.17	203.48	204.29	0.002304	1.52	3.54	185.05	0.4
Eastview Creek	Lower	134.4274	15-Sep-78	4.5	202.63	204.03	203.38	204.13	0.002233	1.4	3.21	141.8	0.38
Eastview Creek	Lower	134.4274	29-Jul-86	5.5	202.63	204.08	203.49	204.22	0.002945	1.65	3.33	155.12	0.44
Eastview Creek	Lower	134.4274	10-Jun-89	3.6	202.63	203.92	203.28	203.99	0.001878	1.22	2.95	116.84	0.35
Eastview Creek	Lower	134.4274	18-May-90	4.4	202.63	203.95	203.37	204.05	0.002608	1.46	3.02	120.81	0.41
Eastview Creek	Lower	134.4274	27-Oct-91	2	202.63	203.46	203.08	203.52	0.002608	1.06	1.88	69.83	0.38
Eastview Creek	Lower	132.141	25-Jul-77	5.4	202.66	204.23		204.23	0.000015	0.12	135.97	201.91	0.03
Eastview Creek	Lower	132.141	15-Sep-78	4.5	202.66	204.08		204.08	0.000019	0.12	106.65	177.71	0.03
Eastview Creek	Lower	132.141	29-Jul-86	5.5	202.66	204.15		204.15	0.000021	0.13	119.99	193.23	0.04
Eastview Creek	Lower	132.141	10-Jun-89	3.6	202.66	203.96		203.96	0.000019	0.11	87.13	150.27	0.03
Eastview Creek	Lower	132.141	18-May-90	4.4	202.66	204		204	0.000024	0.13	93.93	157.86	0.04
Eastview Creek	Lower	132.141	27-Oct-91	2	202.66	203.49		203.49	0.000071	0.15	34.57	88.88	0.06
Eastview Creek	Lower	47.1762	25-Jul-77	5.4	202.62	204.22		204.22	0.000321	0.44	28.61	81.81	0.13
Eastview Creek	Lower	47.1762	15-Sep-78	4.5	202.62	204.06		204.07	0.000542	0.52	16.77	67.25	0.17
Eastview Creek	Lower	47.1762	29-Jul-86	5.5	202.62	204.13		204.14	0.00054	0.55	21.76	73.53	0.17
Eastview Creek	Lower	47.1762	10-Jun-89	3.6	202.62	203.93		203.95	0.000661	0.53	10.15	37.79	0.18
Eastview Creek	Lower	47.1762	18-May-90	4.4	202.62	203.97		203.99	0.00082	0.61	11.74	46.98	0.2
Eastview Creek	Lower	47.1762	27-Oct-91	2	202.62	203.44		203.46	0.001836	0.65	3.07	5.69	0.28
Eastview Creek	Lower	45.008	25-Jul-77	5.4	202.74	204.22	203.4	204.22	0.000303	0.44	31.09	88.07	0.13
Eastview Creek	Lower	45.008	15-Sep-78	4.5	202.74	204.06	203.34	204.07	0.00054	0.53	17.83	75.15	0.17
Eastview Creek	Lower	45.008	29-Jul-86	5.5	202.74	204.13	203.41	204.14	0.000527	0.55	23.48	82.52	0.17
Eastview Creek	Lower	45.008	10-Jun-89	3.6	202.74	203.93	203.28	203.95	0.000833	0.61	5.94	47.82	0.21
Eastview Creek	Lower	45.008	18-May-90	4.4	202.74	203.96	203.34	203.99	0.001093	0.71	6.18	61.01	0.24
Eastview Creek	Lower	45.008	27-Oct-91	2	202.74	203.43	203.14	203.46	0.00266	0.74	2.72	5.71	0.34
Eastview Creek	Lower	42.5458		Bridge									
Eastview Creek	Lower	39.7458	25-Jul-77	5.4	202.48	204.21	203.16	204.22	0.000145	0.33	46.6	123.21	0.09
Eastview Creek	Lower	39.7458	15-Sep-78	4.5	202.48	204.05	203.1	204.06	0.000252	0.39	28.21	106.2	0.12
Eastview Creek	Lower	39.7458	29-Jul-86	5.5	202.48	204.12	203.17	204.13	0.000245	0.41	36	110.89	0.12
Eastview Creek	Lower	39.7458	10-Jun-89	3.6	202.48	203.92	203.03	203.92	0.000367	0.44	15.16	84.02	0.14
Eastview Creek	Lower	39.7458	18-May-90	4.4	202.48	203.94	203.09	203.95	0.000464	0.5	17.65	92.44	0.16
Eastview Creek	Lower	39.7458	27-Oct-91	2	202.48	203.43	202.89	203.44	0.00088	0.51	3.95	6.22	0.2
Eastview Creek	Lower	36.9297	25-Jul-77	5.4	202.44	204.21		204.21	0.000069	0.23	67.57	134.52	0.06
Eastview Creek	Lower	36.9297	15-Sep-78	4.5	202.44	204.05		204.05	0.000109	0.26	47.6	117.85	0.08
Eastview Creek	Lower	36.9297	29-Jul-86	5.5	202.44	204.12		204.13	0.000111	0.27	56.19	122.85	0.08
Eastview Creek	Lower	36.9297	10-Jun-89	3.6	202.44	203.92		203.92	0.00015	0.28	32.69	106.45	0.09
Eastview Creek	Lower	36.9297	18-May-90	4.4	202.44	203.95		203.95	0.000187	0.32	35.78	108.33	0.1
Eastview Creek	Lower	36.9297	27-Oct-91	2	202.44	203.43		203.44	0.000859	0.5	4.4	15.87	0.2
Eastview Creek	Lower	7.663776	25-Jul-77	5.4	202.59	204.21		204.21	0.000032	0.16	100.9	188.85	0.05
Eastview Creek	Lower	7.663776	15-Sep-78	4.5	202.59	204.05		204.05	0.000051	0.19	71.59	173.67	0.06
Eastview Creek	Lower	7.663776	29-Jul-86	5.5	202.59	204.12		204.12	0.000052	0.2	84.18	178.91	0.06
Eastview Creek	Lower	7.663776	10-Jun-89	3.6	202.59	203.92		203.92	0.000074	0.21	49.22	155.31	0.07
Eastview Creek	Lower	7.663776	18-May-90	4.4	202.59	203.94		203.95	0.000092	0.24	53.66	161.04	0.07
Eastview Creek	Lower	7.663776	27-Oct-91	2	202.59	203.41		203.42	0.000645	0.4	5.93	25.56	0.17
Chippewa	Upper	7678.479	25-Jul-77	10.5	264.5	265.5	265.29	265.7	0.00984	1.98	5.31	6.15	0.68
Chippewa	Upper	7678.479	15-Sep-78	8.1	264.5	265.41	265.18	265.56	0.008287	1.72	4.72	6.01	0.62
Chippewa	Upper	7678.479	29-Jul-86	8.9	264.5	265.44	265.21	265.61	0.008841	1.81	4.92	6.06	0.64
Chippewa	Upper	7678.479	10-Jun-89	7.1	264.5	265.36	265.12	265.49	0.00761	1.6	4.44	5.95	0.59
Chippewa	Upper	7678.479	18-May-90	6.9	264.5	265.35	265.11	265.48	0.007557	1.58	4.37	5.94	0.59
Chippewa	Upper	7678.479	27-Oct-91	3.1	264.5	265.1	264.88	265.16	0.00516	1.06	2.92	5.63	0.47
Chippewa	Upper	7659	25-Jul-77	10.5	264.43	265.08	265.08	265.32	0.021062	2.2	4.98	11.1	0.99
Chippewa	Upper	7659	15-Sep-78	8.1	264.43	264.99	264.99	265.2	0.022126	2.07	4.02	10.08	0.99
Chippewa	Upper	7659	29-Jul-86	8.9	264.43	265.02	265.02	265.25	0.021478	2.09	4.39	10.59	0.98
Chippewa	Upper	7659	10-Jun-89	7.1	264.43	264.94	264.94	265.15	0.023437	2.01	3.6	9.31	1
Chippewa	Upper	7659	18-May-90	6.9	264.43	264.94	264.94	265.14	0.023022	1.98	3.55	9.28	0.99

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7659	27-Oct-91	3.1	264.43	264.75	264.75	264.88	0.026939	1.6	1.94	7.45	1
Chippewa	Upper	7645	25-Jul-77	10.5	263.57	264.29	264.4	264.7	0.052815	2.92	4.27	14.5	1.5
Chippewa	Upper	7645	15-Sep-78	8.1	263.57	264.23	264.34	264.58	0.050505	2.65	3.53	13.33	1.44
Chippewa	Upper	7645	29-Jul-86	8.9	263.57	264.25	264.36	264.62	0.051732	2.76	3.76	13.68	1.47
Chippewa	Upper	7645	10-Jun-89	7.1	263.57	264.21	264.31	264.52	0.047537	2.5	3.24	12.86	1.39
Chippewa	Upper	7645	18-May-90	6.9	263.57	264.21	264.3	264.51	0.048047	2.49	3.15	12.71	1.39
Chippewa	Upper	7645	27-Oct-91	3.1	263.57	264.05	264.08	264.24	0.040448	1.97	1.62	6.33	1.23
Chippewa	Upper	7626	25-Jul-77	10.5	262.8	263.27	263.31	263.52	0.032222	2.22	4.74	12.91	1.16
Chippewa	Upper	7626	15-Sep-78	8.1	262.8	263.21	263.24	263.42	0.032669	2.04	3.98	12.4	1.14
Chippewa	Upper	7626	29-Jul-86	8.9	262.8	263.23	263.26	263.46	0.03235	2.1	4.25	12.58	1.15
Chippewa	Upper	7626	10-Jun-89	7.1	262.8	263.18	263.21	263.38	0.033942	1.96	3.61	12.15	1.15
Chippewa	Upper	7626	18-May-90	6.9	262.8	263.18	263.2	263.37	0.033619	1.94	3.56	12.11	1.14
Chippewa	Upper	7626	27-Oct-91	3.1	262.8	263.06	263.06	263.16	0.035626	1.46	2.13	11.67	1.09
Chippewa	Upper	7609	25-Jul-77	10.5	262.05	262.87	262.8	263.05	0.016939	2.08	6.45	11.41	0.9
Chippewa	Upper	7609	15-Sep-78	8.1	262.05	262.78	262.7	262.93	0.016414	1.91	5.46	10.88	0.87
Chippewa	Upper	7609	29-Jul-86	8.9	262.05	262.81	262.72	262.97	0.016668	1.96	5.81	11.13	0.88
Chippewa	Upper	7609	10-Jun-89	7.1	262.05	262.74	262.66	262.88	0.016072	1.82	5.02	10.67	0.85
Chippewa	Upper	7609	18-May-90	6.9	262.05	262.73	262.65	262.87	0.016039	1.8	4.94	10.64	0.85
Chippewa	Upper	7609	27-Oct-91	3.1	262.05	262.55	262.48	262.62	0.015554	1.34	2.99	10.1	0.78
Chippewa	Upper	7577	25-Jul-77	10.5	261.52	262.36	262.29	262.54	0.015071	1.88	5.62	11.13	0.83
Chippewa	Upper	7577	15-Sep-78	8.1	261.52	262.28	262.21	262.43	0.015072	1.71	4.74	10.62	0.81
Chippewa	Upper	7577	29-Jul-86	8.9	261.52	262.31	262.24	262.47	0.015055	1.77	5.04	10.79	0.82
Chippewa	Upper	7577	10-Jun-89	7.1	261.52	262.24	262.18	262.38	0.015148	1.63	4.35	10.43	0.81
Chippewa	Upper	7577	18-May-90	6.9	261.52	262.23	262.17	262.37	0.015132	1.62	4.27	10.39	0.8
Chippewa	Upper	7577	27-Oct-91	3.1	261.52	262.07	262.01	262.14	0.01445	1.19	2.6	9.64	0.73
Chippewa	Upper	7555.375	25-Jul-77	10.5	261.21	261.89	261.89	262.14	0.022946	2.21	4.75	9.7	1.01
Chippewa	Upper	7555.375	15-Sep-78	8.1	261.21	261.8	261.8	262.02	0.02405	2.06	3.94	9.32	1.01
Chippewa	Upper	7555.375	29-Jul-86	8.9	261.21	261.83	261.83	262.06	0.023594	2.11	4.22	9.45	1.01
Chippewa	Upper	7555.375	10-Jun-89	7.1	261.21	261.77	261.77	261.96	0.024475	1.98	3.59	9.12	1.01
Chippewa	Upper	7555.375	18-May-90	6.9	261.21	261.76	261.76	261.95	0.024619	1.96	3.51	9.07	1.01
Chippewa	Upper	7555.375	27-Oct-91	3.1	261.21	261.59	261.59	261.71	0.028972	1.54	2.02	8.59	1.01
Chippewa	Upper	7548	25-Jul-77	10.5	260.8	261.21	261.38	261.78	0.089365	3.37	3.12	9.58	1.88
Chippewa	Upper	7548	15-Sep-78	8.1	260.8	261.15	261.3	261.65	0.097154	3.13	2.59	9.49	1.91
Chippewa	Upper	7548	29-Jul-86	8.9	260.8	261.17	261.32	261.7	0.094505	3.22	2.77	9.52	1.9
Chippewa	Upper	7548	10-Jun-89	7.1	260.8	261.13	261.26	261.59	0.101404	3.01	2.36	9.45	1.93
Chippewa	Upper	7548	18-May-90	6.9	260.8	261.12	261.25	261.58	0.102086	2.99	2.31	9.44	1.93
Chippewa	Upper	7548	27-Oct-91	3.1	260.8	261.22	261.1	261.26	0.006955	0.96	3.23	9.6	0.53
Chippewa	Upper	7540	25-Jul-77	10.5	260.71	261.35	261.35	261.58	0.02198	2.11	5.04	12.07	1
Chippewa	Upper	7540	15-Sep-78	8.1	260.71	261.29	261.27	261.47	0.020104	1.87	4.33	11.28	0.93
Chippewa	Upper	7540	29-Jul-86	8.9	260.71	261.31	261.3	261.51	0.021585	1.98	4.51	11.56	0.97
Chippewa	Upper	7540	10-Jun-89	7.1	260.71	261.26	261.24	261.42	0.019305	1.77	4.02	10.57	0.91
Chippewa	Upper	7540	18-May-90	6.9	260.71	261.26	261.23	261.41	0.018882	1.74	3.98	10.47	0.9
Chippewa	Upper	7540	27-Oct-91	3.1	260.71	261.12		261.19	0.013173	1.19	2.6	9.09	0.71
Chippewa	Upper	7533	25-Jul-77	10.5	260.59	261.2	261.23	261.42	0.024493	2.1	5.68	18.8	1.03
Chippewa	Upper	7533	15-Sep-78	8.1	260.59	261.14	261.14	261.32	0.022822	1.88	4.72	16.97	0.98
Chippewa	Upper	7533	29-Jul-86	8.9	260.59	261.18	261.18	261.35	0.020426	1.87	5.35	18.45	0.94
Chippewa	Upper	7533	10-Jun-89	7.1	260.59	261.12	261.12	261.28	0.022233	1.78	4.28	16.39	0.96
Chippewa	Upper	7533	18-May-90	6.9	260.59	261.11	261.11	261.27	0.022635	1.77	4.16	15.99	0.96
Chippewa	Upper	7533	27-Oct-91	3.1	260.59	260.94	260.94	261.05	0.02939	1.47	2.11	10.03	1.01
Chippewa	Upper	7526	25-Jul-77	10.5	259.88	260.38	260.57	261.06	0.131084	3.65	2.88	10.49	2.22
Chippewa	Upper	7526	15-Sep-78	8.1	259.88	260.32	260.5	260.97	0.147634	3.56	2.27	9.38	2.31
Chippewa	Upper	7526	29-Jul-86	8.9	259.88	260.34	260.53	261.02	0.145883	3.66	2.43	9.53	2.32
Chippewa	Upper	7526	10-Jun-89	7.1	259.88	260.29	260.47	260.92	0.161032	3.51	2.02	9.13	2.38
Chippewa	Upper	7526	18-May-90	6.9	259.88	260.29	260.46	260.92	0.154092	3.51	1.97	8.58	2.34
Chippewa	Upper	7526	27-Oct-91	3.1	259.88	260.15	260.3	260.64	0.161119	3.12	1	5.37	2.31
Chippewa	Upper	7519	25-Jul-77	10.5	259.84	260.53	260.53	260.76	0.02034	2.22	5.91	14.13	0.98
Chippewa	Upper	7519	15-Sep-78	8.1	259.84	260.44	260.44	260.64	0.021714	2.09	4.66	11.66	0.99
Chippewa	Upper	7519	29-Jul-86	8.9	259.84	260.47	260.47	260.68	0.021664	2.15	5	12.56	0.99

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7519	10-Jun-89	7.1	259.84	260.39	260.36	260.59	0.023595	2.08	4.07	11.15	1.02
Chippewa	Upper	7519	18-May-90	6.9	259.84	260.38	260.36	260.58	0.023413	2.06	4	11.1	1.01
Chippewa	Upper	7519	27-Oct-91	3.1	259.84	260.24	260.19	260.33	0.015848	1.35	2.64	9.37	0.79
Chippewa	Upper	7514	25-Jul-77	10.5	259.76	260.35	260.44	260.63	0.033258	2.58	5.58	14.71	1.22
Chippewa	Upper	7514	15-Sep-78	8.1	259.76	260.29	260.31	260.52	0.029959	2.28	4.8	13.99	1.14
Chippewa	Upper	7514	29-Jul-86	8.9	259.76	260.32	260.38	260.55	0.029805	2.35	5.15	14.31	1.14
Chippewa	Upper	7514	10-Jun-89	7.1	259.76	260.28	260.28	260.46	0.025703	2.07	4.61	13.83	1.05
Chippewa	Upper	7514	18-May-90	6.9	259.76	260.27	260.27	260.45	0.025913	2.06	4.5	13.73	1.05
Chippewa	Upper	7514	27-Oct-91	3.1	259.76	260.1	260.1	260.22	0.03383	1.66	2.33	10.89	1.1
Chippewa	Upper	7509	25-Jul-77	10.5	259.61	260.06	260.17	260.41	0.056397	2.87	4.96	17.51	1.53
Chippewa	Upper	7509	15-Sep-78	8.1	259.61	260	260.13	260.32	0.052326	2.67	4.04	15.41	1.46
Chippewa	Upper	7509	29-Jul-86	8.9	259.61	260.02	260.14	260.35	0.056996	2.74	4.34	16.29	1.52
Chippewa	Upper	7509	10-Jun-89	7.1	259.61	259.97	260.06	260.27	0.0552	2.6	3.58	14.97	1.48
Chippewa	Upper	7509	18-May-90	6.9	259.61	259.97	260.05	260.26	0.05593	2.58	3.49	14.85	1.48
Chippewa	Upper	7509	27-Oct-91	3.1	259.61	259.85	259.89	260.01	0.050854	1.85	2.06	11.74	1.32
Chippewa	Upper	7503	25-Jul-77	10.5	259.3	259.61	259.68	259.88	0.155554	2.86	5.16	24.74	2.25
Chippewa	Upper	7503	15-Sep-78	8.1	259.3	259.58	259.63	259.79	0.162996	2.55	4.31	23.22	2.22
Chippewa	Upper	7503	29-Jul-86	8.9	259.3	259.59	259.65	259.81	0.14609	2.59	4.74	24.09	2.14
Chippewa	Upper	7503	10-Jun-89	7.1	259.3	259.57	259.61	259.75	0.142288	2.34	4.12	22.6	2.07
Chippewa	Upper	7503	18-May-90	6.9	259.3	259.57	259.6	259.74	0.139784	2.31	4.07	22.44	2.05
Chippewa	Upper	7503	27-Oct-91	3.1	259.3	259.49	259.5	259.58	0.106777	1.69	2.57	17.75	1.71
Chippewa	Upper	7493	25-Jul-77	10.5	258.33	258.74	258.84	259.04	0.054102	2.68	5.59	23.73	1.49
Chippewa	Upper	7493	15-Sep-78	8.1	258.33	258.7	258.76	258.94	0.053587	2.43	4.52	19.88	1.45
Chippewa	Upper	7493	29-Jul-86	8.9	258.33	258.71	258.8	258.98	0.05543	2.55	4.84	22.24	1.48
Chippewa	Upper	7493	10-Jun-89	7.1	258.33	258.66	258.74	258.9	0.058265	2.37	3.94	16.36	1.48
Chippewa	Upper	7493	18-May-90	6.9	258.33	258.66	258.74	258.89	0.059021	2.36	3.84	16.04	1.49
Chippewa	Upper	7493	27-Oct-91	3.1	258.33	258.54	258.57	258.69	0.079254	1.9	2.08	13.33	1.58
Chippewa	Upper	7484	25-Jul-77	10.5	256.88	257.51	257.79	258.37	0.089768	4.11	2.56	5.58	1.94
Chippewa	Upper	7484	15-Sep-78	8.1	256.88	257.42	257.69	258.23	0.106742	4	2.03	5.3	2.06
Chippewa	Upper	7484	29-Jul-86	8.9	256.88	257.45	257.73	258.28	0.099973	4.03	2.21	5.4	2.01
Chippewa	Upper	7484	10-Jun-89	7.1	256.88	257.38	257.63	258.15	0.111537	3.88	1.83	5.18	2.08
Chippewa	Upper	7484	18-May-90	6.9	256.88	257.37	257.62	258.13	0.11273	3.86	1.79	5.16	2.09
Chippewa	Upper	7484	27-Oct-91	3.1	256.88	257.19	257.35	257.74	0.135894	3.26	0.95	4.09	2.16
Chippewa	Upper	7475	25-Jul-77	10.5	256.19	256.87	257.09	257.51	0.083897	3.67	3.25	8.49	1.87
Chippewa	Upper	7475	15-Sep-78	8.1	256.19	256.82	256.98	257.32	0.07521	3.24	2.83	8.24	1.74
Chippewa	Upper	7475	29-Jul-86	8.9	256.19	256.84	257.01	257.38	0.078433	3.39	2.98	8.33	1.78
Chippewa	Upper	7475	10-Jun-89	7.1	256.19	256.8	256.91	257.24	0.07156	3.04	2.64	8.07	1.68
Chippewa	Upper	7475	18-May-90	6.9	256.19	256.79	256.9	257.22	0.070753	3	2.6	8.04	1.67
Chippewa	Upper	7475	27-Oct-91	3.1	256.19	256.61	256.72	256.91	0.054437	2.47	1.41	5.43	1.43
Chippewa	Upper	7467	25-Jul-77	10.5	255.99	256.7	256.78	257.03	0.029703	2.58	4.57	13.47	1.17
Chippewa	Upper	7467	15-Sep-78	8.1	255.99	256.64	256.67	256.9	0.026343	2.25	3.89	12	1.08
Chippewa	Upper	7467	29-Jul-86	8.9	255.99	256.66	256.7	256.94	0.027431	2.37	4.13	12.35	1.11
Chippewa	Upper	7467	10-Jun-89	7.1	255.99	256.62	256.64	256.84	0.025129	2.11	3.58	11.59	1.05
Chippewa	Upper	7467	18-May-90	6.9	255.99	256.61	256.63	256.83	0.024897	2.08	3.51	11.5	1.04
Chippewa	Upper	7467	27-Oct-91	3.1	255.99	256.52	256.44	256.59	0.012031	1.22	2.58	9.11	0.69
Chippewa	Upper	7458	25-Jul-77	10.5	255.92	256.55	256.57	256.72	0.029742	2.3	8.37	30.01	1.14
Chippewa	Upper	7458	15-Sep-78	8.1	255.92	256.52	256.52	256.65	0.022526	1.92	7.65	29.44	0.98
Chippewa	Upper	7458	29-Jul-86	8.9	255.92	256.53	256.54	256.67	0.024734	2.05	7.93	29.67	1.03
Chippewa	Upper	7458	10-Jun-89	7.1	255.92	256.47	256.49	256.62	0.030743	2.05	6.18	27.97	1.12
Chippewa	Upper	7458	18-May-90	6.9	255.92	256.47	256.49	256.62	0.031381	2.04	6	27.69	1.13
Chippewa	Upper	7458	27-Oct-91	3.1	255.92	256.37	256.37	256.45	0.021775	1.43	3.58	23.49	0.9
Chippewa	Upper	7450	25-Jul-77	10.5	255.51	256.04	256.14	256.37	0.056472	2.97	5.32	17.89	1.55
Chippewa	Upper	7450	15-Sep-78	8.1	255.51	255.95	256.06	256.3	0.08461	3.02	3.83	14.39	1.81
Chippewa	Upper	7450	29-Jul-86	8.9	255.51	255.99	256.09	256.32	0.072233	3	4.3	15.71	1.7
Chippewa	Upper	7450	10-Jun-89	7.1	255.51	255.94	256.03	256.23	0.072486	2.74	3.69	14.27	1.67
Chippewa	Upper	7450	18-May-90	6.9	255.51	255.94	256.02	256.22	0.072804	2.71	3.62	14.2	1.66
Chippewa	Upper	7450	27-Oct-91	3.1	255.51	255.78	255.87	256.05	0.136201	2.65	1.67	10.69	2.09
Chippewa	Upper	7440	25-Jul-77	10.5	255.03	255.71	255.71	255.88	0.047979	2.49	7.92	29.93	1.39

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7440	15-Sep-78	8.1	255.03	255.68	255.68	255.81	0.040398	2.14	7.03	28.84	1.25
Chippewa	Upper	7440	29-Jul-86	8.9	255.03	255.68	255.68	255.83	0.046365	2.32	7.15	28.99	1.34
Chippewa	Upper	7440	10-Jun-89	7.1	255.03	255.66	255.66	255.77	0.041156	2.05	6.38	28.03	1.25
Chippewa	Upper	7440	18-May-90	6.9	255.03	255.65	255.65	255.77	0.041045	2.03	6.26	27.88	1.24
Chippewa	Upper	7440	27-Oct-91	3.1	255.03	255.55	255.55	255.61	0.02855	1.43	3.74	19.98	0.99
Chippewa	Upper	7425.95	25-Jul-77	10.5	254.35	255.03	255.1	255.33	0.030013	2.7	6.05	18.99	1.18
Chippewa	Upper	7425.95	15-Sep-78	8.1	254.35	254.95	255.03	255.24	0.035808	2.62	4.46	17.93	1.25
Chippewa	Upper	7425.95	29-Jul-86	8.9	254.35	254.98	255.05	255.27	0.032048	2.61	5.1	18.4	1.2
Chippewa	Upper	7425.95	10-Jun-89	7.1	254.35	254.92	254.99	255.19	0.037126	2.53	3.9	14.71	1.26
Chippewa	Upper	7425.95	18-May-90	6.9	254.35	254.91	254.98	255.18	0.037595	2.52	3.79	14.16	1.26
Chippewa	Upper	7425.95	27-Oct-91	3.1	254.35	254.71	254.79	254.98	0.066294	2.38	1.56	9.14	1.54
Chippewa	Upper	7408	25-Jul-77	10.5	254.14	254.75	254.65	254.87	0.0241	2.27	10.08	30.12	1.02
Chippewa	Upper	7408	15-Sep-78	8.1	254.14	254.65	254.56	254.75	0.028019	2.15	7.35	22.44	1.07
Chippewa	Upper	7408	29-Jul-86	8.9	254.14	254.69	254.57	254.79	0.025118	2.15	8.27	24.54	1.03
Chippewa	Upper	7408	10-Jun-89	7.1	254.14	254.6	254.53	254.71	0.03155	2.13	6.29	21.24	1.12
Chippewa	Upper	7408	18-May-90	6.9	254.14	254.59	254.52	254.69	0.032354	2.13	6.07	20.9	1.13
Chippewa	Upper	7408	27-Oct-91	3.1	254.14	254.37	254.33	254.46	0.066125	1.85	2.52	11.09	1.44
Chippewa	Upper	7381	25-Jul-77	10.5	253.35	254.19	254.07	254.4	0.012324	2.09	5.88	9.44	0.79
Chippewa	Upper	7381	15-Sep-78	8.1	253.35	254.07	253.96	254.25	0.012981	1.94	4.78	8.38	0.79
Chippewa	Upper	7381	29-Jul-86	8.9	253.35	254.1	254	254.3	0.01348	2.03	5.03	8.5	0.81
Chippewa	Upper	7381	10-Jun-89	7.1	253.35	254.03	253.93	254.19	0.012605	1.84	4.42	8.2	0.77
Chippewa	Upper	7381	18-May-90	6.9	253.35	254.02	253.92	254.17	0.012512	1.81	4.34	8.16	0.77
Chippewa	Upper	7381	27-Oct-91	3.1	253.35	253.81	253.71	253.89	0.010079	1.27	2.75	7.55	0.65
Chippewa	Upper	7360	25-Jul-77	10.5	253.13	253.73	253.73	254.04	0.024792	2.62	5.11	11.28	1.11
Chippewa	Upper	7360	15-Sep-78	8.1	253.13	253.67	253.67	253.91	0.020966	2.25	4.51	10.84	1
Chippewa	Upper	7360	29-Jul-86	8.9	253.13	253.71	253.71	253.95	0.020333	2.31	4.87	11.12	1
Chippewa	Upper	7360	10-Jun-89	7.1	253.13	253.63	253.63	253.85	0.021076	2.15	4.1	10.62	0.99
Chippewa	Upper	7360	18-May-90	6.9	253.13	253.63	253.63	253.84	0.021133	2.13	4.01	10.58	0.99
Chippewa	Upper	7360	27-Oct-91	3.1	253.13	253.43	253.43	253.57	0.026208	1.67	2.14	8.8	1.01
Chippewa	Upper	7337	25-Jul-77	10.5	252.58	253.48	253.15	253.54	0.003295	1.26	12.83	19.44	0.43
Chippewa	Upper	7337	15-Sep-78	8.1	252.58	253.35	253.08	253.41	0.003707	1.19	10.26	19.06	0.45
Chippewa	Upper	7337	29-Jul-86	8.9	252.58	253.39	253.11	253.45	0.003538	1.21	11.15	19.19	0.44
Chippewa	Upper	7337	10-Jun-89	7.1	252.58	253.29	253.05	253.34	0.003976	1.17	9.1	18.84	0.46
Chippewa	Upper	7337	18-May-90	6.9	252.58	253.27	253.04	253.33	0.004046	1.16	8.86	18.8	0.46
Chippewa	Upper	7337	27-Oct-91	3.1	252.58	253	252.88	253.05	0.005832	0.98	4.23	15.5	0.5
Chippewa	Upper	7319	25-Jul-77	10.5	252.18	253.09	253.09	253.39	0.028295	2.77	4.98	7.98	1.17
Chippewa	Upper	7319	15-Sep-78	8.1	252.18	252.96	252.96	253.24	0.031772	2.65	4.02	7.45	1.21
Chippewa	Upper	7319	29-Jul-86	8.9	252.18	253	253	253.29	0.030777	2.7	4.33	7.62	1.2
Chippewa	Upper	7319	10-Jun-89	7.1	252.18	252.91	252.91	253.17	0.03337	2.58	3.63	7.23	1.22
Chippewa	Upper	7319	18-May-90	6.9	252.18	252.9	252.9	253.15	0.03319	2.55	3.57	7.21	1.22
Chippewa	Upper	7319	27-Oct-91	3.1	252.18	252.64	252.64	252.82	0.042791	2.14	1.91	5.7	1.28
Chippewa	Upper	7298.533	25-Jul-77	10.5	251.7	253.12	252.46	253.2	0.002152	1.22	9.56	15.22	0.35
Chippewa	Upper	7298.533	15-Sep-78	8.1	251.7	252.9	252.35	252.97	0.002513	1.16	7.26	8.28	0.36
Chippewa	Upper	7298.533	29-Jul-86	8.9	251.7	252.98	252.39	253.05	0.002325	1.18	7.98	8.55	0.35
Chippewa	Upper	7298.533	10-Jun-89	7.1	251.7	252.79	252.3	252.85	0.002803	1.14	6.38	7.85	0.38
Chippewa	Upper	7298.533	18-May-90	6.9	251.7	252.76	252.29	252.83	0.00289	1.14	6.19	7.75	0.38
Chippewa	Upper	7298.533	27-Oct-91	3.1	251.7	252.26	252.06	252.32	0.005672	1.08	2.87	5.85	0.49
Chippewa	Upper	7295.858	25-Jul-77	10.5	251.69	253.12	252.45	253.19	0.00202	1.22	9.84	15.02	0.34
Chippewa	Upper	7295.858	15-Sep-78	8.1	251.69	252.88	252.34	252.96	0.002437	1.26	6.43	7.94	0.38
Chippewa	Upper	7295.858	29-Jul-86	8.9	251.69	252.96	252.37	253.04	0.002289	1.28	7.18	8.2	0.37
Chippewa	Upper	7295.858	10-Jun-89	7.1	251.69	252.77	252.29	252.85	0.002604	1.22	5.83	7.62	0.39
Chippewa	Upper	7295.858	18-May-90	6.9	251.69	252.75	252.28	252.82	0.00266	1.21	5.69	7.52	0.39
Chippewa	Upper	7295.858	27-Oct-91	3.1	251.69	252.24	252.05	252.3	0.00553	1.1	2.81	6.03	0.5
Chippewa	Upper	7286.624		Culvert									
Chippewa	Upper	7273.624	25-Jul-77	10.5	251.38	252.67	252.67	253.11	0.022853	2.97	3.91	10.32	0.96
Chippewa	Upper	7273.624	15-Sep-78	8.1	251.38	252.52	252.52	252.9	0.02486	2.76	3.17	6.97	0.97
Chippewa	Upper	7273.624	29-Jul-86	8.9	251.38	252.57	252.57	252.97	0.024049	2.83	3.42	7.38	0.97
Chippewa	Upper	7273.624	10-Jun-89	7.1	251.38	252.42	252.42	252.8	0.028348	2.76	2.73	5.52	1.02

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7273.624	18-May-90	6.9	251.38	252.4	252.4	252.78	0.028859	2.75	2.66	4.74	1.03
Chippewa	Upper	7273.624	27-Oct-91	3.1	251.38	252.04	252.04	252.29	0.029577	2.23	1.45	3.64	1
Chippewa	Upper	7269.205	25-Jul-77	10.5	251.33	252.07	252.36	252.91	0.06926	4.06	2.59	4.52	1.71
Chippewa	Upper	7269.205	15-Sep-78	8.1	251.33	251.97	252.2	252.69	0.069669	3.77	2.15	4.26	1.69
Chippewa	Upper	7269.205	29-Jul-86	8.9	251.33	252	252.25	252.77	0.069498	3.87	2.3	4.35	1.7
Chippewa	Upper	7269.205	10-Jun-89	7.1	251.33	251.93	252.13	252.59	0.06852	3.6	1.97	4.15	1.67
Chippewa	Upper	7269.205	18-May-90	6.9	251.33	251.92	252.12	252.57	0.068104	3.56	1.94	4.13	1.66
Chippewa	Upper	7269.205	27-Oct-91	3.1	251.33	251.71	251.82	252.09	0.064519	2.71	1.14	3.64	1.54
Chippewa	Upper	7264	25-Jul-77	10.5	251.27	252.03	252.18	252.57	0.039047	3.25	3.38	6.5	1.36
Chippewa	Upper	7264	15-Sep-78	8.1	251.27	251.97	252.06	252.37	0.032395	2.83	2.96	6.09	1.22
Chippewa	Upper	7264	29-Jul-86	8.9	251.27	251.99	252.11	252.44	0.035279	3	3.08	6.21	1.28
Chippewa	Upper	7264	10-Jun-89	7.1	251.27	251.94	252	252.29	0.028865	2.62	2.79	5.92	1.15
Chippewa	Upper	7264	18-May-90	6.9	251.27	252.05	251.99	252.27	0.015568	2.08	3.49	6.6	0.86
Chippewa	Upper	7264	27-Oct-91	3.1	251.27	251.83	251.71	251.93	0.010268	1.42	2.21	4.96	0.67
Chippewa	Upper	7260	25-Jul-77	10.5	251.16	252.23	252.04	252.4	0.008882	1.84	6.33	10.27	0.68
Chippewa	Upper	7260	15-Sep-78	8.1	251.16	252.13	251.92	252.26	0.007926	1.65	5.34	9.31	0.63
Chippewa	Upper	7260	29-Jul-86	8.9	251.16	252.16	251.96	252.31	0.00832	1.72	5.67	9.64	0.65
Chippewa	Upper	7260	10-Jun-89	7.1	251.16	252.08	251.86	252.2	0.007354	1.55	4.92	8.74	0.61
Chippewa	Upper	7260	18-May-90	6.9	251.16	252.07		252.19	0.007234	1.53	4.84	8.61	0.6
Chippewa	Upper	7260	27-Oct-91	3.1	251.16	251.83		251.89	0.00479	1.05	3.05	6.51	0.47
Chippewa	Upper	7252	25-Jul-77	10.5	251.17	252.24		252.33	0.004261	1.39	9.99	14.84	0.48
Chippewa	Upper	7252	15-Sep-78	8.1	251.17	252.13		252.2	0.004184	1.25	8.38	14.2	0.47
Chippewa	Upper	7252	29-Jul-86	8.9	251.17	252.17		252.25	0.004226	1.3	8.92	14.5	0.47
Chippewa	Upper	7252	10-Jun-89	7.1	251.17	252.08		252.15	0.004131	1.19	7.68	13.91	0.46
Chippewa	Upper	7252	18-May-90	6.9	251.17	252.07		252.13	0.004128	1.17	7.53	13.88	0.46
Chippewa	Upper	7252	27-Oct-91	3.1	251.17	251.82		251.85	0.003613	0.85	4.35	10.61	0.4
Chippewa	Upper	7244	25-Jul-77	10.5	251.14	251.98	251.98	252.24	0.023681	2.32	5	10.13	1.05
Chippewa	Upper	7244	15-Sep-78	8.1	251.14	251.91	251.91	252.12	0.024097	2.11	4.23	9.91	1.03
Chippewa	Upper	7244	29-Jul-86	8.9	251.14	251.93	251.93	252.16	0.024058	2.19	4.49	9.98	1.04
Chippewa	Upper	7244	10-Jun-89	7.1	251.14	251.87	251.87	252.07	0.022333	2.02	3.89	9.28	0.99
Chippewa	Upper	7244	18-May-90	6.9	251.14	251.86	251.86	252.06	0.02164	2	3.81	9.01	0.98
Chippewa	Upper	7244	27-Oct-91	3.1	251.14	251.64	251.64	251.78	0.026581	1.68	2.02	7.4	1.01
Chippewa	Upper	7236	25-Jul-77	10.5	250.62	251.24	251.43	251.89	0.09554	3.55	2.97	9.06	1.95
Chippewa	Upper	7236	15-Sep-78	8.1	250.62	251.18	251.35	251.75	0.104567	3.36	2.41	8.43	1.99
Chippewa	Upper	7236	29-Jul-86	8.9	250.62	251.2	251.38	251.8	0.103473	3.41	2.61	8.89	1.99
Chippewa	Upper	7236	10-Jun-89	7.1	250.62	251.14	251.31	251.72	0.101987	3.37	2.11	7.08	1.97
Chippewa	Upper	7236	18-May-90	6.9	250.62	251.13	251.3	251.71	0.104698	3.37	2.05	7	1.99
Chippewa	Upper	7236	27-Oct-91	3.1	250.62	250.99	251.1	251.38	0.125007	2.78	1.12	5.85	2.03
Chippewa	Upper	7226	25-Jul-77	10.5	249.01	249.86	250.13	250.8	0.119998	4.29	2.45	6.41	2.2
Chippewa	Upper	7226	15-Sep-78	8.1	249.01	249.8	250.03	250.61	0.123321	3.98	2.03	5.99	2.18
Chippewa	Upper	7226	29-Jul-86	8.9	249.01	249.82	250.07	250.66	0.12257	4.05	2.2	6.33	2.19
Chippewa	Upper	7226	10-Jun-89	7.1	249.01	249.76	249.98	250.55	0.132955	3.93	1.8	5.73	2.24
Chippewa	Upper	7226	18-May-90	6.9	249.01	249.75	249.97	250.53	0.132609	3.9	1.77	5.69	2.23
Chippewa	Upper	7226	27-Oct-91	3.1	249.01	249.54	249.75	250.16	0.116398	3.48	0.89	2.99	2.04
Chippewa	Upper	7218	25-Jul-77	10.5	248.48	248.9	249.14	249.78	0.138937	4.16	2.53	7.98	2.35
Chippewa	Upper	7218	15-Sep-78	8.1	248.48	248.85	249.05	249.57	0.136643	3.75	2.16	7.86	2.27
Chippewa	Upper	7218	29-Jul-86	8.9	248.48	248.87	249.08	249.63	0.135512	3.88	2.3	7.91	2.28
Chippewa	Upper	7218	10-Jun-89	7.1	248.48	248.83	249.01	249.47	0.132105	3.53	2.01	7.81	2.21
Chippewa	Upper	7218	18-May-90	6.9	248.48	248.83	249	249.45	0.132032	3.49	1.98	7.8	2.2
Chippewa	Upper	7218	27-Oct-91	3.1	248.48	248.72	248.82	249.09	0.141857	2.7	1.15	7.04	2.13
Chippewa	Upper	7211	25-Jul-77	10.5	248.22	248.75	248.83	249.1	0.046216	2.64	3.98	10.79	1.39
Chippewa	Upper	7211	15-Sep-78	8.1	248.22	248.71	248.76	248.97	0.038638	2.26	3.58	10.68	1.25
Chippewa	Upper	7211	29-Jul-86	8.9	248.22	248.72	248.79	249.01	0.041089	2.39	3.73	10.72	1.29
Chippewa	Upper	7211	10-Jun-89	7.1	248.22	248.69	248.73	248.91	0.03518	2.09	3.39	10.63	1.18
Chippewa	Upper	7211	18-May-90	6.9	248.22	248.69	248.72	248.9	0.034533	2.06	3.35	10.61	1.17
Chippewa	Upper	7211	27-Oct-91	3.1	248.22	248.57	248.57	248.68	0.028881	1.46	2.12	9.84	1.01
Chippewa	Upper	7206	25-Jul-77	10.5	247.97	248.61	248.65	248.87	0.031112	2.3	5.02	13.63	1.16
Chippewa	Upper	7206	15-Sep-78	8.1	247.97	248.54	248.58	248.76	0.032183	2.12	4.17	13.12	1.15

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7206	29-Jul-86	8.9	247.97	248.57	248.6	248.8	0.031492	2.17	4.47	13.3	1.15
Chippewa	Upper	7206	10-Jun-89	7.1	247.97	248.51	248.54	248.72	0.033996	2.05	3.75	12.86	1.17
Chippewa	Upper	7206	18-May-90	6.9	247.97	248.5	248.54	248.71	0.034481	2.04	3.66	12.81	1.17
Chippewa	Upper	7206	27-Oct-91	3.1	247.97	248.38	248.39	248.5	0.036689	1.55	2.11	11.85	1.12
Chippewa	Upper	7197	25-Jul-77	10.5	246.61	247.03	247.32	248.19	0.215167	4.78	2.2	7.65	2.85
Chippewa	Upper	7197	15-Sep-78	8.1	246.61	246.97	247.24	248.05	0.258666	4.6	1.76	7.49	3.03
Chippewa	Upper	7197	29-Jul-86	8.9	246.61	246.99	247.27	248.1	0.243111	4.68	1.9	7.54	2.97
Chippewa	Upper	7197	10-Jun-89	7.1	246.61	246.95	247.2	247.97	0.278659	4.49	1.58	7.42	3.1
Chippewa	Upper	7197	18-May-90	6.9	246.61	246.94	247.19	247.95	0.282745	4.46	1.55	7.41	3.11
Chippewa	Upper	7197	27-Oct-91	3.1	246.61	246.82	246.99	247.66	0.401531	4.05	0.77	5.52	3.47
Chippewa	Upper	7188.308	25-Jul-77	10.5	246.5	247.06	247.1	247.33	0.031361	2.3	4.67	12.85	1.16
Chippewa	Upper	7188.308	15-Sep-78	8.1	246.5	247.01	247.03	247.22	0.0276	2.01	4.09	12.45	1.07
Chippewa	Upper	7188.308	29-Jul-86	8.9	246.5	247.03	247.05	247.25	0.028975	2.11	4.29	12.59	1.1
Chippewa	Upper	7188.308	10-Jun-89	7.1	246.5	246.99	247	247.17	0.025564	1.87	3.84	12.28	1.02
Chippewa	Upper	7188.308	18-May-90	6.9	246.5	246.99	246.99	247.16	0.025112	1.84	3.79	12.24	1.01
Chippewa	Upper	7188.308	27-Oct-91	3.1	246.5	246.84	246.82	246.94	0.02349	1.39	2.23	9.62	0.92
Chippewa	Upper	7183	25-Jul-77	10.5	246.36	247.04	246.97	247.2	0.013248	1.76	6.43	15.59	0.79
Chippewa	Upper	7183	15-Sep-78	8.1	246.36	246.95	246.89	247.09	0.014948	1.66	5.08	14.21	0.81
Chippewa	Upper	7183	29-Jul-86	8.9	246.36	246.98	246.92	247.13	0.014726	1.71	5.49	14.55	0.82
Chippewa	Upper	7183	10-Jun-89	7.1	246.36	246.91	246.86	247.04	0.015746	1.61	4.55	12.81	0.82
Chippewa	Upper	7183	18-May-90	6.9	246.36	246.9	246.85	247.03	0.015996	1.6	4.44	12.5	0.83
Chippewa	Upper	7183	27-Oct-91	3.1	246.36	246.72	246.7	246.81	0.021054	1.31	2.39	10.75	0.87
Chippewa	Upper	7179	25-Jul-77	10.5	246.26	246.9	246.9	247.13	0.020272	2.14	5.26	12.81	0.97
Chippewa	Upper	7179	15-Sep-78	8.1	246.26	246.81	246.81	247.01	0.022447	2.01	4.18	11.41	0.99
Chippewa	Upper	7179	29-Jul-86	8.9	246.26	246.84	246.84	247.05	0.021484	2.05	4.54	11.95	0.98
Chippewa	Upper	7179	10-Jun-89	7.1	246.26	246.77	246.77	246.96	0.023468	1.94	3.77	10.64	1
Chippewa	Upper	7179	18-May-90	6.9	246.26	246.76	246.76	246.95	0.023539	1.92	3.7	10.6	1
Chippewa	Upper	7179	27-Oct-91	3.1	246.26	246.61	246.6	246.72	0.027183	1.48	2.1	9.49	0.99
Chippewa	Upper	7175	25-Jul-77	10.5	246.01	246.71	246.77	247.01	0.034475	2.55	4.91	12.72	1.23
Chippewa	Upper	7175	15-Sep-78	8.1	246.01	246.65	246.7	246.9	0.033115	2.29	4.17	12.49	1.18
Chippewa	Upper	7175	29-Jul-86	8.9	246.01	246.67	246.72	246.94	0.033709	2.38	4.42	12.57	1.2
Chippewa	Upper	7175	10-Jun-89	7.1	246.01	246.62	246.66	246.85	0.0335	2.19	3.79	11.94	1.17
Chippewa	Upper	7175	18-May-90	6.9	246.01	246.62	246.66	246.84	0.033413	2.16	3.72	11.87	1.17
Chippewa	Upper	7175	27-Oct-91	3.1	246.01	246.49	246.49	246.61	0.027991	1.52	2.31	11.18	1
Chippewa	Upper	7171	25-Jul-77	10.5	245.55	246.35	246.48	246.85	0.034806	3.29	3.96	7.1	1.28
Chippewa	Upper	7171	15-Sep-78	8.1	245.55	246.21	246.41	246.72	0.044202	3.27	2.99	6.79	1.4
Chippewa	Upper	7171	29-Jul-86	8.9	245.55	246.26	246.43	246.76	0.040559	3.28	3.31	6.89	1.36
Chippewa	Upper	7171	10-Jun-89	7.1	245.55	246.16	246.3	246.66	0.048254	3.23	2.62	6.7	1.45
Chippewa	Upper	7171	18-May-90	6.9	245.55	246.14	246.29	246.64	0.049233	3.22	2.55	6.68	1.46
Chippewa	Upper	7171	27-Oct-91	3.1	245.55	245.89	246.04	246.37	0.102973	3.07	1.03	4.66	1.93
Chippewa	Upper	7166	25-Jul-77	10.5	245.27	245.98	246.17	246.59	0.065479	3.56	3.27	7.73	1.7
Chippewa	Upper	7166	15-Sep-78	8.1	245.27	245.9	246.05	246.43	0.068157	3.29	2.72	7.43	1.7
Chippewa	Upper	7166	29-Jul-86	8.9	245.27	245.93	246.1	246.49	0.067407	3.39	2.9	7.53	1.7
Chippewa	Upper	7166	10-Jun-89	7.1	245.27	245.87	246.01	246.35	0.067288	3.13	2.5	7.3	1.67
Chippewa	Upper	7166	18-May-90	6.9	245.27	245.87	246.01	246.33	0.065882	3.07	2.47	7.28	1.65
Chippewa	Upper	7166	27-Oct-91	3.1	245.27	245.74	245.79	245.96	0.043117	2.11	1.6	6.08	1.28
Chippewa	Upper	7162	25-Jul-77	10.5	244.93	245.7	245.88	246.3	0.086843	3.72	3.49	9.22	1.91
Chippewa	Upper	7162	15-Sep-78	8.1	244.93	245.63	245.79	246.16	0.074829	3.45	2.92	7.97	1.77
Chippewa	Upper	7162	29-Jul-86	8.9	244.93	245.65	245.82	246.21	0.079241	3.54	3.12	8.43	1.82
Chippewa	Upper	7162	10-Jun-89	7.1	244.93	245.6	245.75	246.09	0.066319	3.34	2.66	7.18	1.68
Chippewa	Upper	7162	18-May-90	6.9	244.93	245.59	245.74	246.08	0.065866	3.3	2.61	7.12	1.67
Chippewa	Upper	7162	27-Oct-91	3.1	244.93	245.39	245.5	245.72	0.082752	2.74	1.36	5.35	1.74
Chippewa	Upper	7157	25-Jul-77	10.5	244.39	244.78	245	245.51	0.28952	4.53	3.04	11.11	3.18
Chippewa	Upper	7157	15-Sep-78	8.1	244.39	244.72	244.92	245.39	0.35026	4.36	2.42	10.25	3.38
Chippewa	Upper	7157	29-Jul-86	8.9	244.39	244.74	244.95	245.43	0.328175	4.4	2.64	10.64	3.31
Chippewa	Upper	7157	10-Jun-89	7.1	244.39	244.69	244.86	245.36	0.394164	4.38	2.1	9.24	3.54
Chippewa	Upper	7157	18-May-90	6.9	244.39	244.68	244.85	245.34	0.396322	4.36	2.06	9.15	3.54
Chippewa	Upper	7157	27-Oct-91	3.1	244.39	244.58	244.69	244.91	0.351779	2.98	1.26	7.69	3.09

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7152	25-Jul-77	10.5	243.44	243.85	243.95	244.22	0.219354	3.2	3.95	12.49	2.59
Chippewa	Upper	7152	15-Sep-78	8.1	243.44	243.82	243.88	244.09	0.187524	2.68	3.53	12.08	2.33
Chippewa	Upper	7152	29-Jul-86	8.9	243.44	243.83	243.91	244.13	0.196822	2.83	3.69	12.3	2.41
Chippewa	Upper	7152	10-Jun-89	7.1	243.44	243.8	243.84	244.04	0.175311	2.49	3.31	11.77	2.23
Chippewa	Upper	7152	18-May-90	6.9	243.44	243.8	243.84	244.03	0.173935	2.45	3.26	11.7	2.22
Chippewa	Upper	7152	27-Oct-91	3.1	243.44	243.66	243.68	243.81	0.154113	2.16	1.87	7.62	1.98
Chippewa	Upper	7146	25-Jul-77	10.5	241.42	241.54	241.77	242.25	0.447233	2.64	2.83	7.53	3.27
Chippewa	Upper	7146	15-Sep-78	8.1	241.42	241.45	241.67	242.14	0.543369	0.92	2.2	6.18	2.7
Chippewa	Upper	7146	29-Jul-86	8.9	241.42	241.48	241.71	242.18	0.505589	1.48	2.41	6.74	2.97
Chippewa	Upper	7146	10-Jun-89	7.1	241.42	241.4	241.62	242.09	0.608592		1.94	5.79	0
Chippewa	Upper	7146	18-May-90	6.9	241.42	241.4	241.61	242.08	0.620217		1.88	5.73	0
Chippewa	Upper	7146	27-Oct-91	3.1	241.42	241.21	241.37	241.77	0.924145		0.93	4.43	0
Chippewa	Upper	7141	25-Jul-77	10.5	240.44	241.14	241.04	241.29	0.014695	1.99	7.37	13.4	0.84
Chippewa	Upper	7141	15-Sep-78	8.1	240.44	241.07	240.95	241.19	0.012857	1.74	6.51	13.23	0.78
Chippewa	Upper	7141	29-Jul-86	8.9	240.44	241.1	240.97	241.23	0.013364	1.82	6.83	13.3	0.8
Chippewa	Upper	7141	10-Jun-89	7.1	240.44	241.04	240.92	241.15	0.012184	1.63	6.09	13.15	0.75
Chippewa	Upper	7141	18-May-90	6.9	240.44	241.03	240.91	241.14	0.012032	1.61	6	13.13	0.74
Chippewa	Upper	7141	27-Oct-91	3.1	240.44	240.87	240.75	240.92	0.008536	1.08	3.97	12.02	0.59
Chippewa	Upper	7135	25-Jul-77	10.5	240.47	240.97	240.97	241.17	0.031718	2.26	6.17	15.14	1.17
Chippewa	Upper	7135	15-Sep-78	8.1	240.47	240.9	240.9	241.08	0.034614	2.13	5.08	14.65	1.19
Chippewa	Upper	7135	29-Jul-86	8.9	240.47	240.92	240.92	241.11	0.034134	2.19	5.42	14.8	1.19
Chippewa	Upper	7135	10-Jun-89	7.1	240.47	240.87	240.87	241.03	0.035587	2.05	4.64	14.44	1.19
Chippewa	Upper	7135	18-May-90	6.9	240.47	240.86	240.86	241.02	0.035938	2.03	4.54	14.39	1.19
Chippewa	Upper	7135	27-Oct-91	3.1	240.47	240.72	240.72	240.82	0.042331	1.61	2.61	13.27	1.2
Chippewa	Upper	7129	25-Jul-77	10.5	239.99	240.64	240.71	240.95	0.045943	2.62	4.92	13.53	1.37
Chippewa	Upper	7129	15-Sep-78	8.1	239.99	240.57	240.62	240.83	0.050518	2.44	4	12.45	1.4
Chippewa	Upper	7129	29-Jul-86	8.9	239.99	240.6	240.66	240.87	0.049143	2.5	4.29	12.83	1.39
Chippewa	Upper	7129	10-Jun-89	7.1	239.99	240.55	240.6	240.78	0.050969	2.33	3.67	12.25	1.39
Chippewa	Upper	7129	18-May-90	6.9	239.99	240.54	240.6	240.77	0.051155	2.31	3.6	12.21	1.39
Chippewa	Upper	7129	27-Oct-91	3.1	239.99	240.37	240.42	240.56	0.048319	2.04	1.89	8.65	1.31
Chippewa	Upper	7123	25-Jul-77	10.5	239.78	240.43	240.49	240.71	0.033035	2.48	4.95	11.34	1.21
Chippewa	Upper	7123	15-Sep-78	8.1	239.78	240.37	240.38	240.59	0.029967	2.18	4.34	11.16	1.13
Chippewa	Upper	7123	29-Jul-86	8.9	239.78	240.39	240.41	240.63	0.030024	2.27	4.6	11.24	1.14
Chippewa	Upper	7123	10-Jun-89	7.1	239.78	240.34	240.35	240.54	0.030368	2.08	3.98	11.06	1.12
Chippewa	Upper	7123	18-May-90	6.9	239.78	240.33	240.34	240.52	0.031002	2.08	3.89	11.04	1.13
Chippewa	Upper	7123	27-Oct-91	3.1	239.78	240.18	240.18	240.29	0.032362	1.57	2.31	10.16	1.07
Chippewa	Upper	7117	25-Jul-77	10.5	239.44	239.92	240.08	240.43	0.059307	3.19	3.55	9.85	1.61
Chippewa	Upper	7117	15-Sep-78	8.1	239.44	239.85	239.99	240.31	0.068162	3.04	2.83	9.34	1.67
Chippewa	Upper	7117	29-Jul-86	8.9	239.44	239.87	240.02	240.35	0.065424	3.1	3.06	9.51	1.65
Chippewa	Upper	7117	10-Jun-89	7.1	239.44	239.82	239.95	240.25	0.071804	2.94	2.54	9.13	1.69
Chippewa	Upper	7117	18-May-90	6.9	239.44	239.81	239.94	240.24	0.072076	2.92	2.49	9.09	1.69
Chippewa	Upper	7117	27-Oct-91	3.1	239.44	239.67	239.76	239.97	0.101678	2.42	1.3	7.77	1.84
Chippewa	Upper	7111	25-Jul-77	10.5	239.27	240.06	239.91	240.19	0.010503	1.64	7.15	17.37	0.71
Chippewa	Upper	7111	15-Sep-78	8.1	239.27	239.97	239.81	240.08	0.010064	1.53	5.64	13.39	0.68
Chippewa	Upper	7111	29-Jul-86	8.9	239.27	240	239.86	240.12	0.010653	1.56	6.18	15.99	0.7
Chippewa	Upper	7111	10-Jun-89	7.1	239.27	239.92	239.78	240.03	0.009732	1.47	5.1	11.2	0.67
Chippewa	Upper	7111	18-May-90	6.9	239.27	239.91	239.78	240.02	0.009615	1.45	5.01	11.02	0.66
Chippewa	Upper	7111	27-Oct-91	3.1	239.27	239.72	239.61	239.77	0.008027	1.04	3.07	9.34	0.57
Chippewa	Upper	7102.331	25-Jul-77	10.5	239.11	239.84	239.84	240.07	0.02143	2.13	5.03	12.69	0.99
Chippewa	Upper	7102.331	15-Sep-78	8.1	239.11	239.75	239.75	239.95	0.024088	2	4.06	10.58	1.01
Chippewa	Upper	7102.331	29-Jul-86	8.9	239.11	239.78	239.78	239.99	0.023455	2.05	4.35	10.98	1.01
Chippewa	Upper	7102.331	10-Jun-89	7.1	239.11	239.72	239.72	239.9	0.024279	1.9	3.73	10.31	1.01
Chippewa	Upper	7102.331	18-May-90	6.9	239.11	239.71	239.71	239.89	0.024518	1.89	3.66	10.24	1.01
Chippewa	Upper	7102.331	27-Oct-91	3.1	239.11	239.52	239.52	239.65	0.027323	1.62	1.92	7.35	1.01
Chippewa	Upper	7084	25-Jul-77	10.5	238.41	238.77	238.91	239.22	0.135293	3.31	3.92	15.29	2.21
Chippewa	Upper	7084	15-Sep-78	8.1	238.41	238.74	238.84	239.08	0.122413	2.87	3.44	14.89	2.06
Chippewa	Upper	7084	29-Jul-86	8.9	238.41	238.75	238.86	239.12	0.124978	3.01	3.63	15.05	2.1
Chippewa	Upper	7084	10-Jun-89	7.1	238.41	238.72	238.81	239.02	0.120129	2.68	3.19	14.68	2.01
Chippewa	Upper	7084	18-May-90	6.9	238.41	238.72	238.81	239.01	0.119302	2.64	3.15	14.64	2

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7084	27-Oct-91	3.1	238.41	238.65	238.67	238.77	0.099893	1.7	2.07	14.16	1.67
Chippewa	Upper	7065	25-Jul-77	10.5	237.88	238.65	238.6	238.82	0.017544	1.94	6.31	12.65	0.9
Chippewa	Upper	7065	15-Sep-78	8.1	237.88	238.56	238.48	238.71	0.016349	1.82	5.23	11.04	0.86
Chippewa	Upper	7065	29-Jul-86	8.9	237.88	238.59	238.51	238.75	0.017128	1.86	5.6	11.74	0.88
Chippewa	Upper	7065	10-Jun-89	7.1	237.88	238.52	238.44	238.66	0.015519	1.74	4.82	10.56	0.84
Chippewa	Upper	7065	18-May-90	6.9	237.88	238.51	238.43	238.65	0.015321	1.72	4.74	10.46	0.83
Chippewa	Upper	7065	27-Oct-91	3.1	237.88	238.36	238.24	238.42	0.009695	1.15	3.21	9.24	0.63
Chippewa	Upper	7046	25-Jul-77	10.5	237.69	238.41		238.56	0.010114	1.73	6.45	12.91	0.71
Chippewa	Upper	7046	15-Sep-78	8.1	237.69	238.29		238.43	0.012139	1.66	5.03	12.11	0.75
Chippewa	Upper	7046	29-Jul-86	8.9	237.69	238.33		238.48	0.011337	1.68	5.51	12.43	0.73
Chippewa	Upper	7046	10-Jun-89	7.1	237.69	238.24		238.38	0.013317	1.62	4.45	10.66	0.77
Chippewa	Upper	7046	18-May-90	6.9	237.69	238.23		238.37	0.01359	1.61	4.34	10.43	0.78
Chippewa	Upper	7046	27-Oct-91	3.1	237.69	238.01	238.01	238.12	0.026036	1.44	2.15	9.5	0.97
Chippewa	Upper	7028	25-Jul-77	10.5	237.4	238.31		238.41	0.005653	1.5	8.31	11.43	0.54
Chippewa	Upper	7028	15-Sep-78	8.1	237.4	238.18		238.27	0.005826	1.37	6.93	10.96	0.54
Chippewa	Upper	7028	29-Jul-86	8.9	237.4	238.23		238.32	0.005747	1.42	7.41	11.14	0.54
Chippewa	Upper	7028	10-Jun-89	7.1	237.4	238.13		238.21	0.005821	1.31	6.34	10.63	0.53
Chippewa	Upper	7028	18-May-90	6.9	237.4	238.12		238.19	0.00582	1.29	6.23	10.57	0.53
Chippewa	Upper	7028	27-Oct-91	3.1	237.4	237.86		237.91	0.005866	0.97	3.68	9.6	0.5
Chippewa	Upper	7005.654	25-Jul-77	10.5	237.19	237.91	237.88	238.19	0.018784	2.32	4.52	7.18	0.93
Chippewa	Upper	7005.654	15-Sep-78	8.1	237.19	237.8	237.78	238.04	0.02021	2.17	3.73	6.98	0.95
Chippewa	Upper	7005.654	29-Jul-86	8.9	237.19	237.84	237.81	238.09	0.019824	2.23	3.99	7.04	0.95
Chippewa	Upper	7005.654	10-Jun-89	7.1	237.19	237.75	237.73	237.97	0.021132	2.11	3.37	6.88	0.96
Chippewa	Upper	7005.654	18-May-90	6.9	237.19	237.74	237.72	237.96	0.021299	2.09	3.3	6.84	0.96
Chippewa	Upper	7005.654	27-Oct-91	3.1	237.19	237.51	237.51	237.66	0.026587	1.7	1.83	6.28	1
Chippewa	Upper	6979	25-Jul-77	10.5	236.69	237.37	237.37	237.66	0.021478	2.37	4.42	7.72	1
Chippewa	Upper	6979	15-Sep-78	8.1	236.69	237.3	237.27	237.52	0.018514	2.07	3.92	7.55	0.92
Chippewa	Upper	6979	29-Jul-86	8.9	236.69	237.33	237.31	237.57	0.019577	2.18	4.09	7.61	0.95
Chippewa	Upper	6979	10-Jun-89	7.1	236.69	237.27	237.23	237.46	0.017241	1.93	3.68	7.48	0.88
Chippewa	Upper	6979	18-May-90	6.9	236.69	237.27	237.22	237.45	0.016985	1.9	3.63	7.46	0.87
Chippewa	Upper	6979	27-Oct-91	3.1	236.69	237.1	237.02	237.18	0.01181	1.28	2.43	7	0.69
Chippewa	Upper	6950	25-Jul-77	10.5	236.42	237.13		237.25	0.008297	1.53	6.89	11.84	0.63
Chippewa	Upper	6950	15-Sep-78	8.1	236.42	237.03		237.13	0.009079	1.42	5.69	11.55	0.64
Chippewa	Upper	6950	29-Jul-86	8.9	236.42	237.06		237.17	0.008757	1.46	6.11	11.64	0.64
Chippewa	Upper	6950	10-Jun-89	7.1	236.42	236.98		237.08	0.009531	1.37	5.17	11.44	0.65
Chippewa	Upper	6950	18-May-90	6.9	236.42	236.97		237.06	0.009652	1.36	5.06	11.41	0.65
Chippewa	Upper	6950	27-Oct-91	3.1	236.42	236.76		236.83	0.012882	1.12	2.77	10.52	0.69
Chippewa	Upper	6926	25-Jul-77	10.5	236.06	236.88		237.03	0.009501	1.7	6.17	9.62	0.68
Chippewa	Upper	6926	15-Sep-78	8.1	236.06	236.78		236.9	0.009376	1.56	5.21	9.25	0.66
Chippewa	Upper	6926	29-Jul-86	8.9	236.06	236.81		236.95	0.009449	1.61	5.54	9.41	0.67
Chippewa	Upper	6926	10-Jun-89	7.1	236.06	236.73		236.85	0.009303	1.48	4.78	9.09	0.65
Chippewa	Upper	6926	18-May-90	6.9	236.06	236.72		236.83	0.009272	1.47	4.69	9.03	0.65
Chippewa	Upper	6926	27-Oct-91	3.1	236.06	236.51		236.57	0.008738	1.09	2.85	8.34	0.6
Chippewa	Upper	6900.694	25-Jul-77	10.5	235.63	236.38	236.38	236.65	0.023213	2.31	4.54	8.46	1.01
Chippewa	Upper	6900.694	15-Sep-78	8.1	235.63	236.29	236.29	236.52	0.02432	2.14	3.79	8.3	1.01
Chippewa	Upper	6900.694	29-Jul-86	8.9	235.63	236.32	236.32	236.57	0.023899	2.2	4.05	8.36	1.01
Chippewa	Upper	6900.694	10-Jun-89	7.1	235.63	236.25	236.25	236.47	0.024907	2.05	3.46	8.23	1.01
Chippewa	Upper	6900.694	18-May-90	6.9	235.63	236.24	236.24	236.45	0.025071	2.04	3.39	8.21	1.01
Chippewa	Upper	6900.694	27-Oct-91	3.1	235.63	236.06	236.06	236.19	0.028656	1.59	1.95	7.73	1.01
Chippewa	Upper	6881	25-Jul-77	10.5	235.29	236.01	235.94	236.21	0.015603	2	5.24	9.32	0.85
Chippewa	Upper	6881	15-Sep-78	8.1	235.29	235.91	235.85	236.09	0.015812	1.85	4.39	8.96	0.84
Chippewa	Upper	6881	29-Jul-86	8.9	235.29	235.95	235.88	236.13	0.015743	1.9	4.68	9.1	0.85
Chippewa	Upper	6881	10-Jun-89	7.1	235.29	235.88	235.81	236.03	0.015207	1.75	4.07	8.8	0.82
Chippewa	Upper	6881	18-May-90	6.9	235.29	235.87	235.8	236.02	0.015082	1.72	4	8.76	0.81
Chippewa	Upper	6881	27-Oct-91	3.1	235.29	235.69	235.62	235.77	0.012216	1.22	2.53	7.97	0.69
Chippewa	Upper	6862	25-Jul-77	10.5	234.96	235.72		235.92	0.015398	1.96	5.35	9.66	0.84
Chippewa	Upper	6862	15-Sep-78	8.1	234.96	235.64		235.8	0.014343	1.76	4.59	9.23	0.8
Chippewa	Upper	6862	29-Jul-86	8.9	234.96	235.67		235.84	0.014673	1.84	4.85	9.35	0.81

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	6862	10-Jun-89	7.1	234.96	235.58		235.74	0.016138	1.75	4.05	9.03	0.83
Chippewa	Upper	6862	18-May-90	6.9	234.96	235.57		235.72	0.016322	1.74	3.96	9	0.84
Chippewa	Upper	6862	27-Oct-91	3.1	234.96	235.35	235.33	235.46	0.022383	1.47	2.11	7.92	0.91
Chippewa	Upper	6837	25-Jul-77	10.5	234.62	235.51	235.29	235.63	0.007822	1.5	7.13	13.02	0.61
Chippewa	Upper	6837	15-Sep-78	8.1	234.62	235.41	235.19	235.51	0.00854	1.39	5.84	12.04	0.62
Chippewa	Upper	6837	29-Jul-86	8.9	234.62	235.44	235.22	235.55	0.008302	1.43	6.27	12.81	0.62
Chippewa	Upper	6837	10-Jun-89	7.1	234.62	235.34	235.14	235.44	0.008301	1.4	5.09	9.69	0.62
Chippewa	Upper	6837	18-May-90	6.9	234.62	235.33	235.14	235.43	0.008339	1.39	4.96	9.56	0.62
Chippewa	Upper	6837	27-Oct-91	3.1	234.62	235.07		235.13	0.008257	1.1	2.82	7.75	0.58
Chippewa	Upper	6807.247	25-Jul-77	10.5	234.25	234.94	234.94	235.24	0.021771	2.4	4.37	7.5	1.01
Chippewa	Upper	6807.247	15-Sep-78	8.1	234.25	234.84	234.84	235.1	0.022653	2.24	3.62	7.19	1.01
Chippewa	Upper	6807.247	29-Jul-86	8.9	234.25	234.88	234.88	235.15	0.022335	2.3	3.88	7.3	1.01
Chippewa	Upper	6807.247	10-Jun-89	7.1	234.25	234.8	234.8	235.03	0.023145	2.15	3.3	7.06	1.01
Chippewa	Upper	6807.247	18-May-90	6.9	234.25	234.79	234.79	235.02	0.023245	2.14	3.23	7.03	1.01
Chippewa	Upper	6807.247	27-Oct-91	3.1	234.25	234.59	234.58	234.73	0.023909	1.62	1.91	6.51	0.96
Chippewa	Upper	6771	25-Jul-77	10.5	233.72	234.52	234.35	234.62	0.006305	1.45	9.65	26.32	0.57
Chippewa	Upper	6771	15-Sep-78	8.1	233.72	234.42	234.26	234.51	0.006944	1.37	7.2	21.94	0.58
Chippewa	Upper	6771	29-Jul-86	8.9	233.72	234.45	234.29	234.55	0.006781	1.4	7.96	23.85	0.58
Chippewa	Upper	6771	10-Jun-89	7.1	233.72	234.38	234.23	234.46	0.00717	1.31	6.28	19.42	0.58
Chippewa	Upper	6771	18-May-90	6.9	233.72	234.37	234.22	234.45	0.007084	1.3	6.16	19.2	0.58
Chippewa	Upper	6771	27-Oct-91	3.1	233.72	234.16		234.21	0.008798	1.01	3.13	10.91	0.59
Chippewa	Upper	6734.596	25-Jul-77	10.5	233.2	234.16	234.01	234.32	0.010442	1.79	5.85	9.08	0.71
Chippewa	Upper	6734.596	15-Sep-78	8.1	233.2	234.02	233.91	234.17	0.012296	1.74	4.66	8.54	0.75
Chippewa	Upper	6734.596	29-Jul-86	8.9	233.2	234.07	233.94	234.22	0.011571	1.76	5.06	8.66	0.74
Chippewa	Upper	6734.596	10-Jun-89	7.1	233.2	233.96	233.87	234.11	0.013169	1.7	4.18	8.34	0.77
Chippewa	Upper	6734.596	18-May-90	6.9	233.2	233.95	233.86	234.1	0.013704	1.71	4.04	8.29	0.78
Chippewa	Upper	6734.596	27-Oct-91	3.1	233.2	233.7	233.63	233.8	0.014237	1.43	2.17	5.99	0.76
Chippewa	Upper	6731.213	25-Jul-77	10.5	233.22	233.94	233.94	234.26	0.020977	2.48	4.24	8.28	1.01
Chippewa	Upper	6731.213	15-Sep-78	8.1	233.22	233.85	233.85	234.11	0.021871	2.27	3.57	7.88	1
Chippewa	Upper	6731.213	29-Jul-86	8.9	233.22	233.88	233.88	234.16	0.021381	2.33	3.82	8.02	1
Chippewa	Upper	6731.213	10-Jun-89	7.1	233.22	233.8	233.8	234.04	0.022562	2.18	3.26	7.68	1
Chippewa	Upper	6731.213	18-May-90	6.9	233.22	233.8	233.8	234.03	0.022082	2.14	3.22	7.66	0.99
Chippewa	Upper	6731.213	27-Oct-91	3.1	233.22	233.59	233.59	233.73	0.026491	1.68	1.85	6.63	1
Chippewa	Upper	6719.625		Culvert									
Chippewa	Upper	6708.875	25-Jul-77	10.5	232.98	233.79	233.7	234.02	0.012521	2.15	4.89	9.09	0.81
Chippewa	Upper	6708.875	15-Sep-78	8.1	232.98	233.75	233.6	233.9	0.008989	1.75	4.62	8.98	0.68
Chippewa	Upper	6708.875	29-Jul-86	8.9	232.98	233.77	233.63	233.95	0.009899	1.87	4.75	9.03	0.72
Chippewa	Upper	6708.875	10-Jun-89	7.1	232.98	233.72	233.55	233.85	0.007929	1.6	4.43	8.74	0.64
Chippewa	Upper	6708.875	18-May-90	6.9	232.98	233.71	233.55	233.84	0.007732	1.57	4.39	8.69	0.63
Chippewa	Upper	6708.875	27-Oct-91	3.1	232.98	233.54	233.35	233.59	0.004506	0.97	3.19	8.21	0.45
Chippewa	Upper	6704.835	25-Jul-77	10.5	233.06	233.72	233.72	233.96	0.022644	2.15	4.88	10.5	1.01
Chippewa	Upper	6704.835	15-Sep-78	8.1	233.06	233.64	233.64	233.84	0.023581	1.99	4.07	10.2	1.01
Chippewa	Upper	6704.835	29-Jul-86	8.9	233.06	233.67	233.67	233.88	0.023431	2.05	4.33	10.3	1.01
Chippewa	Upper	6704.835	10-Jun-89	7.1	233.06	233.61	233.61	233.79	0.024401	1.92	3.7	10.05	1.01
Chippewa	Upper	6704.835	18-May-90	6.9	233.06	233.6	233.6	233.78	0.024557	1.9	3.62	10.02	1.01
Chippewa	Upper	6704.835	27-Oct-91	3.1	233.06	233.46		233.55	0.017199	1.33	2.33	8.5	0.81
Chippewa	Upper	6671	25-Jul-77	10.5	232.5	233.24	233.11	233.37	0.010591	1.76	8.46	17.24	0.72
Chippewa	Upper	6671	15-Sep-78	8.1	232.5	233.13	233.03	233.25	0.011602	1.66	6.76	15.73	0.73
Chippewa	Upper	6671	29-Jul-86	8.9	232.5	233.17	233.06	233.29	0.011411	1.71	7.32	15.9	0.73
Chippewa	Upper	6671	10-Jun-89	7.1	232.5	233.09	233	233.2	0.012318	1.62	6.03	15.22	0.75
Chippewa	Upper	6671	18-May-90	6.9	232.5	233.08	232.99	233.19	0.012458	1.61	5.88	15.13	0.75
Chippewa	Upper	6671	27-Oct-91	3.1	232.5	232.87	232.84	232.95	0.01853	1.38	2.96	13.26	0.84
Chippewa	Upper	6654	25-Jul-77	10.5	232.04	232.89	232.85	233.13	0.017907	2.18	4.82	8.4	0.92
Chippewa	Upper	6654	15-Sep-78	8.1	232.04	232.76	232.74	232.99	0.019652	2.11	3.84	7.53	0.94
Chippewa	Upper	6654	29-Jul-86	8.9	232.04	232.81	232.77	233.04	0.019	2.14	4.15	7.73	0.93
Chippewa	Upper	6654	10-Jun-89	7.1	232.04	232.71	232.69	232.93	0.020384	2.06	3.45	7.23	0.95
Chippewa	Upper	6654	18-May-90	6.9	232.04	232.7	232.68	232.91	0.020477	2.05	3.37	7.15	0.95
Chippewa	Upper	6654	27-Oct-91	3.1	232.04	232.46	232.45	232.61	0.023204	1.69	1.83	5.73	0.96

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	6625	25-Jul-77	10.5	231.61	232.59		232.75	0.008762	1.74	6.03	8.44	0.66
Chippewa	Upper	6625	15-Sep-78	8.1	231.61	232.48		232.61	0.008225	1.59	5.08	7.79	0.63
Chippewa	Upper	6625	29-Jul-86	8.9	231.61	232.52		232.65	0.008406	1.65	5.4	7.97	0.64
Chippewa	Upper	6625	10-Jun-89	7.1	231.61	232.42		232.54	0.008097	1.52	4.67	7.6	0.62
Chippewa	Upper	6625	18-May-90	6.9	231.61	232.41		232.53	0.008123	1.51	4.58	7.56	0.62
Chippewa	Upper	6625	27-Oct-91	3.1	231.61	232.14		232.21	0.007902	1.15	2.7	6.63	0.58
Chippewa	Upper	6599	25-Jul-77	10.5	231.41	232.12	232.12	232.4	0.022127	2.34	4.48	8.12	1.01
Chippewa	Upper	6599	15-Sep-78	8.1	231.41	232.02	232.02	232.26	0.023081	2.17	3.73	7.91	1.01
Chippewa	Upper	6599	29-Jul-86	8.9	231.41	232.05	232.05	232.31	0.022755	2.23	3.98	7.97	1.01
Chippewa	Upper	6599	10-Jun-89	7.1	231.41	231.98	231.98	232.2	0.022976	2.07	3.43	7.82	1
Chippewa	Upper	6599	18-May-90	6.9	231.41	231.98	231.97	232.19	0.022567	2.03	3.39	7.81	0.99
Chippewa	Upper	6599	27-Oct-91	3.1	231.41	231.83	231.79	231.93	0.016272	1.37	2.26	7.49	0.8
Chippewa	Upper	6555.7	25-Jul-77	10.5	230.57	231.34	231.24	231.51	0.012994	1.83	5.75	9.9	0.77
Chippewa	Upper	6555.7	15-Sep-78	8.1	230.57	231.22	231.16	231.38	0.015425	1.75	4.62	9.74	0.81
Chippewa	Upper	6555.7	29-Jul-86	8.9	230.57	231.26	231.19	231.42	0.014523	1.78	5	9.8	0.8
Chippewa	Upper	6555.7	10-Jun-89	7.1	230.57	231.17		231.32	0.016759	1.71	4.15	9.68	0.84
Chippewa	Upper	6555.7	18-May-90	6.9	230.57	231.16		231.31	0.017062	1.7	4.05	9.66	0.84
Chippewa	Upper	6555.7	27-Oct-91	3.1	230.57	230.93	230.92	231.05	0.024766	1.52	2.04	7.75	0.95
Chippewa	Upper	6532	25-Jul-77	10.5	230.16	230.93		231.17	0.01526	2.16	4.85	7.27	0.85
Chippewa	Upper	6532	15-Sep-78	8.1	230.16	230.84		231.03	0.013939	1.92	4.22	7.13	0.8
Chippewa	Upper	6532	29-Jul-86	8.9	230.16	230.87		231.08	0.014331	2	4.44	7.18	0.81
Chippewa	Upper	6532	10-Jun-89	7.1	230.16	230.8		230.97	0.013417	1.81	3.92	7.06	0.78
Chippewa	Upper	6532	18-May-90	6.9	230.16	230.79		230.95	0.013307	1.79	3.86	7.04	0.77
Chippewa	Upper	6532	27-Oct-91	3.1	230.16	230.59		230.67	0.010713	1.26	2.47	6.67	0.66
Chippewa	Upper	6503	25-Jul-77	10.5	229.72	230.58	230.47	230.74	0.012859	1.8	5.83	10.15	0.76
Chippewa	Upper	6503	15-Sep-78	8.1	229.72	230.48	230.39	230.62	0.013161	1.65	4.9	9.93	0.75
Chippewa	Upper	6503	29-Jul-86	8.9	229.72	230.52	230.42	230.66	0.013041	1.71	5.22	10.01	0.75
Chippewa	Upper	6503	10-Jun-89	7.1	229.72	230.44	230.36	230.57	0.013135	1.58	4.51	9.82	0.74
Chippewa	Upper	6503	18-May-90	6.9	229.72	230.44	230.35	230.56	0.013138	1.56	4.42	9.79	0.74
Chippewa	Upper	6503	27-Oct-91	3.1	229.72	230.24	230.17	230.31	0.014283	1.22	2.53	8.71	0.72
Chippewa	Upper	6483	25-Jul-77	10.5	229.43	230.13	230.13	230.4	0.022815	2.28	4.6	8.72	1.01
Chippewa	Upper	6483	15-Sep-78	8.1	229.43	230.04	230.04	230.27	0.023739	2.11	3.85	8.57	1
Chippewa	Upper	6483	29-Jul-86	8.9	229.43	230.07	230.07	230.31	0.023492	2.17	4.1	8.62	1.01
Chippewa	Upper	6483	10-Jun-89	7.1	229.43	230	230	230.21	0.024583	2.03	3.5	8.49	1.01
Chippewa	Upper	6483	18-May-90	6.9	229.43	229.99	229.99	230.2	0.024728	2.01	3.43	8.48	1.01
Chippewa	Upper	6483	27-Oct-91	3.1	229.43	229.79	229.79	229.93	0.025813	1.62	1.91	6.85	0.98
Chippewa	Upper	6460	25-Jul-77	10.5	229.08	229.73	229.66	229.93	0.014664	1.96	5.35	9.33	0.83
Chippewa	Upper	6460	15-Sep-78	8.1	229.08	229.65	229.57	229.81	0.014336	1.77	4.57	9.2	0.8
Chippewa	Upper	6460	29-Jul-86	8.9	229.08	229.68	229.6	229.85	0.01445	1.84	4.84	9.24	0.81
Chippewa	Upper	6460	10-Jun-89	7.1	229.08	229.61	229.54	229.75	0.014208	1.68	4.22	9.15	0.79
Chippewa	Upper	6460	18-May-90	6.9	229.08	229.6	229.53	229.74	0.014179	1.66	4.14	9.13	0.79
Chippewa	Upper	6460	27-Oct-91	3.1	229.08	229.42		229.49	0.013595	1.23	2.52	8.58	0.73
Chippewa	Upper	6441	25-Jul-77	10.5	228.85	229.48		229.65	0.013008	1.82	5.78	10.46	0.78
Chippewa	Upper	6441	15-Sep-78	8.1	228.85	229.4		229.54	0.012775	1.65	4.92	10.24	0.76
Chippewa	Upper	6441	29-Jul-86	8.9	228.85	229.43		229.58	0.012829	1.7	5.22	10.32	0.77
Chippewa	Upper	6441	10-Jun-89	7.1	228.85	229.36		229.49	0.012657	1.56	4.54	10.14	0.75
Chippewa	Upper	6441	18-May-90	6.9	228.85	229.36		229.48	0.012644	1.55	4.46	10.12	0.74
Chippewa	Upper	6441	27-Oct-91	3.1	228.85	229.18		229.25	0.011846	1.12	2.76	9.75	0.67
Chippewa	Upper	6415.685	25-Jul-77	10.5	228.57	229.18		229.33	0.012026	1.72	6.1	11.26	0.75
Chippewa	Upper	6415.685	15-Sep-78	8.1	228.57	229.1		229.22	0.012136	1.57	5.17	11.1	0.73
Chippewa	Upper	6415.685	29-Jul-86	8.9	228.57	229.12		229.26	0.012228	1.63	5.47	11.14	0.74
Chippewa	Upper	6415.685	10-Jun-89	7.1	228.57	229.06		229.17	0.012203	1.49	4.75	11.03	0.73
Chippewa	Upper	6415.685	18-May-90	6.9	228.57	229.05		229.16	0.01222	1.48	4.66	11.02	0.73
Chippewa	Upper	6415.685	27-Oct-91	3.1	228.57	228.88		228.94	0.012102	1.09	2.85	10.71	0.67
Chippewa	Upper	6390	25-Jul-77	10.5	228.26	228.86		229.01	0.013079	1.73	6.28	14.05	0.78
Chippewa	Upper	6390	15-Sep-78	8.1	228.26	228.81		228.92	0.01139	1.5	5.53	13.12	0.71
Chippewa	Upper	6390	29-Jul-86	8.9	228.26	228.83		228.95	0.01142	1.56	5.88	13.56	0.72
Chippewa	Upper	6390	10-Jun-89	7.1	228.26	228.76		228.87	0.011436	1.45	5	12.07	0.71

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	6390	18-May-90	6.9	228.26	228.76		228.86	0.01138	1.43	4.91	12.03	0.7
Chippewa	Upper	6390	27-Oct-91	3.1	228.26	228.58		228.64	0.01154	1.07	2.92	11.21	0.66
Chippewa	Upper	6360	25-Jul-77	10.5	227.64	228.35	228.34	228.53	0.01936	1.94	6.34	19.05	0.93
Chippewa	Upper	6360	15-Sep-78	8.1	227.64	228.26	228.26	228.43	0.023296	1.87	4.85	15.82	0.99
Chippewa	Upper	6360	29-Jul-86	8.9	227.64	228.28	228.28	228.47	0.023536	1.94	5.19	16.56	1
Chippewa	Upper	6360	10-Jun-89	7.1	227.64	228.23	228.23	228.39	0.022568	1.79	4.4	15.09	0.97
Chippewa	Upper	6360	18-May-90	6.9	227.64	228.23	228.23	228.38	0.022741	1.78	4.28	14.89	0.97
Chippewa	Upper	6360	27-Oct-91	3.1	227.64	227.99	227.99	228.13	0.026129	1.65	1.9	7.08	1
Chippewa	Upper	6321.078	25-Jul-77	10.5	227.21	228.19		228.25	0.003053	1.15	11.15	20.46	0.41
Chippewa	Upper	6321.078	15-Sep-78	8.1	227.21	228.06	227.72	228.11	0.003255	1.08	8.6	18.82	0.41
Chippewa	Upper	6321.078	29-Jul-86	8.9	227.21	228.1	227.75	228.16	0.003175	1.11	9.49	19.33	0.41
Chippewa	Upper	6321.078	10-Jun-89	7.1	227.21	228	227.68	228.05	0.003226	1.04	7.6	16.78	0.4
Chippewa	Upper	6321.078	18-May-90	6.9	227.21	227.99	227.68	228.04	0.003218	1.03	7.41	16.46	0.4
Chippewa	Upper	6321.078	27-Oct-91	3.1	227.21	227.75	227.51	227.78	0.002674	0.72	4.4	11.3	0.34
Chippewa	Upper	6294	25-Jul-77	10.5	227.12	228.13		228.17	0.00251	0.93	13.4	19.76	0.36
Chippewa	Upper	6294	15-Sep-78	8.1	227.12	227.99		228.02	0.002976	0.89	10.69	18.47	0.38
Chippewa	Upper	6294	29-Jul-86	8.9	227.12	228.04		228.08	0.00278	0.91	11.64	19.08	0.37
Chippewa	Upper	6294	10-Jun-89	7.1	227.12	227.93		227.96	0.003228	0.87	9.57	18.09	0.39
Chippewa	Upper	6294	18-May-90	6.9	227.12	227.92		227.95	0.003285	0.87	9.34	18.01	0.39
Chippewa	Upper	6294	27-Oct-91	3.1	227.12	227.65		227.68	0.005276	0.77	4.8	15.85	0.46
Chippewa	Upper	6259	25-Jul-77	10.5	226.91	227.88		228.02	0.007854	1.73	7.11	9.47	0.64
Chippewa	Upper	6259	15-Sep-78	8.1	226.91	227.73		227.86	0.007698	1.64	5.8	8.42	0.62
Chippewa	Upper	6259	29-Jul-86	8.9	226.91	227.79		227.92	0.007836	1.67	6.27	8.91	0.63
Chippewa	Upper	6259	10-Jun-89	7.1	226.91	227.67		227.79	0.007685	1.57	5.31	8.25	0.62
Chippewa	Upper	6259	18-May-90	6.9	226.91	227.66		227.77	0.007669	1.56	5.21	8.22	0.62
Chippewa	Upper	6259	27-Oct-91	3.1	226.91	227.4		227.46	0.007355	1.16	3.11	7.61	0.57
Chippewa	Upper	6230.745	25-Jul-77	10.5	226.57	227.31	227.31	227.64	0.022648	2.54	4.14	6.36	1
Chippewa	Upper	6230.745	15-Sep-78	8.1	226.57	227.21	227.21	227.49	0.023413	2.34	3.46	6.25	1.01
Chippewa	Upper	6230.745	29-Jul-86	8.9	226.57	227.24	227.24	227.54	0.023151	2.41	3.69	6.29	1.01
Chippewa	Upper	6230.745	10-Jun-89	7.1	226.57	227.16	227.16	227.42	0.023762	2.25	3.16	6.2	1.01
Chippewa	Upper	6230.745	18-May-90	6.9	226.57	227.15	227.15	227.4	0.023927	2.23	3.1	6.19	1.01
Chippewa	Upper	6230.745	27-Oct-91	3.1	226.57	226.93	226.93	227.09	0.027022	1.73	1.79	5.96	1.01
Chippewa	Upper	6124.677	25-Jul-77	13.5	225.53	227.06	226.4	227.12	0.001748	1.18	14.86	19.11	0.33
Chippewa	Upper	6124.677	15-Sep-78	10.3	225.53	226.86	226.3	226.92	0.001866	1.09	11.41	15.74	0.33
Chippewa	Upper	6124.677	29-Jul-86	10.9	225.53	226.9	226.32	226.96	0.001843	1.11	12.03	16.12	0.33
Chippewa	Upper	6124.677	10-Jun-89	9.2	225.53	226.79	226.26	226.84	0.0019	1.05	10.3	14.81	0.33
Chippewa	Upper	6124.677	18-May-90	7	225.53	226.63	226.14	226.68	0.001921	0.95	8.25	12.5	0.32
Chippewa	Upper	6124.677	27-Oct-91	3.9	225.53	226.39	225.96	226.42	0.001844	0.75	5.4	10.12	0.3
Chippewa	Upper	6121.113	25-Jul-77	13.5	225.57	226.67	226.67	227.07	0.018513	2.82	4.78	13.48	1
Chippewa	Upper	6121.113	15-Sep-78	10.3	225.57	226.53	226.53	226.87	0.01963	2.58	4	11.83	1
Chippewa	Upper	6121.113	29-Jul-86	10.9	225.57	226.56	226.56	226.91	0.019416	2.63	4.15	12.19	1
Chippewa	Upper	6121.113	10-Jun-89	9.2	225.57	226.48	226.48	226.8	0.020143	2.48	3.71	11.03	1
Chippewa	Upper	6121.113	18-May-90	7	225.57	226.38	226.38	226.64	0.021455	2.27	3.09	10.41	1
Chippewa	Upper	6121.113	27-Oct-91	3.9	225.57	226.21	226.21	226.39	0.02433	1.86	2.09	9.61	1
Chippewa	Upper	6111.608		Culvert									
Chippewa	Upper	6097.608	25-Jul-77	13.5	225.31	226.16	226.16	226.57	0.01815	2.82	4.78	8.35	1
Chippewa	Upper	6097.608	15-Sep-78	10.3	225.31	226.03	226.03	226.36	0.019214	2.58	4	8.17	1
Chippewa	Upper	6097.608	29-Jul-86	10.9	225.31	226.05	226.05	226.4	0.018933	2.63	4.15	8.21	1
Chippewa	Upper	6097.608	10-Jun-89	9.2	225.31	225.98	225.98	226.29	0.019582	2.48	3.71	8.11	0.99
Chippewa	Upper	6097.608	18-May-90	7	225.31	225.87	225.87	226.13	0.020956	2.27	3.09	7.95	1
Chippewa	Upper	6097.608	27-Oct-91	3.9	225.31	225.7	225.7	225.88	0.023607	1.86	2.1	7.54	0.99
Chippewa	Upper	6089.896	25-Jul-77	13.5	225.15	226.13	225.84	226.23	0.005072	1.4	9.63	12.81	0.52
Chippewa	Upper	6089.896	15-Sep-78	10.3	225.15	226	225.74	226.08	0.005388	1.3	7.95	12.44	0.52
Chippewa	Upper	6089.896	29-Jul-86	10.9	225.15	226.02	225.76	226.11	0.005341	1.32	8.27	12.53	0.52
Chippewa	Upper	6089.896	10-Jun-89	9.2	225.15	225.95	225.7	226.03	0.005461	1.25	7.35	12.29	0.52
Chippewa	Upper	6089.896	18-May-90	7	225.15	225.84	225.62	225.91	0.005711	1.15	6.06	11.87	0.52
Chippewa	Upper	6089.896	27-Oct-91	3.9	225.15	225.65	225.49	225.7	0.006182	1	3.88	9.95	0.51

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	6011.766	25-Jul-77	13.5	224.62	225.63		225.77	0.006825	1.69	8.56	13.55	0.6
Chippewa	Upper	6011.766	15-Sep-78	10.3	224.62	225.55		225.66	0.005528	1.43	7.59	13.05	0.53
Chippewa	Upper	6011.766	29-Jul-86	10.9	224.62	225.57		225.68	0.005642	1.47	7.85	13.18	0.54
Chippewa	Upper	6011.766	10-Jun-89	9.2	224.62	225.51		225.6	0.005464	1.36	7.02	12.56	0.52
Chippewa	Upper	6011.766	18-May-90	7	224.62	225.39		225.47	0.00551	1.25	5.67	10.83	0.51
Chippewa	Upper	6011.766	27-Oct-91	3.9	224.62	225.19		225.24	0.005526	1.04	3.76	8.36	0.49
Chippewa	Upper	5926.329	25-Jul-77	13.5	224.08	225.14		225.26	0.005204	1.58	12.24	31.57	0.53
Chippewa	Upper	5926.329	15-Sep-78	10.3	224.08	224.94		225.08	0.00816	1.67	6.7	18.44	0.64
Chippewa	Upper	5926.329	29-Jul-86	10.9	224.08	224.97	224.79	225.11	0.007921	1.69	7.28	23.31	0.64
Chippewa	Upper	5926.329	10-Jun-89	9.2	224.08	224.9		225.03	0.008352	1.61	5.97	14.25	0.64
Chippewa	Upper	5926.329	18-May-90	7	224.08	224.8		224.91	0.008049	1.44	4.89	9.14	0.62
Chippewa	Upper	5926.329	27-Oct-91	3.9	224.08	224.62		224.69	0.007536	1.16	3.36	7.92	0.57
Chippewa	Upper	5839.01	25-Jul-77	13.5	223.39	225.01		225.05	0.001159	0.96	22.61	32.5	0.27
Chippewa	Upper	5839.01	15-Sep-78	10.3	223.39	224.69		224.74	0.00208	1.07	13.38	24.8	0.34
Chippewa	Upper	5839.01	29-Jul-86	10.9	223.39	224.75		224.8	0.001821	1.04	14.98	26.07	0.32
Chippewa	Upper	5839.01	10-Jun-89	9.2	223.39	224.57		224.63	0.002642	1.13	10.61	23.14	0.38
Chippewa	Upper	5839.01	18-May-90	7	223.39	224.35		224.42	0.004017	1.19	6.28	11.6	0.45
Chippewa	Upper	5839.01	27-Oct-91	3.9	223.39	224.07		224.13	0.005573	1.08	3.62	7.61	0.5
Chippewa	Upper	5782.729	25-Jul-77	13.5	222.98	224.95		225	0.001028	1.07	22.27	38.46	0.26
Chippewa	Upper	5782.729	15-Sep-78	10.3	222.98	224.57		224.64	0.00173	1.17	10.41	14.64	0.32
Chippewa	Upper	5782.729	29-Jul-86	10.9	222.98	224.64		224.71	0.001606	1.17	11.86	26.07	0.31
Chippewa	Upper	5782.729	10-Jun-89	9.2	222.98	224.44		224.51	0.001971	1.17	8.93	10.1	0.34
Chippewa	Upper	5782.729	18-May-90	7	222.98	224.16		224.23	0.002871	1.18	6.24	8.92	0.39
Chippewa	Upper	5782.729	27-Oct-91	3.9	222.98	223.71		223.79	0.00652	1.26	3.1	5.62	0.54
Chippewa	Upper	5779.311	25-Jul-77	13.5	222.85	224.63	224.14	224.96	0.005315	2.56	5.28	13.89	0.62
Chippewa	Upper	5779.311	15-Sep-78	10.3	222.85	224.32	223.93	224.6	0.005849	2.36	4.36	7.05	0.63
Chippewa	Upper	5779.311	29-Jul-86	10.9	222.85	224.38	223.97	224.67	0.005733	2.4	4.54	7.51	0.62
Chippewa	Upper	5779.311	10-Jun-89	9.2	222.85	224.21	223.85	224.47	0.006092	2.29	4.02	6.53	0.63
Chippewa	Upper	5779.311	18-May-90	7	222.85	223.97	223.69	224.2	0.006764	2.12	3.31	5.55	0.64
Chippewa	Upper	5779.311	27-Oct-91	3.9	222.85	223.59	223.42	223.75	0.008612	1.8	2.17	4.46	0.68
Chippewa	Upper	5768.878		Culvert									
Chippewa	Upper	5757.878	25-Jul-77	13.5	222.83	224.13	224.13	224.76	0.015403	3.53	3.82	9.87	1
Chippewa	Upper	5757.878	15-Sep-78	10.3	222.83	223.92	223.92	224.45	0.016358	3.23	3.19	8.99	1
Chippewa	Upper	5757.878	29-Jul-86	10.9	222.83	223.96	223.96	224.51	0.016088	3.28	3.32	9.13	1
Chippewa	Upper	5757.878	10-Jun-89	9.2	222.83	223.84	223.84	224.33	0.01682	3.11	2.96	8.62	1
Chippewa	Upper	5757.878	18-May-90	7	222.83	223.68	223.68	224.09	0.017859	2.84	2.47	7.83	1
Chippewa	Upper	5757.878	27-Oct-91	3.9	222.83	223.41	223.41	223.69	0.020135	2.33	1.67	6.95	1
Chippewa	Upper	5751.783	25-Jul-77	13.5	222.84	223.36	223.67	224.43	0.12771	4.58	2.95	7.41	2.32
Chippewa	Upper	5751.783	15-Sep-78	10.3	222.84	223.3	223.55	224.14	0.116699	4.06	2.54	7.14	2.18
Chippewa	Upper	5751.783	29-Jul-86	10.9	222.84	223.31	223.57	224.2	0.11908	4.17	2.62	7.2	2.21
Chippewa	Upper	5751.783	10-Jun-89	9.2	222.84	223.28	223.5	224.04	0.111995	3.86	2.38	7.04	2.12
Chippewa	Upper	5751.783	18-May-90	7	222.84	223.24	223.41	223.82	0.099491	3.38	2.07	6.83	1.96
Chippewa	Upper	5751.783	27-Oct-91	3.9	222.84	223.16	223.25	223.47	0.070685	2.45	1.59	6.59	1.6
Chippewa	Upper	5737	25-Jul-77	13.5	222.53	223.31	223.34	223.62	0.023605	2.62	6.39	12.04	1.08
Chippewa	Upper	5737	15-Sep-78	10.3	222.53	223.24	223.24	223.48	0.020802	2.29	5.54	11.85	0.99
Chippewa	Upper	5737	29-Jul-86	10.9	222.53	223.26	223.26	223.51	0.020796	2.33	5.76	11.9	1
Chippewa	Upper	5737	10-Jun-89	9.2	222.53	223.2	223.2	223.43	0.020917	2.21	5.11	11.74	0.99
Chippewa	Upper	5737	18-May-90	7	222.53	223.12	223.12	223.31	0.020889	2.02	4.19	11.35	0.97
Chippewa	Upper	5737	27-Oct-91	3.9	222.53	222.94	222.94	223.12	0.031342	1.93	2.25	8.42	1.11
Chippewa	Upper	5712	25-Jul-77	13.5	221.9	222.75	222.65	222.96	0.012861	2.08	7.23	11.33	0.81
Chippewa	Upper	5712	15-Sep-78	10.3	221.9	222.64	222.54	222.81	0.012538	1.89	6.05	10.78	0.79
Chippewa	Upper	5712	29-Jul-86	10.9	221.9	222.66	222.56	222.84	0.01259	1.93	6.28	10.9	0.79
Chippewa	Upper	5712	10-Jun-89	9.2	221.9	222.6	222.5	222.76	0.012279	1.81	5.64	10.57	0.77
Chippewa	Upper	5712	18-May-90	7	221.9	222.52	222.41	222.65	0.011676	1.61	4.78	10.22	0.74
Chippewa	Upper	5712	27-Oct-91	3.9	221.9	222.34	222.27	222.44	0.012942	1.38	3.08	9.08	0.74
Chippewa	Upper	5685	25-Jul-77	13.5	221.59	222.59		222.7	0.005837	1.51	10.35	15.26	0.56
Chippewa	Upper	5685	15-Sep-78	10.3	221.59	222.47		222.56	0.006268	1.39	8.48	14.22	0.56
Chippewa	Upper	5685	29-Jul-86	10.9	221.59	222.49		222.59	0.006235	1.42	8.82	14.51	0.56

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	5685	10-Jun-89	9.2	221.59	222.42		222.51	0.006385	1.33	7.85	13.98	0.56
Chippewa	Upper	5685	18-May-90	7	221.59	222.32		222.39	0.006839	1.22	6.48	13.45	0.56
Chippewa	Upper	5685	27-Oct-91	3.9	221.59	222.11		222.16	0.00759	1.12	3.94	10.26	0.57
Chippewa	Upper	5669	25-Jul-77	13.5	221.45	222.5		222.6	0.006053	1.53	11.29	17.04	0.57
Chippewa	Upper	5669	15-Sep-78	10.3	221.45	222.36		222.45	0.007221	1.44	8.87	16.43	0.6
Chippewa	Upper	5669	29-Jul-86	10.9	221.45	222.39		222.48	0.007006	1.46	9.31	16.6	0.59
Chippewa	Upper	5669	10-Jun-89	9.2	221.45	222.31		222.39	0.007752	1.4	8.03	16.11	0.61
Chippewa	Upper	5669	18-May-90	7	221.45	222.19		222.27	0.008715	1.33	6.33	12.83	0.63
Chippewa	Upper	5669	27-Oct-91	3.9	221.45	221.96		222.02	0.009993	1.27	3.8	9.6	0.66
Chippewa	Upper	5628.392	25-Jul-77	13.5	220.89	221.81	221.81	222.16	0.020979	2.6	5.19	7.67	1.01
Chippewa	Upper	5628.392	15-Sep-78	10.3	220.89	221.73	221.69	221.99	0.01768	2.25	4.58	7.41	0.91
Chippewa	Upper	5628.392	29-Jul-86	10.9	220.89	221.75	221.71	222.02	0.018301	2.32	4.7	7.46	0.93
Chippewa	Upper	5628.392	10-Jun-89	9.2	220.89	221.7	221.64	221.93	0.016604	2.13	4.33	7.29	0.88
Chippewa	Upper	5628.392	18-May-90	7	220.89	221.61	221.54	221.79	0.015172	1.89	3.7	6.96	0.83
Chippewa	Upper	5628.392	27-Oct-91	3.9	220.89	221.45	221.36	221.56	0.012601	1.47	2.64	6.35	0.73
Chippewa	Upper	5601	25-Jul-77	13.5	220.65	221.45	221.39	221.66	0.013144	2.1	7.52	18.16	0.82
Chippewa	Upper	5601	15-Sep-78	10.3	220.65	221.31	221.26	221.52	0.015939	2.05	5.3	13.06	0.88
Chippewa	Upper	5601	29-Jul-86	10.9	220.65	221.34	221.28	221.55	0.015406	2.06	5.66	14.66	0.87
Chippewa	Upper	5601	10-Jun-89	9.2	220.65	221.26	221.22	221.46	0.017074	2.01	4.73	10.03	0.89
Chippewa	Upper	5601	18-May-90	7	220.65	221.16	221.13	221.34	0.018526	1.9	3.78	8.83	0.91
Chippewa	Upper	5601	27-Oct-91	3.9	220.65	221.01	220.99	221.14	0.020005	1.57	2.53	8.38	0.89
Chippewa	Upper	5550.496	25-Jul-77	13.5	220.28	221.38		221.42	0.00174	0.92	15.33	20.1	0.31
Chippewa	Upper	5550.496	15-Sep-78	10.3	220.28	221.22		221.26	0.00185	0.86	12.33	18.06	0.31
Chippewa	Upper	5550.496	29-Jul-86	10.9	220.28	221.25		221.29	0.001832	0.87	12.89	18.57	0.31
Chippewa	Upper	5550.496	10-Jun-89	9.2	220.28	221.16		221.2	0.001877	0.83	11.29	17.36	0.31
Chippewa	Upper	5550.496	18-May-90	7	220.28	221.02		221.05	0.002116	0.78	8.95	15.1	0.32
Chippewa	Upper	5550.496	27-Oct-91	3.9	220.28	220.79		220.81	0.002688	0.69	5.63	13.52	0.34
Chippewa	Upper	5499	25-Jul-77	13.5	219.99	221.2		221.29	0.00378	1.37	10.56	15.07	0.45
Chippewa	Upper	5499	15-Sep-78	10.3	219.99	221.04		221.12	0.003899	1.25	8.41	13.07	0.45
Chippewa	Upper	5499	29-Jul-86	10.9	219.99	221.07		221.15	0.003878	1.28	8.8	13.37	0.45
Chippewa	Upper	5499	10-Jun-89	9.2	219.99	220.98		221.06	0.003956	1.21	7.69	11.88	0.45
Chippewa	Upper	5499	18-May-90	7	219.99	220.84		220.91	0.003837	1.12	6.23	8.98	0.43
Chippewa	Upper	5499	27-Oct-91	3.9	219.99	220.61		220.65	0.00377	0.93	4.21	8.1	0.41
Chippewa	Upper	5463.066	25-Jul-77	13.5	219.73	220.65	220.65	221	0.018362	2.65	5.36	9.4	0.97
Chippewa	Upper	5463.066	15-Sep-78	10.3	219.73	220.52	220.52	220.83	0.020664	2.47	4.25	7.68	0.99
Chippewa	Upper	5463.066	29-Jul-86	10.9	219.73	220.54	220.54	220.86	0.020089	2.5	4.46	7.89	0.99
Chippewa	Upper	5463.066	10-Jun-89	9.2	219.73	220.47	220.47	220.76	0.021311	2.39	3.89	7.26	1
Chippewa	Upper	5463.066	18-May-90	7	219.73	220.35	220.35	220.61	0.022942	2.26	3.1	6.13	1.01
Chippewa	Upper	5463.066	27-Oct-91	3.9	219.73	220.17	220.17	220.35	0.02506	1.91	2.04	5.56	1.01
Chippewa	Upper	5448	25-Jul-77	13.5	219.39	220.59	220.15	220.7	0.003341	1.53	11.3	14.29	0.46
Chippewa	Upper	5448	15-Sep-78	10.3	219.39	220.48	220.03	220.56	0.002832	1.32	9.73	13.61	0.41
Chippewa	Upper	5448	29-Jul-86	10.9	219.39	220.51	220.06	220.59	0.0029	1.36	10.09	13.78	0.42
Chippewa	Upper	5448	10-Jun-89	9.2	219.39	220.43	219.99	220.51	0.002675	1.24	9.09	13.17	0.4
Chippewa	Upper	5448	18-May-90	7	219.39	220.31	219.9	220.37	0.002412	1.08	7.62	11.65	0.37
Chippewa	Upper	5448	27-Oct-91	3.9	219.39	220.1	219.75	220.14	0.001951	0.81	5.36	9.83	0.32
Chippewa	Upper	5435	25-Jul-77	13.5	219.39	220.55		220.65	0.004306	1.53	13.78	22.81	0.49
Chippewa	Upper	5435	15-Sep-78	10.3	219.39	220.44		220.52	0.004144	1.38	11.18	21.85	0.47
Chippewa	Upper	5435	29-Jul-86	10.9	219.39	220.46		220.55	0.004094	1.4	11.79	22.11	0.47
Chippewa	Upper	5435	10-Jun-89	9.2	219.39	220.38		220.46	0.004237	1.33	10.06	21.34	0.47
Chippewa	Upper	5435	18-May-90	7	219.39	220.27		220.33	0.004009	1.17	7.79	16.65	0.45
Chippewa	Upper	5435	27-Oct-91	3.9	219.39	220.06		220.1	0.003353	0.92	5.28	10.35	0.4
Chippewa	Upper	5423	25-Jul-77	13.5	219.37	220.29	220.29	220.55	0.014602	2.28	7.36	21.12	0.86
Chippewa	Upper	5423	15-Sep-78	10.3	219.37	220.14	220.14	220.4	0.02012	2.28	4.69	12.19	0.97
Chippewa	Upper	5423	29-Jul-86	10.9	219.37	220.16	220.16	220.43	0.019716	2.32	4.97	12.95	0.96
Chippewa	Upper	5423	10-Jun-89	9.2	219.37	220.09	220.09	220.35	0.021686	2.23	4.18	9.36	0.99
Chippewa	Upper	5423	18-May-90	7	219.37	220	220	220.22	0.023826	2.07	3.39	8	1
Chippewa	Upper	5423	27-Oct-91	3.9	219.37	219.84	219.84	220	0.027014	1.76	2.22	7.25	1.01
Chippewa	Upper	5399	25-Jul-77	13.5	218.7	219.3	219.47	219.89	0.059274	3.41	3.98	9.11	1.62

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	5399	15-Sep-78	10.3	218.7	219.25	219.37	219.68	0.048412	2.88	3.58	8.98	1.44
Chippewa	Upper	5399	29-Jul-86	10.9	218.7	219.27	219.39	219.71	0.048802	2.95	3.7	9.02	1.46
Chippewa	Upper	5399	10-Jun-89	9.2	218.7	219.23	219.33	219.61	0.045827	2.71	3.4	8.92	1.39
Chippewa	Upper	5399	18-May-90	7	218.7	219.17	219.25	219.47	0.041216	2.43	2.89	8.13	1.3
Chippewa	Upper	5399	27-Oct-91	3.9	218.7	219.06	219.09	219.25	0.037057	1.93	2.02	7.41	1.18
Chippewa	Upper	5373.361	25-Jul-77	13.5	217.97	218.81	218.81	219.13	0.020662	2.49	5.46	9.22	1
Chippewa	Upper	5373.361	15-Sep-78	10.3	217.97	218.7	218.7	218.97	0.022125	2.31	4.46	8.41	1.01
Chippewa	Upper	5373.361	29-Jul-86	10.9	217.97	218.72	218.72	219	0.021876	2.35	4.64	8.55	1.01
Chippewa	Upper	5373.361	10-Jun-89	9.2	217.97	218.66	218.66	218.91	0.022532	2.23	4.12	8.21	1.01
Chippewa	Upper	5373.361	18-May-90	7	217.97	218.56	218.56	218.79	0.023241	2.09	3.35	7.58	1
Chippewa	Upper	5373.361	27-Oct-91	3.9	217.97	218.4	218.4	218.56	0.025778	1.79	2.18	6.78	1.01
Chippewa	Upper	5357	25-Jul-77	13.5	217.47	218.61	218.25	218.72	0.00415	1.5	10.59	15.78	0.49
Chippewa	Upper	5357	15-Sep-78	10.3	217.47	218.32	218.14	218.45	0.008342	1.67	6.74	11.26	0.65
Chippewa	Upper	5357	29-Jul-86	10.9	217.47	218.38	218.16	218.5	0.007031	1.61	7.41	11.61	0.61
Chippewa	Upper	5357	10-Jun-89	9.2	217.47	218	218.1	218.39	0.044585	2.77	3.47	9.34	1.39
Chippewa	Upper	5357	18-May-90	7	217.47	217.93	218.02	218.25	0.044415	2.52	2.87	8.91	1.36
Chippewa	Upper	5357	27-Oct-91	3.9	217.47	217.81	217.86	218.03	0.040096	2.08	1.9	6.99	1.24
Chippewa	Upper	5333	25-Jul-77	13.5	217.01	218.67		218.68	0.000241	0.42	45.86	46.34	0.12
Chippewa	Upper	5333	15-Sep-78	10.3	217.01	218.39		218.39	0.00034	0.42	33.4	41.82	0.14
Chippewa	Upper	5333	29-Jul-86	10.9	217.01	218.44		218.45	0.000316	0.42	35.67	42.53	0.14
Chippewa	Upper	5333	10-Jun-89	9.2	217.01	218.29	217.4	218.29	0.000388	0.42	29.3	39.33	0.15
Chippewa	Upper	5333	18-May-90	7	217.01	218.08	217.34	218.08	0.000529	0.41	22.01	31.4	0.16
Chippewa	Upper	5333	27-Oct-91	3.9	217.01	217.73	217.28	217.74	0.000647	0.41	12.85	23.13	0.18
Chippewa	Upper	5306	25-Jul-77	13.5	216.77	218.65		218.67	0.000362	0.55	37.92	50.55	0.15
Chippewa	Upper	5306	15-Sep-78	10.3	216.77	218.36		218.38	0.000577	0.6	23.67	47.44	0.18
Chippewa	Upper	5306	29-Jul-86	10.9	216.77	218.42		218.44	0.000524	0.59	26.33	48.11	0.18
Chippewa	Upper	5306	10-Jun-89	9.2	216.77	218.26		218.28	0.0007	0.61	18.81	46.17	0.2
Chippewa	Upper	5306	18-May-90	7	216.77	218.04		218.06	0.001012	0.62	11.72	18.42	0.23
Chippewa	Upper	5306	27-Oct-91	3.9	216.77	217.7		217.72	0.0011	0.57	6.86	11.58	0.23
Chippewa	Upper	5293.856	25-Jul-77	13.5	216.45	218.65		218.66	0.000295	0.57	47.11	62.14	0.14
Chippewa	Upper	5293.856	15-Sep-78	10.3	216.45	218.36		218.37	0.000447	0.62	29.27	58.54	0.17
Chippewa	Upper	5293.856	29-Jul-86	10.9	216.45	218.41		218.43	0.000412	0.61	32.61	60.01	0.16
Chippewa	Upper	5293.856	10-Jun-89	9.2	216.45	218.25		218.27	0.000506	0.62	23.54	50.32	0.17
Chippewa	Upper	5293.856	18-May-90	7	216.45	218.03		218.05	0.000654	0.63	13.33	41.29	0.19
Chippewa	Upper	5293.856	27-Oct-91	3.9	216.45	217.69		217.71	0.000592	0.51	7.69	8.98	0.18
Chippewa	Upper	5246	25-Jul-77	13.5	216.06	218.65		218.66	0.000034	0.25	109.07	81.49	0.05
Chippewa	Upper	5246	15-Sep-78	10.3	216.06	218.36		218.37	0.000033	0.23	86.54	72.09	0.05
Chippewa	Upper	5246	29-Jul-86	10.9	216.06	218.42		218.42	0.000034	0.23	90.62	74.29	0.05
Chippewa	Upper	5246	10-Jun-89	9.2	216.06	218.26		218.26	0.000033	0.22	79.18	69.34	0.05
Chippewa	Upper	5246	18-May-90	7	216.06	218.04		218.04	0.00003	0.19	65.26	60.36	0.05
Chippewa	Upper	5246	27-Oct-91	3.9	216.06	217.7		217.7	0.000022	0.14	46.23	51.48	0.04
Chippewa	Upper	5212.56	25-Jul-77	13.5	215.39	218.65		218.65	0.000024	0.25	123.19	72.54	0.04
Chippewa	Upper	5212.56	15-Sep-78	10.3	215.39	218.36		218.36	0.000022	0.23	102.27	71.73	0.04
Chippewa	Upper	5212.56	29-Jul-86	10.9	215.39	218.42		218.42	0.000023	0.23	106.27	71.87	0.04
Chippewa	Upper	5212.56	10-Jun-89	9.2	215.39	218.26		218.26	0.000021	0.22	94.83	71.43	0.04
Chippewa	Upper	5212.56	18-May-90	7	215.39	218.04		218.04	0.000019	0.19	79.39	70.52	0.04
Chippewa	Upper	5212.56	27-Oct-91	3.9	215.39	217.7		217.7	0.000012	0.14	55.87	65.48	0.03
Chippewa	Upper	5126.009	25-Jul-77	13.5	214.38	218.65		218.65	0.000022	0.28	126.02	84.57	0.04
Chippewa	Upper	5126.009	15-Sep-78	10.3	214.38	218.36		218.36	0.00002	0.25	101.8	81.65	0.04
Chippewa	Upper	5126.009	29-Jul-86	10.9	214.38	218.42		218.42	0.00002	0.25	106.38	83.15	0.04
Chippewa	Upper	5126.009	10-Jun-89	9.2	214.38	218.26		218.26	0.000019	0.24	93.62	76.6	0.04
Chippewa	Upper	5126.009	18-May-90	7	214.38	218.04		218.04	0.000015	0.21	77.97	69.89	0.04
Chippewa	Upper	5126.009	27-Oct-91	3.9	214.38	217.7		217.7	0.000009	0.14	55.29	61.52	0.03
Chippewa	Upper	5121.643	25-Jul-77	13.5	214.38	218.62	215.45	218.65	0.000168	0.8	16.88	85.17	0.12
Chippewa	Upper	5121.643	15-Sep-78	10.3	214.38	218.34	215.28	218.36	0.000123	0.65	15.77	82.96	0.11
Chippewa	Upper	5121.643	29-Jul-86	10.9	214.38	218.39	215.31	218.42	0.000132	0.68	15.98	83.53	0.11
Chippewa	Upper	5121.643	10-Jun-89	9.2	214.38	218.24	215.21	218.26	0.000107	0.6	15.37	72.45	0.1
Chippewa	Upper	5121.643	18-May-90	7	214.38	218.03	215.08	218.04	0.000075	0.48	14.53	70.08	0.08
Chippewa	Upper	5121.643	27-Oct-91	3.9	214.38	217.69	214.86	217.7	0.000032	0.3	13.19	59.63	0.05

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	5114.229		Culvert									
Chippewa	Upper	5094.148	25-Jul-77	13.5	216.61	218.05	218.05	218.58	0.016763	3.21	4.2	56.93	1
Chippewa	Upper	5094.148	15-Sep-78	10.3	216.61	217.88	217.88	218.32	0.017581	2.93	3.52	55.78	1
Chippewa	Upper	5094.148	29-Jul-86	10.9	216.61	217.91	217.91	218.37	0.01765	3	3.64	55.91	1
Chippewa	Upper	5094.148	10-Jun-89	9.2	216.61	217.82	217.82	218.23	0.017994	2.82	3.27	54.78	1
Chippewa	Upper	5094.148	18-May-90	7	216.61	217.68	217.68	218.02	0.019425	2.58	2.71	50.47	1
Chippewa	Upper	5094.148	27-Oct-91	3.9	216.61	217.46	217.46	217.69	0.022003	2.12	1.84	47.25	1
Chippewa	Upper	5085.348	25-Jul-77	13.5	214.29	214.88	215.09	215.57	0.054387	3.68	3.75	7.62	1.6
Chippewa	Upper	5085.348	15-Sep-78	10.3	214.29	214.82	214.97	215.34	0.049718	3.21	3.25	7.33	1.5
Chippewa	Upper	5085.348	29-Jul-86	10.9	214.29	214.83	214.99	215.38	0.049807	3.29	3.36	7.37	1.51
Chippewa	Upper	5085.348	10-Jun-89	9.2	214.29	214.79	214.92	215.26	0.047588	3.03	3.07	7.26	1.45
Chippewa	Upper	5085.348	18-May-90	7	214.29	214.74	214.82	215.09	0.041731	2.61	2.69	7.11	1.33
Chippewa	Upper	5085.348	27-Oct-91	3.9	214.29	214.64	214.67	214.83	0.032802	1.93	2.02	6.84	1.13
Chippewa	Upper	4992.499	25-Jul-77	13.5	213.54	214.8	214.19	214.86	0.001677	1.1	15.96	32.29	0.32
Chippewa	Upper	4992.499	15-Sep-78	10.3	213.54	214.64	214.1	214.69	0.001713	1.01	11.7	21.95	0.32
Chippewa	Upper	4992.499	29-Jul-86	10.9	213.54	214.67	214.12	214.72	0.001712	1.03	12.47	24.03	0.32
Chippewa	Upper	4992.499	10-Jun-89	9.2	213.54	214.57	214.06	214.62	0.001713	0.96	10.54	15.58	0.31
Chippewa	Upper	4992.499	18-May-90	7	213.54	214.43	213.98	214.47	0.001731	0.87	8.61	12.57	0.31
Chippewa	Upper	4992.499	27-Oct-91	3.9	213.54	214.18	213.85	214.21	0.001833	0.7	5.7	11.05	0.3
Chippewa	Upper	4889.457	25-Jul-77	13.5	213.17	214.42		214.57	0.004978	1.76	9.13	12.24	0.53
Chippewa	Upper	4889.457	15-Sep-78	10.3	213.17	214.28		214.4	0.004826	1.58	7.45	11.11	0.51
Chippewa	Upper	4889.457	29-Jul-86	10.9	213.17	214.3		214.43	0.004879	1.62	7.76	11.26	0.52
Chippewa	Upper	4889.457	10-Jun-89	9.2	213.17	214.22		214.33	0.004751	1.51	6.84	10.79	0.5
Chippewa	Upper	4889.457	18-May-90	7	213.17	214.1		214.19	0.004572	1.34	5.61	9.07	0.48
Chippewa	Upper	4889.457	27-Oct-91	3.9	213.17	213.87		213.92	0.004356	1.07	3.69	7.59	0.45
Chippewa	Upper	4807.836	25-Jul-77	13.5	212.58	214.35		214.38	0.000921	0.78	23.51	43.07	0.23
Chippewa	Upper	4807.836	15-Sep-78	10.3	212.58	214.17		214.2	0.001038	0.74	16.7	35.29	0.24
Chippewa	Upper	4807.836	29-Jul-86	10.9	212.58	214.21		214.23	0.001018	0.75	17.89	35.83	0.24
Chippewa	Upper	4807.836	10-Jun-89	9.2	212.58	214.11		214.13	0.001075	0.72	14.51	31.71	0.24
Chippewa	Upper	4807.836	18-May-90	7	212.58	213.97		213.99	0.001128	0.65	11.09	19.11	0.24
Chippewa	Upper	4807.836	27-Oct-91	3.9	212.58	213.72		213.74	0.001124	0.53	7.3	13.1	0.23
Chippewa	Upper	4803.473	25-Jul-77	13.5	212.65	213.69	213.69	214.09	0.019134	2.83	4.77	11.03	1.02
Chippewa	Upper	4803.473	15-Sep-78	10.3	212.65	213.56	213.56	213.9	0.019757	2.57	4.01	10.32	1
Chippewa	Upper	4803.473	29-Jul-86	10.9	212.65	213.59	213.59	213.93	0.019187	2.6	4.19	10.45	0.99
Chippewa	Upper	4803.473	10-Jun-89	9.2	212.65	213.51	213.51	213.82	0.020223	2.47	3.72	10.09	1
Chippewa	Upper	4803.473	18-May-90	7	212.65	213.41	213.41	213.67	0.021553	2.26	3.1	9.6	1
Chippewa	Upper	4803.473	27-Oct-91	3.9	212.65	213.24	213.24	213.42	0.02448	1.86	2.1	8.32	1
Chippewa	Upper	4780.106		Culvert									
Chippewa	Upper	4753.62	25-Jul-77	13.5	212.18	213.44	213.12	213.64	0.006233	2.01	6.72	8.65	0.61
Chippewa	Upper	4753.62	15-Sep-78	10.3	212.18	213.31	212.99	213.46	0.005469	1.73	5.94	8.28	0.56
Chippewa	Upper	4753.62	29-Jul-86	10.9	212.18	213.33	213.01	213.5	0.005623	1.79	6.09	8.34	0.57
Chippewa	Upper	4753.62	10-Jun-89	9.2	212.18	213.26	212.94	213.39	0.005171	1.63	5.64	8.2	0.54
Chippewa	Upper	4753.62	18-May-90	7	212.18	213.15	212.83	213.25	0.004498	1.4	4.99	8.01	0.49
Chippewa	Upper	4753.62	27-Oct-91	3.9	212.18	212.94	212.65	213	0.003657	1.04	3.74	7.64	0.42
Chippewa	Upper	4745.032	25-Jul-77	13.5	212.16	213.19		213.29	0.004472	1.43	9.92	13.69	0.5
Chippewa	Upper	4745.032	15-Sep-78	10.3	212.16	213.04		213.13	0.004955	1.33	7.99	12.7	0.51
Chippewa	Upper	4745.032	29-Jul-86	10.9	212.16	213.07		213.16	0.004855	1.35	8.35	12.88	0.5
Chippewa	Upper	4745.032	10-Jun-89	9.2	212.16	212.99		213.07	0.005159	1.29	7.32	12.37	0.51
Chippewa	Upper	4745.032	18-May-90	7	212.16	212.87		212.95	0.005695	1.19	5.96	11.73	0.52
Chippewa	Upper	4745.032	27-Oct-91	3.9	212.16	212.68		212.73	0.006081	1.02	3.83	9.48	0.51
Chippewa	Upper	4702.321	25-Jul-77	13.5	211.74	212.79		212.98	0.008839	1.92	7.04	8.3	0.66
Chippewa	Upper	4702.321	15-Sep-78	10.3	211.74	212.65		212.81	0.0084	1.73	5.94	7.9	0.64
Chippewa	Upper	4702.321	29-Jul-86	10.9	211.74	212.68		212.84	0.008439	1.77	6.16	7.94	0.64
Chippewa	Upper	4702.321	10-Jun-89	9.2	211.74	212.6		212.74	0.008352	1.66	5.53	7.84	0.63
Chippewa	Upper	4702.321	18-May-90	7	211.74	212.49		212.6	0.00831	1.51	4.64	7.66	0.62
Chippewa	Upper	4702.321	27-Oct-91	3.9	211.74	212.28		212.36	0.008762	1.25	3.13	7.32	0.61

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	4701.055	25-Jul-77	13.5	211.73	212.77	212.58	212.97	0.009875	1.96	6.9	8.62	0.7
Chippewa	Upper	4701.055	15-Sep-78	10.3	211.73	212.63	212.46	212.8	0.009863	1.8	5.72	8.13	0.69
Chippewa	Upper	4701.055	29-Jul-86	10.9	211.73	212.66	212.48	212.83	0.009839	1.83	5.95	8.2	0.69
Chippewa	Upper	4701.055	10-Jun-89	9.2	211.73	212.58	212.41	212.73	0.009935	1.74	5.29	7.99	0.68
Chippewa	Upper	4701.055	18-May-90	7	211.73	212.46	212.31	212.59	0.010053	1.6	4.37	7.57	0.67
Chippewa	Upper	4701.055	27-Oct-91	3.9	211.73	212.26	212.15	212.35	0.010196	1.32	2.95	7.01	0.65
Chippewa	Upper	4698.5		Bridge									
Chippewa	Upper	4695	25-Jul-77	13.5	211.65	212.53	212.5	212.83	0.018654	2.42	5.58	8.48	0.95
Chippewa	Upper	4695	15-Sep-78	10.3	211.65	212.44	212.38	212.67	0.016252	2.14	4.81	7.91	0.88
Chippewa	Upper	4695	29-Jul-86	10.9	211.65	212.46	212.4	212.7	0.016603	2.19	4.97	8.04	0.89
Chippewa	Upper	4695	10-Jun-89	9.2	211.65	212.39	212.33	212.61	0.015783	2.06	4.47	7.65	0.86
Chippewa	Upper	4695	18-May-90	7	211.65	212.29	212.23	212.47	0.015841	1.89	3.7	7.22	0.84
Chippewa	Upper	4695	27-Oct-91	3.9	211.65	212.1	212.06	212.24	0.017168	1.61	2.42	6.44	0.84
Chippewa	Upper	4693.063	25-Jul-77	13.5	211.53	212.58		212.74	0.007198	1.72	7.84	9.64	0.61
Chippewa	Upper	4693.063	15-Sep-78	10.3	211.53	212.48		212.59	0.006241	1.51	6.84	9.29	0.56
Chippewa	Upper	4693.063	29-Jul-86	10.9	211.53	212.5		212.62	0.006394	1.55	7.05	9.36	0.57
Chippewa	Upper	4693.063	10-Jun-89	9.2	211.53	212.43		212.54	0.006015	1.44	6.41	9.13	0.55
Chippewa	Upper	4693.063	18-May-90	7	211.53	212.32		212.41	0.005705	1.29	5.43	8.77	0.52
Chippewa	Upper	4693.063	27-Oct-91	3.9	211.53	212.12		212.18	0.005428	1.04	3.75	8.21	0.49
Chippewa	Upper	4631.519	25-Jul-77	13.5	211.18	212.14		212.29	0.007147	1.77	10.36	22.98	0.62
Chippewa	Upper	4631.519	15-Sep-78	10.3	211.18	212.01	211.83	212.15	0.008115	1.69	7.4	22.36	0.64
Chippewa	Upper	4631.519	29-Jul-86	10.9	211.18	212.04	211.85	212.18	0.007977	1.71	7.97	22.46	0.64
Chippewa	Upper	4631.519	10-Jun-89	9.2	211.18	211.96	211.79	212.1	0.008348	1.65	6.34	21.77	0.64
Chippewa	Upper	4631.519	18-May-90	7	211.18	211.86		211.97	0.008673	1.51	4.68	8.98	0.64
Chippewa	Upper	4631.519	27-Oct-91	3.9	211.18	211.66		211.74	0.009544	1.27	3.06	7.52	0.64
Chippewa	Upper	4594	25-Jul-77	13.5	210.86	211.85		212.02	0.007264	1.81	7.87	10.57	0.63
Chippewa	Upper	4594	15-Sep-78	10.3	210.86	211.74		211.87	0.007051	1.61	6.66	10.05	0.61
Chippewa	Upper	4594	29-Jul-86	10.9	210.86	211.76		211.9	0.007082	1.65	6.9	10.17	0.61
Chippewa	Upper	4594	10-Jun-89	9.2	210.86	211.69		211.81	0.006976	1.54	6.22	9.74	0.6
Chippewa	Upper	4594	18-May-90	7	210.86	211.58		211.68	0.006769	1.39	5.2	9.07	0.58
Chippewa	Upper	4594	27-Oct-91	3.9	210.86	211.38		211.45	0.006323	1.14	3.52	7.88	0.53
Chippewa	Upper	4550	25-Jul-77	13.5	210.55	211.64		211.75	0.004589	1.46	9.81	15.79	0.5
Chippewa	Upper	4550	15-Sep-78	10.3	210.55	211.53		211.61	0.004238	1.28	8.3	12.26	0.47
Chippewa	Upper	4550	29-Jul-86	10.9	210.55	211.55		211.64	0.004299	1.31	8.58	13.2	0.48
Chippewa	Upper	4550	10-Jun-89	9.2	210.55	211.49		211.56	0.004099	1.21	7.79	11.98	0.46
Chippewa	Upper	4550	18-May-90	7	210.55	211.37		211.44	0.004257	1.1	6.43	11.4	0.45
Chippewa	Upper	4550	27-Oct-91	3.9	210.55	211.18		211.22	0.004188	0.9	4.35	9.7	0.43
Chippewa	Upper	4510	25-Jul-77	13.5	210.35	211.22	211.17	211.44	0.014899	2.07	6.88	14.54	0.85
Chippewa	Upper	4510	15-Sep-78	10.3	210.35	211.11	211.07	211.3	0.017196	1.95	5.36	12.52	0.88
Chippewa	Upper	4510	29-Jul-86	10.9	210.35	211.13	211.09	211.33	0.016786	1.98	5.63	13.39	0.88
Chippewa	Upper	4510	10-Jun-89	9.2	210.35	211.07	211	211.25	0.018378	1.9	4.86	11.33	0.9
Chippewa	Upper	4510	18-May-90	7	210.35	210.95		211.13	0.016766	1.85	3.77	8.03	0.86
Chippewa	Upper	4510	27-Oct-91	3.9	210.35	210.79		210.91	0.017162	1.53	2.55	7.45	0.83
Chippewa	Upper	4477	25-Jul-77	13.5	210.08	211.16		211.22	0.002565	1.04	14.26	20.62	0.37
Chippewa	Upper	4477	15-Sep-78	10.3	210.08	211.04		211.09	0.002406	0.94	11.88	19.4	0.35
Chippewa	Upper	4477	29-Jul-86	10.9	210.08	211.07		211.11	0.002437	0.96	12.32	19.61	0.36
Chippewa	Upper	4477	10-Jun-89	9.2	210.08	211		211.04	0.002338	0.9	11	18.8	0.35
Chippewa	Upper	4477	18-May-90	7	210.08	210.89		210.93	0.002169	0.81	9.11	17.47	0.33
Chippewa	Upper	4477	27-Oct-91	3.9	210.08	210.7		210.72	0.002283	0.66	5.91	13.95	0.32
Chippewa	Upper	4436.677	25-Jul-77	13.5	209.94	210.97	210.72	211.07	0.005243	1.47	11.18	19.46	0.52
Chippewa	Upper	4436.677	15-Sep-78	10.3	209.94	210.87	210.6	210.95	0.004771	1.3	9.32	19.04	0.49
Chippewa	Upper	4436.677	29-Jul-86	10.9	209.94	210.89	210.61	210.97	0.004895	1.34	9.67	19.13	0.5
Chippewa	Upper	4436.677	10-Jun-89	9.2	209.94	210.83		210.91	0.004585	1.24	8.62	18.87	0.48
Chippewa	Upper	4436.677	18-May-90	7	209.94	210.74	210.48	210.8	0.004287	1.1	6.98	18.25	0.45
Chippewa	Upper	4436.677	27-Oct-91	3.9	209.94	210.55		210.59	0.004429	0.91	4.29	9.78	0.44
Chippewa	Upper	4387	25-Jul-77	13.5	209.64	210.41	210.41	210.62	0.017986	2.08	8.02	26.21	0.92
Chippewa	Upper	4387	15-Sep-78	10.3	209.64	210.32	210.32	210.52	0.019982	1.96	5.94	21.48	0.94
Chippewa	Upper	4387	29-Jul-86	10.9	209.64	210.35	210.35	210.54	0.019126	1.97	6.41	22.91	0.92

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	4387	10-Jun-89	9.2	209.64	210.29	210.29	210.47	0.021283	1.93	5.2	18.79	0.96
Chippewa	Upper	4387	18-May-90	7	209.64	210.2	210.2	210.38	0.023413	1.88	3.82	11.35	0.98
Chippewa	Upper	4387	27-Oct-91	3.9	209.64	210.08	210.04	210.19	0.018167	1.47	2.66	8.85	0.84
Chippewa	Upper	4340	25-Jul-77	13.5	209.26	210.47	209.8	210.48	0.000539	0.55	47.5	64.92	0.18
Chippewa	Upper	4340	15-Sep-78	10.3	209.26	210.2	209.72	210.21	0.000992	0.61	31.47	55.96	0.23
Chippewa	Upper	4340	29-Jul-86	10.9	209.26	210.25	209.73	210.26	0.000863	0.59	34.39	57.6	0.21
Chippewa	Upper	4340	10-Jun-89	9.2	209.26	210.11	209.71	210.12	0.001263	0.65	26.41	52.53	0.25
Chippewa	Upper	4340	18-May-90	7	209.26	209.92	209.67	209.94	0.0023	0.76	17.23	44.04	0.33
Chippewa	Upper	4340	27-Oct-91	3.9	209.26	209.67		209.7	0.006313	0.95	7.31	34.5	0.51
Chippewa	Upper	4261.99	25-Jul-77	13.5	208.78	210.44		210.45	0.000295	0.54	51.44	70.67	0.14
Chippewa	Upper	4261.99	15-Sep-78	10.3	208.78	210.15		210.16	0.000432	0.57	32.61	54.94	0.16
Chippewa	Upper	4261.99	29-Jul-86	10.9	208.78	210.21		210.22	0.000412	0.57	35.77	60.08	0.16
Chippewa	Upper	4261.99	10-Jun-89	9.2	208.78	210.05		210.06	0.000505	0.58	27.32	49.29	0.17
Chippewa	Upper	4261.99	18-May-90	7	208.78	209.84		209.85	0.000649	0.57	18.61	35.14	0.19
Chippewa	Upper	4261.99	27-Oct-91	3.9	208.78	209.5		209.51	0.0012	0.58	8.05	24.71	0.24
Chippewa	Upper	4196	25-Jul-77	13.5	208.55	210.42		210.43	0.000306	0.55	41.87	53.71	0.14
Chippewa	Upper	4196	15-Sep-78	10.3	208.55	210.12		210.14	0.000439	0.57	27.84	41.1	0.16
Chippewa	Upper	4196	29-Jul-86	10.9	208.55	210.18		210.19	0.000407	0.56	30.21	41.9	0.16
Chippewa	Upper	4196	10-Jun-89	9.2	208.55	210.01		210.03	0.000513	0.58	23.56	39.16	0.17
Chippewa	Upper	4196	18-May-90	7	208.55	209.79		209.8	0.000735	0.6	15.18	34.14	0.2
Chippewa	Upper	4196	27-Oct-91	3.9	208.55	209.42		209.44	0.001126	0.58	6.84	12.87	0.23
Chippewa	Upper	4118.946	25-Jul-77	13.5	208.2	210.4		210.41	0.000187	0.49	40.57	37.56	0.11
Chippewa	Upper	4118.946	15-Sep-78	10.3	208.2	210.1		210.11	0.000213	0.47	30.29	31.76	0.12
Chippewa	Upper	4118.946	29-Jul-86	10.9	208.2	210.16		210.17	0.000208	0.47	32.16	33.01	0.12
Chippewa	Upper	4118.946	10-Jun-89	9.2	208.2	209.99		210	0.000224	0.45	26.91	30.36	0.12
Chippewa	Upper	4118.946	18-May-90	7	208.2	209.76		209.77	0.000244	0.42	20.22	27.25	0.12
Chippewa	Upper	4118.946	27-Oct-91	3.9	208.2	209.39		209.4	0.00025	0.35	12.41	17.14	0.12
Chippewa	Upper	3977.845	25-Jul-77	13.5	207.63	210.4		210.4	0.000031	0.24	100.47	61.37	0.05
Chippewa	Upper	3977.845	15-Sep-78	10.3	207.63	210.1		210.1	0.000031	0.22	82.34	59.56	0.05
Chippewa	Upper	3977.845	29-Jul-86	10.9	207.63	210.16		210.16	0.000031	0.23	85.78	59.84	0.05
Chippewa	Upper	3977.845	10-Jun-89	9.2	207.63	209.99		209.99	0.00003	0.21	75.9	58.93	0.05
Chippewa	Upper	3977.845	18-May-90	7	207.63	209.76		209.76	0.000029	0.19	62.65	56.61	0.05
Chippewa	Upper	3977.845	27-Oct-91	3.9	207.63	209.39		209.39	0.000024	0.15	41.69	55.31	0.04
Chippewa	Upper	3867.183	25-Jul-77	13.5	207.14	210.4		210.4	0.000025	0.25	105.95	48.13	0.05
Chippewa	Upper	3867.183	15-Sep-78	10.3	207.14	210.1		210.1	0.000022	0.22	91.85	45.88	0.04
Chippewa	Upper	3867.183	29-Jul-86	10.9	207.14	210.15		210.15	0.000023	0.23	94.51	46.39	0.04
Chippewa	Upper	3867.183	10-Jun-89	9.2	207.14	209.99		209.99	0.00002	0.21	86.91	45.17	0.04
Chippewa	Upper	3867.183	18-May-90	7	207.14	209.76		209.76	0.000017	0.18	76.62	44.25	0.04
Chippewa	Upper	3867.183	27-Oct-91	3.9	207.14	209.38		209.39	0.00001	0.12	60.6	41.92	0.03
Chippewa	Upper	3786.749	25-Jul-77	13.5	206.83	210.39		210.4	0.000018	0.23	124.99	84.37	0.04
Chippewa	Upper	3786.749	15-Sep-78	10.3	206.83	210.09		210.1	0.000015	0.2	101.58	72.66	0.04
Chippewa	Upper	3786.749	29-Jul-86	10.9	206.83	210.15		210.15	0.000016	0.2	105.79	73.82	0.04
Chippewa	Upper	3786.749	10-Jun-89	9.2	206.83	209.99		209.99	0.000014	0.18	93.95	67.57	0.03
Chippewa	Upper	3786.749	18-May-90	7	206.83	209.76		209.76	0.000011	0.16	80.85	51.06	0.03
Chippewa	Upper	3786.749	27-Oct-91	3.9	206.83	209.38		209.38	0.000006	0.1	64.64	39.67	0.02
Chippewa	Upper	3779.919	25-Jul-77	13.5	206.77	210.3	208.51	210.39	0.000726	1.31	10.29	40.56	0.24
Chippewa	Upper	3779.919	15-Sep-78	10.3	206.77	210.03	208.32	210.09	0.000584	1.1	9.34	35.55	0.22
Chippewa	Upper	3779.919	29-Jul-86	10.9	206.77	210.08	208.36	210.15	0.000613	1.14	9.52	35.82	0.22
Chippewa	Upper	3779.919	10-Jun-89	9.2	206.77	209.93	208.25	209.98	0.000528	1.02	8.99	34.83	0.2
Chippewa	Upper	3779.919	18-May-90	7	206.77	209.72	208.1	209.75	0.000407	0.85	8.25	30.21	0.18
Chippewa	Upper	3779.919	27-Oct-91	3.9	206.77	209.37	207.86	209.38	0.000216	0.55	7.03	25.76	0.13
Chippewa	Upper	3762.735		Culvert									
Chippewa	Upper	3747.135	25-Jul-77	13.5	208.13	209.78	209.78	210.35	0.018065	3.36	4.01	27.4	1
Chippewa	Upper	3747.135	15-Sep-78	10.3	208.13	209.59	209.59	210.07	0.018904	3.06	3.36	17.89	1
Chippewa	Upper	3747.135	29-Jul-86	10.9	208.13	209.63	209.63	210.12	0.01871	3.12	3.49	20.86	1
Chippewa	Upper	3747.135	10-Jun-89	9.2	208.13	209.52	209.52	209.96	0.019684	2.96	3.11	15.85	1
Chippewa	Upper	3747.135	18-May-90	7	208.13	209.37	209.37	209.74	0.020965	2.71	2.59	13.83	1
Chippewa	Upper	3747.135	27-Oct-91	3.9	208.13	209.11	209.11	209.38	0.023144	2.28	1.71	11.61	1

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	3732.886	25-Jul-77	13.5	206.57	206.91	207.26	209.11	0.627116	6.57	2.05	10.01	4.63
Chippewa	Upper	3732.886	15-Sep-78	10.3	206.57	206.87	207.18	208.83	0.70493	6.19	1.66	9.69	4.78
Chippewa	Upper	3732.886	29-Jul-86	10.9	206.57	206.88	207.2	208.89	0.687398	6.27	1.74	9.75	4.74
Chippewa	Upper	3732.886	10-Jun-89	9.2	206.57	206.86	207.15	208.72	0.736799	6.03	1.53	9.58	4.83
Chippewa	Upper	3732.886	18-May-90	7	206.57	206.83	207.08	208.48	0.760789	5.69	1.23	8.64	4.82
Chippewa	Upper	3732.886	27-Oct-91	3.9	206.57	206.77	206.96	208.08	0.971756	5.06	0.77	7.79	5.14
Chippewa	Upper	3612.138	25-Jul-77	13.5	206.17	207.41	206.93	207.49	0.00313	1.24	10.89	11.76	0.41
Chippewa	Upper	3612.138	15-Sep-78	10.3	206.17	207.23	206.82	207.3	0.003419	1.17	8.81	11.21	0.42
Chippewa	Upper	3612.138	29-Jul-86	10.9	206.17	207.27	206.84	207.34	0.003302	1.18	9.25	11.29	0.42
Chippewa	Upper	3612.138	10-Jun-89	9.2	206.17	207.15	206.78	207.22	0.003702	1.15	7.98	11.04	0.43
Chippewa	Upper	3612.138	18-May-90	7	206.17	206.99	206.69	207.05	0.004314	1.12	6.25	10.17	0.46
Chippewa	Upper	3612.138	27-Oct-91	3.9	206.17	206.73	206.55	206.78	0.005757	1.03	3.79	8.76	0.5
Chippewa	Upper	3607.865	25-Jul-77	13.5	206.06	207.27	206.92	207.46	0.005292	1.91	7.07	9.36	0.57
Chippewa	Upper	3607.865	15-Sep-78	10.3	206.06	207.13	206.79	207.27	0.004794	1.66	6.19	9.06	0.53
Chippewa	Upper	3607.865	29-Jul-86	10.9	206.06	207.16	206.82	207.31	0.00484	1.71	6.39	9.11	0.54
Chippewa	Upper	3607.865	10-Jun-89	9.2	206.06	207.07	206.74	207.2	0.004765	1.59	5.8	8.95	0.52
Chippewa	Upper	3607.865	18-May-90	7	206.06	206.93	206.64	207.03	0.004737	1.42	4.93	8.73	0.51
Chippewa	Upper	3607.865	27-Oct-91	3.9	206.06	206.7	206.47	206.76	0.004659	1.12	3.49	8.41	0.48
Chippewa	Upper	3594.852		Culvert									
Chippewa	Upper	3579.752	25-Jul-77	13.5	205.99	207.17	206.79	207.35	0.004892	1.87	7.22	8.73	0.55
Chippewa	Upper	3579.752	15-Sep-78	10.3	205.99	207.07	206.66	207.19	0.003856	1.56	6.59	8.53	0.48
Chippewa	Upper	3579.752	29-Jul-86	10.9	205.99	207.09	206.69	207.23	0.003995	1.62	6.75	8.58	0.49
Chippewa	Upper	3579.752	10-Jun-89	9.2	205.99	207.02	206.61	207.13	0.003645	1.47	6.26	8.42	0.47
Chippewa	Upper	3579.752	18-May-90	7	205.99	206.9	206.51	206.98	0.00322	1.27	5.52	8.27	0.43
Chippewa	Upper	3579.752	27-Oct-91	3.9	205.99	206.69	206.35	206.73	0.002441	0.92	4.22	7.99	0.36
Chippewa	Upper	3572.53	25-Jul-77	13.5	205.82	207.14		207.3	0.007078	1.75	7.72	8.5	0.59
Chippewa	Upper	3572.53	15-Sep-78	10.3	205.82	207.04		207.15	0.005826	1.5	6.88	8.35	0.53
Chippewa	Upper	3572.53	29-Jul-86	10.9	205.82	207.07		207.19	0.00595	1.54	7.1	8.39	0.53
Chippewa	Upper	3572.53	10-Jun-89	9.2	205.82	206.99		207.09	0.005698	1.43	6.44	8.28	0.52
Chippewa	Upper	3572.53	18-May-90	7	205.82	206.86		206.95	0.005622	1.29	5.41	8.09	0.5
Chippewa	Upper	3572.53	27-Oct-91	3.9	205.82	206.65		206.7	0.005496	1.05	3.72	7.57	0.48
Chippewa	Upper	3511.007	25-Jul-77	13.5	205.5	206.76	206.49	206.89	0.006163	1.65	12.31	38.68	0.57
Chippewa	Upper	3511.007	15-Sep-78	10.3	205.5	206.61	206.37	206.75	0.007537	1.66	6.84	24.35	0.61
Chippewa	Upper	3511.007	29-Jul-86	10.9	205.5	206.64	206.4	206.78	0.007394	1.66	7.78	32.59	0.61
Chippewa	Upper	3511.007	10-Jun-89	9.2	205.5	206.55	206.32	206.68	0.007784	1.62	5.7	11.79	0.62
Chippewa	Upper	3511.007	18-May-90	7	205.5	206.42		206.53	0.008115	1.51	4.64	7.62	0.62
Chippewa	Upper	3511.007	27-Oct-91	3.9	205.5	206.2		206.28	0.008605	1.27	3.06	6.84	0.61
Chippewa	Upper	3396.804	25-Jul-77	13.5	204.9	206.31		206.4	0.003068	1.32	10.26	9.39	0.4
Chippewa	Upper	3396.804	15-Sep-78	10.3	204.9	206.13		206.2	0.003079	1.2	8.57	9.16	0.4
Chippewa	Upper	3396.804	29-Jul-86	10.9	204.9	206.17		206.24	0.003073	1.22	8.9	9.21	0.4
Chippewa	Upper	3396.804	10-Jun-89	9.2	204.9	206.06		206.13	0.003092	1.16	7.95	9.08	0.39
Chippewa	Upper	3396.804	18-May-90	7	204.9	205.91		205.97	0.00314	1.06	6.61	8.83	0.39
Chippewa	Upper	3396.804	27-Oct-91	3.9	204.9	205.66		205.7	0.003235	0.87	4.46	8.3	0.38
Chippewa	Upper	3289.525	25-Jul-77	13.5	204.59	205.99		206.08	0.00289	1.3	10.4	9.19	0.39
Chippewa	Upper	3289.525	15-Sep-78	10.3	204.59	205.82		205.89	0.002766	1.17	8.81	8.97	0.38
Chippewa	Upper	3289.525	29-Jul-86	10.9	204.59	205.85		205.93	0.002787	1.19	9.13	9.01	0.38
Chippewa	Upper	3289.525	10-Jun-89	9.2	204.59	205.75		205.82	0.002718	1.12	8.23	8.89	0.37
Chippewa	Upper	3289.525	18-May-90	7	204.59	205.61		205.66	0.002638	1.01	6.94	8.68	0.36
Chippewa	Upper	3289.525	27-Oct-91	3.9	204.59	205.39		205.42	0.002154	0.77	5.07	8.34	0.32
Chippewa	Upper	3286.639	25-Jul-77	13.5	204.74	205.85	205.61	206.06	0.007632	2.01	6.71	8.73	0.66
Chippewa	Upper	3286.639	15-Sep-78	10.3	204.74	205.7	205.49	205.87	0.007894	1.82	5.65	8.49	0.65
Chippewa	Upper	3286.639	29-Jul-86	10.9	204.74	205.73	205.52	205.9	0.00779	1.86	5.87	8.54	0.65
Chippewa	Upper	3286.639	10-Jun-89	9.2	204.74	205.64	205.45	205.8	0.008089	1.76	5.24	8.36	0.65
Chippewa	Upper	3286.639	18-May-90	7	204.74	205.5	205.36	205.64	0.009155	1.63	4.29	7.97	0.67
Chippewa	Upper	3286.639	27-Oct-91	3.9	204.74	205.31	205.21	205.4	0.00988	1.32	2.95	7.54	0.65
Chippewa	Upper	3271.484		Culvert									

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	3262.384	25-Jul-77	13.5	204.49	205.77	205.64	206.03	0.011636	2.28	5.91	8.79	0.79
Chippewa	Upper	3262.384	15-Sep-78	10.3	204.49	205.63	205.53	205.85	0.012144	2.08	4.96	8.48	0.79
Chippewa	Upper	3262.384	29-Jul-86	10.9	204.49	205.66	205.55	205.89	0.011895	2.11	5.17	8.56	0.78
Chippewa	Upper	3262.384	10-Jun-89	9.2	204.49	205.58	205.48	205.78	0.01266	2.01	4.58	8.32	0.79
Chippewa	Upper	3262.384	18-May-90	7	204.49	205.44	205.39	205.63	0.01638	1.95	3.6	8.08	0.87
Chippewa	Upper	3262.384	27-Oct-91	3.9	204.49	205.24	205.24	205.4	0.024962	1.75	2.23	7.76	0.99
Chippewa	Upper	3256.458	25-Jul-77	13.5	204.45	205.8		205.91	0.005163	1.41	9.55	12.15	0.51
Chippewa	Upper	3256.458	15-Sep-78	10.3	204.45	205.66		205.75	0.003527	1.27	8.11	8.94	0.43
Chippewa	Upper	3256.458	29-Jul-86	10.9	204.45	205.69		205.78	0.003846	1.3	8.38	9.54	0.44
Chippewa	Upper	3256.458	10-Jun-89	9.2	204.45	205.61		205.68	0.003268	1.21	7.62	8.54	0.41
Chippewa	Upper	3256.458	18-May-90	7	204.45	205.47		205.53	0.002876	1.08	6.48	7.82	0.38
Chippewa	Upper	3256.458	27-Oct-91	3.9	204.45	205.19	204.88	205.23	0.002922	0.89	4.39	7.38	0.37
Chippewa	Upper	3158.688	25-Jul-77	13.5	203.98	205.68		205.71	0.000896	0.84	24.83	75.95	0.23
Chippewa	Upper	3158.688	15-Sep-78	10.3	203.98	205.56		205.59	0.000763	0.73	17.47	51.22	0.21
Chippewa	Upper	3158.688	29-Jul-86	10.9	203.98	205.59		205.62	0.000792	0.75	18.75	58.72	0.21
Chippewa	Upper	3158.688	10-Jun-89	9.2	203.98	205.51		205.54	0.000711	0.69	15.17	40.25	0.2
Chippewa	Upper	3158.688	18-May-90	7	203.98	205.39		205.41	0.000567	0.59	12.15	16.08	0.18
Chippewa	Upper	3158.688	27-Oct-91	3.9	203.98	205.14		205.15	0.000369	0.42	9.27	10.03	0.14
Chippewa	Upper	3070.627	25-Jul-77	13.5	203.96	205.52		205.58	0.002905	1.19	17.35	51.82	0.39
Chippewa	Upper	3070.627	15-Sep-78	10.3	203.96	205.42		205.48	0.002707	1.07	13.04	38	0.37
Chippewa	Upper	3070.627	29-Jul-86	10.9	203.96	205.44		205.5	0.002756	1.1	13.81	40.84	0.38
Chippewa	Upper	3070.627	10-Jun-89	9.2	203.96	205.38		205.43	0.002516	1.03	11.59	31.68	0.36
Chippewa	Upper	3070.627	18-May-90	7	203.96	205.28		205.32	0.002175	0.92	8.8	25.39	0.33
Chippewa	Upper	3070.627	27-Oct-91	3.9	203.96	205.06		205.09	0.001446	0.69	5.66	8.03	0.26
Chippewa	Upper	3029	25-Jul-77	13.5	204.17	205.34		205.42	0.005027	1.38	15.46	46.23	0.51
Chippewa	Upper	3029	15-Sep-78	10.3	204.17	205.22		205.31	0.006251	1.36	10.45	38.98	0.55
Chippewa	Upper	3029	29-Jul-86	10.9	204.17	205.24		205.33	0.00598	1.37	11.38	39.64	0.54
Chippewa	Upper	3029	10-Jun-89	9.2	204.17	205.17		205.26	0.006851	1.35	8.78	35.31	0.57
Chippewa	Upper	3029	18-May-90	7	204.17	205.06		205.15	0.009172	1.35	5.39	16.63	0.64
Chippewa	Upper	3029	27-Oct-91	3.9	204.17	204.86		204.94	0.013578	1.27	3.07	9.84	0.73
Chippewa	Upper	2983.151	25-Jul-77	13.5	203.68	204.92		205.1	0.009933	1.87	7.41	12.3	0.7
Chippewa	Upper	2983.151	15-Sep-78	10.3	203.68	204.81		204.96	0.009331	1.68	6.18	10.89	0.67
Chippewa	Upper	2983.151	29-Jul-86	10.9	203.68	204.83		204.98	0.009465	1.72	6.41	11.06	0.67
Chippewa	Upper	2983.151	10-Jun-89	9.2	203.68	204.76		204.9	0.009207	1.62	5.67	9.09	0.66
Chippewa	Upper	2983.151	18-May-90	7	203.68	204.64		204.75	0.008072	1.5	4.66	7.53	0.61
Chippewa	Upper	2983.151	27-Oct-91	3.9	203.68	204.42		204.5	0.007193	1.23	3.17	6.33	0.55
Chippewa	Upper	2945.172	25-Jul-77	13.5	203.4	204.76		204.81	0.003169	1.21	21.96	58.74	0.4
Chippewa	Upper	2945.172	15-Sep-78	10.3	203.4	204.62		204.67	0.003753	1.2	15.25	38.49	0.42
Chippewa	Upper	2945.172	29-Jul-86	10.9	203.4	204.64		204.7	0.003655	1.2	16.3	39.7	0.42
Chippewa	Upper	2945.172	10-Jun-89	9.2	203.4	204.56		204.62	0.003835	1.19	13.31	33.53	0.42
Chippewa	Upper	2945.172	18-May-90	7	203.4	204.42		204.49	0.004525	1.2	9.13	27.11	0.45
Chippewa	Upper	2945.172	27-Oct-91	3.9	203.4	204.21		204.27	0.004797	1.05	4.49	16.59	0.45
Chippewa	Upper	2881.083	25-Jul-77	13.5	203.35	204.7		204.71	0.000553	0.6	58.56	135.04	0.18
Chippewa	Upper	2881.083	15-Sep-78	10.3	203.35	204.53		204.54	0.00072	0.61	38.91	103.09	0.2
Chippewa	Upper	2881.083	29-Jul-86	10.9	203.35	204.56		204.57	0.000692	0.61	42.08	108.59	0.19
Chippewa	Upper	2881.083	10-Jun-89	9.2	203.35	204.47		204.48	0.000773	0.61	33.18	95.26	0.2
Chippewa	Upper	2881.083	18-May-90	7	203.35	204.33		204.34	0.000843	0.57	24.34	43.75	0.21
Chippewa	Upper	2881.083	27-Oct-91	3.9	203.35	204.11		204.12	0.000889	0.47	15.53	36.28	0.2
Chippewa	Upper	2878.511	25-Jul-77	13.5	203.35	204.51	204.3	204.68	0.008045	1.89	7.8	97.81	0.65
Chippewa	Upper	2878.511	15-Sep-78	10.3	203.35	204.37	204.18	204.52	0.008193	1.71	6.32	45.34	0.63
Chippewa	Upper	2878.511	29-Jul-86	10.9	203.35	204.4	204.21	204.55	0.008319	1.76	6.56	52.19	0.64
Chippewa	Upper	2878.511	10-Jun-89	9.2	203.35	204.33	204.14	204.47	0.007971	1.62	5.88	44.19	0.62
Chippewa	Upper	2878.511	18-May-90	7	203.35	204.21	204.05	204.32	0.008819	1.52	4.66	38.39	0.63
Chippewa	Upper	2878.511	27-Oct-91	3.9	203.35	204.04	203.89	204.11	0.007701	1.18	3.31	30.24	0.57
Chippewa	Upper	2873.769		Bridge									
Chippewa	Upper	2869.269	25-Jul-77	13.5	203.24	204.31	204.11	204.48	0.009556	1.83	7.39	63.36	0.69
Chippewa	Upper	2869.269	15-Sep-78	10.3	203.24	204.19	204	204.33	0.008621	1.66	6.19	44.49	0.65
Chippewa	Upper	2869.269	29-Jul-86	10.9	203.24	204.24	204.02	204.37	0.008232	1.64	6.63	49.24	0.64

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	2869.269	10-Jun-89	9.2	203.24	204.12	203.95	204.26	0.009439	1.66	5.55	38.31	0.67
Chippewa	Upper	2869.269	18-May-90	7	203.24	204.08	203.86	204.17	0.006542	1.34	5.21	36.15	0.56
Chippewa	Upper	2869.269	27-Oct-91	3.9	203.24	203.79	203.7	203.88	0.01203	1.37	2.84	27.87	0.71
Chippewa	Upper	2865.494	25-Jul-77	13.5	203.24	204.38		204.39	0.00123	0.69	36.73	91.08	0.25
Chippewa	Upper	2865.494	15-Sep-78	10.3	203.24	204.24		204.26	0.001228	0.66	28.13	49.9	0.25
Chippewa	Upper	2865.494	29-Jul-86	10.9	203.24	204.29		204.3	0.001156	0.64	30.6	58.62	0.24
Chippewa	Upper	2865.494	10-Jun-89	9.2	203.24	204.17		204.19	0.001308	0.66	24.78	44.04	0.25
Chippewa	Upper	2865.494	18-May-90	7	203.24	204.12		204.12	0.000944	0.55	22.38	38.37	0.21
Chippewa	Upper	2865.494	27-Oct-91	3.9	203.24	203.82		203.83	0.001537	0.55	12.39	30.78	0.26
Chippewa	Upper	2776.473	25-Jul-77	13.5	203.13	204.3		204.31	0.000934	0.67	54.12	135.55	0.22
Chippewa	Upper	2776.473	15-Sep-78	10.3	203.13	204.15		204.16	0.001319	0.71	36.86	98.18	0.26
Chippewa	Upper	2776.473	29-Jul-86	10.9	203.13	204.21		204.22	0.001046	0.66	43.06	110.54	0.23
Chippewa	Upper	2776.473	10-Jun-89	9.2	203.13	204.05		204.07	0.002034	0.8	27.81	80.85	0.31
Chippewa	Upper	2776.473	18-May-90	7	203.13	204.03		204.04	0.001303	0.63	26.44	76.22	0.25
Chippewa	Upper	2776.473	27-Oct-91	3.9	203.13	203.61		203.63	0.005493	0.82	8.01	24.44	0.46
Chippewa	Upper	2650.342	25-Jul-77	13.5	202.45	204.26		204.26	0.000226	0.41	95.46	188.5	0.12
Chippewa	Upper	2650.342	15-Sep-78	10.3	202.45	204.1		204.1	0.000244	0.4	68.85	138.58	0.12
Chippewa	Upper	2650.342	29-Jul-86	10.9	202.45	204.17		204.17	0.000208	0.38	78.98	167.49	0.11
Chippewa	Upper	2650.342	10-Jun-89	9.2	202.45	203.97		203.98	0.000344	0.44	52.52	124.14	0.14
Chippewa	Upper	2650.342	18-May-90	7	202.45	203.99		203.99	0.000184	0.32	54.63	125.53	0.1
Chippewa	Upper	2650.342	27-Oct-91	3.9	202.45	203.48		203.49	0.000476	0.41	16.8	29.14	0.15
Chippewa	Lower	2544.599	25-Jul-77	18.7	202.21	204.16		204.21	0.001069	1.06	28.87	38.87	0.26
Chippewa	Lower	2544.599	15-Sep-78	15.1	202.21	204		204.04	0.001064	0.99	22.99	34.41	0.25
Chippewa	Lower	2544.599	29-Jul-86	16.6	202.21	204.07		204.12	0.001068	1.02	25.5	37.04	0.25
Chippewa	Lower	2544.599	10-Jun-89	12.6	202.21	203.87		203.91	0.001078	0.94	18.66	31.55	0.25
Chippewa	Lower	2544.599	18-May-90	13.1	202.21	203.9		203.94	0.001073	0.95	19.55	32	0.25
Chippewa	Lower	2544.599	27-Oct-91	5.9	202.21	203.38		203.41	0.001082	0.72	8.35	10.53	0.23
Chippewa	Lower	2451.545	25-Jul-77	18.7	202.2	204.09		204.11	0.000807	0.86	47.25	87.62	0.23
Chippewa	Lower	2451.545	15-Sep-78	15.1	202.2	203.92		203.95	0.00098	0.88	32.95	75.16	0.24
Chippewa	Lower	2451.545	29-Jul-86	16.6	202.2	203.99		204.02	0.000885	0.87	39.09	83.28	0.23
Chippewa	Lower	2451.545	10-Jun-89	12.6	202.2	203.77		203.8	0.001205	0.9	23.22	52.08	0.26
Chippewa	Lower	2451.545	18-May-90	13.1	202.2	203.8		203.83	0.001153	0.9	24.96	58.27	0.26
Chippewa	Lower	2451.545	27-Oct-91	5.9	202.2	203.22		203.26	0.002287	0.89	6.6	9.18	0.34
Chippewa	Lower	2390.95	25-Jul-77	18.7	202.04	204.05		204.07	0.000553	0.8	53.14	99.58	0.19
Chippewa	Lower	2390.95	15-Sep-78	15.1	202.04	203.87		203.9	0.000637	0.8	36.8	81.04	0.2
Chippewa	Lower	2390.95	29-Jul-86	16.6	202.04	203.95		203.98	0.000602	0.8	43.64	91.13	0.2
Chippewa	Lower	2390.95	10-Jun-89	12.6	202.04	203.71		203.75	0.000756	0.81	24.87	71.37	0.21
Chippewa	Lower	2390.95	18-May-90	13.1	202.04	203.75		203.78	0.000729	0.81	27.29	73.14	0.21
Chippewa	Lower	2390.95	27-Oct-91	5.9	202.04	203.15		203.17	0.000962	0.67	8.8	9.56	0.22
Chippewa	Lower	2388.51	25-Jul-77	18.7	202.04	204.05	202.97	204.07	0.000562	0.8	52.92	99.06	0.19
Chippewa	Lower	2388.51	15-Sep-78	15.1	202.04	203.87	202.86	203.9	0.000657	0.8	36.68	81.54	0.2
Chippewa	Lower	2388.51	29-Jul-86	16.6	202.04	203.95	202.91	203.98	0.00061	0.8	43.5	88.87	0.2
Chippewa	Lower	2388.51	10-Jun-89	12.6	202.04	203.71	202.78	203.74	0.000788	0.82	24.73	71.42	0.22
Chippewa	Lower	2388.51	18-May-90	13.1	202.04	203.75	202.79	203.78	0.000756	0.81	27.17	73.3	0.22
Chippewa	Lower	2388.51	27-Oct-91	5.9	202.04	203.15	202.51	203.17	0.00104	0.69	8.55	9.68	0.23
Chippewa	Lower	2384.204		Bridge									
Chippewa	Lower	2380.204	25-Jul-77	18.7	202.04	204.04	203.15	204.07	0.000692	0.83	51.46	87.31	0.21
Chippewa	Lower	2380.204	15-Sep-78	15.1	202.04	203.86	203.04	203.89	0.000884	0.86	36.35	79.07	0.23
Chippewa	Lower	2380.204	29-Jul-86	16.6	202.04	203.94	203.08	203.97	0.000781	0.84	42.98	82.79	0.22
Chippewa	Lower	2380.204	10-Jun-89	12.6	202.04	203.7	202.94	203.73	0.001207	0.93	24.07	70.86	0.27
Chippewa	Lower	2380.204	18-May-90	13.1	202.04	203.73	202.97	203.77	0.001121	0.91	26.63	72.4	0.26
Chippewa	Lower	2380.204	27-Oct-91	5.9	202.04	203.11	202.64	203.15	0.002224	0.9	6.62	10.08	0.33
Chippewa	Lower	2375.791	25-Jul-77	18.7	202.05	204.04		204.06	0.000417	0.67	60.22	91.68	0.17
Chippewa	Lower	2375.791	15-Sep-78	15.1	202.05	203.86		203.88	0.000513	0.69	43.81	89.05	0.18
Chippewa	Lower	2375.791	29-Jul-86	16.6	202.05	203.94		203.96	0.000462	0.68	51.11	90.39	0.17
Chippewa	Lower	2375.791	10-Jun-89	12.6	202.05	203.7		203.72	0.000671	0.73	29.52	83.92	0.2
Chippewa	Lower	2375.791	18-May-90	13.1	202.05	203.73		203.76	0.000631	0.72	32.55	86.12	0.2
Chippewa	Lower	2375.791	27-Oct-91	5.9	202.05	203.11		203.14	0.001113	0.67	8.97	12.51	0.24

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	2280.026	25-Jul-77	18.7	201.89	204		204.02	0.0004	0.7	50.15	94.5	0.16
Chippewa	Lower	2280.026	15-Sep-78	15.1	201.89	203.82		203.84	0.000424	0.67	35.84	59.16	0.17
Chippewa	Lower	2280.026	29-Jul-86	16.6	201.89	203.9		203.92	0.000422	0.69	41.24	78.12	0.17
Chippewa	Lower	2280.026	10-Jun-89	12.6	201.89	203.65		203.67	0.000472	0.66	27.39	44.51	0.17
Chippewa	Lower	2280.026	18-May-90	13.1	201.89	203.69		203.71	0.000459	0.66	29.07	45.69	0.17
Chippewa	Lower	2280.026	27-Oct-91	5.9	201.89	203.04		203.06	0.000607	0.56	10.58	11.08	0.18
Chippewa	Lower	2209.146	25-Jul-77	18.7	201.75	203.95		203.99	0.000794	0.86	47.91	134.31	0.21
Chippewa	Lower	2209.146	15-Sep-78	15.1	201.75	203.75		203.79	0.000987	0.91	25.46	84.19	0.23
Chippewa	Lower	2209.146	29-Jul-86	16.6	201.75	203.84		203.88	0.000915	0.9	33.81	111.6	0.22
Chippewa	Lower	2209.146	10-Jun-89	12.6	201.75	203.58		203.62	0.001077	0.9	15.54	31.33	0.24
Chippewa	Lower	2209.146	18-May-90	13.1	201.75	203.62		203.66	0.001065	0.91	16.85	37.49	0.24
Chippewa	Lower	2209.146	27-Oct-91	5.9	201.75	202.97		203	0.00112	0.71	8.27	8.84	0.24
Chippewa	Lower	2206.984	25-Jul-77	18.7	201.69	203.92	202.59	203.98	0.000739	1.07	17.42	121.48	0.23
Chippewa	Lower	2206.984	15-Sep-78	15.1	201.69	203.75	202.48	203.79	0.00064	0.94	15.99	71.98	0.21
Chippewa	Lower	2206.984	29-Jul-86	16.6	201.69	203.82	202.53	203.88	0.000679	1	16.63	111.1	0.22
Chippewa	Lower	2206.984	10-Jun-89	12.6	201.69	203.58	202.4	203.62	0.000598	0.86	14.64	27.73	0.2
Chippewa	Lower	2206.984	18-May-90	13.1	201.69	203.62	202.41	203.66	0.000604	0.88	14.94	33.13	0.21
Chippewa	Lower	2206.984	27-Oct-91	5.9	201.69	202.98	202.15	203	0.000505	0.6	9.77	9.32	0.18
Chippewa	Lower	2195.209		Culvert									
Chippewa	Lower	2183.809	25-Jul-77	18.7	201.6	203.89	202.5	203.95	0.000677	1.04	17.91	107.82	0.22
Chippewa	Lower	2183.809	15-Sep-78	15.1	201.6	203.73	202.39	203.77	0.000575	0.91	16.54	80.44	0.2
Chippewa	Lower	2183.809	29-Jul-86	16.6	201.6	203.8	202.43	203.85	0.000616	0.97	17.15	92.06	0.21
Chippewa	Lower	2183.809	10-Jun-89	12.6	201.6	203.56	202.31	203.6	0.000529	0.83	15.22	48.07	0.19
Chippewa	Lower	2183.809	18-May-90	13.1	201.6	203.6	202.33	203.63	0.000536	0.84	15.52	53.14	0.19
Chippewa	Lower	2183.809	27-Oct-91	5.9	201.6	202.97	202.06	202.99	0.000409	0.57	10.43	11.1	0.16
Chippewa	Lower	2181.614	25-Jul-77	18.7	201.61	203.91		203.93	0.000541	0.79	50.15	120.18	0.18
Chippewa	Lower	2181.614	15-Sep-78	15.1	201.61	203.73		203.76	0.000618	0.79	31.3	93.69	0.19
Chippewa	Lower	2181.614	29-Jul-86	16.6	201.61	203.81		203.84	0.000586	0.8	39.08	104.86	0.19
Chippewa	Lower	2181.614	10-Jun-89	12.6	201.61	203.56		203.59	0.000665	0.77	20.38	44.21	0.2
Chippewa	Lower	2181.614	18-May-90	13.1	201.61	203.6		203.63	0.000654	0.78	22.12	51.83	0.19
Chippewa	Lower	2181.614	27-Oct-91	5.9	201.61	202.97		202.99	0.000563	0.58	10.34	10.41	0.17
Chippewa	Lower	2048.803	25-Jul-77	18.7	201.45	203.86		203.87	0.000402	0.65	62.81	76.06	0.16
Chippewa	Lower	2048.803	15-Sep-78	15.1	201.45	203.67		203.69	0.000463	0.65	49.43	69.02	0.16
Chippewa	Lower	2048.803	29-Jul-86	16.6	201.45	203.76		203.77	0.00043	0.65	55.24	73.57	0.16
Chippewa	Lower	2048.803	10-Jun-89	12.6	201.45	203.49		203.51	0.000621	0.69	37.27	63.64	0.19
Chippewa	Lower	2048.803	18-May-90	13.1	201.45	203.53		203.55	0.000572	0.68	39.97	63.97	0.18
Chippewa	Lower	2048.803	27-Oct-91	5.9	201.45	202.82		202.86	0.001749	0.86	6.89	7.76	0.29
Chippewa	Lower	2047.472	25-Jul-77	18.7	201.47	203.86	202.94	203.87	0.000382	0.71	65.07	77.2	0.16
Chippewa	Lower	2047.472	15-Sep-78	15.1	201.47	203.67	202.78	203.69	0.000427	0.71	51.63	69.5	0.17
Chippewa	Lower	2047.472	29-Jul-86	16.6	201.47	203.75	202.85	203.77	0.000403	0.71	57.43	73.02	0.16
Chippewa	Lower	2047.472	10-Jun-89	12.6	201.47	203.34	202.66	203.49	0.002884	1.74	7.22	62.01	0.44
Chippewa	Lower	2047.472	18-May-90	13.1	201.47	203.37	202.68	203.53	0.002901	1.77	7.38	62.23	0.44
Chippewa	Lower	2047.472	27-Oct-91	5.9	201.47	202.77	202.29	202.85	0.002665	1.26	4.69	7.32	0.39
Chippewa	Lower	2040.214		Culvert									
Chippewa	Lower	2032.714	25-Jul-77	18.7	201.63	203.83	203.08	203.84	0.000476	0.69	64.2	77.55	0.16
Chippewa	Lower	2032.714	15-Sep-78	15.1	201.63	203.26	202.92	203.56	0.006552	2.42	6.23	59.04	0.66
Chippewa	Lower	2032.714	29-Jul-86	16.6	201.63	203.38	202.99	203.69	0.005953	2.44	6.79	65.34	0.64
Chippewa	Lower	2032.714	10-Jun-89	12.6	201.63	203.11	202.8	203.37	0.006761	2.27	5.54	51.73	0.65
Chippewa	Lower	2032.714	18-May-90	13.1	201.63	203.12	202.83	203.4	0.006979	2.33	5.62	53.97	0.67
Chippewa	Lower	2032.714	27-Oct-91	5.9	201.63	202.7	202.44	202.83	0.005711	1.6	3.7	6.56	0.56
Chippewa	Lower	2030.24	25-Jul-77	18.7	201.52	203.82		203.84	0.000408	0.74	63.14	74.57	0.16
Chippewa	Lower	2030.24	15-Sep-78	15.1	201.52	203.38		203.43	0.001089	1.03	32.44	65.66	0.26
Chippewa	Lower	2030.24	29-Jul-86	16.6	201.52	203.52		203.55	0.000821	0.94	41.29	68.05	0.22
Chippewa	Lower	2030.24	10-Jun-89	12.6	201.52	203.21		203.26	0.001428	1.09	21.62	53.77	0.29
Chippewa	Lower	2030.24	18-May-90	13.1	201.52	203.23		203.28	0.001415	1.1	22.91	54.3	0.29
Chippewa	Lower	2030.24	27-Oct-91	5.9	201.52	202.74		202.77	0.001545	0.88	6.85	7.48	0.28

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	1937	25-Jul-77	18.7	201.5	203.77		203.8	0.000558	0.78	44.15	41.57	0.18
Chippewa	Lower	1937	15-Sep-78	15.1	201.5	203.26		203.3	0.001615	1.07	23.6	35.89	0.3
Chippewa	Lower	1937	29-Jul-86	16.6	201.5	203.42		203.46	0.001164	0.98	29.78	39.06	0.26
Chippewa	Lower	1937	10-Jun-89	12.6	201.5	203		203.07	0.002842	1.23	15.09	31.8	0.38
Chippewa	Lower	1937	18-May-90	13.1	201.5	203.03		203.1	0.002744	1.23	16	32.33	0.37
Chippewa	Lower	1937	27-Oct-91	5.9	201.5	202.45		202.53	0.005159	1.24	4.77	6.81	0.47
Chippewa	Lower	1860.01	25-Jul-77	19.3	201.2	203.73		203.76	0.000436	0.77	45.34	60.74	0.17
Chippewa	Lower	1860.01	15-Sep-78	15.6	201.2	203.15		203.2	0.001124	1	20	32.92	0.26
Chippewa	Lower	1860.01	29-Jul-86	17	201.2	203.34		203.38	0.000812	0.92	26.98	38.86	0.22
Chippewa	Lower	1860.01	10-Jun-89	13.2	201.2	202.83		202.9	0.001885	1.11	12.32	12.24	0.32
Chippewa	Lower	1860.01	18-May-90	13.5	201.2	202.87		202.93	0.001783	1.1	12.77	12.86	0.32
Chippewa	Lower	1860.01	27-Oct-91	6	201.2	202.04		202.12	0.005392	1.26	4.76	7.36	0.5
Chippewa	Lower	1857.965	25-Jul-77	19.3	201.16	203.73	202.21	203.76	0.000398	0.76	42.74	53.65	0.16
Chippewa	Lower	1857.965	15-Sep-78	15.6	201.16	203.12	202.08	203.19	0.001329	1.22	12.76	30.75	0.29
Chippewa	Lower	1857.965	29-Jul-86	17	201.16	203.3	202.13	203.38	0.001144	1.21	14.05	34.36	0.27
Chippewa	Lower	1857.965	10-Jun-89	13.2	201.16	202.81	202	202.89	0.001755	1.24	10.62	11.28	0.32
Chippewa	Lower	1857.965	18-May-90	13.5	201.16	202.85	202.01	202.93	0.001701	1.24	10.86	12.28	0.32
Chippewa	Lower	1857.965	27-Oct-91	6	201.16	202.05	201.68	202.11	0.003563	1.14	5.27	8.03	0.42
Chippewa	Lower	1838.973		Bridge									
Chippewa	Lower	1822.123	25-Jul-77	19.3	201.04	202.74	202.14	202.91	0.003648	1.82	10.58	15.3	0.47
Chippewa	Lower	1822.123	15-Sep-78	15.6	201.04	202.5	202.03	202.66	0.004193	1.75	8.93	11.36	0.49
Chippewa	Lower	1822.123	29-Jul-86	17	201.04	202.57	202.07	202.74	0.004211	1.81	9.39	13.58	0.5
Chippewa	Lower	1822.123	10-Jun-89	13.2	201.04	202.37	201.94	202.51	0.004303	1.65	8.01	9.24	0.49
Chippewa	Lower	1822.123	18-May-90	13.5	201.04	202.39	201.95	202.53	0.004276	1.66	8.14	9.32	0.49
Chippewa	Lower	1822.123	27-Oct-91	6	201.04	201.82	201.62	201.92	0.007775	1.45	4.14	6.9	0.6
Chippewa	Lower	1817.49	25-Jul-77	19.3	200.96	202.76		202.86	0.002393	1.42	18.34	24.94	0.38
Chippewa	Lower	1817.49	15-Sep-78	15.6	200.96	202.51		202.62	0.003405	1.49	12.28	22.4	0.44
Chippewa	Lower	1817.49	29-Jul-86	17	200.96	202.58		202.69	0.003211	1.5	13.92	23.27	0.43
Chippewa	Lower	1817.49	10-Jun-89	13.2	200.96	202.37		202.48	0.003876	1.46	9.46	16.02	0.46
Chippewa	Lower	1817.49	18-May-90	13.5	200.96	202.39		202.5	0.003805	1.46	9.77	17.22	0.46
Chippewa	Lower	1817.49	27-Oct-91	6	200.96	201.79		201.89	0.006221	1.37	4.37	6.61	0.54
Chippewa	Lower	1796	25-Jul-77	19.3	200.78	202.78		202.81	0.000889	0.95	42.82	69.08	0.24
Chippewa	Lower	1796	15-Sep-78	15.6	200.78	202.5		202.55	0.001532	1.1	25.01	56.9	0.3
Chippewa	Lower	1796	29-Jul-86	17	200.78	202.58		202.63	0.001373	1.08	29.77	63.34	0.29
Chippewa	Lower	1796	10-Jun-89	13.2	200.78	202.34		202.41	0.001984	1.15	16.6	48.73	0.34
Chippewa	Lower	1796	18-May-90	13.5	200.78	202.36		202.43	0.00194	1.15	17.61	49.89	0.34
Chippewa	Lower	1796	27-Oct-91	6	200.78	201.75		201.8	0.002353	1	6.1	7.69	0.35
Chippewa	Lower	1762	25-Jul-77	19.3	200.63	202.75		202.78	0.000861	0.88	44.21	73.03	0.23
Chippewa	Lower	1762	15-Sep-78	15.6	200.63	202.45		202.5	0.001732	1.07	23.79	58.74	0.31
Chippewa	Lower	1762	29-Jul-86	17	200.63	202.53		202.58	0.001461	1.03	29.27	65.72	0.29
Chippewa	Lower	1762	10-Jun-89	13.2	200.63	202.27		202.34	0.001999	1.15	14.66	42.43	0.33
Chippewa	Lower	1762	18-May-90	13.5	200.63	202.29		202.36	0.002011	1.15	15.64	45.89	0.33
Chippewa	Lower	1762	27-Oct-91	6	200.63	201.67		201.72	0.002076	0.94	6.35	7.15	0.32
Chippewa	Lower	1729.323	25-Jul-77	19.3	200.52	202.72		202.76	0.000493	0.86	38.17	52.8	0.19
Chippewa	Lower	1729.323	15-Sep-78	15.6	200.52	202.42		202.46	0.000631	0.88	24.46	39.74	0.21
Chippewa	Lower	1729.323	29-Jul-86	17	200.52	202.51		202.55	0.000625	0.9	28.02	43.55	0.21
Chippewa	Lower	1729.323	10-Jun-89	13.2	200.52	202.26		202.29	0.000658	0.84	19.08	26.57	0.21
Chippewa	Lower	1729.323	18-May-90	13.5	200.52	202.28		202.31	0.000656	0.84	19.65	28.07	0.21
Chippewa	Lower	1729.323	27-Oct-91	6	200.52	201.66		201.68	0.000681	0.62	9.99	11.13	0.2
Chippewa	Lower	1728.033	25-Jul-77	19.3	200.55	202.73	201.39	202.75	0.000397	0.75	49.68	64.55	0.17
Chippewa	Lower	1728.033	15-Sep-78	15.6	200.55	202.43	201.29	202.46	0.000583	0.82	28.12	56.71	0.2
Chippewa	Lower	1728.033	29-Jul-86	17	200.55	202.51	201.33	202.54	0.000539	0.82	36.25	60.51	0.19
Chippewa	Lower	1728.033	10-Jun-89	13.2	200.55	202.26	201.22	202.29	0.000692	0.84	17.02	43.54	0.21
Chippewa	Lower	1728.033	18-May-90	13.5	200.55	202.28	201.23	202.31	0.000692	0.84	17.3	45.9	0.21
Chippewa	Lower	1728.033	27-Oct-91	6	200.55	201.66	200.98	201.68	0.000704	0.62	9.81	10.18	0.2
Chippewa	Lower	1725.239		Bridge									
Chippewa	Lower	1722.239	25-Jul-77	19.3	200.47	202.71	201.47	202.74	0.000532	0.88	50.43	74.79	0.19

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	1722.239	15-Sep-78	15.6	200.47	202.39	201.35	202.45	0.001005	1.08	20.45	61.89	0.26
Chippewa	Lower	1722.239	29-Jul-86	17	200.47	202.49	201.4	202.53	0.000805	1	34.19	70.42	0.23
Chippewa	Lower	1722.239	10-Jun-89	13.2	200.47	202.23	201.26	202.28	0.001086	1.05	14.2	48.27	0.26
Chippewa	Lower	1722.239	18-May-90	13.5	200.47	202.25	201.28	202.3	0.001086	1.06	14.47	50.67	0.26
Chippewa	Lower	1722.239	27-Oct-91	6	200.47	201.64	200.96	201.67	0.001038	0.76	8	8.41	0.24
Chippewa	Lower	1720.406	25-Jul-77	19.3	200.47	202.71		202.74	0.00055	0.88	50.33	72.07	0.19
Chippewa	Lower	1720.406	15-Sep-78	15.6	200.47	202.39		202.44	0.000966	1.04	28.05	66.59	0.25
Chippewa	Lower	1720.406	29-Jul-86	17	200.47	202.49		202.53	0.00084	1.01	34.64	68.5	0.23
Chippewa	Lower	1720.406	10-Jun-89	13.2	200.47	202.22		202.28	0.001156	1.07	17.6	52.77	0.27
Chippewa	Lower	1720.406	18-May-90	13.5	200.47	202.24		202.3	0.001141	1.07	18.77	55.24	0.27
Chippewa	Lower	1720.406	27-Oct-91	6	200.47	201.63		201.66	0.001167	0.8	7.62	7.99	0.25
Chippewa	Lower	1696	25-Jul-77	19.3	200.46	202.7		202.73	0.000566	0.9	42.28	45.28	0.2
Chippewa	Lower	1696	15-Sep-78	15.6	200.46	202.38		202.42	0.000816	0.97	28.61	40.52	0.23
Chippewa	Lower	1696	29-Jul-86	17	200.46	202.47		202.51	0.000746	0.96	32.61	42.06	0.22
Chippewa	Lower	1696	10-Jun-89	13.2	200.46	202.21		202.25	0.000958	0.98	21.73	39.8	0.25
Chippewa	Lower	1696	18-May-90	13.5	200.46	202.23		202.27	0.000938	0.98	22.61	39.88	0.24
Chippewa	Lower	1696	27-Oct-91	6	200.46	201.61		201.64	0.00108	0.78	8.2	8.4	0.24
Chippewa	Lower	1669	25-Jul-77	19.3	200.43	202.65		202.7	0.001398	1.11	28.82	37.93	0.28
Chippewa	Lower	1669	15-Sep-78	15.6	200.43	202.3		202.38	0.002723	1.32	17.47	28.9	0.37
Chippewa	Lower	1669	29-Jul-86	17	200.43	202.41		202.48	0.002251	1.27	20.64	29.52	0.34
Chippewa	Lower	1669	10-Jun-89	13.2	200.43	202.1		202.2	0.003627	1.43	11.91	26.74	0.42
Chippewa	Lower	1669	18-May-90	13.5	200.43	202.12		202.22	0.003478	1.42	12.61	27.08	0.41
Chippewa	Lower	1669	27-Oct-91	6	200.43	201.51		201.58	0.003414	1.18	5.09	5.65	0.4
Chippewa	Lower	1635.788	25-Jul-77	19.3	200.44	202.63		202.67	0.000671	0.94	39.51	53.27	0.21
Chippewa	Lower	1635.788	15-Sep-78	15.6	200.44	202.26		202.31	0.001202	1.09	21.61	41.69	0.27
Chippewa	Lower	1635.788	29-Jul-86	17	200.44	202.37		202.42	0.001034	1.06	26.62	45.45	0.26
Chippewa	Lower	1635.788	10-Jun-89	13.2	200.44	202.05		202.11	0.001552	1.13	13.77	31.63	0.3
Chippewa	Lower	1635.788	18-May-90	13.5	200.44	202.08		202.14	0.001509	1.13	14.67	34.99	0.3
Chippewa	Lower	1635.788	27-Oct-91	6	200.44	201.44		201.49	0.002184	0.92	6.57	8.46	0.33
Chippewa	Lower	1615	25-Jul-77	19.3	200.38	202.62		202.65	0.000807	0.93	46.09	69.59	0.23
Chippewa	Lower	1615	15-Sep-78	15.6	200.38	202.21		202.28	0.002172	1.27	21.86	52.08	0.36
Chippewa	Lower	1615	29-Jul-86	17	200.38	202.34		202.4	0.001541	1.15	29.16	55.51	0.3
Chippewa	Lower	1615	10-Jun-89	13.2	200.38	201.99		202.07	0.002561	1.33	13.3	25.35	0.38
Chippewa	Lower	1615	18-May-90	13.5	200.38	202.02		202.1	0.002494	1.32	14.06	26.44	0.38
Chippewa	Lower	1615	27-Oct-91	6	200.38	201.38		201.44	0.002663	1.08	6.4	7.62	0.37
Chippewa	Lower	1584	25-Jul-77	19.3	200.3	202.61		202.63	0.000515	0.79	62.26	89.95	0.18
Chippewa	Lower	1584	15-Sep-78	15.6	200.3	202.15		202.22	0.001739	1.22	23.83	65.69	0.32
Chippewa	Lower	1584	29-Jul-86	17	200.3	202.31		202.35	0.001197	1.07	35.6	84.19	0.27
Chippewa	Lower	1584	10-Jun-89	13.2	200.3	201.9		201.99	0.002447	1.36	11.84	25.82	0.37
Chippewa	Lower	1584	18-May-90	13.5	200.3	201.93		202.02	0.002422	1.36	12.65	31.16	0.37
Chippewa	Lower	1584	27-Oct-91	6	200.3	201.29		201.35	0.002667	1.08	6	7.59	0.37
Chippewa	Lower	1547.497	25-Jul-77	19.3	200.21	202.59		202.61	0.000424	0.79	66.29	124.36	0.17
Chippewa	Lower	1547.497	15-Sep-78	15.6	200.21	202.09		202.16	0.001381	1.2	22.35	57.04	0.3
Chippewa	Lower	1547.497	29-Jul-86	17	200.21	202.27		202.31	0.000957	1.06	33.52	81.83	0.25
Chippewa	Lower	1547.497	10-Jun-89	13.2	200.21	201.82		201.91	0.00215	1.32	11.17	25.61	0.36
Chippewa	Lower	1547.497	18-May-90	13.5	200.21	201.85		201.94	0.002062	1.31	12.03	28.87	0.35
Chippewa	Lower	1547.497	27-Oct-91	6	200.21	201.17		201.23	0.003902	1.16	5.18	7.29	0.44
Chippewa	Lower	1545.754	25-Jul-77	19.3	200.18	202.59	201.31	202.61	0.000425	0.76	65.12	124.35	0.17
Chippewa	Lower	1545.754	15-Sep-78	15.6	200.18	202.06	201.18	202.15	0.001642	1.33	11.71	43.93	0.33
Chippewa	Lower	1545.754	29-Jul-86	17	200.18	202.22	201.23	202.31	0.001462	1.33	12.77	71.93	0.31
Chippewa	Lower	1545.754	10-Jun-89	13.2	200.18	201.81	201.1	201.9	0.002012	1.32	9.97	19.61	0.35
Chippewa	Lower	1545.754	18-May-90	13.5	200.18	201.84	201.11	201.93	0.001963	1.33	10.18	27.15	0.35
Chippewa	Lower	1545.754	27-Oct-91	6	200.18	201.16	200.81	201.23	0.003144	1.1	5.43	7.66	0.4
Chippewa	Lower	1539.339		Bridge									
Chippewa	Lower	1531.839	25-Jul-77	19.3	200.13	201.95	201.22	202.09	0.002647	1.68	11.52	12.36	0.42
Chippewa	Lower	1531.839	15-Sep-78	15.6	200.13	201.72	201.09	201.85	0.002828	1.57	9.94	11.24	0.42
Chippewa	Lower	1531.839	29-Jul-86	17	200.13	201.79	201.14	201.93	0.002829	1.62	10.46	11.56	0.42
Chippewa	Lower	1531.839	10-Jun-89	13.2	200.13	201.59	201.01	201.7	0.002816	1.47	9	10.64	0.41

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	1531.839	18-May-90	13.5	200.13	201.6	201.02	201.71	0.002821	1.48	9.12	10.75	0.41
Chippewa	Lower	1531.839	27-Oct-91	6	200.13	201.12	200.72	201.18	0.002564	1.04	5.77	8.57	0.37
Chippewa	Lower	1529.481	25-Jul-77	19.3	200.07	201.98		202.05	0.001357	1.23	19.74	29.48	0.3
Chippewa	Lower	1529.481	15-Sep-78	15.6	200.07	201.74		201.81	0.001481	1.17	15.71	14.58	0.31
Chippewa	Lower	1529.481	29-Jul-86	17	200.07	201.82		201.89	0.001465	1.2	16.86	14.97	0.31
Chippewa	Lower	1529.481	10-Jun-89	13.2	200.07	201.61		201.67	0.001504	1.1	13.73	13.87	0.3
Chippewa	Lower	1529.481	18-May-90	13.5	200.07	201.62		201.68	0.001504	1.11	13.97	14	0.3
Chippewa	Lower	1529.481	27-Oct-91	6	200.07	201.13		201.16	0.001431	0.8	7.73	11.16	0.28
Chippewa	Lower	1511	25-Jul-77	19.3	199.85	201.95		202.02	0.001287	1.26	26.62	44.76	0.29
Chippewa	Lower	1511	15-Sep-78	15.6	199.85	201.72		201.78	0.00128	1.15	19.34	18.29	0.29
Chippewa	Lower	1511	29-Jul-86	17	199.85	201.8		201.87	0.001357	1.22	21.04	26.35	0.3
Chippewa	Lower	1511	10-Jun-89	13.2	199.85	201.59		201.64	0.001267	1.08	16.92	16.77	0.28
Chippewa	Lower	1511	18-May-90	13.5	199.85	201.6		201.66	0.001269	1.09	17.21	16.88	0.28
Chippewa	Lower	1511	27-Oct-91	6	199.85	201.11		201.14	0.001045	0.77	9.75	13.58	0.24
Chippewa	Lower	1489.093	25-Jul-77	19.3	200.04	201.92		201.98	0.002339	1.48	37.85	77.88	0.37
Chippewa	Lower	1489.093	15-Sep-78	15.6	200.04	201.66		201.74	0.003484	1.6	20.37	40.8	0.44
Chippewa	Lower	1489.093	29-Jul-86	17	200.04	201.74		201.82	0.003099	1.57	24.83	61.38	0.42
Chippewa	Lower	1489.093	10-Jun-89	13.2	200.04	201.5		201.59	0.004167	1.61	15.4	24.42	0.47
Chippewa	Lower	1489.093	18-May-90	13.5	200.04	201.52		201.61	0.004065	1.61	15.89	25.47	0.47
Chippewa	Lower	1489.093	27-Oct-91	6	200.04	200.95		201.08	0.010432	1.72	5.3	12.7	0.68
Chippewa	Lower	1487.229	25-Jul-77	19.3	199.96	201.92	201.32	201.98	0.002207	1.55	40.46	80.57	0.37
Chippewa	Lower	1487.229	15-Sep-78	15.6	199.96	201.49	201.19	201.71	0.007798	2.42	9.74	26.53	0.67
Chippewa	Lower	1487.229	29-Jul-86	17	199.96	201.57	201.24	201.8	0.007629	2.48	10.36	33.93	0.67
Chippewa	Lower	1487.229	10-Jun-89	13.2	199.96	201.36	201.1	201.57	0.008098	2.3	8.63	19.27	0.67
Chippewa	Lower	1487.229	18-May-90	13.5	199.96	201.38	201.11	201.58	0.008061	2.32	8.77	19.75	0.67
Chippewa	Lower	1487.229	27-Oct-91	6	199.96	200.92	200.76	201.06	0.008928	1.79	4.88	13.33	0.65
Chippewa	Lower	1485.03		Bridge									
Chippewa	Lower	1481.03	25-Jul-77	19.3	199.93	201.55	200.98	201.7	0.003317	1.69	11.76	39.19	0.46
Chippewa	Lower	1481.03	15-Sep-78	15.6	199.93	201.39	200.87	201.51	0.003295	1.55	10.34	32.36	0.44
Chippewa	Lower	1481.03	29-Jul-86	17	199.93	201.45	200.92	201.58	0.00328	1.61	10.92	34.53	0.45
Chippewa	Lower	1481.03	10-Jun-89	13.2	199.93	201.27	200.8	201.38	0.003286	1.45	9.34	19.65	0.44
Chippewa	Lower	1481.03	18-May-90	13.5	199.93	201.28	200.81	201.39	0.003286	1.47	9.47	20.89	0.44
Chippewa	Lower	1481.03	27-Oct-91	6	199.93	200.82	200.51	200.88	0.003755	1.11	5.48	10.07	0.43
Chippewa	Lower	1478.395	25-Jul-77	19.3	199.88	201.58		201.65	0.001913	1.3	25.16	46.06	0.35
Chippewa	Lower	1478.395	15-Sep-78	15.6	199.88	201.4		201.48	0.002229	1.28	17.99	35.68	0.37
Chippewa	Lower	1478.395	29-Jul-86	17	199.88	201.47		201.55	0.002099	1.29	20.68	39.45	0.36
Chippewa	Lower	1478.395	10-Jun-89	13.2	199.88	201.28		201.35	0.00246	1.26	13.82	30.84	0.38
Chippewa	Lower	1478.395	18-May-90	13.5	199.88	201.29		201.37	0.002432	1.26	14.33	31.75	0.38
Chippewa	Lower	1478.395	27-Oct-91	6	199.88	200.81		200.87	0.003288	1.03	5.92	10.6	0.4
Chippewa	Lower	1429	25-Jul-77	19.3	199.58	201.51		201.58	0.001218	1.21	22.52	25.03	0.29
Chippewa	Lower	1429	15-Sep-78	15.6	199.58	201.34		201.4	0.001131	1.09	18.96	19.11	0.28
Chippewa	Lower	1429	29-Jul-86	17	199.58	201.41		201.47	0.001145	1.13	20.35	20.24	0.28
Chippewa	Lower	1429	10-Jun-89	13.2	199.58	201.22		201.27	0.001081	1.01	16.76	17.53	0.27
Chippewa	Lower	1429	18-May-90	13.5	199.58	201.24		201.28	0.001087	1.02	17.03	17.72	0.27
Chippewa	Lower	1429	27-Oct-91	6	199.58	200.76		200.79	0.000861	0.7	9.76	13.18	0.22
Chippewa	Lower	1354.976	25-Jul-77	19.3	199.51	201.41		201.48	0.00134	1.23	21.35	32.97	0.3
Chippewa	Lower	1354.976	15-Sep-78	15.6	199.51	201.25		201.31	0.001239	1.11	17.9	16.72	0.28
Chippewa	Lower	1354.976	29-Jul-86	17	199.51	201.32		201.38	0.001261	1.15	19.08	18.56	0.29
Chippewa	Lower	1354.976	10-Jun-89	13.2	199.51	201.13		201.18	0.001176	1.03	16	16.09	0.27
Chippewa	Lower	1354.976	18-May-90	13.5	199.51	201.15		201.2	0.001185	1.04	16.24	16.15	0.27
Chippewa	Lower	1354.976	27-Oct-91	6	199.51	200.7		200.72	0.000888	0.7	9.61	12.92	0.22
Chippewa	Lower	1305	25-Jul-77	19.3	199.53	201.33		201.41	0.001691	1.26	22.83	35.67	0.33
Chippewa	Lower	1305	15-Sep-78	15.6	199.53	201.17		201.23	0.00168	1.17	17.59	24.16	0.32
Chippewa	Lower	1305	29-Jul-86	17	199.53	201.24		201.3	0.001737	1.23	19.42	33.54	0.33
Chippewa	Lower	1305	10-Jun-89	13.2	199.53	201.06		201.11	0.001649	1.09	15.36	17.35	0.31
Chippewa	Lower	1305	18-May-90	13.5	199.53	201.07		201.13	0.001652	1.1	15.62	17.45	0.31
Chippewa	Lower	1305	27-Oct-91	6	199.53	200.63		200.66	0.001483	0.78	8.93	13.69	0.28

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	1240.372	25-Jul-77	19.3	199.36	201.24		201.3	0.001561	1.19	21.86	18.15	0.32
Chippewa	Lower	1240.372	15-Sep-78	15.6	199.36	201.07		201.13	0.001539	1.09	18.99	17.56	0.31
Chippewa	Lower	1240.372	29-Jul-86	17	199.36	201.14		201.2	0.001543	1.13	20.12	17.79	0.31
Chippewa	Lower	1240.372	10-Jun-89	13.2	199.36	200.96		201.01	0.001517	1.02	17.04	17.14	0.3
Chippewa	Lower	1240.372	18-May-90	13.5	199.36	200.98		201.03	0.00152	1.03	17.29	17.19	0.3
Chippewa	Lower	1240.372	27-Oct-91	6	199.36	200.54		200.57	0.001491	0.75	10.13	15.45	0.28
Chippewa	Lower	1237.096	25-Jul-77	19.3	199.37	201.21	200.5	201.29	0.001985	1.41	18.82	16.38	0.36
Chippewa	Lower	1237.096	15-Sep-78	15.6	199.37	201.05	200.4	201.12	0.001883	1.28	16.7	16.08	0.34
Chippewa	Lower	1237.096	29-Jul-86	17	199.37	201.11	200.44	201.19	0.001918	1.33	17.54	16.2	0.35
Chippewa	Lower	1237.096	10-Jun-89	13.2	199.37	200.94	200.33	201	0.001801	1.18	15.2	15.87	0.33
Chippewa	Lower	1237.096	18-May-90	13.5	199.37	200.96	200.35	201.02	0.001811	1.19	15.39	15.9	0.33
Chippewa	Lower	1237.096	27-Oct-91	6	199.37	200.53	200.03	200.56	0.001474	0.83	9.58	14.88	0.28
Chippewa	Lower	1224.539		Bridge									
Chippewa	Lower	1210.539	25-Jul-77	19.3	199.48	200.71	200.71	201.08	0.014841	2.84	8.8	15.72	0.91
Chippewa	Lower	1210.539	15-Sep-78	15.6	199.48	200.57	200.57	200.92	0.016494	2.71	7.07	13.71	0.94
Chippewa	Lower	1210.539	29-Jul-86	17	199.48	200.61	200.61	200.98	0.016625	2.8	7.54	14.26	0.95
Chippewa	Lower	1210.539	10-Jun-89	13.2	199.48	200.49	200.49	200.81	0.016815	2.56	6.17	12.83	0.93
Chippewa	Lower	1210.539	18-May-90	13.5	199.48	200.5	200.5	200.82	0.016759	2.58	6.29	12.89	0.93
Chippewa	Lower	1210.539	27-Oct-91	6	199.48	200.17	200.17	200.4	0.02233	2.08	2.91	8.66	0.98
Chippewa	Lower	1204.131	25-Jul-77	19.3	199.15	200.61	200.37	200.87	0.009763	2.27	8.5	8.63	0.71
Chippewa	Lower	1204.131	15-Sep-78	15.6	199.15	200.52	200.24	200.73	0.008184	1.99	7.82	8.1	0.65
Chippewa	Lower	1204.131	29-Jul-86	17	199.15	200.56	200.29	200.78	0.008725	2.09	8.12	8.19	0.67
Chippewa	Lower	1204.131	10-Jun-89	13.2	199.15	200.46	200.14	200.62	0.007179	1.81	7.29	7.93	0.6
Chippewa	Lower	1204.131	18-May-90	13.5	199.15	200.47	200.16	200.64	0.007275	1.83	7.37	7.95	0.61
Chippewa	Lower	1204.131	27-Oct-91	6	199.15	200.1	199.78	200.19	0.005057	1.29	4.66	6.6	0.49
Chippewa	Lower	1118	25-Jul-77	19.3	198.58	199.7	199.67	199.94	0.011863	2.31	12.11	27.98	0.8
Chippewa	Lower	1118	15-Sep-78	15.6	198.58	199.59	199.58	199.83	0.013733	2.25	9.11	24	0.84
Chippewa	Lower	1118	29-Jul-86	17	198.58	199.63	199.61	199.88	0.013077	2.29	10.18	25.98	0.83
Chippewa	Lower	1118	10-Jun-89	13.2	198.58	199.5	199.5	199.75	0.015494	2.21	7.21	22.28	0.87
Chippewa	Lower	1118	18-May-90	13.5	198.58	199.52	199.51	199.76	0.015292	2.22	7.45	22.66	0.87
Chippewa	Lower	1118	27-Oct-91	6	198.58	199.14	199.14	199.36	0.023888	2.07	2.9	6.79	1.01
Chippewa	Lower	1056	25-Jul-77	19.3	197.89	199.47		199.58	0.002916	1.51	19.36	36.83	0.42
Chippewa	Lower	1056	15-Sep-78	15.6	197.89	199.31		199.42	0.003323	1.48	13.7	30.94	0.44
Chippewa	Lower	1056	29-Jul-86	17	197.89	199.38		199.48	0.003121	1.49	15.92	35.22	0.43
Chippewa	Lower	1056	10-Jun-89	13.2	197.89	199.21		199.31	0.003461	1.42	10.74	26.51	0.44
Chippewa	Lower	1056	18-May-90	13.5	197.89	199.22		199.32	0.003454	1.43	11.09	26.98	0.44
Chippewa	Lower	1056	27-Oct-91	6	197.89	198.78	198.4	198.84	0.003063	1.05	5.71	7.87	0.39
Chippewa	Lower	1013	25-Jul-77	19.3	197.66	199.48		199.5	0.000682	0.83	45.4	57.7	0.21
Chippewa	Lower	1013	15-Sep-78	15.6	197.66	199.31		199.33	0.000773	0.82	35.68	56.68	0.22
Chippewa	Lower	1013	29-Jul-86	17	197.66	199.38		199.4	0.000721	0.82	39.75	57.06	0.21
Chippewa	Lower	1013	10-Jun-89	13.2	197.66	199.19		199.22	0.00083	0.8	29.33	55.96	0.23
Chippewa	Lower	1013	18-May-90	13.5	197.66	199.21		199.23	0.000824	0.81	30.13	56.08	0.23
Chippewa	Lower	1013	27-Oct-91	6	197.66	198.73		198.76	0.001131	0.7	9.89	24.78	0.24
Chippewa	Lower	940.4304	25-Jul-77	20.4	197.42	199.34		199.42	0.001603	1.3	17.41	13.43	0.32
Chippewa	Lower	940.4304	15-Sep-78	16.5	197.42	199.18		199.25	0.001461	1.16	15.38	13.01	0.3
Chippewa	Lower	940.4304	29-Jul-86	18.1	197.42	199.25		199.32	0.001523	1.22	16.23	13.19	0.31
Chippewa	Lower	940.4304	10-Jun-89	14	197.42	199.08		199.14	0.001326	1.06	14.1	12.68	0.28
Chippewa	Lower	940.4304	18-May-90	14.3	197.42	199.1		199.15	0.001342	1.07	14.26	12.72	0.28
Chippewa	Lower	940.4304	27-Oct-91	6.4	197.42	198.66		198.68	0.000892	0.69	9.26	9.22	0.22
Chippewa	Lower	880	25-Jul-77	20.4	197.49	199.25		199.31	0.001749	1.2	32.1	66.93	0.33
Chippewa	Lower	880	15-Sep-78	16.5	197.49	199.08		199.14	0.002185	1.23	21.05	53.19	0.36
Chippewa	Lower	880	29-Jul-86	18.1	197.49	199.15		199.21	0.002009	1.23	25.35	63.02	0.35
Chippewa	Lower	880	10-Jun-89	14	197.49	198.97		199.03	0.00237	1.2	16.19	36.3	0.37
Chippewa	Lower	880	18-May-90	14.3	197.49	198.98		199.05	0.002357	1.21	16.68	37.71	0.37
Chippewa	Lower	880	27-Oct-91	6.4	197.49	198.54		198.59	0.002994	0.97	6.86	13.67	0.38
Chippewa	Lower	826.4708	25-Jul-77	20.4	197.41	199.19		199.23	0.001237	1.01	35.43	45.17	0.27
Chippewa	Lower	826.4708	15-Sep-78	16.5	197.41	198.99		199.04	0.001564	1.03	26.78	43.8	0.29
Chippewa	Lower	826.4708	29-Jul-86	18.1	197.41	199.08		199.12	0.001409	1.02	30.39	44.47	0.28

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	826.4708	10-Jun-89	14	197.41	198.87		198.92	0.001756	1.03	21.53	42.19	0.31
Chippewa	Lower	826.4708	18-May-90	14.3	197.41	198.89		198.93	0.001731	1.03	22.16	42.3	0.31
Chippewa	Lower	826.4708	27-Oct-91	6.4	197.41	198.42		198.46	0.001991	0.88	7.24	9.95	0.31
Chippewa	Lower	787.1953	25-Jul-77	20.7	197.4	198.86		199.11	0.008442	2.23	9.78	10.09	0.67
Chippewa	Lower	787.1953	15-Sep-78	16.8	197.4	198.62		198.89	0.011167	2.28	7.53	9.13	0.74
Chippewa	Lower	787.1953	29-Jul-86	18.5	197.4	198.72		198.98	0.010114	2.28	8.4	9.64	0.72
Chippewa	Lower	787.1953	10-Jun-89	14.3	197.4	198.5		198.75	0.012392	2.23	6.45	8.43	0.77
Chippewa	Lower	787.1953	18-May-90	14.6	197.4	198.52		198.77	0.012248	2.24	6.57	8.51	0.77
Chippewa	Lower	787.1953	27-Oct-91	6.6	197.4	198.11		198.28	0.014374	1.81	3.64	6.69	0.78
Chippewa	Lower	785.4911	25-Jul-77	20.7	197.34	198.86	198.51	199.09	0.007151	2.11	9.94	9.2	0.61
Chippewa	Lower	785.4911	15-Sep-78	16.8	197.34	198.63	198.38	198.86	0.008974	2.1	8	8.18	0.67
Chippewa	Lower	785.4911	29-Jul-86	18.5	197.34	198.72	198.44	198.95	0.008294	2.13	8.75	8.44	0.65
Chippewa	Lower	785.4911	10-Jun-89	14.3	197.34	198.51	198.29	198.72	0.009771	2.04	7.02	7.83	0.69
Chippewa	Lower	785.4911	18-May-90	14.6	197.34	198.53	198.3	198.74	0.0097	2.05	7.13	7.87	0.69
Chippewa	Lower	785.4911	27-Oct-91	6.6	197.34	198.12	197.98	198.25	0.010265	1.61	4.1	7.04	0.67
Chippewa	Lower	785.233		Bridge									
Chippewa	Lower	779.3953	25-Jul-77	20.7	197.29	198.86	198.3	199.01	0.004417	1.71	12.12	9.44	0.48
Chippewa	Lower	779.3953	15-Sep-78	16.8	197.29	198.61	198.19	198.76	0.005274	1.7	9.86	8.94	0.52
Chippewa	Lower	779.3953	29-Jul-86	18.5	197.29	198.71	198.24	198.86	0.004937	1.72	10.78	9.15	0.5
Chippewa	Lower	779.3953	10-Jun-89	14.3	197.29	198.48	198.11	198.62	0.005567	1.65	8.68	8.71	0.53
Chippewa	Lower	779.3953	18-May-90	14.6	197.29	198.49	198.12	198.63	0.005536	1.66	8.81	8.73	0.53
Chippewa	Lower	779.3953	27-Oct-91	6.6	197.29	198	197.81	198.1	0.007912	1.42	4.66	8.06	0.59
Chippewa	Lower	776.164	25-Jul-77	20.7	197.16	198.87		198.97	0.003051	1.43	14.46	11.51	0.41
Chippewa	Lower	776.164	15-Sep-78	16.8	197.16	198.62		198.73	0.00375	1.44	11.66	10.86	0.44
Chippewa	Lower	776.164	29-Jul-86	18.5	197.16	198.72		198.83	0.003481	1.44	12.8	11.18	0.43
Chippewa	Lower	776.164	10-Jun-89	14.3	197.16	198.48		198.58	0.004011	1.4	10.19	10.47	0.45
Chippewa	Lower	776.164	18-May-90	14.6	197.16	198.5		198.6	0.003985	1.41	10.36	10.52	0.45
Chippewa	Lower	776.164	27-Oct-91	6.6	197.16	198		198.07	0.004668	1.18	5.59	8.55	0.47
Chippewa	Lower	760	25-Jul-77	20.7	196.99	198.85		198.92	0.002008	1.22	21.26	30.65	0.35
Chippewa	Lower	760	15-Sep-78	16.8	196.99	198.6		198.66	0.002402	1.19	16.04	14.85	0.37
Chippewa	Lower	760	29-Jul-86	18.5	196.99	198.71		198.77	0.00222	1.18	17.68	16.04	0.36
Chippewa	Lower	760	10-Jun-89	14.3	196.99	198.46		198.52	0.002392	1.16	14.04	13.54	0.37
Chippewa	Lower	760	18-May-90	14.6	196.99	198.47		198.54	0.002402	1.16	14.27	13.69	0.37
Chippewa	Lower	760	27-Oct-91	6.6	196.99	197.97		198.01	0.001959	0.9	8.35	10.5	0.32
Chippewa	Lower	743	25-Jul-77	20.7	197	198.85		198.89	0.001019	0.98	35.95	44.36	0.26
Chippewa	Lower	743	15-Sep-78	16.8	197	198.58		198.63	0.001629	1.08	24.02	41.45	0.31
Chippewa	Lower	743	29-Jul-86	18.5	197	198.69		198.74	0.001333	1.04	28.97	42.94	0.29
Chippewa	Lower	743	10-Jun-89	14.3	197	198.43		198.48	0.002036	1.1	18.17	36.71	0.34
Chippewa	Lower	743	18-May-90	14.6	197	198.44		198.5	0.001985	1.1	18.82	37.2	0.34
Chippewa	Lower	743	27-Oct-91	6.6	197	197.94		197.98	0.001873	0.86	9.04	11.61	0.31
Chippewa	Lower	718	25-Jul-77	20.7	196.96	198.82		198.86	0.00108	1.04	33.55	38.64	0.27
Chippewa	Lower	718	15-Sep-78	16.8	196.96	198.52		198.58	0.001769	1.15	22.33	36.93	0.33
Chippewa	Lower	718	29-Jul-86	18.5	196.96	198.65		198.7	0.001424	1.1	27.06	38.08	0.3
Chippewa	Lower	718	10-Jun-89	14.3	196.96	198.36		198.43	0.002301	1.19	16.41	34.67	0.37
Chippewa	Lower	718	18-May-90	14.6	196.96	198.38		198.44	0.002236	1.19	17.07	35.11	0.36
Chippewa	Lower	718	27-Oct-91	6.6	196.96	197.87		197.92	0.002568	0.97	7.87	11.55	0.36
Chippewa	Lower	696	25-Jul-77	20.7	196.94	198.69		198.82	0.003436	1.61	14.59	28.98	0.45
Chippewa	Lower	696	15-Sep-78	16.8	196.94	198.35		198.51	0.005716	1.77	9.51	10.19	0.56
Chippewa	Lower	696	29-Jul-86	18.5	196.94	198.49		198.64	0.004568	1.7	11.06	11.68	0.51
Chippewa	Lower	696	10-Jun-89	14.3	196.94	198.16		198.33	0.007318	1.84	7.78	8.73	0.62
Chippewa	Lower	696	18-May-90	14.6	196.94	198.18		198.35	0.007129	1.83	7.97	8.81	0.61
Chippewa	Lower	696	27-Oct-91	6.6	196.94	197.57	197.54	197.78	0.019438	2.04	3.24	6.64	0.93
Chippewa	Lower	693	25-Jul-77	20.7	196.93	198.7	197.98	198.8	0.002824	1.38	14.96	12.36	0.4
Chippewa	Lower	693	15-Sep-78	16.8	196.93	198.37	197.87	198.48	0.003959	1.5	11.19	10.47	0.46
Chippewa	Lower	693	29-Jul-86	18.5	196.93	198.51	197.93	198.62	0.003381	1.45	12.73	11.04	0.43
Chippewa	Lower	693	10-Jun-89	14.3	196.93	198.18	197.8	198.3	0.004966	1.54	9.27	9.99	0.51
Chippewa	Lower	693	18-May-90	14.6	196.93	198.2	197.81	198.32	0.004826	1.54	9.49	10.04	0.51
Chippewa	Lower	693	27-Oct-91	6.6	196.93	197.5	197.5	197.71	0.023542	2.04	3.24	7.75	1.01

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	680.523		Culvert									
Chippewa	Lower	662	25-Jul-77	20.7	196.62	198.6		198.64	0.000959	0.97	32.37	47.78	0.25
Chippewa	Lower	662	15-Sep-78	16.8	196.62	198.3		198.36	0.001447	1.04	20.3	31.74	0.3
Chippewa	Lower	662	29-Jul-86	18.5	196.62	198.43		198.48	0.001235	1.02	24.79	40.76	0.28
Chippewa	Lower	662	10-Jun-89	14.3	196.62	198.15		198.2	0.001746	1.04	15.74	26.62	0.32
Chippewa	Lower	662	18-May-90	14.6	196.62	198.16		198.22	0.001711	1.04	16.24	27.49	0.32
Chippewa	Lower	662	27-Oct-91	6.6	196.62	197.61		197.65	0.002372	0.92	7.2	10.14	0.35
Chippewa	Lower	656	25-Jul-77	20.7	196.47	198.61		198.63	0.000308	0.62	56.85	59.15	0.15
Chippewa	Lower	656	15-Sep-78	16.8	196.47	198.32		198.34	0.000436	0.65	40.3	55.24	0.17
Chippewa	Lower	656	29-Jul-86	18.5	196.47	198.45		198.46	0.000374	0.64	47.3	57.01	0.16
Chippewa	Lower	656	10-Jun-89	14.3	196.47	198.16		198.18	0.000513	0.66	31.65	53.73	0.18
Chippewa	Lower	656	18-May-90	14.6	196.47	198.18		198.2	0.000504	0.66	32.64	53.94	0.18
Chippewa	Lower	656	27-Oct-91	6.6	196.47	197.62		197.63	0.000702	0.56	11.93	15.4	0.2
Chippewa	Lower	642	25-Jul-77	20.7	196.5	198.61		198.62	0.000285	0.59	64.65	73.35	0.14
Chippewa	Lower	642	15-Sep-78	16.8	196.5	198.32		198.34	0.000428	0.65	43.83	67.86	0.17
Chippewa	Lower	642	29-Jul-86	18.5	196.5	198.44		198.46	0.000358	0.62	52.61	71.86	0.16
Chippewa	Lower	642	10-Jun-89	14.3	196.5	198.16		198.18	0.000511	0.65	33.79	58.11	0.18
Chippewa	Lower	642	18-May-90	14.6	196.5	198.18		198.2	0.000501	0.65	34.88	58.44	0.18
Chippewa	Lower	642	27-Oct-91	6.6	196.5	197.61		197.62	0.000748	0.58	11.51	14.87	0.2
Chippewa	Lower	625	25-Jul-77	20.7	196.49	198.6		198.62	0.000465	0.68	63.42	76.67	0.17
Chippewa	Lower	625	15-Sep-78	16.8	196.49	198.3		198.32	0.000878	0.81	40.85	72.88	0.23
Chippewa	Lower	625	29-Jul-86	18.5	196.49	198.43		198.45	0.000651	0.74	50.55	74.76	0.2
Chippewa	Lower	625	10-Jun-89	14.3	196.49	198.13		198.16	0.001297	0.89	28.98	67.58	0.27
Chippewa	Lower	625	18-May-90	14.6	196.49	198.15		198.18	0.001234	0.88	30.35	67.98	0.27
Chippewa	Lower	625	27-Oct-91	6.6	196.49	197.54		197.6	0.003057	1.03	6.45	9.81	0.39
Chippewa	Lower	612	25-Jul-77	20.7	196.56	198.54	197.68	198.6	0.001168	1.1	27.31	58.6	0.28
Chippewa	Lower	612	15-Sep-78	16.8	196.56	198.23	197.57	198.3	0.001747	1.17	18.43	44.85	0.33
Chippewa	Lower	612	29-Jul-86	18.5	196.56	198.37	197.62	198.43	0.001436	1.13	22.06	48.41	0.3
Chippewa	Lower	612	10-Jun-89	14.3	196.56	198.06	197.45	198.13	0.002157	1.18	14.45	39.52	0.35
Chippewa	Lower	612	18-May-90	14.6	196.56	198.08	197.46	198.15	0.002104	1.18	14.88	40.26	0.35
Chippewa	Lower	612	27-Oct-91	6.6	196.56	197.45	197.12	197.52	0.004413	1.19	5.56	17.4	0.46
Chippewa	Lower	599	25-Jul-77	20.7	196.43	198.48		198.57	0.001935	1.4	16.68	16.31	0.35
Chippewa	Lower	599	15-Sep-78	16.8	196.43	198.16		198.26	0.002691	1.43	12.4	12.33	0.4
Chippewa	Lower	599	29-Jul-86	18.5	196.43	198.3		198.4	0.0023	1.42	14.16	12.94	0.38
Chippewa	Lower	599	10-Jun-89	14.3	196.43	197.99		198.09	0.003166	1.41	10.37	10.64	0.42
Chippewa	Lower	599	18-May-90	14.6	196.43	198.01		198.11	0.003109	1.42	10.59	10.76	0.42
Chippewa	Lower	599	27-Oct-91	6.6	196.43	197.35		197.45	0.006141	1.4	4.7	6.83	0.54
Chippewa	Lower	587	25-Jul-77	20.7	196.38	198.49		198.55	0.000933	1.11	29.1	27.93	0.26
Chippewa	Lower	587	15-Sep-78	16.8	196.38	198.17		198.23	0.001269	1.15	20.81	22.2	0.29
Chippewa	Lower	587	29-Jul-86	18.5	196.38	198.31		198.37	0.001118	1.14	24.29	25.47	0.28
Chippewa	Lower	587	10-Jun-89	14.3	196.38	197.99		198.05	0.001451	1.14	17.02	20.52	0.3
Chippewa	Lower	587	18-May-90	14.6	196.38	198.01		198.07	0.001428	1.14	17.45	20.65	0.3
Chippewa	Lower	587	27-Oct-91	6.6	196.38	197.33		197.39	0.002908	1.07	6.42	11.96	0.39
Chippewa	Lower	583	25-Jul-77	20.7	196.4	198.48	197.45	198.54	0.001044	1.16	24.39	19.66	0.27
Chippewa	Lower	583	15-Sep-78	16.8	196.4	198.16	197.34	198.22	0.001323	1.16	18.72	16.66	0.29
Chippewa	Lower	583	29-Jul-86	18.5	196.4	198.3	197.4	198.36	0.001181	1.16	21.11	17.61	0.28
Chippewa	Lower	583	10-Jun-89	14.3	196.4	197.99	197.26	198.05	0.001466	1.13	15.87	15.49	0.3
Chippewa	Lower	583	18-May-90	14.6	196.4	198.01	197.27	198.07	0.001451	1.13	16.19	15.68	0.3
Chippewa	Lower	583	27-Oct-91	6.6	196.4	197.32	196.97	197.38	0.003067	1.06	6.66	12.04	0.39
Chippewa	Lower	558.9447		Culvert									
Chippewa	Lower	534	25-Jul-77	20.7	195.94	198.29		198.34	0.00075	1.03	29.21	41.79	0.23
Chippewa	Lower	534	15-Sep-78	16.8	195.94	198.02		198.07	0.000846	1	20.74	22.82	0.24
Chippewa	Lower	534	29-Jul-86	18.5	195.94	198.15		198.2	0.0008	1.01	24.05	32.22	0.23
Chippewa	Lower	534	10-Jun-89	14.3	195.94	197.88		197.92	0.000838	0.94	17.76	17.77	0.23
Chippewa	Lower	534	18-May-90	14.6	195.94	197.89		197.94	0.000841	0.94	18.07	17.98	0.23
Chippewa	Lower	534	27-Oct-91	6.6	195.94	197.3		197.32	0.000788	0.68	10.07	11.68	0.21

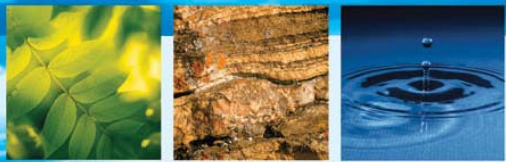
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	526	25-Jul-77	20.7	195.96	198.28		198.33	0.00072	0.99	31.15	49.21	0.22
Chippewa	Lower	526	15-Sep-78	16.8	195.96	198.02		198.07	0.000816	0.97	22.27	23.2	0.23
Chippewa	Lower	526	29-Jul-86	18.5	195.96	198.15		198.19	0.000761	0.98	25.5	32.6	0.23
Chippewa	Lower	526	10-Jun-89	14.3	195.96	197.87		197.91	0.00082	0.91	18.98	20.84	0.23
Chippewa	Lower	526	18-May-90	14.6	195.96	197.89		197.93	0.000821	0.92	19.35	21.05	0.23
Chippewa	Lower	526	27-Oct-91	6.6	195.96	197.29		197.32	0.000806	0.68	10.16	11.91	0.21
Chippewa	Lower	511	25-Jul-77	20.7	195.84	198.27	196.99	198.32	0.000724	1.04	27.76	30.81	0.23
Chippewa	Lower	511	15-Sep-78	16.8	195.84	198	196.87	198.05	0.000816	1.01	20.95	24.59	0.24
Chippewa	Lower	511	29-Jul-86	18.5	195.84	198.13	196.92	198.18	0.000761	1.02	24.15	25.72	0.23
Chippewa	Lower	511	10-Jun-89	14.3	195.84	197.86	196.77	197.9	0.000794	0.94	17.82	17.02	0.23
Chippewa	Lower	511	18-May-90	14.6	195.84	197.87	196.79	197.92	0.000797	0.95	18.11	17.21	0.23
Chippewa	Lower	511	27-Oct-91	6.6	195.84	197.28	196.46	197.3	0.000706	0.67	10.27	9.93	0.2
Chippewa	Lower	490.9918	25-Jul-77	20.7	195.92	198.25	196.97	198.3	0.000779	1.04	29.77	35.06	0.23
Chippewa	Lower	490.9918	15-Sep-78	16.8	195.92	197.98	196.85	198.04	0.000896	1.02	21.26	25.06	0.24
Chippewa	Lower	490.9918	29-Jul-86	18.5	195.92	198.11	196.9	198.16	0.000834	1.03	25.07	31.94	0.23
Chippewa	Lower	490.9918	10-Jun-89	14.3	195.92	197.84	196.77	197.88	0.000891	0.96	17.89	21.08	0.24
Chippewa	Lower	490.9918	18-May-90	14.6	195.92	197.85	196.78	197.9	0.000894	0.97	18.26	21.51	0.24
Chippewa	Lower	490.9918	27-Oct-91	6.6	195.92	197.26	196.46	197.29	0.00079	0.69	9.82	10.34	0.21
Chippewa	Lower	486.9546	25-Jul-77	20.7	195.89	198.23	197.03	198.3	0.001009	1.18	17.52	34.02	0.26
Chippewa	Lower	486.9546	15-Sep-78	16.8	195.89	197.97	196.91	198.03	0.001044	1.1	15.3	21.66	0.26
Chippewa	Lower	486.9546	29-Jul-86	18.5	195.89	198.09	196.97	198.16	0.001011	1.13	16.37	25.87	0.26
Chippewa	Lower	486.9546	10-Jun-89	14.3	195.89	197.83	196.83	197.88	0.001	1.02	14.07	18.9	0.25
Chippewa	Lower	486.9546	18-May-90	14.6	195.89	197.84	196.85	197.9	0.001008	1.03	14.22	19.02	0.26
Chippewa	Lower	486.9546	27-Oct-91	6.6	195.89	197.26	196.53	197.29	0.000886	0.72	9.18	11.97	0.22
Chippewa	Lower	466.612		Culvert									
Chippewa	Lower	445.1122	25-Jul-77	20.7	195.82	198.17	196.72	198.22	0.000631	1.05	19.76	71.25	0.22
Chippewa	Lower	445.1122	15-Sep-78	16.8	195.82	197.95	196.61	197.99	0.000585	0.94	17.84	21.84	0.21
Chippewa	Lower	445.1122	29-Jul-86	18.5	195.82	198.05	196.66	198.1	0.000597	0.98	18.78	36.63	0.21
Chippewa	Lower	445.1122	10-Jun-89	14.3	195.82	197.82	196.53	197.85	0.000524	0.85	16.73	17.12	0.2
Chippewa	Lower	445.1122	18-May-90	14.6	195.82	197.83	196.54	197.87	0.000532	0.87	16.87	17.19	0.2
Chippewa	Lower	445.1122	27-Oct-91	6.6	195.82	197.26	196.27	197.28	0.000344	0.55	11.94	14.73	0.15
Chippewa	Lower	435.0401	25-Jul-77	20.7	195.87	198.09	197.07	198.2	0.001714	1.49	19.97	40.96	0.33
Chippewa	Lower	435.0401	15-Sep-78	16.8	195.87	197.87	196.93	197.97	0.001743	1.39	14.42	11.63	0.33
Chippewa	Lower	435.0401	29-Jul-86	18.5	195.87	197.98	196.99	198.08	0.001737	1.44	16.19	25.5	0.33
Chippewa	Lower	435.0401	10-Jun-89	14.3	195.87	197.75	196.83	197.83	0.001606	1.28	13.07	11.08	0.31
Chippewa	Lower	435.0401	18-May-90	14.6	195.87	197.77	196.84	197.85	0.001625	1.29	13.23	11.14	0.31
Chippewa	Lower	435.0401	27-Oct-91	6.6	195.87	197.23	196.48	197.26	0.001214	0.87	7.97	8.32	0.25
Chippewa	Lower	419	25-Jul-77	20.7	195.77	198.08		198.17	0.001621	1.43	21.21	39.75	0.34
Chippewa	Lower	419	15-Sep-78	16.8	195.77	197.85		197.93	0.001669	1.33	16.61	12.35	0.33
Chippewa	Lower	419	29-Jul-86	18.5	195.77	197.96		198.05	0.001627	1.37	17.97	15.37	0.33
Chippewa	Lower	419	10-Jun-89	14.3	195.77	197.73		197.8	0.001573	1.23	15.15	12.19	0.32
Chippewa	Lower	419	18-May-90	14.6	195.77	197.75		197.82	0.001587	1.24	15.33	12.21	0.32
Chippewa	Lower	419	27-Oct-91	6.6	195.77	197.21		197.24	0.001452	0.89	9.04	10.4	0.29
Chippewa	Lower	402.6545	25-Jul-77	20.7	195.78	198.06	196.9	198.14	0.001313	1.33	17.88	33.99	0.29
Chippewa	Lower	402.6545	15-Sep-78	16.8	195.78	197.83	196.77	197.91	0.001283	1.22	14.68	11.79	0.29
Chippewa	Lower	402.6545	29-Jul-86	18.5	195.78	197.94	196.83	198.02	0.001279	1.27	16.07	14.16	0.29
Chippewa	Lower	402.6545	10-Jun-89	14.3	195.78	197.72	196.69	197.78	0.001156	1.11	13.48	9.5	0.27
Chippewa	Lower	402.6545	18-May-90	14.6	195.78	197.73	196.69	197.8	0.001173	1.13	13.62	9.55	0.27
Chippewa	Lower	402.6545	27-Oct-91	6.6	195.78	197.2	196.37	197.22	0.000803	0.73	9.06	7.66	0.21
Chippewa	Lower	398.3727	25-Jul-77	20.7	195.84	198.03	197.08	198.14	0.001946	1.47	14.53	8.27	0.34
Chippewa	Lower	398.3727	15-Sep-78	16.8	195.84	197.81	196.95	197.9	0.001935	1.35	12.76	8.13	0.34
Chippewa	Lower	398.3727	29-Jul-86	18.5	195.84	197.92	197.01	198.01	0.001903	1.4	13.63	8.18	0.34
Chippewa	Lower	398.3727	10-Jun-89	14.3	195.84	197.69	196.87	197.77	0.001778	1.24	11.84	8.07	0.32
Chippewa	Lower	398.3727	18-May-90	14.6	195.84	197.71	196.88	197.79	0.001799	1.25	11.95	8.08	0.32
Chippewa	Lower	398.3727	27-Oct-91	6.6	195.84	197.18	196.56	197.22	0.001475	0.86	7.75	7.76	0.27
Chippewa	Lower	391.4831		Bridge									
Chippewa	Lower	384.7331	25-Jul-77	20.7	195.76	198.03	196.91	198.1	0.00113	1.2	19.91	13.22	0.27

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	384.7331	15-Sep-78	16.8	195.76	197.8	196.78	197.87	0.001129	1.11	17.07	12.6	0.27
Chippewa	Lower	384.7331	29-Jul-86	18.5	195.76	197.91	196.84	197.98	0.001108	1.14	18.45	12.89	0.27
Chippewa	Lower	384.7331	10-Jun-89	14.3	195.76	197.69	196.7	197.74	0.001038	1.02	15.64	12.33	0.25
Chippewa	Lower	384.7331	18-May-90	14.6	195.76	197.7	196.71	197.76	0.00105	1.03	15.81	12.36	0.26
Chippewa	Lower	384.7331	27-Oct-91	6.6	195.76	197.17	196.37	197.2	0.000826	0.7	9.72	10.13	0.21
Chippewa	Lower	382.815	25-Jul-77	20.7	195.76	198.03	196.81	198.09	0.000916	1.17	21.84	13.62	0.26
Chippewa	Lower	382.815	15-Sep-78	16.8	195.76	197.81	196.69	197.86	0.00089	1.07	18.89	13.17	0.25
Chippewa	Lower	382.815	29-Jul-86	18.5	195.76	197.91	196.74	197.97	0.000886	1.11	20.33	13.38	0.25
Chippewa	Lower	382.815	10-Jun-89	14.3	195.76	197.69	196.61	197.74	0.000804	0.98	17.4	12.9	0.23
Chippewa	Lower	382.815	18-May-90	14.6	195.76	197.7	196.62	197.75	0.000816	0.99	17.58	12.94	0.24
Chippewa	Lower	382.815	27-Oct-91	6.6	195.76	197.17	196.3	197.19	0.000564	0.65	11.22	10.94	0.18
Chippewa	Lower	379.5403	25-Jul-77	20.7	195.79	198.02	196.77	198.09	0.000881	1.14	21.55	14.63	0.25
Chippewa	Lower	379.5403	15-Sep-78	16.8	195.79	197.8	196.65	197.86	0.000856	1.04	18.45	13.41	0.24
Chippewa	Lower	379.5403	29-Jul-86	18.5	195.79	197.91	196.7	197.97	0.000854	1.08	19.95	14.12	0.24
Chippewa	Lower	379.5403	10-Jun-89	14.3	195.79	197.69	196.57	197.73	0.000768	0.95	16.98	12.55	0.23
Chippewa	Lower	379.5403	18-May-90	14.6	195.79	197.7	196.58	197.75	0.000779	0.96	17.15	12.6	0.23
Chippewa	Lower	379.5403	27-Oct-91	6.6	195.79	197.17	196.28	197.19	0.000528	0.63	11.09	10.23	0.18
Chippewa	Lower	371.974		Bridge									
Chippewa	Lower	364.0736	25-Jul-77	20.7	195.78	197.97	196.92	198.06	0.001435	1.35	18.39	36.24	0.3
Chippewa	Lower	364.0736	15-Sep-78	16.8	195.78	197.76	196.79	197.83	0.001433	1.25	15.57	16.16	0.3
Chippewa	Lower	364.0736	29-Jul-86	18.5	195.78	197.86	196.85	197.94	0.001403	1.28	16.96	25.93	0.3
Chippewa	Lower	364.0736	10-Jun-89	14.3	195.78	197.65	196.7	197.71	0.001297	1.14	14.23	11.85	0.28
Chippewa	Lower	364.0736	18-May-90	14.6	195.78	197.66	196.71	197.73	0.001317	1.15	14.38	12.02	0.28
Chippewa	Lower	364.0736	27-Oct-91	6.6	195.78	197.15	196.36	197.18	0.000952	0.77	8.98	9.15	0.23
Chippewa	Lower	357.3483	25-Jul-77	20.7	195.78	197.99	196.78	198.03	0.000764	1.02	24.57	58.93	0.23
Chippewa	Lower	357.3483	15-Sep-78	16.8	195.78	197.77	196.66	197.81	0.00076	0.94	21.05	56.88	0.22
Chippewa	Lower	357.3483	29-Jul-86	18.5	195.78	197.87	196.71	197.92	0.000746	0.97	22.78	57.9	0.22
Chippewa	Lower	357.3483	10-Jun-89	14.3	195.78	197.66	196.57	197.69	0.00069	0.86	19.35	49.81	0.21
Chippewa	Lower	357.3483	18-May-90	14.6	195.78	197.67	196.59	197.7	0.0007	0.87	19.55	51.75	0.21
Chippewa	Lower	357.3483	27-Oct-91	6.6	195.78	197.15	196.29	197.17	0.000518	0.59	12.28	13.08	0.17
Chippewa	Lower	336	25-Jul-77	20.7	195.77	197.98	196.87	198.02	0.000644	0.83	30	72.82	0.21
Chippewa	Lower	336	15-Sep-78	16.8	195.77	197.76	196.76	197.79	0.000688	0.78	24.88	51.64	0.21
Chippewa	Lower	336	29-Jul-86	18.5	195.77	197.87	196.81	197.9	0.000652	0.8	27.31	66.62	0.2
Chippewa	Lower	336	10-Jun-89	14.3	195.77	197.65	196.61	197.67	0.000655	0.72	22.61	37.41	0.2
Chippewa	Lower	336	18-May-90	14.6	195.77	197.66	196.63	197.69	0.00066	0.73	22.88	38.66	0.2
Chippewa	Lower	336	27-Oct-91	6.6	195.77	197.14	196.32	197.15	0.000641	0.55	13.08	17.23	0.18
Chippewa	Lower	313.6188	25-Jul-77	20.7	195.78	197.99	196.93	198	0.000364	0.57	62.46	169.1	0.15
Chippewa	Lower	313.6188	15-Sep-78	16.8	195.78	197.74	196.84	197.77	0.000797	0.74	25.82	124.47	0.22
Chippewa	Lower	313.6188	29-Jul-86	18.5	195.78	197.87	196.88	197.88	0.000392	0.56	54.49	154.21	0.15
Chippewa	Lower	313.6188	10-Jun-89	14.3	195.78	197.63	196.78	197.66	0.000824	0.71	21.95	85.34	0.22
Chippewa	Lower	313.6188	18-May-90	14.6	195.78	197.65	196.78	197.67	0.000822	0.71	22.38	90.6	0.22
Chippewa	Lower	313.6188	27-Oct-91	6.6	195.78	197.12	196.51	197.13	0.00103	0.6	11.02	29.76	0.23
Chippewa	Lower	309.3994	25-Jul-77	20.7	195.88	197.96	196.83	197.99	0.000676	0.79	27.45	44.93	0.21
Chippewa	Lower	309.3994	15-Sep-78	16.8	195.88	197.74	196.72	197.77	0.000779	0.76	22.41	37.16	0.22
Chippewa	Lower	309.3994	29-Jul-86	18.5	195.88	197.85	196.76	197.88	0.000708	0.77	24.79	40.12	0.21
Chippewa	Lower	309.3994	10-Jun-89	14.3	195.88	197.63	196.64	197.65	0.000772	0.71	20.15	35.41	0.21
Chippewa	Lower	309.3994	18-May-90	14.6	195.88	197.64	196.65	197.67	0.000775	0.72	20.41	35.62	0.21
Chippewa	Lower	309.3994	27-Oct-91	6.6	195.88	197.11	196.34	197.13	0.000683	0.56	11.86	26.08	0.19
Chippewa	Lower	295.438		Bridge									
Chippewa	Lower	281	25-Jul-77	20.7	195.61	197.77	196.7	197.84	0.001494	1.22	16.95	44.39	0.31
Chippewa	Lower	281	15-Sep-78	16.8	195.61	197.64	196.57	197.7	0.001204	1.08	15.59	42.64	0.28
Chippewa	Lower	281	29-Jul-86	18.5	195.61	197.7	196.63	197.76	0.001341	1.14	16.18	43.41	0.3
Chippewa	Lower	281	10-Jun-89	14.3	195.61	197.55	196.49	197.6	0.001029	0.97	14.7	41.61	0.26
Chippewa	Lower	281	18-May-90	14.6	195.61	197.56	196.5	197.61	0.001052	0.99	14.81	41.74	0.26
Chippewa	Lower	281	27-Oct-91	6.6	195.61	197.09	196.15	197.11	0.000597	0.64	10.34	26.86	0.19
Chippewa	Lower	277.6682	25-Jul-77	20.7	195.58	197.8		197.81	0.000415	0.58	67.96	113.52	0.16
Chippewa	Lower	277.6682	15-Sep-78	16.8	195.58	197.66		197.67	0.000355	0.54	54.75	76.78	0.15

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	277.6682	29-Jul-86	18.5	195.58	197.72		197.73	0.000394	0.56	59.92	97.27	0.15
Chippewa	Lower	277.6682	10-Jun-89	14.3	195.58	197.57		197.58	0.000318	0.51	48.63	58.18	0.14
Chippewa	Lower	277.6682	18-May-90	14.6	195.58	197.58		197.59	0.000323	0.51	49.28	59.61	0.14
Chippewa	Lower	277.6682	27-Oct-91	6.6	195.58	197.1		197.1	0.000245	0.38	28.56	36.53	0.12
Chippewa	Lower	270	25-Jul-77	20.7	195.6	197.8		197.8	0.000255	0.51	126.24	306.92	0.12
Chippewa	Lower	270	15-Sep-78	16.8	195.6	197.66		197.67	0.000306	0.53	86.09	260.6	0.14
Chippewa	Lower	270	29-Jul-86	18.5	195.6	197.72		197.73	0.000285	0.52	103.02	293.63	0.13
Chippewa	Lower	270	10-Jun-89	14.3	195.6	197.56		197.57	0.000324	0.52	63.47	209.66	0.14
Chippewa	Lower	270	18-May-90	14.6	195.6	197.57		197.59	0.00034	0.54	65.67	219.15	0.14
Chippewa	Lower	270	27-Oct-91	6.6	195.6	197.09		197.1	0.00024	0.39	26.41	41.07	0.12
Chippewa	Lower	256.6877	25-Jul-77	20.7	195.74	197.8		197.8	0.000082	0.28	245.44	434.78	0.07
Chippewa	Lower	256.6877	15-Sep-78	16.8	195.74	197.66		197.66	0.000095	0.29	189.45	384.42	0.08
Chippewa	Lower	256.6877	29-Jul-86	18.5	195.74	197.72		197.72	0.000089	0.28	213.38	407.41	0.08
Chippewa	Lower	256.6877	10-Jun-89	14.3	195.74	197.57		197.57	0.00008	0.26	155.47	338.04	0.07
Chippewa	Lower	256.6877	18-May-90	14.6	195.74	197.58		197.58	0.00008	0.26	159.12	345.52	0.07
Chippewa	Lower	256.6877	27-Oct-91	6.6	195.74	197.09		197.1	0.000168	0.29	52.68	125.91	0.1
Chippewa	Lower	251.5326	25-Jul-77	20.7	195.64	197.75	196.8	197.79	0.001065	0.91	22.83	385.64	0.26
Chippewa	Lower	251.5326	15-Sep-78	16.8	195.64	197.63	196.68	197.66	0.000999	0.82	20.53	342.87	0.24
Chippewa	Lower	251.5326	29-Jul-86	18.5	195.64	197.68	196.73	197.72	0.001031	0.86	21.55	373.32	0.25
Chippewa	Lower	251.5326	10-Jun-89	14.3	195.64	197.54	196.61	197.57	0.000945	0.75	18.95	285.02	0.23
Chippewa	Lower	251.5326	18-May-90	14.6	195.64	197.55	196.62	197.58	0.000954	0.76	19.13	293.35	0.24
Chippewa	Lower	251.5326	27-Oct-91	6.6	195.64	197.07	196.3	197.09	0.000808	0.58	11.38	51.91	0.21
Chippewa	Lower	245.142		Bridge									
Chippewa	Lower	232.742	25-Jul-77	20.7	195.65	197.58	196.87	197.63	0.001646	0.96	23.21	197.77	0.3
Chippewa	Lower	232.742	15-Sep-78	16.8	195.65	197.51	196.75	197.55	0.001353	0.84	21.33	148.45	0.27
Chippewa	Lower	232.742	29-Jul-86	18.5	195.65	197.55	196.8	197.59	0.001474	0.89	22.23	168.51	0.28
Chippewa	Lower	232.742	10-Jun-89	14.3	195.65	197.46	196.68	197.49	0.001196	0.76	19.74	120.62	0.25
Chippewa	Lower	232.742	18-May-90	14.6	195.65	197.47	196.68	197.49	0.001218	0.77	19.92	122.96	0.25
Chippewa	Lower	232.742	27-Oct-91	6.6	195.65	197.04	196.39	197.06	0.001576	0.63	10.52	83.21	0.27
Chippewa	Lower	227.0486	25-Jul-77	20.7	195.6	197.59		197.6	0.000345	0.42	93.84	244.63	0.14
Chippewa	Lower	227.0486	15-Sep-78	16.8	195.6	197.52		197.53	0.000298	0.39	80.07	167.4	0.13
Chippewa	Lower	227.0486	29-Jul-86	18.5	195.6	197.55		197.56	0.000318	0.4	86.01	195.3	0.13
Chippewa	Lower	227.0486	10-Jun-89	14.3	195.6	197.46		197.47	0.000263	0.36	72.1	119.9	0.12
Chippewa	Lower	227.0486	18-May-90	14.6	195.6	197.47		197.48	0.000268	0.37	72.9	122.78	0.12
Chippewa	Lower	227.0486	27-Oct-91	6.6	195.6	197.04		197.05	0.000349	0.37	29.03	72.86	0.13
Chippewa	Lower	202	25-Jul-77	20.7	195.72	197.59		197.59	0.000115	0.26	163.57	293.39	0.08
Chippewa	Lower	202	15-Sep-78	16.8	195.72	197.52		197.52	0.000099	0.23	145.44	231.14	0.08
Chippewa	Lower	202	29-Jul-86	18.5	195.72	197.55		197.55	0.000106	0.24	153.42	260.88	0.08
Chippewa	Lower	202	10-Jun-89	14.3	195.72	197.46		197.46	0.000091	0.21	133.13	202.81	0.07
Chippewa	Lower	202	18-May-90	14.6	195.72	197.47		197.47	0.000092	0.21	134.47	205.35	0.07
Chippewa	Lower	202	27-Oct-91	6.6	195.72	197.04		197.04	0.000226	0.23	55.09	164.98	0.1
Chippewa	Lower	178	25-Jul-77	20.7	195.54	197.59		197.59	0.000125	0.3	167.72	342.3	0.09
Chippewa	Lower	178	15-Sep-78	16.8	195.54	197.52		197.52	0.000108	0.27	146.77	274.95	0.08
Chippewa	Lower	178	29-Jul-86	18.5	195.54	197.55		197.55	0.000115	0.29	156.09	301.93	0.08
Chippewa	Lower	178	10-Jun-89	14.3	195.54	197.46		197.46	0.000099	0.25	131.95	241.1	0.08
Chippewa	Lower	178	18-May-90	14.6	195.54	197.47		197.47	0.000101	0.25	133.55	248.25	0.08
Chippewa	Lower	178	27-Oct-91	6.6	195.54	197.03		197.03	0.000183	0.26	55.76	151.98	0.1
Chippewa	Lower	160	25-Jul-77	20.7	195.63	197.58		197.59	0.000149	0.36	162.14	320.15	0.1
Chippewa	Lower	160	15-Sep-78	16.8	195.63	197.52		197.52	0.000128	0.33	141.96	269.57	0.09
Chippewa	Lower	160	29-Jul-86	18.5	195.63	197.55		197.55	0.000137	0.34	151.15	297.13	0.09
Chippewa	Lower	160	10-Jun-89	14.3	195.63	197.46		197.46	0.000118	0.3	127.59	241.66	0.09
Chippewa	Lower	160	18-May-90	14.6	195.63	197.46		197.47	0.00012	0.31	129.17	243.39	0.09
Chippewa	Lower	160	27-Oct-91	6.6	195.63	197.03		197.03	0.00022	0.32	50.56	128.9	0.11
Chippewa	Lower	143	25-Jul-77	20.7	195.64	197.58		197.58	0.000217	0.48	146.97	329.15	0.12
Chippewa	Lower	143	15-Sep-78	16.8	195.64	197.51		197.51	0.000194	0.45	125.97	293.86	0.11
Chippewa	Lower	143	29-Jul-86	18.5	195.64	197.54		197.55	0.000203	0.46	135.62	307.25	0.11
Chippewa	Lower	143	10-Jun-89	14.3	195.64	197.45		197.46	0.000181	0.42	110.26	256.27	0.11
Chippewa	Lower	143	18-May-90	14.6	195.64	197.46		197.46	0.000183	0.42	111.94	261.57	0.11

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	143	27-Oct-91	6.6	195.64	197.02		197.03	0.000317	0.45	33.78	104.82	0.13
Chippewa	Lower	137	25-Jul-77	20.7	195.67	197.5	196.55	197.57	0.001505	1.21	17.13	170.82	0.3
Chippewa	Lower	137	15-Sep-78	16.8	195.67	197.46	196.45	197.51	0.001081	1.01	16.69	162.54	0.25
Chippewa	Lower	137	29-Jul-86	18.5	195.67	197.48	196.5	197.54	0.001253	1.09	16.92	167.54	0.27
Chippewa	Lower	137	10-Jun-89	14.3	195.67	197.41	196.38	197.45	0.000857	0.88	16.25	151.19	0.22
Chippewa	Lower	137	18-May-90	14.6	195.67	197.42	196.39	197.46	0.000884	0.9	16.3	152.41	0.23
Chippewa	Lower	137	27-Oct-91	6.6	195.67	197.01	196.13	197.02	0.00048	0.55	12.09	64.74	0.16
Chippewa	Lower	119.271		Culvert									
Chippewa	Lower	102	25-Jul-77	20.7	195.59	197.49	196.48	197.56	0.001067	1.14	18.08	150.07	0.28
Chippewa	Lower	102	15-Sep-78	16.8	195.59	197.45	196.38	197.5	0.000759	0.95	17.67	105.42	0.23
Chippewa	Lower	102	29-Jul-86	18.5	195.59	197.47	196.42	197.53	0.000884	1.03	17.88	126.85	0.25
Chippewa	Lower	102	10-Jun-89	14.3	195.59	197.41	196.31	197.44	0.000597	0.83	17.24	76.64	0.2
Chippewa	Lower	102	18-May-90	14.6	195.59	197.41	196.32	197.45	0.000617	0.84	17.29	80.81	0.21
Chippewa	Lower	102	27-Oct-91	6.6	195.59	197.01	196.08	197.02	0.000317	0.5	13.11	23.86	0.14
Chippewa	Lower	97	25-Jul-77	20.7	195.57	197.52		197.54	0.000654	0.66	62.62	178.12	0.19
Chippewa	Lower	97	15-Sep-78	16.8	195.57	197.47		197.48	0.000506	0.57	54.73	130.26	0.17
Chippewa	Lower	97	29-Jul-86	18.5	195.57	197.5		197.51	0.000565	0.61	58.26	153.65	0.18
Chippewa	Lower	97	10-Jun-89	14.3	195.57	197.42		197.43	0.000425	0.51	49.16	105.93	0.16
Chippewa	Lower	97	18-May-90	14.6	195.57	197.43		197.44	0.000435	0.52	49.74	108.68	0.16
Chippewa	Lower	97	27-Oct-91	6.6	195.57	197.01		197.02	0.000264	0.38	24.11	43.33	0.12
Chippewa	Lower	85	25-Jul-77	20.7	195.56	197.53		197.53	0.00021	0.37	117.48	197.59	0.11
Chippewa	Lower	85	15-Sep-78	16.8	195.56	197.47		197.48	0.000164	0.31	107.89	175.59	0.1
Chippewa	Lower	85	29-Jul-86	18.5	195.56	197.5		197.5	0.000182	0.34	112.49	181.42	0.1
Chippewa	Lower	85	10-Jun-89	14.3	195.56	197.43		197.43	0.000129	0.27	99.9	148.84	0.09
Chippewa	Lower	85	18-May-90	14.6	195.56	197.43		197.43	0.000136	0.28	100.72	155.14	0.09
Chippewa	Lower	85	27-Oct-91	6.6	195.56	197.01		197.01	0.000032	0.13	67.22	48.74	0.04
Chippewa	Lower	73	25-Jul-77	20.7	195.6	197.51		197.52	0.000582	0.63	72.8	228.86	0.18
Chippewa	Lower	73	15-Sep-78	16.8	195.6	197.46		197.47	0.000442	0.56	63.14	171.75	0.16
Chippewa	Lower	73	29-Jul-86	18.5	195.6	197.49		197.5	0.000489	0.6	67.56	189.14	0.17
Chippewa	Lower	73	10-Jun-89	14.3	195.6	197.42		197.43	0.000378	0.51	56	139.56	0.15
Chippewa	Lower	73	18-May-90	14.6	195.6	197.42		197.43	0.000387	0.52	56.74	142.72	0.15
Chippewa	Lower	73	27-Oct-91	6.6	195.6	197.01		197.01	0.000352	0.42	27.28	50.1	0.14
Chippewa	Lower	65	25-Jul-77	20.7	195.6	197.49		197.52	0.000844	0.82	42.68	111.22	0.23
Chippewa	Lower	65	15-Sep-78	16.8	195.6	197.45		197.47	0.000614	0.7	38.62	76.67	0.19
Chippewa	Lower	65	29-Jul-86	18.5	195.6	197.47		197.49	0.000708	0.75	40.5	96.75	0.21
Chippewa	Lower	65	10-Jun-89	14.3	195.6	197.41		197.42	0.000498	0.62	36.08	46.83	0.17
Chippewa	Lower	65	18-May-90	14.6	195.6	197.41		197.43	0.000512	0.63	36.31	48.84	0.18
Chippewa	Lower	65	27-Oct-91	6.6	195.6	197		197.01	0.000327	0.44	21.47	30.49	0.14
Chippewa	Lower	56	25-Jul-77	20.7	195.6	197.49		197.51	0.000996	0.81	55.84	218.08	0.24
Chippewa	Lower	56	15-Sep-78	16.8	195.6	197.44		197.46	0.000766	0.71	47.31	175.29	0.21
Chippewa	Lower	56	29-Jul-86	18.5	195.6	197.47		197.48	0.000864	0.75	51.45	198.93	0.22
Chippewa	Lower	56	10-Jun-89	14.3	195.6	197.4		197.42	0.000627	0.65	41.02	131.42	0.19
Chippewa	Lower	56	18-May-90	14.6	195.6	197.41		197.42	0.000645	0.65	41.65	133.96	0.19
Chippewa	Lower	56	27-Oct-91	6.6	195.6	197		197.01	0.000403	0.45	21.11	23.62	0.15
Chippewa	Lower	53	25-Jul-77	20.7	195.6	197.37	196.85	197.49	0.00429	1.6	16.52	68.68	0.48
Chippewa	Lower	53	15-Sep-78	16.8	195.6	197.37	196.72	197.45	0.002826	1.3	16.54	68.72	0.39
Chippewa	Lower	53	29-Jul-86	18.5	195.6	197.38	196.77	197.47	0.003435	1.42	16.99	70.69	0.43
Chippewa	Lower	53	10-Jun-89	14.3	195.6	197.34	196.63	197.41	0.002033	1.14	15.06	50.14	0.34
Chippewa	Lower	53	18-May-90	14.6	195.6	197.35	196.64	197.41	0.002103	1.16	15.19	50.65	0.34
Chippewa	Lower	53	27-Oct-91	6.6	195.6	196.97	196.3	197	0.001254	0.77	9.17	12.34	0.26
Chippewa	Lower	42		Culvert									
Chippewa	Lower	30	25-Jul-77	20.7	195.63	196.66	196.66	197.07	0.020286	2.84	7.28	8.92	1
Chippewa	Lower	30	15-Sep-78	16.8	195.63	196.54	196.54	196.91	0.020952	2.7	6.23	8.51	1.01
Chippewa	Lower	30	29-Jul-86	18.5	195.63	196.59	196.59	196.98	0.020808	2.77	6.67	8.65	1.01
Chippewa	Lower	30	10-Jun-89	14.3	195.63	196.46	196.46	196.8	0.021467	2.58	5.55	8.29	1.01
Chippewa	Lower	30	18-May-90	14.6	195.63	196.47	196.47	196.81	0.021388	2.59	5.63	8.32	1.01
Chippewa	Lower	30	27-Oct-91	6.6	195.63	196.22		196.39	0.015616	1.8	3.67	7.52	0.82

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	25	25-Jul-77	20.7	195.65	196.46	196.55	196.96	0.028781	3.12	6.63	9.47	1.19
Chippewa	Lower	25	15-Sep-78	16.8	195.65	196.38	196.44	196.8	0.027967	2.88	5.84	9.29	1.16
Chippewa	Lower	25	29-Jul-86	18.5	195.65	196.41	196.49	196.87	0.02828	2.99	6.2	9.37	1.17
Chippewa	Lower	25	10-Jun-89	14.3	195.65	196.32	196.37	196.69	0.026749	2.68	5.34	9.18	1.12
Chippewa	Lower	25	18-May-90	14.6	195.65	196.33	196.38	196.7	0.027399	2.72	5.37	9.18	1.14
Chippewa	Lower	25	27-Oct-91	6.6	195.65	196.1	196.1	196.3	0.024016	1.96	3.37	8.68	1
Chippewa	Lower	22	25-Jul-77	20.7	195.6	196.12	196.33	196.78	0.086466	3.91	6.28	12.9	1.94
Chippewa	Lower	22	15-Sep-78	16.8	195.6	196.05	196.27	196.62	0.089941	3.65	5.44	12.43	1.94
Chippewa	Lower	22	29-Jul-86	18.5	195.6	196.08	196.29	196.69	0.08793	3.77	5.82	12.64	1.93
Chippewa	Lower	22	10-Jun-89	14.3	195.6	196	196.16	196.52	0.094859	3.47	4.84	12.1	1.95
Chippewa	Lower	22	18-May-90	14.6	195.6	196.01	196.17	196.53	0.094622	3.5	4.91	12.14	1.95
Chippewa	Lower	22	27-Oct-91	6.6	195.6	196.03	195.9	196.13	0.016694	1.52	5.13	12.26	0.83
Chippewa	Lower	17.31936	25-Jul-77	20.7	195.59	196.13	196.21	196.46	0.035254	2.54	8.23	22.94	1.25
Chippewa	Lower	17.31936	15-Sep-78	16.8	195.59	196.13	196.14	196.35	0.022813	2.05	8.29	23.05	1.01
Chippewa	Lower	17.31936	29-Jul-86	18.5	195.59	196.13	196.17	196.4	0.029216	2.3	8.12	22.71	1.14
Chippewa	Lower	17.31936	10-Jun-89	14.3	195.59	196.09	196.09	196.28	0.023691	1.97	7.27	18.78	1.01
Chippewa	Lower	17.31936	18-May-90	14.6	195.59	196.06	196.09	196.3	0.030366	2.15	6.78	18.46	1.13
Chippewa	Lower	17.31936	27-Oct-91	6.6	195.59	195.98	195.92	196.06	0.013155	1.24	5.34	17.85	0.72



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APPENDIX F:

HEC-RAS Design Storms Results Table

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7678.479	Timmins	75.8	264.5	266.95	267.32	268.11	0.022638	4.79	15.97	10.15	1.11
Chippewa	Upper	7678.479	100y6hSCS	23.7	264.5	265.77	265.81	266.36	0.022602	3.39	6.98	6.51	1.05
Chippewa	Upper	7678.479	50y6hSCS	20.5	264.5	265.77	265.69	266.21	0.016651	2.92	7.02	6.52	0.9
Chippewa	Upper	7678.479	25y6hSCS	17.4	264.5	265.7	265.58	266.06	0.014523	2.65	6.57	6.42	0.84
Chippewa	Upper	7678.479	10y6hSCS	13.6	264.5	265.6	265.43	265.87	0.011982	2.3	5.92	6.28	0.76
Chippewa	Upper	7678.479	5y6hSCS	11	264.5	265.52	265.31	265.73	0.010193	2.03	5.41	6.17	0.69
Chippewa	Upper	7678.479	2y6hSCS	7.3	264.5	265.37	265.13	265.51	0.007707	1.62	4.5	5.97	0.6
Chippewa	Upper	7678.479	100y4hChicago	19.7	264.5	265.76	265.67	266.17	0.01607	2.85	6.91	6.5	0.88
Chippewa	Upper	7678.479	2yrFlow100yrLake	7.3	264.5	265.37	265.13	265.51	0.007707	1.62	4.5	5.97	0.6
Chippewa	Upper	7659	Timmins	75.8	264.43	265.86	266.28	267.29	0.039518	5.61	18.72	23.78	1.58
Chippewa	Upper	7659	100y6hSCS	23.7	264.43	265.45	265.45	265.83	0.016258	2.79	9.76	15.91	0.95
Chippewa	Upper	7659	50y6hSCS	20.5	264.43	265.36	265.36	265.72	0.017677	2.71	8.41	14.64	0.97
Chippewa	Upper	7659	25y6hSCS	17.4	264.43	265.28	265.28	265.61	0.018753	2.59	7.27	12.1	0.98
Chippewa	Upper	7659	10y6hSCS	13.6	264.43	265.17	265.17	265.46	0.019904	2.39	6.03	11.55	0.99
Chippewa	Upper	7659	5y6hSCS	11	264.43	265.09	265.09	265.35	0.020809	2.23	5.16	11.19	0.99
Chippewa	Upper	7659	2y6hSCS	7.3	264.43	264.95	264.95	265.16	0.023474	2.03	3.66	9.35	1.01
Chippewa	Upper	7659	100y4hChicago	19.7	264.43	265.34	265.34	265.69	0.018007	2.68	8.08	14.07	0.98
Chippewa	Upper	7659	2yrFlow100yrLake	7.3	264.43	264.95	264.95	265.16	0.023474	2.03	3.66	9.35	1.01
Chippewa	Upper	7645	Timmins	75.8	263.57	265.07	265.48	266.44	0.047856	5.72	19.82	25.13	1.71
Chippewa	Upper	7645	100y6hSCS	23.7	263.57	264.49	264.7	265.24	0.062518	4.06	7.56	18.36	1.74
Chippewa	Upper	7645	50y6hSCS	20.5	263.57	264.45	264.65	265.12	0.060443	3.81	6.87	17.96	1.69
Chippewa	Upper	7645	25y6hSCS	17.4	263.57	264.4	264.59	265	0.059197	3.55	6.11	16.86	1.65
Chippewa	Upper	7645	10y6hSCS	13.6	263.57	264.35	264.5	264.83	0.057335	3.21	5.16	15.89	1.59
Chippewa	Upper	7645	5y6hSCS	11	263.57	264.3	264.43	264.72	0.053821	2.97	4.42	14.8	1.52
Chippewa	Upper	7645	2y6hSCS	7.3	263.57	264.22	264.31	264.53	0.04765	2.52	3.32	12.99	1.39
Chippewa	Upper	7645	100y4hChicago	19.7	263.57	264.44	264.64	265.09	0.059783	3.74	6.7	17.84	1.67
Chippewa	Upper	7645	2yrFlow100yrLake	7.3	263.57	264.22	264.31	264.53	0.04765	2.52	3.32	12.99	1.39
Chippewa	Upper	7626	Timmins	75.8	262.8	264.05	264.36	265.18	0.038232	4.77	16.95	17.69	1.49
Chippewa	Upper	7626	100y6hSCS	23.7	262.8	263.52	263.61	263.96	0.031163	2.93	8.26	15.19	1.23
Chippewa	Upper	7626	50y6hSCS	20.5	262.8	263.47	263.55	263.86	0.031119	2.77	7.52	14.93	1.21
Chippewa	Upper	7626	25y6hSCS	17.4	262.8	263.42	263.48	263.76	0.030934	2.6	6.77	14.42	1.19
Chippewa	Upper	7626	10y6hSCS	13.6	262.8	263.34	263.39	263.64	0.030702	2.4	5.71	13.56	1.16
Chippewa	Upper	7626	5y6hSCS	11	262.8	263.28	263.32	263.54	0.03182	2.25	4.9	13.02	1.16
Chippewa	Upper	7626	2y6hSCS	7.3	262.8	263.19	263.22	263.39	0.033927	1.98	3.68	12.19	1.15
Chippewa	Upper	7626	100y4hChicago	19.7	262.8	263.46	263.53	263.84	0.031099	2.73	7.33	14.84	1.2
Chippewa	Upper	7626	2yrFlow100yrLake	7.3	262.8	263.19	263.22	263.39	0.033927	1.98	3.68	12.19	1.15
Chippewa	Upper	7609	Timmins	75.8	262.05	264.25	263.85	264.6	0.007881	2.81	33.53	25.42	0.73
Chippewa	Upper	7609	100y6hSCS	23.7	262.05	263.32	263.18	263.5	0.01501	2.06	13.4	19.77	0.86
Chippewa	Upper	7609	50y6hSCS	20.5	262.05	263.25	263.14	263.42	0.015942	1.96	12.1	19.61	0.87
Chippewa	Upper	7609	25y6hSCS	17.4	262.05	263.18	263	263.33	0.017264	1.87	10.72	19.35	0.88
Chippewa	Upper	7609	10y6hSCS	13.6	262.05	262.97	262.88	263.19	0.017235	2.28	7.6	11.77	0.92
Chippewa	Upper	7609	5y6hSCS	11	262.05	262.89	262.81	263.07	0.016992	2.11	6.64	11.47	0.9
Chippewa	Upper	7609	2y6hSCS	7.3	262.05	262.75	262.67	262.89	0.01613	1.84	5.11	10.69	0.86
Chippewa	Upper	7609	100y4hChicago	19.7	262.05	263.24	263.14	263.4	0.016386	1.94	11.73	19.56	0.87
Chippewa	Upper	7609	2yrFlow100yrLake	7.3	262.05	262.75	262.67	262.89	0.01613	1.84	5.11	10.69	0.86
Chippewa	Upper	7577	Timmins	75.8	261.52	263.51	263.51	264.23	0.014415	3.78	21.77	17.63	0.97
Chippewa	Upper	7577	100y6hSCS	23.7	261.52	262.7	262.64	263.01	0.014568	2.48	9.77	12.66	0.88
Chippewa	Upper	7577	50y6hSCS	20.5	261.52	262.63	262.56	262.91	0.01488	2.36	8.83	12.46	0.88
Chippewa	Upper	7577	25y6hSCS	17.4	261.52	262.56	262.49	262.81	0.014814	2.22	7.95	12.26	0.86
Chippewa	Upper	7577	10y6hSCS	13.6	261.52	262.45	262.38	262.67	0.01502	2.05	6.69	11.73	0.85
Chippewa	Upper	7577	5y6hSCS	11	261.52	262.37	262.31	262.56	0.015075	1.91	5.79	11.23	0.84
Chippewa	Upper	7577	2y6hSCS	7.3	261.52	262.25	262.18	262.39	0.015117	1.65	4.43	10.47	0.81
Chippewa	Upper	7577	100y4hChicago	19.7	261.52	262.61	262.55	262.89	0.014686	2.32	8.64	12.42	0.87
Chippewa	Upper	7577	2yrFlow100yrLake	7.3	261.52	262.25	262.18	262.39	0.015117	1.65	4.43	10.47	0.81
Chippewa	Upper	7555.375	Timmins	75.8	261.21	263.07	263.19	263.87	0.018541	4	20.6	19.78	1.07
Chippewa	Upper	7555.375	100y6hSCS	23.7	261.21	262.26	262.26	262.64	0.019927	2.76	8.58	11.19	1.01
Chippewa	Upper	7555.375	50y6hSCS	20.5	261.21	262.18	262.18	262.54	0.020077	2.65	7.75	10.86	1
Chippewa	Upper	7555.375	25y6hSCS	17.4	261.21	262.09	262.09	262.43	0.020996	2.55	6.83	10.52	1.01
Chippewa	Upper	7555.375	10y6hSCS	13.6	261.21	261.99	261.99	262.27	0.021901	2.38	5.72	10.09	1.01
Chippewa	Upper	7555.375	5y6hSCS	11	261.21	261.9	261.9	262.16	0.022746	2.24	4.91	9.77	1.01
Chippewa	Upper	7555.375	2y6hSCS	7.3	261.21	261.77	261.77	261.98	0.024419	2	3.66	9.17	1.01
Chippewa	Upper	7555.375	100y4hChicago	19.7	261.21	262.16	262.16	262.51	0.020581	2.63	7.48	10.76	1.01
Chippewa	Upper	7555.375	2yrFlow100yrLake	7.3	261.21	261.77	261.77	261.98	0.024419	2	3.66	9.17	1.01
Chippewa	Upper	7548	Timmins	75.8	260.8	262.16	262.63	263.59	0.045587	5.32	14.75	15.87	1.62

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7548	100y6hSCS	23.7	260.8	261.48	261.76	262.34	0.064657	4.12	5.76	10.01	1.73
Chippewa	Upper	7548	50y6hSCS	20.5	260.8	261.42	261.68	262.22	0.068525	3.97	5.16	9.93	1.76
Chippewa	Upper	7548	25y6hSCS	17.4	260.8	261.35	261.6	262.1	0.073538	3.83	4.55	9.81	1.8
Chippewa	Upper	7548	10y6hSCS	13.6	260.8	261.27	261.47	261.94	0.081084	3.6	3.78	9.68	1.84
Chippewa	Upper	7548	5y6hSCS	11	260.8	261.22	261.39	261.81	0.087879	3.41	3.23	9.6	1.88
Chippewa	Upper	7548	2y6hSCS	7.3	260.8	261.13	261.27	261.6	0.100402	3.04	2.4	9.46	1.92
Chippewa	Upper	7548	100y4hChicago	19.7	260.8	261.4	261.66	262.19	0.06974	3.94	5	9.9	1.77
Chippewa	Upper	7548	2yrFlow100yrLake	7.3	260.8	261.13	261.27	261.6	0.100402	3.04	2.4	9.46	1.92
Chippewa	Upper	7540	Timmins	75.8	260.71	262.12	262.43	263.17	0.035171	4.79	20.63	25.38	1.45
Chippewa	Upper	7540	100y6hSCS	23.7	260.71	261.69	261.69	262.03	0.017339	2.59	10.4	22.1	0.96
Chippewa	Upper	7540	50y6hSCS	20.5	260.71	261.63	261.63	261.93	0.017611	2.48	9.06	19.25	0.95
Chippewa	Upper	7540	25y6hSCS	17.4	260.71	261.55	261.55	261.84	0.01917	2.4	7.7	14.68	0.98
Chippewa	Upper	7540	10y6hSCS	13.6	260.71	261.45	261.45	261.7	0.020251	2.24	6.3	14.02	0.98
Chippewa	Upper	7540	5y6hSCS	11	260.71	261.36	261.36	261.6	0.02254	2.16	5.16	12.18	1.01
Chippewa	Upper	7540	2y6hSCS	7.3	260.71	261.27	261.24	261.43	0.019701	1.8	4.07	10.68	0.92
Chippewa	Upper	7540	100y4hChicago	19.7	260.71	261.6	261.6	261.91	0.018464	2.48	8.58	17.34	0.97
Chippewa	Upper	7540	2yrFlow100yrLake	7.3	260.71	261.27	261.24	261.43	0.019701	1.8	4.07	10.68	0.92
Chippewa	Upper	7533	Timmins	75.8	260.59	261.85	262.17	262.9	0.041169	4.93	21.29	27.84	1.55
Chippewa	Upper	7533	100y6hSCS	23.7	260.59	261.38	261.51	261.85	0.035058	3.14	9.42	22.33	1.31
Chippewa	Upper	7533	50y6hSCS	20.5	260.59	261.33	261.45	261.76	0.035138	2.98	8.36	21.64	1.29
Chippewa	Upper	7533	25y6hSCS	17.4	260.59	261.29	261.39	261.66	0.032776	2.75	7.54	20.42	1.23
Chippewa	Upper	7533	10y6hSCS	13.6	260.59	261.24	261.3	261.53	0.029515	2.44	6.5	19.4	1.15
Chippewa	Upper	7533	5y6hSCS	11	260.59	261.21	261.24	261.43	0.024224	2.13	5.93	19.06	1.03
Chippewa	Upper	7533	2y6hSCS	7.3	260.59	261.13	261.13	261.29	0.021538	1.78	4.44	16.56	0.95
Chippewa	Upper	7533	100y4hChicago	19.7	260.59	261.33	261.43	261.73	0.033827	2.91	8.22	21.48	1.26
Chippewa	Upper	7533	2yrFlow100yrLake	7.3	260.59	261.13	261.13	261.29	0.021538	1.78	4.44	16.56	0.95
Chippewa	Upper	7526	Timmins	75.8	259.88	261.27	261.76	262.6	0.045582	5.3	18.01	23.39	1.62
Chippewa	Upper	7526	100y6hSCS	23.7	259.88	260.65	260.92	261.49	0.070962	4.08	5.94	13.27	1.81
Chippewa	Upper	7526	50y6hSCS	20.5	259.88	260.59	260.85	261.39	0.077566	3.97	5.22	11.65	1.86
Chippewa	Upper	7526	25y6hSCS	17.4	259.88	260.53	260.77	261.29	0.087335	3.87	4.53	11.48	1.93
Chippewa	Upper	7526	10y6hSCS	13.6	259.88	260.45	260.66	261.16	0.105771	3.73	3.65	11.25	2.06
Chippewa	Upper	7526	5y6hSCS	11	259.88	260.39	260.59	261.08	0.127897	3.68	2.99	10.57	2.21
Chippewa	Upper	7526	2y6hSCS	7.3	259.88	260.3	260.47	260.94	0.160446	3.54	2.06	9.17	2.38
Chippewa	Upper	7526	100y4hChicago	19.7	259.88	260.57	260.83	261.37	0.07985	3.95	5.04	11.61	1.88
Chippewa	Upper	7526	2yrFlow100yrLake	7.3	259.88	260.3	260.47	260.94	0.160446	3.54	2.06	9.17	2.38
Chippewa	Upper	7519	Timmins	75.8	259.84	261.29	261.58	262.17	0.036588	4.71	27	48.73	1.47
Chippewa	Upper	7519	100y6hSCS	23.7	259.84	260.89	260.89	261.18	0.020204	2.58	12.11	22.52	1.01
Chippewa	Upper	7519	50y6hSCS	20.5	259.84	260.83	260.83	261.1	0.019409	2.47	10.88	20.39	0.98
Chippewa	Upper	7519	25y6hSCS	17.4	259.84	260.77	260.77	261.01	0.018079	2.34	9.72	18.56	0.95
Chippewa	Upper	7519	10y6hSCS	13.6	259.84	260.63	260.63	260.89	0.019382	2.37	7.38	15.6	0.98
Chippewa	Upper	7519	5y6hSCS	11	259.84	260.54	260.54	260.78	0.021325	2.29	6.02	14.21	1
Chippewa	Upper	7519	2y6hSCS	7.3	259.84	260.39	260.37	260.6	0.023798	2.1	4.15	11.21	1.02
Chippewa	Upper	7519	100y4hChicago	19.7	259.84	260.82	260.82	261.08	0.01931	2.45	10.54	19.61	0.98
Chippewa	Upper	7519	2yrFlow100yrLake	7.3	259.84	260.39	260.37	260.6	0.023798	2.1	4.15	11.21	1.02
Chippewa	Upper	7514	Timmins	75.8	259.76	261.02	261.32	261.96	0.047671	5	26.98	52.13	1.65
Chippewa	Upper	7514	100y6hSCS	23.7	259.76	260.56	260.66	261.01	0.051208	3.31	9.83	23.96	1.53
Chippewa	Upper	7514	50y6hSCS	20.5	259.76	260.51	260.63	260.93	0.056899	3.21	8.54	22.18	1.58
Chippewa	Upper	7514	25y6hSCS	17.4	259.76	260.46	260.57	260.85	0.057337	3.1	7.48	20.08	1.57
Chippewa	Upper	7514	10y6hSCS	13.6	259.76	260.41	260.48	260.74	0.043506	2.84	6.5	16.78	1.38
Chippewa	Upper	7514	5y6hSCS	11	259.76	260.36	260.45	260.65	0.034145	2.6	5.8	15.17	1.23
Chippewa	Upper	7514	2y6hSCS	7.3	259.76	260.29	260.29	260.47	0.025509	2.09	4.72	13.92	1.05
Chippewa	Upper	7514	100y4hChicago	19.7	259.76	260.5	260.62	260.91	0.057816	3.18	8.27	21.83	1.58
Chippewa	Upper	7514	2yrFlow100yrLake	7.3	259.76	260.29	260.29	260.47	0.025509	2.09	4.72	13.92	1.05
Chippewa	Upper	7509	Timmins	75.8	259.61	260.6	260.91	261.66	0.071276	5.53	25.99	52.08	1.97
Chippewa	Upper	7509	100y6hSCS	23.7	259.61	260.31	260.44	260.77	0.048133	3.35	11.67	41.55	1.5
Chippewa	Upper	7509	50y6hSCS	20.5	259.61	260.28	260.4	260.68	0.044095	3.09	10.62	37.62	1.42
Chippewa	Upper	7509	25y6hSCS	17.4	259.61	260.22	260.37	260.58	0.049279	2.97	8.46	28.89	1.47
Chippewa	Upper	7509	10y6hSCS	13.6	259.61	260.13	260.22	260.49	0.059115	2.92	6.43	21.76	1.57
Chippewa	Upper	7509	5y6hSCS	11	259.61	260.07	260.18	260.43	0.055089	2.89	5.2	18.1	1.52
Chippewa	Upper	7509	2y6hSCS	7.3	259.61	259.98	260.06	260.28	0.055381	2.62	3.66	15.06	1.49
Chippewa	Upper	7509	100y4hChicago	19.7	259.61	260.27	260.39	260.66	0.043038	3.02	10.37	37.28	1.4
Chippewa	Upper	7509	2yrFlow100yrLake	7.3	259.61	259.98	260.06	260.28	0.055381	2.62	3.66	15.06	1.49
Chippewa	Upper	7503	Timmins	75.8	259.3	260.06	260.36	261.11	0.13051	5.98	24.07	54.24	2.52
Chippewa	Upper	7503	100y6hSCS	23.7	259.3	259.74	259.95	260.3	0.159369	4.15	8.86	33	2.48

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7503	50y6hSCS	20.5	259.3	259.71	259.9	260.22	0.169703	3.97	7.8	29.84	2.51
Chippewa	Upper	7503	25y6hSCS	17.4	259.3	259.69	259.86	260.11	0.157947	3.62	7.14	28.69	2.39
Chippewa	Upper	7503	10y6hSCS	13.6	259.3	259.65	259.74	259.97	0.141504	3.14	6.29	27.18	2.22
Chippewa	Upper	7503	5y6hSCS	11	259.3	259.61	259.7	259.9	0.161987	2.95	5.25	24.84	2.3
Chippewa	Upper	7503	2y6hSCS	7.3	259.3	259.57	259.61	259.75	0.144024	2.37	4.18	22.78	2.08
Chippewa	Upper	7503	100y4hChicago	19.7	259.3	259.7	259.87	260.2	0.175497	3.94	7.5	29.38	2.54
Chippewa	Upper	7503	2yrFlow100yrLake	7.3	259.3	259.57	259.61	259.75	0.144024	2.37	4.18	22.78	2.08
Chippewa	Upper	7493	Timmins	75.8	258.33	259.33	259.58	260.16	0.067662	5.04	28.22	56.97	1.89
Chippewa	Upper	7493	100y6hSCS	23.7	258.33	258.93	259.11	259.43	0.055228	3.58	10.68	30.35	1.61
Chippewa	Upper	7493	50y6hSCS	20.5	258.33	258.9	259.05	259.34	0.05389	3.37	9.6	28.84	1.57
Chippewa	Upper	7493	25y6hSCS	17.4	258.33	258.85	258.99	259.26	0.055087	3.21	8.33	27.26	1.56
Chippewa	Upper	7493	10y6hSCS	13.6	258.33	258.8	258.89	259.16	0.055645	2.97	6.84	25.4	1.54
Chippewa	Upper	7493	5y6hSCS	11	258.33	258.75	258.85	259.06	0.053428	2.72	5.83	24.13	1.49
Chippewa	Upper	7493	2y6hSCS	7.3	258.33	258.67	258.75	258.91	0.057605	2.39	4.04	16.78	1.48
Chippewa	Upper	7493	100y4hChicago	19.7	258.33	258.89	259.03	259.32	0.053549	3.31	9.28	28.51	1.56
Chippewa	Upper	7493	2yrFlow100yrLake	7.3	258.33	258.67	258.75	258.91	0.057605	2.39	4.04	16.78	1.48
Chippewa	Upper	7484	Timmins	75.8	256.88	258.74	259.06	259.75	0.030545	4.68	25.26	56.26	1.34
Chippewa	Upper	7484	100y6hSCS	23.7	256.88	257.9	258.2	258.83	0.069976	4.29	5.53	9.44	1.79
Chippewa	Upper	7484	50y6hSCS	20.5	256.88	257.82	258.11	258.73	0.075158	4.22	4.85	8.95	1.83
Chippewa	Upper	7484	25y6hSCS	17.4	256.88	257.75	258.02	258.62	0.080955	4.15	4.2	8.42	1.88
Chippewa	Upper	7484	10y6hSCS	13.6	256.88	257.64	257.9	258.49	0.086568	4.11	3.31	7.08	1.92
Chippewa	Upper	7484	5y6hSCS	11	256.88	257.53	257.81	258.4	0.087638	4.12	2.67	5.68	1.92
Chippewa	Upper	7484	2y6hSCS	7.3	256.88	257.39	257.65	258.16	0.110322	3.9	1.87	5.21	2.08
Chippewa	Upper	7484	100y4hChicago	19.7	256.88	257.81	258.08	258.71	0.0758	4.2	4.69	8.78	1.84
Chippewa	Upper	7484	2yrFlow100yrLake	7.3	256.88	257.39	257.65	258.16	0.110322	3.9	1.87	5.21	2.08
Chippewa	Upper	7475	Timmins	75.8	256.19	257.8	258.48	259.34	0.052517	5.97	18.59	25.19	1.77
Chippewa	Upper	7475	100y6hSCS	23.7	256.19	257.15	257.48	258.13	0.081943	4.58	5.98	11.05	1.96
Chippewa	Upper	7475	50y6hSCS	20.5	256.19	257.1	257.41	258.01	0.081586	4.42	5.36	10.5	1.94
Chippewa	Upper	7475	25y6hSCS	17.4	256.19	257.03	257.33	257.89	0.077144	4.27	4.73	9.59	1.88
Chippewa	Upper	7475	10y6hSCS	13.6	256.19	256.95	257.2	257.7	0.079931	3.97	3.95	9.24	1.87
Chippewa	Upper	7475	5y6hSCS	11	256.19	256.88	257.11	257.55	0.084846	3.75	3.34	8.55	1.88
Chippewa	Upper	7475	2y6hSCS	7.3	256.19	256.8	256.95	257.25	0.072362	3.08	2.68	8.11	1.69
Chippewa	Upper	7475	100y4hChicago	19.7	256.19	257.08	257.39	257.99	0.08028	4.4	5.19	10.2	1.92
Chippewa	Upper	7475	2yrFlow100yrLake	7.3	256.19	256.8	256.95	257.25	0.072362	3.08	2.68	8.11	1.69
Chippewa	Upper	7467	Timmins	75.8	255.99	257.4	257.86	258.89	0.050539	6.09	21.23	31.21	1.77
Chippewa	Upper	7467	100y6hSCS	23.7	255.99	256.91	257.11	257.58	0.03943	3.79	8.46	20.69	1.43
Chippewa	Upper	7467	50y6hSCS	20.5	255.99	256.87	257.05	257.47	0.038137	3.56	7.53	20.06	1.4
Chippewa	Upper	7467	25y6hSCS	17.4	255.99	256.81	256.98	257.35	0.037722	3.35	6.5	18.83	1.37
Chippewa	Upper	7467	10y6hSCS	13.6	255.99	256.75	256.88	257.19	0.033589	2.96	5.46	16.76	1.27
Chippewa	Upper	7467	5y6hSCS	11	255.99	256.71	256.8	257.05	0.03036	2.65	4.71	13.97	1.19
Chippewa	Upper	7467	2y6hSCS	7.3	255.99	256.62	256.65	256.85	0.025362	2.14	3.65	11.68	1.05
Chippewa	Upper	7467	100y4hChicago	19.7	255.99	256.85	257.03	257.44	0.038414	3.52	7.23	19.68	1.4
Chippewa	Upper	7467	2yrFlow100yrLake	7.3	255.99	256.62	256.65	256.85	0.025362	2.14	3.65	11.68	1.05
Chippewa	Upper	7458	Timmins	75.8	255.92	256.95	257.35	258.22	0.102176	6.69	21.89	34.59	2.36
Chippewa	Upper	7458	100y6hSCS	23.7	255.92	256.67	256.79	257.1	0.055174	3.71	12.3	33.56	1.62
Chippewa	Upper	7458	50y6hSCS	20.5	255.92	256.65	256.75	257.02	0.049886	3.43	11.52	33.44	1.53
Chippewa	Upper	7458	25y6hSCS	17.4	255.92	256.62	256.71	256.93	0.043789	3.11	10.72	32.99	1.42
Chippewa	Upper	7458	10y6hSCS	13.6	255.92	256.58	256.65	256.82	0.036449	2.69	9.52	31.86	1.28
Chippewa	Upper	7458	5y6hSCS	11	255.92	256.55	256.57	256.74	0.031263	2.37	8.5	30.26	1.17
Chippewa	Upper	7458	2y6hSCS	7.3	255.92	256.49	256.5	256.62	0.026881	1.97	6.63	28.54	1.05
Chippewa	Upper	7458	100y4hChicago	19.7	255.92	256.64	256.74	257	0.047728	3.33	11.37	33.42	1.49
Chippewa	Upper	7458	2yrFlow100yrLake	7.3	255.92	256.49	256.5	256.62	0.026881	1.97	6.63	28.54	1.05
Chippewa	Upper	7450	Timmins	75.8	255.51	256.93	257.11	257.61	0.030412	4.9	35.12	50.41	1.39
Chippewa	Upper	7450	100y6hSCS	23.7	255.51	256.35	256.44	256.73	0.033745	3.4	12.89	28.6	1.32
Chippewa	Upper	7450	50y6hSCS	20.5	255.51	256.29	256.39	256.67	0.035966	3.32	11.31	28.15	1.34
Chippewa	Upper	7450	25y6hSCS	17.4	255.51	256.24	256.33	256.6	0.036844	3.17	9.9	27.1	1.34
Chippewa	Upper	7450	10y6hSCS	13.6	255.51	256.13	256.18	256.48	0.045123	3.07	7.18	23.66	1.43
Chippewa	Upper	7450	5y6hSCS	11	255.51	256.06	256.15	256.39	0.053297	2.97	5.63	18.94	1.52
Chippewa	Upper	7450	2y6hSCS	7.3	255.51	255.94	256.03	256.25	0.079477	2.85	3.65	14.22	1.74
Chippewa	Upper	7450	100y4hChicago	19.7	255.51	256.28	256.38	256.65	0.036033	3.28	10.97	28.03	1.34
Chippewa	Upper	7450	2yrFlow100yrLake	7.3	255.51	255.94	256.03	256.25	0.079477	2.85	3.65	14.22	1.74
Chippewa	Upper	7440	Timmins	75.8	255.03	256.26	256.62	257.15	0.074025	5.96	25.57	36.36	2.03
Chippewa	Upper	7440	100y6hSCS	23.7	255.03	255.99	255.94	256.19	0.025425	2.75	16.66	31.19	1.12
Chippewa	Upper	7440	50y6hSCS	20.5	255.03	255.8	255.9	256.17	0.076771	3.7	10.65	30.42	1.83

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7440	25y6hSCS	17.4	255.03	255.77	255.85	256.09	0.072737	3.43	9.74	30.29	1.76
Chippewa	Upper	7440	10y6hSCS	13.6	255.03	255.76	255.79	255.97	0.049936	2.78	9.38	30.23	1.45
Chippewa	Upper	7440	5y6hSCS	11	255.03	255.74	255.74	255.89	0.037684	2.36	8.95	30.16	1.25
Chippewa	Upper	7440	2y6hSCS	7.3	255.03	255.66	255.66	255.78	0.041022	2.07	6.51	28.19	1.25
Chippewa	Upper	7440	100y4hChicago	19.7	255.03	255.79	255.89	256.15	0.076268	3.64	10.4	30.38	1.81
Chippewa	Upper	7440	2yrFlow100yrLake	7.3	255.03	255.66	255.66	255.78	0.041022	2.07	6.51	28.19	1.25
Chippewa	Upper	7425.95	Timmins	75.8	254.35	255.96	256.07	256.52	0.022117	4.52	38.84	51.12	1.2
Chippewa	Upper	7425.95	100y6hSCS	23.7	254.35	255.3	255.3	255.76	0.03046	3.56	11.76	27.73	1.27
Chippewa	Upper	7425.95	50y6hSCS	20.5	254.35	255.33	255.41	255.64	0.020351	2.97	12.4	29.25	1.04
Chippewa	Upper	7425.95	25y6hSCS	17.4	254.35	255.25	255.29	255.56	0.022029	2.89	10.33	23.63	1.07
Chippewa	Upper	7425.95	10y6hSCS	13.6	254.35	255.12	255.18	255.44	0.027386	2.85	7.75	19.68	1.15
Chippewa	Upper	7425.95	5y6hSCS	11	254.35	255.03	255.11	255.36	0.033985	2.85	5.97	18.96	1.25
Chippewa	Upper	7425.95	2y6hSCS	7.3	254.35	254.92	255	255.2	0.036811	2.55	4.01	15.35	1.25
Chippewa	Upper	7425.95	100y4hChicago	19.7	254.35	255.28	255.3	255.63	0.023173	3.06	11.27	26.08	1.1
Chippewa	Upper	7425.95	2yrFlow100yrLake	7.3	254.35	254.92	255	255.2	0.036811	2.55	4.01	15.35	1.25
Chippewa	Upper	7408	Timmins	75.8	254.14	255.9	255.39	256.01	0.009491	2.4	63.48	85.34	0.72
Chippewa	Upper	7408	100y6hSCS	23.7	254.14	255.22	254.95	255.29	0.008404	1.88	25.8	35.73	0.64
Chippewa	Upper	7408	50y6hSCS	20.5	254.14	255.13	254.9	255.21	0.00923	1.88	22.7	35.2	0.67
Chippewa	Upper	7408	25y6hSCS	17.4	254.14	255.04	254.87	255.11	0.010475	1.9	19.49	34.41	0.71
Chippewa	Upper	7408	10y6hSCS	13.6	254.14	254.91	254.7	254.99	0.014097	2	15.05	32.37	0.8
Chippewa	Upper	7408	5y6hSCS	11	254.14	254.77	254.66	254.88	0.024417	2.31	10.47	31.47	1.03
Chippewa	Upper	7408	2y6hSCS	7.3	254.14	254.61	254.54	254.72	0.030722	2.14	6.52	21.59	1.11
Chippewa	Upper	7408	100y4hChicago	19.7	254.14	255.11	254.9	255.18	0.00943	1.88	21.95	35.07	0.67
Chippewa	Upper	7408	2yrFlow100yrLake	7.3	254.14	254.61	254.54	254.72	0.030722	2.14	6.52	21.59	1.11
Chippewa	Upper	7381	Timmins	75.8	253.35	255.36	255.36	255.7	0.011838	3.04	46.53	77.54	0.86
Chippewa	Upper	7381	100y6hSCS	23.7	253.35	254.62	254.62	254.94	0.018863	2.63	10.66	16.44	0.99
Chippewa	Upper	7381	50y6hSCS	20.5	253.35	254.47	254.47	254.84	0.017473	2.83	8.69	11.33	0.97
Chippewa	Upper	7381	25y6hSCS	17.4	253.35	254.35	254.35	254.72	0.018401	2.8	7.41	10.43	0.99
Chippewa	Upper	7381	10y6hSCS	13.6	253.35	254.24	254.2	254.55	0.017317	2.55	6.29	9.76	0.94
Chippewa	Upper	7381	5y6hSCS	11	253.35	254.24	254.1	254.44	0.011425	2.07	6.27	9.74	0.77
Chippewa	Upper	7381	2y6hSCS	7.3	253.35	254.03	253.94	254.2	0.012718	1.86	4.49	8.23	0.78
Chippewa	Upper	7381	100y4hChicago	19.7	253.35	254.43	254.43	254.81	0.017966	2.85	8.29	11.01	0.98
Chippewa	Upper	7381	2yrFlow100yrLake	7.3	253.35	254.03	253.94	254.2	0.012718	1.86	4.49	8.23	0.78
Chippewa	Upper	7360	Timmins	75.8	253.13	254.88	255.02	255.41	0.014412	4.17	46.54	70.83	1.01
Chippewa	Upper	7360	100y6hSCS	23.7	253.13	254.15	254.17	254.56	0.01701	3.13	11.13	15.43	1.01
Chippewa	Upper	7360	50y6hSCS	20.5	253.13	254.05	254.1	254.46	0.019199	3.1	9.57	15.21	1.05
Chippewa	Upper	7360	25y6hSCS	17.4	253.13	253.99	254.02	254.34	0.017457	2.84	8.78	15.1	0.99
Chippewa	Upper	7360	10y6hSCS	13.6	253.13	253.9	253.9	254.19	0.016723	2.56	7.37	14.3	0.95
Chippewa	Upper	7360	5y6hSCS	11	253.13	253.72	253.72	254.07	0.027667	2.76	5.08	11.26	1.17
Chippewa	Upper	7360	2y6hSCS	7.3	253.13	253.64	253.64	253.86	0.020962	2.17	4.19	10.67	0.99
Chippewa	Upper	7360	100y4hChicago	19.7	253.13	254.03	254.07	254.43	0.018816	3.03	9.36	15.19	1.04
Chippewa	Upper	7360	2yrFlow100yrLake	7.3	253.13	253.64	253.64	253.86	0.020962	2.17	4.19	10.67	0.99
Chippewa	Upper	7337	Timmins	75.8	252.58	254.64	254.13	254.89	0.005653	2.91	62.42	72.22	0.65
Chippewa	Upper	7337	100y6hSCS	23.7	252.58	253.99	253.47	254.1	0.003167	1.68	24.78	39	0.46
Chippewa	Upper	7337	50y6hSCS	20.5	252.58	253.91	253.41	254	0.00287	1.54	22.21	27.27	0.43
Chippewa	Upper	7337	25y6hSCS	17.4	252.58	253.78	253.34	253.87	0.003012	1.47	19.04	22.93	0.43
Chippewa	Upper	7337	10y6hSCS	13.6	252.58	253.63	253.24	253.7	0.003084	1.35	15.74	20.14	0.43
Chippewa	Upper	7337	5y6hSCS	11	252.58	253.51	253.16	253.57	0.003249	1.27	13.32	19.51	0.43
Chippewa	Upper	7337	2y6hSCS	7.3	252.58	253.3	253.06	253.36	0.003923	1.17	9.33	18.89	0.45
Chippewa	Upper	7337	100y4hChicago	19.7	252.58	253.88	253.39	253.97	0.002888	1.52	21.43	25.77	0.43
Chippewa	Upper	7337	2yrFlow100yrLake	7.3	252.58	253.3	253.06	253.36	0.003923	1.17	9.33	18.89	0.45
Chippewa	Upper	7319	Timmins	75.8	252.18	254.38	254.38	254.74	0.011533	3.6	51.79	69.48	0.89
Chippewa	Upper	7319	100y6hSCS	23.7	252.18	253.61	253.61	253.96	0.018282	2.99	11.84	26.69	1.01
Chippewa	Upper	7319	50y6hSCS	20.5	252.18	253.44	253.44	253.85	0.027916	3.2	8.34	14.4	1.21
Chippewa	Upper	7319	25y6hSCS	17.4	252.18	253.4	253.39	253.73	0.023363	2.83	7.88	12.36	1.09
Chippewa	Upper	7319	10y6hSCS	13.6	252.18	253.26	253.22	253.56	0.023588	2.75	6.43	9.08	1.09
Chippewa	Upper	7319	5y6hSCS	11	252.18	253.11	253.11	253.42	0.027637	2.77	5.19	8.15	1.16
Chippewa	Upper	7319	2y6hSCS	7.3	252.18	252.92	252.92	253.18	0.032365	2.57	3.73	7.29	1.21
Chippewa	Upper	7319	100y4hChicago	19.7	252.18	253.41	253.41	253.82	0.028839	3.17	7.98	12.86	1.22
Chippewa	Upper	7319	2yrFlow100yrLake	7.3	252.18	252.92	252.92	253.18	0.032365	2.57	3.73	7.29	1.21
Chippewa	Upper	7298.533	Timmins	75.8	251.7	254.21	254.11	254.5	0.005649	2.99	67.11	102.48	0.62
Chippewa	Upper	7298.533	100y6hSCS	23.7	251.7	253.4	252.96	253.62	0.005234	2.17	14.97	26.29	0.56
Chippewa	Upper	7298.533	50y6hSCS	20.5	251.7	253.36	252.85	253.54	0.004301	1.94	14.06	24	0.5
Chippewa	Upper	7298.533	25y6hSCS	17.4	251.7	253.43		253.54	0.002604	1.55	15.81	27.12	0.39

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7298.533	10y6hSCS	13.6	251.7	253.3		253.39	0.002255	1.36	12.61	21.39	0.36
Chippewa	Upper	7298.533	5y6hSCS	11	251.7	253.17		253.24	0.0021	1.24	10.21	15.9	0.34
Chippewa	Upper	7298.533	2y6hSCS	7.3	251.7	252.81	252.31	252.88	0.002719	1.14	6.57	7.94	0.37
Chippewa	Upper	7298.533	100y4hChicago	19.7	251.7	253.35	252.82	253.52	0.004052	1.88	13.88	22.8	0.49
Chippewa	Upper	7298.533	2yrFlow100yrLake	7.3	251.7	252.81	252.31	252.88	0.002719	1.14	6.57	7.94	0.37
Chippewa	Upper	7295.858	Timmins	75.8	251.69	254.24	254.2	254.47	0.004603	2.76	77.8	104.32	0.56
Chippewa	Upper	7295.858	100y6hSCS	23.7	251.69	253.37	252.96	253.61	0.005289	2.21	14.47	24	0.56
Chippewa	Upper	7295.858	50y6hSCS	20.5	251.69	253.35	252.84	253.53	0.004258	1.96	13.82	21.37	0.5
Chippewa	Upper	7295.858	25y6hSCS	17.4	251.69	253.42	252.73	253.54	0.002605	1.58	15.69	35.14	0.39
Chippewa	Upper	7295.858	10y6hSCS	13.6	251.69	253.29	252.58	253.38	0.002143	1.36	12.71	19.69	0.35
Chippewa	Upper	7295.858	5y6hSCS	11	251.69	253.16	252.47	253.24	0.001977	1.23	10.49	15.71	0.33
Chippewa	Upper	7295.858	2y6hSCS	7.3	251.69	252.79	252.3	252.87	0.002551	1.22	5.96	7.69	0.38
Chippewa	Upper	7295.858	100y4hChicago	19.7	251.69	253.34	252.82	253.51	0.003989	1.9	13.7	21.18	0.48
Chippewa	Upper	7295.858	2yrFlow100yrLake	7.3	251.69	252.79	252.3	252.87	0.002551	1.22	5.96	7.69	0.38
Chippewa	Upper	7286.624	Culvert										
Chippewa	Upper	7273.624	Timmins	75.8	251.38	254.39	253.74	254.46	0.002727	2.02	95.15	65.92	0.39
Chippewa	Upper	7273.624	100y6hSCS	23.7	251.38	253.24	253.24	253.47	0.00998	2.66	22.25	52.46	0.68
Chippewa	Upper	7273.624	50y6hSCS	20.5	251.38	253.13	253.13	253.38	0.011368	2.71	17.14	37.33	0.72
Chippewa	Upper	7273.624	25y6hSCS	17.4	251.38	253.11	253.11	253.45	0.012758	2.84	10.59	36.01	0.76
Chippewa	Upper	7273.624	10y6hSCS	13.6	251.38	252.97	252.97	253.29	0.013096	2.68	7.86	30.73	0.76
Chippewa	Upper	7273.624	5y6hSCS	11	251.38	252.7	252.7	253.15	0.022991	3.03	4.04	12.49	0.97
Chippewa	Upper	7273.624	2y6hSCS	7.3	251.38	252.47	252.47	252.82	0.024575	2.65	2.95	6.45	0.96
Chippewa	Upper	7273.624	100y4hChicago	19.7	251.38	253.13	253.13	253.36	0.010498	2.6	17.14	37.33	0.69
Chippewa	Upper	7273.624	2yrFlow100yrLake	7.3	251.38	252.47	252.47	252.82	0.024575	2.65	2.95	6.45	0.96
Chippewa	Upper	7269.205	Timmins	75.8	251.33	254.33		254.44	0.002432	2.01	82.92	56.96	0.41
Chippewa	Upper	7269.205	100y6hSCS	23.7	251.33	252.71	252.95	253.35	0.03153	3.65	8	15.55	1.23
Chippewa	Upper	7269.205	50y6hSCS	20.5	251.33	252.58	252.78	253.26	0.034916	3.7	6.32	10.75	1.28
Chippewa	Upper	7269.205	25y6hSCS	17.4	251.33	252.36	252.71	253.29	0.05583	4.28	4.29	8.19	1.59
Chippewa	Upper	7269.205	10y6hSCS	13.6	251.33	252.2	252.52	253.12	0.064103	4.24	3.21	5.11	1.67
Chippewa	Upper	7269.205	5y6hSCS	11	251.33	252.09	252.4	252.95	0.069001	4.11	2.68	4.57	1.71
Chippewa	Upper	7269.205	2y6hSCS	7.3	251.33	251.93	252.14	252.62	0.070689	3.67	1.99	4.16	1.7
Chippewa	Upper	7269.205	100y4hChicago	19.7	251.33	252.55	252.77	253.24	0.036599	3.74	5.94	9.62	1.3
Chippewa	Upper	7269.205	2yrFlow100yrLake	7.3	251.33	251.93	252.14	252.62	0.070689	3.67	1.99	4.16	1.7
Chippewa	Upper	7264	Timmins	75.8	251.27	254.3		254.43	0.002253	2.09	79.59	52.26	0.41
Chippewa	Upper	7264	100y6hSCS	23.7	251.27	252.47	252.74	253.19	0.031783	3.86	7.28	11.32	1.31
Chippewa	Upper	7264	50y6hSCS	20.5	251.27	252.36	252.63	253.08	0.035163	3.82	6.14	10.3	1.35
Chippewa	Upper	7264	25y6hSCS	17.4	251.27	252.23	252.46	253	0.044214	3.93	4.83	9.18	1.49
Chippewa	Upper	7264	10y6hSCS	13.6	251.27	252.12	252.33	252.79	0.044269	3.65	3.95	7.24	1.46
Chippewa	Upper	7264	5y6hSCS	11	251.27	252.05	252.21	252.61	0.040473	3.34	3.46	6.57	1.38
Chippewa	Upper	7264	2y6hSCS	7.3	251.27	251.94	252.02	252.31	0.030151	2.69	2.8	5.93	1.17
Chippewa	Upper	7264	100y4hChicago	19.7	251.27	252.33	252.6	253.06	0.036649	3.83	5.83	10.07	1.38
Chippewa	Upper	7264	2yrFlow100yrLake	7.3	251.27	251.94	252.02	252.31	0.030151	2.69	2.8	5.93	1.17
Chippewa	Upper	7260	Timmins	75.8	251.16	254.28		254.42	0.002009	2.11	77.39	49.33	0.4
Chippewa	Upper	7260	100y6hSCS	23.7	251.16	252.69	252.48	252.96	0.007948	2.4	13.57	21.84	0.7
Chippewa	Upper	7260	50y6hSCS	20.5	251.16	252.58	252.4	252.85	0.008685	2.35	11.28	18.88	0.72
Chippewa	Upper	7260	25y6hSCS	17.4	251.16	252.47	252.31	252.72	0.009069	2.24	9.38	15.9	0.72
Chippewa	Upper	7260	10y6hSCS	13.6	251.16	252.35	252.18	252.55	0.009061	2.04	7.62	12.23	0.7
Chippewa	Upper	7260	5y6hSCS	11	251.16	252.25	252.06	252.42	0.008931	1.88	6.53	10.43	0.68
Chippewa	Upper	7260	2y6hSCS	7.3	251.16	252.09	251.88	252.22	0.007458	1.57	5.01	8.87	0.61
Chippewa	Upper	7260	100y4hChicago	19.7	251.16	252.55	252.38	252.81	0.008847	2.33	10.77	18.22	0.72
Chippewa	Upper	7260	2yrFlow100yrLake	7.3	251.16	252.09	251.88	252.22	0.007458	1.57	5.01	8.87	0.61
Chippewa	Upper	7252	Timmins	75.8	251.17	254.2	253.22	254.4	0.002435	2.34	61.8	38.04	0.45
Chippewa	Upper	7252	100y6hSCS	23.7	251.17	252.73		252.88	0.004228	1.88	17.63	16.31	0.52
Chippewa	Upper	7252	50y6hSCS	20.5	251.17	252.62		252.76	0.004268	1.78	15.89	15.99	0.51
Chippewa	Upper	7252	25y6hSCS	17.4	251.17	252.51		252.64	0.004312	1.68	14.14	15.65	0.51
Chippewa	Upper	7252	10y6hSCS	13.6	251.17	252.37		252.47	0.004303	1.53	11.93	15.25	0.5
Chippewa	Upper	7252	5y6hSCS	11	251.17	252.26		252.35	0.004275	1.41	10.31	14.9	0.49
Chippewa	Upper	7252	2y6hSCS	7.3	251.17	252.09		252.16	0.004124	1.2	7.83	13.94	0.46
Chippewa	Upper	7252	100y4hChicago	19.7	251.17	252.6		252.73	0.004275	1.76	15.45	15.91	0.51
Chippewa	Upper	7252	2yrFlow100yrLake	7.3	251.17	252.09		252.16	0.004124	1.2	7.83	13.94	0.46
Chippewa	Upper	7244	Timmins	75.8	251.14	253.22	253.22	254.27	0.018583	4.72	20.69	19.99	1.14
Chippewa	Upper	7244	100y6hSCS	23.7	251.14	252.35	252.35	252.79	0.019178	3.02	8.89	10.92	1.03
Chippewa	Upper	7244	50y6hSCS	20.5	251.14	252.27	252.27	252.67	0.019886	2.88	8.01	10.72	1.04

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7244	25y6hSCS	17.4	251.14	252.19	252.19	252.55	0.020329	2.72	7.18	10.58	1.03
Chippewa	Upper	7244	10y6hSCS	13.6	251.14	252.08	252.08	252.39	0.022135	2.53	5.99	10.42	1.04
Chippewa	Upper	7244	5y6hSCS	11	251.14	252	252	252.27	0.023286	2.36	5.17	10.18	1.05
Chippewa	Upper	7244	2y6hSCS	7.3	251.14	251.88	251.88	252.08	0.023244	2.05	3.93	9.43	1.01
Chippewa	Upper	7244	100y4hChicago	19.7	251.14	252.25	252.25	252.64	0.020141	2.85	7.78	10.67	1.04
Chippewa	Upper	7244	2yrFlow100yrLake	7.3	251.14	251.88	251.88	252.08	0.023244	2.05	3.93	9.43	1.01
Chippewa	Upper	7236	Timmins	75.8	250.62	252.31	252.81	254.01	0.040041	5.86	14.32	12.23	1.58
Chippewa	Upper	7236	100y6hSCS	23.7	250.62	251.51	251.8	252.49	0.069646	4.39	5.56	10	1.82
Chippewa	Upper	7236	50y6hSCS	20.5	250.62	251.45	251.72	252.36	0.07354	4.23	4.97	9.83	1.84
Chippewa	Upper	7236	25y6hSCS	17.4	250.62	251.39	251.64	252.23	0.078918	4.06	4.36	9.65	1.87
Chippewa	Upper	7236	10y6hSCS	13.6	250.62	251.31	251.53	252.05	0.086673	3.81	3.61	9.37	1.91
Chippewa	Upper	7236	5y6hSCS	11	250.62	251.25	251.45	251.91	0.093992	3.6	3.07	9.11	1.95
Chippewa	Upper	7236	2y6hSCS	7.3	250.62	251.15	251.32	251.72	0.098934	3.36	2.17	7.16	1.95
Chippewa	Upper	7236	100y4hChicago	19.7	250.62	251.44	251.7	252.33	0.074451	4.18	4.82	9.78	1.84
Chippewa	Upper	7236	2yrFlow100yrLake	7.3	250.62	251.15	251.32	251.72	0.098934	3.36	2.17	7.16	1.95
Chippewa	Upper	7226	Timmins	75.8	249.01	251.03	251.8	253.45	0.062033	6.94	11.54	9.04	1.9
Chippewa	Upper	7226	100y6hSCS	23.7	249.01	250.16	250.6	251.64	0.09618	5.39	4.48	7.22	2.13
Chippewa	Upper	7226	50y6hSCS	20.5	249.01	250.09	250.5	251.47	0.100998	5.2	4	7.06	2.15
Chippewa	Upper	7226	25y6hSCS	17.4	249.01	250.03	250.39	251.29	0.106047	4.98	3.53	6.86	2.17
Chippewa	Upper	7226	10y6hSCS	13.6	249.01	249.94	250.26	251.04	0.113347	4.64	2.94	6.62	2.19
Chippewa	Upper	7226	5y6hSCS	11	249.01	249.88	250.15	250.84	0.118933	4.35	2.53	6.44	2.2
Chippewa	Upper	7226	2y6hSCS	7.3	249.01	249.76	249.99	250.57	0.133449	3.97	1.84	5.77	2.25
Chippewa	Upper	7226	100y4hChicago	19.7	249.01	250.08	250.47	251.42	0.102074	5.14	3.88	7.01	2.15
Chippewa	Upper	7226	2yrFlow100yrLake	7.3	249.01	249.76	249.99	250.57	0.133449	3.97	1.84	5.77	2.25
Chippewa	Upper	7218	Timmins	75.8	248.48	249.73	250.56	252.77	0.103204	7.76	10.1	10.16	2.42
Chippewa	Upper	7218	100y6hSCS	23.7	248.48	249.1	249.54	250.72	0.1404	5.64	4.25	8.61	2.53
Chippewa	Upper	7218	50y6hSCS	20.5	248.48	249.06	249.46	250.53	0.141621	5.38	3.84	8.4	2.51
Chippewa	Upper	7218	25y6hSCS	17.4	248.48	249.01	249.37	250.32	0.143328	5.08	3.45	8.27	2.49
Chippewa	Upper	7218	10y6hSCS	13.6	248.48	248.95	249.25	250.05	0.144155	4.64	2.94	8.11	2.44
Chippewa	Upper	7218	5y6hSCS	11	248.48	248.9	249.16	249.82	0.139935	4.24	2.6	8	2.36
Chippewa	Upper	7218	2y6hSCS	7.3	248.48	248.84	249.02	249.48	0.132091	3.57	2.05	7.82	2.22
Chippewa	Upper	7218	100y4hChicago	19.7	248.48	249.04	249.43	250.48	0.142097	5.31	3.74	8.37	2.51
Chippewa	Upper	7218	2yrFlow100yrLake	7.3	248.48	248.84	249.02	249.48	0.132091	3.57	2.05	7.82	2.22
Chippewa	Upper	7211	Timmins	75.8	248.22	249.34	250.07	251.93	0.099093	7.13	10.81	12.3	2.35
Chippewa	Upper	7211	100y6hSCS	23.7	248.22	248.9	249.16	249.8	0.076927	4.21	5.64	11.13	1.88
Chippewa	Upper	7211	50y6hSCS	20.5	248.22	248.86	249.09	249.64	0.071553	3.89	5.27	11.05	1.79
Chippewa	Upper	7211	25y6hSCS	17.4	248.22	248.83	249.02	249.47	0.06511	3.55	4.9	10.98	1.69
Chippewa	Upper	7211	10y6hSCS	13.6	248.22	248.79	248.92	249.27	0.055843	3.08	4.41	10.88	1.54
Chippewa	Upper	7211	5y6hSCS	11	248.22	248.75	248.85	249.13	0.047782	2.71	4.06	10.8	1.41
Chippewa	Upper	7211	2y6hSCS	7.3	248.22	248.69	248.73	248.92	0.03583	2.13	3.43	10.64	1.19
Chippewa	Upper	7211	100y4hChicago	19.7	248.22	248.85	249.07	249.59	0.069981	3.81	5.18	11.03	1.77
Chippewa	Upper	7211	2yrFlow100yrLake	7.3	248.22	248.69	248.73	248.92	0.03583	2.13	3.43	10.64	1.19
Chippewa	Upper	7206	Timmins	75.8	247.97	249.15	249.78	251.27	0.08917	6.65	12.9	15.1	2.24
Chippewa	Upper	7206	100y6hSCS	23.7	247.97	248.79	248.95	249.38	0.047053	3.5	7.55	14.47	1.5
Chippewa	Upper	7206	50y6hSCS	20.5	247.97	248.76	248.89	249.26	0.042458	3.21	7.11	14.41	1.42
Chippewa	Upper	7206	25y6hSCS	17.4	247.97	248.72	248.82	249.14	0.037804	2.92	6.62	14.26	1.33
Chippewa	Upper	7206	10y6hSCS	13.6	247.97	248.67	248.73	248.99	0.032589	2.56	5.9	14.03	1.21
Chippewa	Upper	7206	5y6hSCS	11	247.97	248.62	248.66	248.89	0.031248	2.34	5.17	13.71	1.17
Chippewa	Upper	7206	2y6hSCS	7.3	247.97	248.52	248.55	248.73	0.033588	2.07	3.83	12.91	1.16
Chippewa	Upper	7206	100y4hChicago	19.7	247.97	248.75	248.87	249.23	0.041254	3.14	6.99	14.37	1.39
Chippewa	Upper	7206	2yrFlow100yrLake	7.3	247.97	248.52	248.55	248.73	0.033588	2.07	3.83	12.91	1.16
Chippewa	Upper	7197	Timmins	75.8	246.61	247.84	248.53	250.36	0.107081	7.05	11	13.58	2.4
Chippewa	Upper	7197	100y6hSCS	23.7	246.61	247.3	247.68	248.65	0.133843	5.13	4.62	10	2.41
Chippewa	Upper	7197	50y6hSCS	20.5	246.61	247.25	247.61	248.54	0.146207	5.03	4.07	9.72	2.48
Chippewa	Upper	7197	25y6hSCS	17.4	246.61	247.19	247.53	248.45	0.156652	4.97	3.5	8.96	2.54
Chippewa	Upper	7197	10y6hSCS	13.6	246.61	247.1	247.42	248.33	0.176657	4.91	2.77	7.94	2.66
Chippewa	Upper	7197	5y6hSCS	11	246.61	247.04	247.34	248.22	0.207286	4.81	2.29	7.68	2.81
Chippewa	Upper	7197	2y6hSCS	7.3	246.61	246.95	247.21	247.99	0.274382	4.51	1.62	7.43	3.09
Chippewa	Upper	7197	100y4hChicago	19.7	246.61	247.23	247.59	248.51	0.149277	5.01	3.93	9.58	2.5
Chippewa	Upper	7197	2yrFlow100yrLake	7.3	246.61	246.95	247.21	247.99	0.274382	4.51	1.62	7.43	3.09
Chippewa	Upper	7188.308	Timmins	75.8	246.5	247.7	248.2	249.37	0.063214	5.88	14.69	17.28	1.9
Chippewa	Upper	7188.308	100y6hSCS	23.7	246.5	247.27	247.41	247.82	0.038296	3.31	7.71	15.13	1.37
Chippewa	Upper	7188.308	50y6hSCS	20.5	246.5	247.23	247.35	247.71	0.036426	3.09	7.09	14.94	1.32
Chippewa	Upper	7188.308	25y6hSCS	17.4	246.5	247.18	247.28	247.6	0.035886	2.89	6.35	14.72	1.29

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7188.308	10y6hSCS	13.6	246.5	247.11	247.19	247.46	0.034936	2.62	5.39	13.97	1.25
Chippewa	Upper	7188.308	5y6hSCS	11	246.5	247.07	247.12	247.35	0.03201	2.35	4.79	13.02	1.18
Chippewa	Upper	7188.308	2y6hSCS	7.3	246.5	247	247	247.18	0.025867	1.89	3.9	12.32	1.03
Chippewa	Upper	7188.308	100y4hChicago	19.7	246.5	247.22	247.33	247.68	0.036115	3.04	6.92	14.89	1.31
Chippewa	Upper	7188.308	2yrFlow100yrLake	7.3	246.5	247	247	247.18	0.025867	1.89	3.9	12.32	1.03
Chippewa	Upper	7183	Timmins	75.8	246.36	248.41	248.06	248.82	0.00721	2.99	31.79	20.6	0.71
Chippewa	Upper	7183	100y6hSCS	23.7	246.36	247.45	247.28	247.66	0.009003	2.09	13.22	17.71	0.71
Chippewa	Upper	7183	50y6hSCS	20.5	246.36	247.36	247.21	247.56	0.009284	2.01	11.8	17.41	0.71
Chippewa	Upper	7183	25y6hSCS	17.4	246.36	247.27	247.15	247.46	0.01006	1.94	10.2	17.01	0.73
Chippewa	Upper	7183	10y6hSCS	13.6	246.36	247.15	247.06	247.32	0.011704	1.86	8.1	16.23	0.76
Chippewa	Upper	7183	5y6hSCS	11	246.36	247.06	246.99	247.22	0.012871	1.78	6.72	15.7	0.78
Chippewa	Upper	7183	2y6hSCS	7.3	246.36	246.92	246.87	247.05	0.015529	1.62	4.66	13.11	0.82
Chippewa	Upper	7183	100y4hChicago	19.7	246.36	247.34	247.2	247.53	0.009543	2	11.36	17.3	0.72
Chippewa	Upper	7183	2yrFlow100yrLake	7.3	246.36	246.92	246.87	247.05	0.015529	1.62	4.66	13.11	0.82
Chippewa	Upper	7179	Timmins	75.8	246.26	248.1	248.1	248.75	0.015435	3.8	25.13	19.77	0.99
Chippewa	Upper	7179	100y6hSCS	23.7	246.26	247.24	247.24	247.6	0.017104	2.7	10.21	15.84	0.96
Chippewa	Upper	7179	50y6hSCS	20.5	246.26	247.16	247.16	247.5	0.018271	2.62	8.94	15.21	0.97
Chippewa	Upper	7179	25y6hSCS	17.4	246.26	247.09	247.09	247.39	0.018107	2.47	7.95	14.86	0.96
Chippewa	Upper	7179	10y6hSCS	13.6	246.26	246.99	246.99	247.25	0.01886	2.28	6.54	13.42	0.96
Chippewa	Upper	7179	5y6hSCS	11	246.26	246.91	246.91	247.15	0.020162	2.17	5.45	12.91	0.97
Chippewa	Upper	7179	2y6hSCS	7.3	246.26	246.78	246.78	246.97	0.023336	1.96	3.85	10.67	1
Chippewa	Upper	7179	100y4hChicago	19.7	246.26	247.14	247.14	247.47	0.018211	2.58	8.69	15.12	0.97
Chippewa	Upper	7179	2yrFlow100yrLake	7.3	246.26	246.78	246.78	246.97	0.023336	1.96	3.85	10.67	1
Chippewa	Upper	7175	Timmins	75.8	246.01	247.81	247.87	248.66	0.023976	4.41	21.94	17.63	1.22
Chippewa	Upper	7175	100y6hSCS	23.7	246.01	247.01	247.1	247.5	0.029968	3.25	8.95	14.23	1.23
Chippewa	Upper	7175	50y6hSCS	20.5	246.01	246.95	247.03	247.39	0.030991	3.13	8	13.77	1.24
Chippewa	Upper	7175	25y6hSCS	17.4	246.01	246.87	246.96	247.29	0.033085	3.01	7	13.33	1.26
Chippewa	Upper	7175	10y6hSCS	13.6	246.01	246.79	246.86	247.14	0.034076	2.78	5.87	13.02	1.25
Chippewa	Upper	7175	5y6hSCS	11	246.01	246.72	246.79	247.04	0.034321	2.58	5.08	12.77	1.23
Chippewa	Upper	7175	2y6hSCS	7.3	246.01	246.63	246.67	246.86	0.032401	2.19	3.91	12.21	1.16
Chippewa	Upper	7175	100y4hChicago	19.7	246.01	246.93	247.01	247.37	0.031523	3.1	7.74	13.65	1.24
Chippewa	Upper	7175	2yrFlow100yrLake	7.3	246.01	246.63	246.67	246.86	0.032401	2.19	3.91	12.21	1.16
Chippewa	Upper	7171	Timmins	75.8	245.55	247.73	247.88	248.55	0.023872	4.43	23.32	19.42	1.21
Chippewa	Upper	7171	100y6hSCS	23.7	245.55	246.82	246.92	247.36	0.032139	3.53	8.54	12.08	1.28
Chippewa	Upper	7171	50y6hSCS	20.5	245.55	246.74	246.84	247.25	0.033654	3.41	7.59	11.74	1.29
Chippewa	Upper	7171	25y6hSCS	17.4	245.55	246.65	246.76	247.14	0.034552	3.31	6.63	11.16	1.29
Chippewa	Upper	7171	10y6hSCS	13.6	245.55	246.5	246.61	246.99	0.036312	3.29	5.13	8.84	1.31
Chippewa	Upper	7171	5y6hSCS	11	245.55	246.38	246.5	246.88	0.033591	3.29	4.15	7.16	1.26
Chippewa	Upper	7171	2y6hSCS	7.3	245.55	246.17	246.31	246.67	0.047671	3.24	2.69	6.72	1.44
Chippewa	Upper	7171	100y4hChicago	19.7	245.55	246.72	246.82	247.23	0.034168	3.39	7.35	11.65	1.29
Chippewa	Upper	7171	2yrFlow100yrLake	7.3	245.55	246.17	246.31	246.67	0.047671	3.24	2.69	6.72	1.44
Chippewa	Upper	7166	Timmins	75.8	245.27	247.29	247.59	248.39	0.027218	5.02	20.31	16.61	1.31
Chippewa	Upper	7166	100y6hSCS	23.7	245.27	246.38	246.57	247.15	0.040775	4.02	7.01	11.9	1.46
Chippewa	Upper	7166	50y6hSCS	20.5	245.27	246.29	246.53	247.03	0.043712	3.92	6.04	10.51	1.49
Chippewa	Upper	7166	25y6hSCS	17.4	245.27	246.2	246.44	246.91	0.04772	3.82	5.18	9.03	1.54
Chippewa	Upper	7166	10y6hSCS	13.6	245.27	246.09	246.3	246.74	0.054057	3.66	4.17	8.39	1.6
Chippewa	Upper	7166	5y6hSCS	11	245.27	245.99	246.19	246.62	0.065044	3.61	3.38	7.79	1.71
Chippewa	Upper	7166	2y6hSCS	7.3	245.27	245.88	246.02	246.37	0.06779	3.16	2.54	7.33	1.68
Chippewa	Upper	7166	100y4hChicago	19.7	245.27	246.27	246.51	247	0.044344	3.89	5.82	9.99	1.5
Chippewa	Upper	7166	2yrFlow100yrLake	7.3	245.27	245.88	246.02	246.37	0.06779	3.16	2.54	7.33	1.68
Chippewa	Upper	7162	Timmins	75.8	244.93	246.76	247.26	248.22	0.04772	5.89	17.49	16.09	1.68
Chippewa	Upper	7162	100y6hSCS	23.7	244.93	245.98	246.3	246.93	0.073647	4.67	6.44	11.07	1.89
Chippewa	Upper	7162	50y6hSCS	20.5	244.93	245.92	246.21	246.8	0.075319	4.48	5.77	10.7	1.89
Chippewa	Upper	7162	25y6hSCS	17.4	244.93	245.86	246.09	246.67	0.079739	4.3	5.08	10.4	1.91
Chippewa	Upper	7162	10y6hSCS	13.6	244.93	245.77	245.99	246.48	0.084929	4.01	4.22	9.95	1.93
Chippewa	Upper	7162	5y6hSCS	11	244.93	245.71	245.9	246.33	0.08906	3.78	3.59	9.44	1.93
Chippewa	Upper	7162	2y6hSCS	7.3	244.93	245.6	245.76	246.11	0.066529	3.37	2.71	7.24	1.68
Chippewa	Upper	7162	100y4hChicago	19.7	244.93	245.91	246.16	246.77	0.075985	4.43	5.6	10.61	1.89
Chippewa	Upper	7162	2yrFlow100yrLake	7.3	244.93	245.6	245.76	246.11	0.066529	3.37	2.71	7.24	1.68
Chippewa	Upper	7157	Timmins	75.8	244.39	245.57	246.2	247.75	0.124572	7.6	14.18	16.25	2.6
Chippewa	Upper	7157	100y6hSCS	23.7	244.39	244.98	245.34	246.26	0.219594	5.89	5.56	13.19	3.06
Chippewa	Upper	7157	50y6hSCS	20.5	244.39	244.94	245.28	246.11	0.230889	5.65	5.01	12.98	3.08
Chippewa	Upper	7157	25y6hSCS	17.4	244.39	244.9	245.19	245.95	0.242693	5.37	4.45	12.63	3.1
Chippewa	Upper	7157	10y6hSCS	13.6	244.39	244.83	245.08	245.71	0.268952	4.92	3.66	11.67	3.16

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7157	5y6hSCS	11	244.39	244.79	245.01	245.54	0.280766	4.57	3.17	11.25	3.15
Chippewa	Upper	7157	2y6hSCS	7.3	244.39	244.69	244.86	245.37	0.392814	4.41	2.14	9.32	3.54
Chippewa	Upper	7157	100y4hChicago	19.7	244.39	244.93	245.25	246.07	0.234447	5.59	4.86	12.89	3.09
Chippewa	Upper	7157	2yrFlow100yrLake	7.3	244.39	244.69	244.86	245.37	0.392814	4.41	2.14	9.32	3.54
Chippewa	Upper	7152	Timmins	75.8	243.44	244.42	245.15	246.85	0.304487	8.72	12.17	16.55	3.78
Chippewa	Upper	7152	100y6hSCS	23.7	243.44	244	244.27	244.93	0.315542	5.47	5.82	13.55	3.4
Chippewa	Upper	7152	50y6hSCS	20.5	243.44	243.97	244.2	244.77	0.301079	5.04	5.4	13.3	3.27
Chippewa	Upper	7152	25y6hSCS	17.4	243.44	243.93	244.15	244.6	0.282706	4.56	4.97	13.05	3.11
Chippewa	Upper	7152	10y6hSCS	13.6	243.44	243.9	244.05	244.39	0.243999	3.86	4.47	12.74	2.82
Chippewa	Upper	7152	5y6hSCS	11	243.44	243.86	243.97	244.25	0.225528	3.32	4.03	12.52	2.64
Chippewa	Upper	7152	2y6hSCS	7.3	243.44	243.81	243.85	244.05	0.176609	2.52	3.36	11.85	2.25
Chippewa	Upper	7152	100y4hChicago	19.7	243.44	243.96	244.19	244.72	0.296354	4.92	5.29	13.24	3.23
Chippewa	Upper	7152	2yrFlow100yrLake	7.3	243.44	243.81	243.85	244.05	0.176609	2.52	3.36	11.85	2.25
Chippewa	Upper	7146	Timmins	75.8	241.42	242.32	242.96	244.78	0.343448	9.43	12.3	14.78	4.02
Chippewa	Upper	7146	100y6hSCS	23.7	241.42	241.83	242.11	242.78	0.357525	5.09	5.52	11.42	3.54
Chippewa	Upper	7146	50y6hSCS	20.5	241.42	241.78	242.01	242.65	0.360557	4.41	4.95	10.63	3.43
Chippewa	Upper	7146	25y6hSCS	17.4	241.42	241.72	241.98	242.53	0.367376	4.11	4.36	9.72	3.39
Chippewa	Upper	7146	10y6hSCS	13.6	241.42	241.63	241.83	242.39	0.402814	3.87	3.52	8.34	3.45
Chippewa	Upper	7146	5y6hSCS	11	241.42	241.56	241.79	242.27	0.435199	2.92	2.95	7.69	3.31
Chippewa	Upper	7146	2y6hSCS	7.3	241.42	241.41	241.63	242.1	0.599757		1.99	5.85	0
Chippewa	Upper	7146	100y4hChicago	19.7	241.42	241.76	242.01	242.62	0.361649	4.33	4.8	10.41	3.42
Chippewa	Upper	7146	2yrFlow100yrLake	7.3	241.42	241.41	241.63	242.1	0.599757		1.99	5.85	0
Chippewa	Upper	7141	Timmins	75.8	240.44	241.62	242.23	243.77	0.103846	7.41	14.18	14.79	2.42
Chippewa	Upper	7141	100y6hSCS	23.7	240.44	241.12	241.38	241.96	0.080687	4.61	7.2	13.37	1.97
Chippewa	Upper	7141	50y6hSCS	20.5	240.44	241.08	241.3	241.83	0.080255	4.37	6.57	13.24	1.94
Chippewa	Upper	7141	25y6hSCS	17.4	240.44	241.03	241.23	241.7	0.08	4.12	5.91	13.11	1.92
Chippewa	Upper	7141	10y6hSCS	13.6	240.44	240.96	241.13	241.51	0.080106	3.76	5	12.35	1.87
Chippewa	Upper	7141	5y6hSCS	11	240.44	241.15	241.06	241.31	0.014839	2.03	7.57	13.44	0.85
Chippewa	Upper	7141	2y6hSCS	7.3	240.44	241.05	240.93	241.16	0.012348	1.66	6.17	13.16	0.76
Chippewa	Upper	7141	100y4hChicago	19.7	240.44	241.06	241.28	241.8	0.080218	4.31	6.4	13.21	1.94
Chippewa	Upper	7141	2yrFlow100yrLake	7.3	240.44	241.05	240.93	241.16	0.012348	1.66	6.17	13.16	0.76
Chippewa	Upper	7135	Timmins	75.8	240.47	241.58	242.01	243.04	0.084644	6.01	16.18	18.45	2.15
Chippewa	Upper	7135	100y6hSCS	23.7	240.47	241.23	241.26	241.59	0.033116	3.03	10.22	16.52	1.28
Chippewa	Upper	7135	50y6hSCS	20.5	240.47	241.2	241.2	241.5	0.028703	2.75	9.75	16.39	1.18
Chippewa	Upper	7135	25y6hSCS	17.4	240.47	241.14	241.14	241.41	0.028932	2.61	8.77	16.12	1.17
Chippewa	Upper	7135	10y6hSCS	13.6	240.47	241.05	241.05	241.28	0.030486	2.44	7.37	15.65	1.17
Chippewa	Upper	7135	5y6hSCS	11	240.47	240.98	240.98	241.19	0.032427	2.31	6.31	15.21	1.18
Chippewa	Upper	7135	2y6hSCS	7.3	240.47	240.87	240.87	241.04	0.035176	2.06	4.74	14.48	1.19
Chippewa	Upper	7135	100y4hChicago	19.7	240.47	241.18	241.18	241.48	0.028635	2.71	9.51	16.33	1.18
Chippewa	Upper	7135	2yrFlow100yrLake	7.3	240.47	240.87	240.87	241.04	0.035176	2.06	4.74	14.48	1.19
Chippewa	Upper	7129	Timmins	75.8	239.99	241.44	241.79	242.6	0.046921	5.22	19.22	23.47	1.64
Chippewa	Upper	7129	100y6hSCS	23.7	239.99	240.94	241.04	241.39	0.034676	3.21	9.43	16.62	1.3
Chippewa	Upper	7129	50y6hSCS	20.5	239.99	240.88	240.98	241.3	0.036349	3.11	8.38	16.13	1.31
Chippewa	Upper	7129	25y6hSCS	17.4	239.99	240.82	240.93	241.21	0.037812	2.98	7.39	15.57	1.32
Chippewa	Upper	7129	10y6hSCS	13.6	239.99	240.72	240.78	241.07	0.043065	2.82	5.94	13.97	1.37
Chippewa	Upper	7129	5y6hSCS	11	239.99	240.66	240.72	240.97	0.045328	2.65	5.09	13.61	1.37
Chippewa	Upper	7129	2y6hSCS	7.3	239.99	240.55	240.61	240.79	0.051205	2.36	3.73	12.28	1.39
Chippewa	Upper	7129	100y4hChicago	19.7	239.99	240.86	240.97	241.28	0.03672	3.08	8.13	16.03	1.31
Chippewa	Upper	7129	2yrFlow100yrLake	7.3	239.99	240.55	240.61	240.79	0.051205	2.36	3.73	12.28	1.39
Chippewa	Upper	7123	Timmins	75.8	239.78	241.24	241.56	242.32	0.037088	5.03	21.35	25.68	1.51
Chippewa	Upper	7123	100y6hSCS	23.7	239.78	240.7	240.82	241.18	0.036687	3.24	9.11	19.29	1.35
Chippewa	Upper	7123	50y6hSCS	20.5	239.78	240.62	240.75	241.06	0.041867	3.14	7.69	16.51	1.4
Chippewa	Upper	7123	25y6hSCS	17.4	239.78	240.56	240.68	240.96	0.042574	2.95	6.86	16.1	1.39
Chippewa	Upper	7123	10y6hSCS	13.6	239.78	240.52	240.56	240.81	0.035456	2.53	6.2	15.26	1.25
Chippewa	Upper	7123	5y6hSCS	11	239.78	240.45	240.5	240.72	0.03216	2.48	5.19	11.64	1.2
Chippewa	Upper	7123	2y6hSCS	7.3	239.78	240.35	240.35	240.55	0.030108	2.1	4.06	11.09	1.12
Chippewa	Upper	7123	100y4hChicago	19.7	239.78	240.6	240.74	241.04	0.042321	3.1	7.47	16.42	1.41
Chippewa	Upper	7123	2yrFlow100yrLake	7.3	239.78	240.35	240.35	240.55	0.030108	2.1	4.06	11.09	1.12
Chippewa	Upper	7117	Timmins	75.8	239.44	240.86	241.2	242.09	0.039122	5.2	19.54	24.64	1.55
Chippewa	Upper	7117	100y6hSCS	23.7	239.44	240.25	240.44	240.91	0.050698	3.7	7.29	15.87	1.57
Chippewa	Upper	7117	50y6hSCS	20.5	239.44	240.2	240.38	240.8	0.045156	3.5	6.6	13.8	1.48
Chippewa	Upper	7117	25y6hSCS	17.4	239.44	240.13	240.31	240.7	0.042317	3.42	5.69	11.19	1.44
Chippewa	Upper	7117	10y6hSCS	13.6	239.44	240.02	240.2	240.55	0.048114	3.27	4.57	10.53	1.49
Chippewa	Upper	7117	5y6hSCS	11	239.44	239.94	240.09	240.45	0.05837	3.23	3.68	9.94	1.6

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7117	2y6hSCS	7.3	239.44	239.82	239.96	240.26	0.071205	2.97	2.6	9.17	1.69
Chippewa	Upper	7117	100y4hChicago	19.7	239.44	240.18	240.36	240.77	0.045369	3.47	6.37	13.32	1.48
Chippewa	Upper	7117	2yrFlow100yrLake	7.3	239.44	239.82	239.96	240.26	0.071205	2.97	2.6	9.17	1.69
Chippewa	Upper	7111	Timmins	75.8	239.27	241.26	241.04	241.65	0.007992	3.09	37.2	31.27	0.75
Chippewa	Upper	7111	100y6hSCS	23.7	239.27	240.44	240.27	240.64	0.008066	2.04	14.8	22.16	0.68
Chippewa	Upper	7111	50y6hSCS	20.5	239.27	240.36	240.2	240.54	0.008551	1.97	12.94	21.35	0.68
Chippewa	Upper	7111	25y6hSCS	17.4	239.27	240.27	240.13	240.45	0.00908	1.89	11.14	20.47	0.69
Chippewa	Upper	7111	10y6hSCS	13.6	239.27	240.16	240.04	240.31	0.009738	1.76	8.95	18.36	0.7
Chippewa	Upper	7111	5y6hSCS	11	239.27	240.08	239.93	240.21	0.010313	1.66	7.46	17.53	0.7
Chippewa	Upper	7111	2y6hSCS	7.3	239.27	239.93	239.79	240.04	0.009789	1.48	5.21	11.44	0.67
Chippewa	Upper	7111	100y4hChicago	19.7	239.27	240.34	240.18	240.52	0.008723	1.96	12.46	21.12	0.69
Chippewa	Upper	7111	2yrFlow100yrLake	7.3	239.27	239.93	239.79	240.04	0.009789	1.48	5.21	11.44	0.67
Chippewa	Upper	7102.331	Timmins	75.8	239.11	240.99	240.99	241.56	0.012312	3.64	31.42	30.59	0.91
Chippewa	Upper	7102.331	100y6hSCS	23.7	239.11	240.17	240.17	240.53	0.017199	2.69	9.92	16.2	0.96
Chippewa	Upper	7102.331	50y6hSCS	20.5	239.11	240.1	240.1	240.43	0.017786	2.57	8.82	15.32	0.96
Chippewa	Upper	7102.331	25y6hSCS	17.4	239.11	240.03	240.03	240.33	0.018547	2.45	7.71	14.87	0.96
Chippewa	Upper	7102.331	10y6hSCS	13.6	239.11	239.93	239.93	240.19	0.01991	2.29	6.24	13.47	0.97
Chippewa	Upper	7102.331	5y6hSCS	11	239.11	239.85	239.85	240.09	0.021209	2.16	5.22	12.9	0.98
Chippewa	Upper	7102.331	2y6hSCS	7.3	239.11	239.73	239.73	239.91	0.024421	1.93	3.79	10.36	1.01
Chippewa	Upper	7102.331	100y4hChicago	19.7	239.11	240.09	240.09	240.41	0.017759	2.53	8.57	15.17	0.96
Chippewa	Upper	7102.331	2yrFlow100yrLake	7.3	239.11	239.73	239.73	239.91	0.024421	1.93	3.79	10.36	1.01
Chippewa	Upper	7084	Timmins	75.8	238.41	240.51	239.97	240.84	0.005794	2.86	38.81	24.35	0.65
Chippewa	Upper	7084	100y6hSCS	23.7	238.41	238.94	239.2	239.8	0.125058	4.52	6.6	16.73	2.32
Chippewa	Upper	7084	50y6hSCS	20.5	238.41	238.9	239.13	239.68	0.129443	4.31	5.97	16.36	2.32
Chippewa	Upper	7084	25y6hSCS	17.4	238.41	238.86	239.06	239.55	0.133822	4.08	5.34	15.94	2.32
Chippewa	Upper	7084	10y6hSCS	13.6	238.41	238.81	238.98	239.38	0.136952	3.71	4.57	15.63	2.29
Chippewa	Upper	7084	5y6hSCS	11	238.41	238.78	238.92	239.25	0.134405	3.38	4.04	15.4	2.22
Chippewa	Upper	7084	2y6hSCS	7.3	238.41	238.73	238.82	239.03	0.120681	2.72	3.25	14.72	2.02
Chippewa	Upper	7084	100y4hChicago	19.7	238.41	238.89	239.11	239.65	0.131872	4.27	5.79	16.25	2.33
Chippewa	Upper	7084	2yrFlow100yrLake	7.3	238.41	238.73	238.82	239.03	0.120681	2.72	3.25	14.72	2.02
Chippewa	Upper	7065	Timmins	75.8	237.88	240.33		240.72	0.005596	3.01	37.27	29.48	0.65
Chippewa	Upper	7065	100y6hSCS	23.7	237.88	239.03	238.92	239.31	0.013063	2.49	11.74	15.56	0.86
Chippewa	Upper	7065	50y6hSCS	20.5	237.88	238.94	238.85	239.21	0.014354	2.41	10.32	14.9	0.88
Chippewa	Upper	7065	25y6hSCS	17.4	237.88	238.85	238.77	239.09	0.015663	2.32	9	14.24	0.9
Chippewa	Upper	7065	10y6hSCS	13.6	237.88	238.74	238.67	238.95	0.017075	2.15	7.48	13.39	0.91
Chippewa	Upper	7065	5y6hSCS	11	237.88	238.66	238.6	238.84	0.017498	1.97	6.49	12.72	0.9
Chippewa	Upper	7065	2y6hSCS	7.3	237.88	238.53	238.44	238.67	0.015705	1.76	4.9	10.66	0.84
Chippewa	Upper	7065	100y4hChicago	19.7	237.88	238.92	238.82	239.18	0.014616	2.39	9.98	14.66	0.89
Chippewa	Upper	7065	2yrFlow100yrLake	7.3	237.88	238.53	238.44	238.67	0.015705	1.76	4.9	10.66	0.84
Chippewa	Upper	7046	Timmins	75.8	237.69	240.36		240.6	0.002934	2.43	49.23	31.71	0.48
Chippewa	Upper	7046	100y6hSCS	23.7	237.69	238.94		239.13	0.005657	1.97	14.69	17.28	0.59
Chippewa	Upper	7046	50y6hSCS	20.5	237.69	238.83		239	0.006145	1.92	12.77	16.57	0.6
Chippewa	Upper	7046	25y6hSCS	17.4	237.69	238.71		238.88	0.006813	1.86	10.86	15.96	0.62
Chippewa	Upper	7046	10y6hSCS	13.6	237.69	238.55		238.71	0.008324	1.8	8.35	14.54	0.67
Chippewa	Upper	7046	5y6hSCS	11	237.69	238.43		238.58	0.00977	1.75	6.75	13.06	0.7
Chippewa	Upper	7046	2y6hSCS	7.3	237.69	238.25		238.39	0.013058	1.62	4.56	11.15	0.77
Chippewa	Upper	7046	100y4hChicago	19.7	237.69	238.8		238.97	0.006287	1.9	12.29	16.4	0.61
Chippewa	Upper	7046	2yrFlow100yrLake	7.3	237.69	238.25		238.39	0.013058	1.62	4.56	11.15	0.77
Chippewa	Upper	7028	Timmins	75.8	237.4	240.18		240.53	0.00411	2.85	40.84	31.47	0.56
Chippewa	Upper	7028	100y6hSCS	23.7	237.4	238.86		239.03	0.004754	1.91	15.03	12.75	0.54
Chippewa	Upper	7028	50y6hSCS	20.5	237.4	238.75		238.9	0.004851	1.82	13.6	12.5	0.54
Chippewa	Upper	7028	25y6hSCS	17.4	237.4	238.63		238.76	0.005001	1.72	12.14	12.24	0.53
Chippewa	Upper	7028	10y6hSCS	13.6	237.4	238.46		238.58	0.005312	1.61	10.09	11.88	0.54
Chippewa	Upper	7028	5y6hSCS	11	237.4	238.33		238.44	0.005604	1.52	8.6	11.52	0.54
Chippewa	Upper	7028	2y6hSCS	7.3	237.4	238.14		238.22	0.005822	1.32	6.46	10.7	0.54
Chippewa	Upper	7028	100y4hChicago	19.7	237.4	238.72		238.86	0.004876	1.79	13.24	12.43	0.54
Chippewa	Upper	7028	2yrFlow100yrLake	7.3	237.4	238.14		238.22	0.005822	1.32	6.46	10.7	0.54
Chippewa	Upper	7005.654	Timmins	75.8	237.19	239.56	239.56	240.35	0.011657	4.04	23.85	21.7	0.88
Chippewa	Upper	7005.654	100y6hSCS	23.7	237.19	238.34	238.34	238.81	0.018984	3.06	7.91	9.62	0.99
Chippewa	Upper	7005.654	50y6hSCS	20.5	237.19	238.24	238.24	238.68	0.019733	2.95	6.99	8.64	1
Chippewa	Upper	7005.654	25y6hSCS	17.4	237.19	238.13	238.13	238.54	0.020647	2.84	6.13	7.59	1.01
Chippewa	Upper	7005.654	10y6hSCS	13.6	237.19	238.01	238	238.35	0.01986	2.58	5.27	7.37	0.97
Chippewa	Upper	7005.654	5y6hSCS	11	237.19	237.93	237.9	238.22	0.0188	2.36	4.66	7.21	0.94
Chippewa	Upper	7005.654	2y6hSCS	7.3	237.19	237.76	237.74	237.99	0.020966	2.12	3.44	6.91	0.96

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	7005.654	100y4hChicago	19.7	237.19	238.21	238.21	238.64	0.020074	2.93	6.75	8.35	1
Chippewa	Upper	7005.654	2yrFlow100yrLake	7.3	237.19	237.76	237.74	237.99	0.020966	2.12	3.44	6.91	0.96
Chippewa	Upper	6979	Timmins	75.8	236.69	238.52	238.83	239.85	0.026567	5.15	15.67	11.13	1.3
Chippewa	Upper	6979	100y6hSCS	23.7	236.69	237.72	237.79	238.25	0.023964	3.22	7.45	9.43	1.12
Chippewa	Upper	6979	50y6hSCS	20.5	236.69	237.66	237.7	238.12	0.022774	3	6.87	9.23	1.08
Chippewa	Upper	6979	25y6hSCS	17.4	236.69	237.6	237.61	237.99	0.020798	2.75	6.35	9.04	1.02
Chippewa	Upper	6979	10y6hSCS	13.6	236.69	237.48	237.48	237.82	0.020883	2.56	5.32	8.1	1.01
Chippewa	Upper	6979	5y6hSCS	11	236.69	237.39	237.39	237.69	0.02156	2.41	4.56	7.77	1.01
Chippewa	Upper	6979	2y6hSCS	7.3	236.69	237.28	237.24	237.47	0.017497	1.96	3.73	7.49	0.89
Chippewa	Upper	6979	100y4hChicago	19.7	236.69	237.65	237.68	238.09	0.022418	2.95	6.73	9.18	1.07
Chippewa	Upper	6979	2yrFlow100yrLake	7.3	236.69	237.28	237.24	237.47	0.017497	1.96	3.73	7.49	0.89
Chippewa	Upper	6950	Timmins	75.8	236.42	238.7	238.15	239.1	0.005265	2.88	31.53	20.12	0.62
Chippewa	Upper	6950	100y6hSCS	23.7	236.42	237.56	237.29	237.76	0.006715	1.98	12.41	13.65	0.62
Chippewa	Upper	6950	50y6hSCS	20.5	236.42	237.47	237.22	237.65	0.006912	1.89	11.16	13.17	0.62
Chippewa	Upper	6950	25y6hSCS	17.4	236.42	237.38	237.14	237.54	0.007148	1.79	9.92	12.69	0.62
Chippewa	Upper	6950	10y6hSCS	13.6	236.42	237.25	237.05	237.38	0.00763	1.65	8.31	12.2	0.62
Chippewa	Upper	6950	5y6hSCS	11	236.42	237.15	236.98	237.27	0.008178	1.55	7.13	11.91	0.63
Chippewa	Upper	6950	2y6hSCS	7.3	236.42	236.99		237.09	0.009423	1.38	5.28	11.46	0.65
Chippewa	Upper	6950	100y4hChicago	19.7	236.42	237.45	237.2	237.62	0.006965	1.86	10.84	13.03	0.62
Chippewa	Upper	6950	2yrFlow100yrLake	7.3	236.42	236.99		237.09	0.009423	1.38	5.28	11.46	0.65
Chippewa	Upper	6926	Timmins	75.8	236.06	238.48		238.95	0.006918	3.1	27.65	16.43	0.69
Chippewa	Upper	6926	100y6hSCS	23.7	236.06	237.32		237.57	0.008968	2.22	10.95	12.11	0.7
Chippewa	Upper	6926	50y6hSCS	20.5	236.06	237.23		237.45	0.009121	2.12	9.84	11.87	0.7
Chippewa	Upper	6926	25y6hSCS	17.4	236.06	237.13		237.34	0.009323	2.01	8.73	11.3	0.7
Chippewa	Upper	6926	10y6hSCS	13.6	236.06	237		237.18	0.009421	1.85	7.35	9.96	0.69
Chippewa	Upper	6926	5y6hSCS	11	236.06	236.9		237.05	0.009494	1.73	6.37	9.68	0.68
Chippewa	Upper	6926	2y6hSCS	7.3	236.06	236.74		236.86	0.009321	1.5	4.87	9.14	0.66
Chippewa	Upper	6926	100y4hChicago	19.7	236.06	237.2		237.43	0.009164	2.09	9.56	11.79	0.7
Chippewa	Upper	6926	2yrFlow100yrLake	7.3	236.06	236.74		236.86	0.009321	1.5	4.87	9.14	0.66
Chippewa	Upper	6900.694	Timmins	75.8	235.63	237.8	237.8	238.64	0.017714	4.07	18.65	11.18	1.01
Chippewa	Upper	6900.694	100y6hSCS	23.7	235.63	236.78	236.78	237.22	0.020276	2.92	8.11	9.41	1
Chippewa	Upper	6900.694	50y6hSCS	20.5	235.63	236.69	236.69	237.1	0.020784	2.82	7.28	9.12	1.01
Chippewa	Upper	6900.694	25y6hSCS	17.4	235.63	236.61	236.61	236.97	0.021256	2.68	6.48	8.91	1
Chippewa	Upper	6900.694	10y6hSCS	13.6	235.63	236.49	236.49	236.81	0.022246	2.5	5.43	8.65	1.01
Chippewa	Upper	6900.694	5y6hSCS	11	235.63	236.4	236.4	236.68	0.023044	2.35	4.69	8.49	1.01
Chippewa	Upper	6900.694	2y6hSCS	7.3	235.63	236.26	236.26	236.48	0.024796	2.07	3.53	8.24	1.01
Chippewa	Upper	6900.694	100y4hChicago	19.7	235.63	236.67	236.67	237.07	0.020935	2.79	7.07	9.06	1.01
Chippewa	Upper	6900.694	2yrFlow100yrLake	7.3	235.63	236.26	236.26	236.48	0.024796	2.07	3.53	8.24	1.01
Chippewa	Upper	6881	Timmins	75.8	235.29	236.84	237.24	238.13	0.035284	5.2	17.51	17.2	1.44
Chippewa	Upper	6881	100y6hSCS	23.7	235.29	236.22	236.34	236.75	0.028428	3.23	7.58	13.97	1.2
Chippewa	Upper	6881	50y6hSCS	20.5	235.29	236.16	236.26	236.63	0.027473	3.03	6.83	12.29	1.17
Chippewa	Upper	6881	25y6hSCS	17.4	235.29	236.1	236.16	236.51	0.0268	2.82	6.16	10.07	1.14
Chippewa	Upper	6881	10y6hSCS	13.6	235.29	236.11	236.05	236.35	0.01565	2.18	6.25	10.28	0.87
Chippewa	Upper	6881	5y6hSCS	11	235.29	236.02	235.96	236.24	0.015594	2.03	5.41	9.39	0.86
Chippewa	Upper	6881	2y6hSCS	7.3	235.29	235.88	235.82	236.04	0.015311	1.77	4.14	8.83	0.82
Chippewa	Upper	6881	100y4hChicago	19.7	235.29	236.15	236.24	236.6	0.027386	2.98	6.65	11.14	1.16
Chippewa	Upper	6881	2yrFlow100yrLake	7.3	235.29	235.88	235.82	236.04	0.015311	1.77	4.14	8.83	0.82
Chippewa	Upper	6862	Timmins	75.8	234.96	237.15	236.93	237.75	0.009773	3.45	23.58	16.03	0.81
Chippewa	Upper	6862	100y6hSCS	23.7	234.96	236.08	236.03	236.42	0.016106	2.59	9.15	11.24	0.91
Chippewa	Upper	6862	50y6hSCS	20.5	234.96	236	235.95	236.32	0.016545	2.48	8.26	11	0.91
Chippewa	Upper	6862	25y6hSCS	17.4	234.96	235.92	235.86	236.2	0.016598	2.36	7.37	10.61	0.91
Chippewa	Upper	6862	10y6hSCS	13.6	234.96	235.81	235.75	236.05	0.016162	2.17	6.26	10.05	0.88
Chippewa	Upper	6862	5y6hSCS	11	234.96	235.73		235.94	0.015561	2	5.5	9.73	0.85
Chippewa	Upper	6862	2y6hSCS	7.3	234.96	235.59		235.75	0.015953	1.76	4.14	9.06	0.83
Chippewa	Upper	6862	100y4hChicago	19.7	234.96	235.98	235.93	236.29	0.016613	2.45	8.03	10.94	0.91
Chippewa	Upper	6862	2yrFlow100yrLake	7.3	234.96	235.59		235.75	0.015953	1.76	4.14	9.06	0.83
Chippewa	Upper	6837	Timmins	75.8	234.62	237.23		237.51	0.003669	2.51	40.88	25.41	0.53
Chippewa	Upper	6837	100y6hSCS	23.7	234.62	235.98		236.15	0.005644	1.86	14.14	17.03	0.57
Chippewa	Upper	6837	50y6hSCS	20.5	234.62	235.88		236.04	0.005994	1.79	12.43	16.31	0.58
Chippewa	Upper	6837	25y6hSCS	17.4	234.62	235.77	235.52	235.92	0.006409	1.72	10.76	15.37	0.59
Chippewa	Upper	6837	10y6hSCS	13.6	234.62	235.63	235.42	235.76	0.007079	1.61	8.75	13.65	0.6
Chippewa	Upper	6837	5y6hSCS	11	234.62	235.53	235.32	235.65	0.007698	1.52	7.39	13.09	0.61
Chippewa	Upper	6837	2y6hSCS	7.3	234.62	235.35	235.15	235.45	0.008314	1.4	5.2	9.83	0.62
Chippewa	Upper	6837	100y4hChicago	19.7	234.62	235.85		236.01	0.006095	1.78	12	16.19	0.58

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	6837	2yrFlow100yrLake	7.3	234.62	235.35	235.15	235.45	0.008314	1.4	5.2	9.83	0.62
Chippewa	Upper	6807.247	Timmins	75.8	234.25	236.52	236.52	237.27	0.014257	3.86	21.04	19.12	0.93
Chippewa	Upper	6807.247	100y6hSCS	23.7	234.25	235.38	235.38	235.83	0.019519	2.98	7.96	8.89	1.01
Chippewa	Upper	6807.247	50y6hSCS	20.5	234.25	235.29	235.29	235.71	0.019958	2.87	7.13	8.59	1.01
Chippewa	Upper	6807.247	25y6hSCS	17.4	234.25	235.19	235.19	235.58	0.020471	2.75	6.33	8.36	1.01
Chippewa	Upper	6807.247	10y6hSCS	13.6	234.25	235.06	235.06	235.4	0.020938	2.59	5.25	7.77	1.01
Chippewa	Upper	6807.247	5y6hSCS	11	234.25	234.96	234.96	235.27	0.02159	2.44	4.52	7.55	1.01
Chippewa	Upper	6807.247	2y6hSCS	7.3	234.25	234.81	234.81	235.05	0.02305	2.17	3.36	7.08	1.01
Chippewa	Upper	6807.247	100y4hChicago	19.7	234.25	235.26	235.26	235.68	0.020068	2.84	6.93	8.51	1.01
Chippewa	Upper	6807.247	2yrFlow100yrLake	7.3	234.25	234.81	234.81	235.05	0.02305	2.17	3.36	7.08	1.01
Chippewa	Upper	6771	Timmins	75.8	233.72	236.87	235.31	236.96	0.001002	1.58	82.7	34.54	0.29
Chippewa	Upper	6771	100y6hSCS	23.7	233.72	235.05	234.67	235.14	0.003125	1.51	24.81	29.52	0.44
Chippewa	Upper	6771	50y6hSCS	20.5	233.72	234.92	234.62	235.02	0.003648	1.51	21.07	29.19	0.47
Chippewa	Upper	6771	25y6hSCS	17.4	233.72	234.8	234.55	234.9	0.004268	1.51	17.52	28.84	0.5
Chippewa	Upper	6771	10y6hSCS	13.6	233.72	234.65	234.43	234.75	0.005392	1.5	13.07	28.27	0.54
Chippewa	Upper	6771	5y6hSCS	11	233.72	234.54	234.37	234.64	0.006206	1.47	10.18	26.9	0.57
Chippewa	Upper	6771	2y6hSCS	7.3	233.72	234.39	234.23	234.47	0.007108	1.32	6.47	20.05	0.58
Chippewa	Upper	6771	100y4hChicago	19.7	233.72	234.89	234.6	234.99	0.003796	1.51	20.15	29.1	0.47
Chippewa	Upper	6771	2yrFlow100yrLake	7.3	233.72	234.39	234.23	234.47	0.007108	1.32	6.47	20.05	0.58
Chippewa	Upper	6734.596	Timmins	75.8	233.2	236.78		236.91	0.001326	1.85	84.78	105.98	0.33
Chippewa	Upper	6734.596	100y6hSCS	23.7	233.2	234.81	234.41	234.99	0.004953	1.92	14.52	17.03	0.54
Chippewa	Upper	6734.596	50y6hSCS	20.5	233.2	234.66	234.32	234.84	0.005915	1.92	11.96	16.11	0.58
Chippewa	Upper	6734.596	25y6hSCS	17.4	233.2	234.5	234.23	234.69	0.007119	1.91	9.64	14.42	0.62
Chippewa	Upper	6734.596	10y6hSCS	13.6	233.2	234.31	234.11	234.49	0.008662	1.86	7.39	10.36	0.67
Chippewa	Upper	6734.596	5y6hSCS	11	233.2	234.18	234.02	234.35	0.010141	1.81	6.09	9.28	0.7
Chippewa	Upper	6734.596	2y6hSCS	7.3	233.2	233.97	233.88	234.12	0.013061	1.71	4.26	8.38	0.77
Chippewa	Upper	6734.596	100y4hChicago	19.7	233.2	234.62	234.3	234.8	0.006185	1.92	11.35	15.69	0.59
Chippewa	Upper	6734.596	2yrFlow100yrLake	7.3	233.2	233.97	233.88	234.12	0.013061	1.71	4.26	8.38	0.77
Chippewa	Upper	6731.213	Timmins	75.8	233.22	235.64	235.64	236.8	0.013306	4.76	15.92	16.65	1
Chippewa	Upper	6731.213	100y6hSCS	23.7	233.22	234.4	234.4	234.93	0.017132	3.23	7.34	10.28	1
Chippewa	Upper	6731.213	50y6hSCS	20.5	233.22	234.3	234.3	234.78	0.017628	3.07	6.67	9.63	1
Chippewa	Upper	6731.213	25y6hSCS	17.4	233.22	234.2	234.2	234.63	0.018413	2.91	5.97	9.22	1
Chippewa	Upper	6731.213	10y6hSCS	13.6	233.22	234.07	234.07	234.43	0.019327	2.68	5.08	8.81	1
Chippewa	Upper	6731.213	5y6hSCS	11	233.22	233.97	233.97	234.29	0.020376	2.5	4.4	8.4	1
Chippewa	Upper	6731.213	2y6hSCS	7.3	233.22	233.81	233.81	234.06	0.022011	2.19	3.34	7.73	0.99
Chippewa	Upper	6731.213	100y4hChicago	19.7	233.22	234.27	234.27	234.74	0.017887	3.04	6.49	9.51	1
Chippewa	Upper	6731.213	2yrFlow100yrLake	7.3	233.22	233.81	233.81	234.06	0.022011	2.19	3.34	7.73	0.99
Chippewa	Upper	6719.625		Culvert									
Chippewa	Upper	6708.875	Timmins	75.8	232.98	235.39	235.39	236.55	0.0127	4.76	15.94	18.93	1
Chippewa	Upper	6708.875	100y6hSCS	23.7	232.98	234.14	234.14	234.68	0.016519	3.23	7.33	10.53	1
Chippewa	Upper	6708.875	50y6hSCS	20.5	232.98	234.05	234.05	234.53	0.016931	3.07	6.67	10.1	1
Chippewa	Upper	6708.875	25y6hSCS	17.4	232.98	233.94	233.94	234.38	0.017723	2.92	5.96	9.56	1
Chippewa	Upper	6708.875	10y6hSCS	13.6	232.98	233.84	233.81	234.18	0.016253	2.58	5.28	9.25	0.94
Chippewa	Upper	6708.875	5y6hSCS	11	232.98	233.8	233.72	234.05	0.01309	2.22	4.96	9.11	0.83
Chippewa	Upper	6708.875	2y6hSCS	7.3	232.98	233.73	233.56	233.86	0.008125	1.63	4.48	8.86	0.65
Chippewa	Upper	6708.875	100y4hChicago	19.7	232.98	234.02	234.02	234.49	0.017152	3.04	6.49	9.95	1
Chippewa	Upper	6708.875	2yrFlow100yrLake	7.3	232.98	233.73	233.56	233.86	0.008125	1.63	4.48	8.86	0.65
Chippewa	Upper	6704.835	Timmins	75.8	233.06	234.32	234.98	236.36	0.071467	6.41	13.12	16.5	2.03
Chippewa	Upper	6704.835	100y6hSCS	23.7	233.06	233.87	234.07	234.55	0.049038	3.67	6.49	11.64	1.54
Chippewa	Upper	6704.835	50y6hSCS	20.5	233.06	233.83	234	234.41	0.044788	3.38	6.08	11.48	1.45
Chippewa	Upper	6704.835	25y6hSCS	17.4	233.06	233.8	233.91	234.27	0.039225	3.05	5.72	11.34	1.35
Chippewa	Upper	6704.835	10y6hSCS	13.6	233.06	233.82	233.82	234.09	0.021651	2.31	5.9	11.41	1.01
Chippewa	Upper	6704.835	5y6hSCS	11	233.06	233.73	233.73	233.98	0.022728	2.19	5.02	10.55	1.01
Chippewa	Upper	6704.835	2y6hSCS	7.3	233.06	233.61	233.61	233.8	0.024309	1.94	3.77	10.08	1.01
Chippewa	Upper	6704.835	100y4hChicago	19.7	233.06	233.82	233.98	234.38	0.043539	3.3	5.99	11.44	1.43
Chippewa	Upper	6704.835	2yrFlow100yrLake	7.3	233.06	233.61	233.61	233.8	0.024309	1.94	3.77	10.08	1.01
Chippewa	Upper	6671	Timmins	75.8	232.5	234.4	234.2	234.81	0.012316	3.33	34.2	25.43	0.89
Chippewa	Upper	6671	100y6hSCS	23.7	232.5	233.58	233.45	233.8	0.011861	2.37	15.11	20.81	0.8
Chippewa	Upper	6671	50y6hSCS	20.5	232.5	233.53	233.38	233.71	0.010644	2.18	13.95	20.35	0.76
Chippewa	Upper	6671	25y6hSCS	17.4	232.5	233.46	233.26	233.62	0.010088	2.04	12.59	19.85	0.73
Chippewa	Upper	6671	10y6hSCS	13.6	232.5	233.36	233.22	233.5	0.009698	1.87	10.64	19.09	0.7
Chippewa	Upper	6671	5y6hSCS	11	232.5	233.25	233.12	233.39	0.010668	1.79	8.73	17.58	0.72
Chippewa	Upper	6671	2y6hSCS	7.3	232.5	233.1	233.01	233.21	0.012186	1.63	6.17	15.31	0.74

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	6671	100y4hChicago	19.7	232.5	233.51	233.36	233.69	0.010523	2.14	13.6	20.22	0.75
Chippewa	Upper	6671	2yrFlow100yrLake	7.3	232.5	233.1	233.01	233.21	0.012186	1.63	6.17	15.31	0.74
Chippewa	Upper	6654	Timmins	75.8	232.04	234.35		234.63	0.006316	2.68	46.86	54.15	0.65
Chippewa	Upper	6654	100y6hSCS	23.7	232.04	233.35	233.29	233.6	0.011641	2.3	13.23	23.33	0.79
Chippewa	Upper	6654	50y6hSCS	20.5	232.04	233.28	233.23	233.51	0.012312	2.23	11.43	22.85	0.8
Chippewa	Upper	6654	25y6hSCS	17.4	232.04	233.19	233.15	233.42	0.013298	2.17	9.55	22.47	0.82
Chippewa	Upper	6654	10y6hSCS	13.6	232.04	233.03	232.96	233.29	0.015553	2.23	6.23	13.71	0.87
Chippewa	Upper	6654	5y6hSCS	11	232.04	232.93	232.87	233.16	0.016213	2.13	5.16	8.99	0.88
Chippewa	Upper	6654	2y6hSCS	7.3	232.04	232.72	232.7	232.94	0.020285	2.07	3.53	7.31	0.95
Chippewa	Upper	6654	100y4hChicago	19.7	232.04	233.26	233.21	233.49	0.012485	2.21	10.98	22.75	0.8
Chippewa	Upper	6654	2yrFlow100yrLake	7.3	232.04	232.72	232.7	232.94	0.020285	2.07	3.53	7.31	0.95
Chippewa	Upper	6625	Timmins	75.8	231.61	234.12	233.76	234.45	0.005542	2.68	45.96	93.14	0.62
Chippewa	Upper	6625	100y6hSCS	23.7	231.61	233.09	232.87	233.29	0.008745	2.01	11.82	14.03	0.68
Chippewa	Upper	6625	50y6hSCS	20.5	231.61	233	232.77	233.19	0.008979	1.92	10.66	13.54	0.68
Chippewa	Upper	6625	25y6hSCS	17.4	231.61	232.9	232.67	233.08	0.009372	1.86	9.37	12.68	0.69
Chippewa	Upper	6625	10y6hSCS	13.6	231.61	232.74		232.91	0.009304	1.81	7.5	10.39	0.68
Chippewa	Upper	6625	5y6hSCS	11	231.61	232.63		232.78	0.009189	1.72	6.39	9.47	0.67
Chippewa	Upper	6625	2y6hSCS	7.3	231.61	232.43		232.55	0.00807	1.53	4.77	7.64	0.62
Chippewa	Upper	6625	100y4hChicago	19.7	231.61	232.98	232.74	233.17	0.009059	1.9	10.37	13.35	0.68
Chippewa	Upper	6625	2yrFlow100yrLake	7.3	231.61	232.43		232.55	0.00807	1.53	4.77	7.64	0.62
Chippewa	Upper	6599	Timmins	75.8	231.41	233.5	233.5	234.19	0.015057	3.72	21.93	20.15	0.96
Chippewa	Upper	6599	100y6hSCS	23.7	231.41	232.55	232.55	232.95	0.020122	2.78	8.52	10.95	1.01
Chippewa	Upper	6599	50y6hSCS	20.5	231.41	232.47	232.47	232.84	0.020604	2.68	7.65	10.61	1.01
Chippewa	Upper	6599	25y6hSCS	17.4	231.41	232.35	232.35	232.72	0.020384	2.69	6.48	8.85	1
Chippewa	Upper	6599	10y6hSCS	13.6	231.41	232.23	232.23	232.55	0.021148	2.52	5.4	8.43	1
Chippewa	Upper	6599	5y6hSCS	11	231.41	232.13	232.13	232.42	0.021971	2.38	4.63	8.17	1.01
Chippewa	Upper	6599	2y6hSCS	7.3	231.41	231.99	231.99	232.21	0.023388	2.1	3.48	7.84	1.01
Chippewa	Upper	6599	100y4hChicago	19.7	231.41	232.45	232.45	232.81	0.020662	2.65	7.44	10.52	1.01
Chippewa	Upper	6599	2yrFlow100yrLake	7.3	231.41	231.99	231.99	232.21	0.023388	2.1	3.48	7.84	1.01
Chippewa	Upper	6555.7	Timmins	75.8	230.57	233.04	232.56	233.49	0.007906	2.97	25.71	18.38	0.69
Chippewa	Upper	6555.7	100y6hSCS	23.7	230.57	231.86	231.6	232.09	0.008559	2.12	11.18	10.93	0.67
Chippewa	Upper	6555.7	50y6hSCS	20.5	230.57	231.76	231.52	231.97	0.008733	2.03	10.09	10.72	0.67
Chippewa	Upper	6555.7	25y6hSCS	17.4	230.57	231.64	231.44	231.84	0.009422	1.97	8.84	10.5	0.69
Chippewa	Upper	6555.7	10y6hSCS	13.6	230.57	231.48	231.33	231.66	0.011003	1.9	7.17	10.22	0.72
Chippewa	Upper	6555.7	5y6hSCS	11	230.57	231.36	231.25	231.53	0.012571	1.84	5.99	9.96	0.76
Chippewa	Upper	6555.7	2y6hSCS	7.3	230.57	231.18		231.34	0.016468	1.72	4.24	9.69	0.83
Chippewa	Upper	6555.7	100y4hChicago	19.7	230.57	231.73	231.5	231.94	0.008775	2.01	9.81	10.67	0.67
Chippewa	Upper	6555.7	2yrFlow100yrLake	7.3	230.57	231.18		231.34	0.016468	1.72	4.24	9.69	0.83
Chippewa	Upper	6532	Timmins	75.8	230.16	232.33	232.33	233.18	0.016974	4.09	18.7	11.34	1
Chippewa	Upper	6532	100y6hSCS	23.7	230.16	231.34	231.34	231.77	0.02058	2.9	8.18	9.71	1.01
Chippewa	Upper	6532	50y6hSCS	20.5	230.16	231.24	231.24	231.65	0.019982	2.84	7.22	8.66	0.99
Chippewa	Upper	6532	25y6hSCS	17.4	230.16	231.14	231.11	231.51	0.018738	2.73	6.38	7.77	0.96
Chippewa	Upper	6532	10y6hSCS	13.6	230.16	231.03	230.97	231.33	0.016865	2.44	5.57	7.42	0.9
Chippewa	Upper	6532	5y6hSCS	11	230.16	230.95		231.2	0.015544	2.21	4.97	7.29	0.86
Chippewa	Upper	6532	2y6hSCS	7.3	230.16	230.81		230.98	0.013531	1.84	3.98	7.07	0.78
Chippewa	Upper	6532	100y4hChicago	19.7	230.16	231.2	231.2	231.62	0.020115	2.85	6.91	8.29	1
Chippewa	Upper	6532	2yrFlow100yrLake	7.3	230.16	230.81		230.98	0.013531	1.84	3.98	7.07	0.78
Chippewa	Upper	6503	Timmins	75.8	229.72	232.04	231.77	232.6	0.010906	3.32	22.83	12.96	0.8
Chippewa	Upper	6503	100y6hSCS	23.7	229.72	230.99	230.83	231.26	0.011718	2.32	10.2	11.03	0.77
Chippewa	Upper	6503	50y6hSCS	20.5	229.72	230.9	230.75	231.15	0.011965	2.22	9.22	10.9	0.77
Chippewa	Upper	6503	25y6hSCS	17.4	229.72	230.81		231.04	0.012246	2.11	8.23	10.74	0.77
Chippewa	Upper	6503	10y6hSCS	13.6	229.72	230.68	230.57	230.88	0.012521	1.96	6.93	10.32	0.76
Chippewa	Upper	6503	5y6hSCS	11	229.72	230.59	230.49	230.76	0.012776	1.83	6.01	10.17	0.76
Chippewa	Upper	6503	2y6hSCS	7.3	229.72	230.45	230.36	230.58	0.013122	1.59	4.59	9.84	0.74
Chippewa	Upper	6503	100y4hChicago	19.7	229.72	230.88		231.12	0.012034	2.2	8.97	10.87	0.77
Chippewa	Upper	6503	2yrFlow100yrLake	7.3	229.72	230.45	230.36	230.58	0.013122	1.59	4.59	9.84	0.74
Chippewa	Upper	6483	Timmins	75.8	229.43	231.53	231.53	232.31	0.017067	3.92	19.34	12.35	1
Chippewa	Upper	6483	100y6hSCS	23.7	229.43	230.52	230.52	230.95	0.020103	2.89	8.19	9.72	1.01
Chippewa	Upper	6483	50y6hSCS	20.5	229.43	230.43	230.43	230.83	0.020557	2.78	7.37	9.49	1.01
Chippewa	Upper	6483	25y6hSCS	17.4	229.43	230.35	230.35	230.71	0.021118	2.65	6.56	9.26	1.01
Chippewa	Upper	6483	10y6hSCS	13.6	229.43	230.23	230.23	230.54	0.022004	2.47	5.5	8.97	1.01
Chippewa	Upper	6483	5y6hSCS	11	229.43	230.15	230.15	230.42	0.022791	2.32	4.74	8.75	1.01
Chippewa	Upper	6483	2y6hSCS	7.3	229.43	230.01	230.01	230.22	0.024462	2.05	3.57	8.51	1.01
Chippewa	Upper	6483	100y4hChicago	19.7	229.43	230.41	230.41	230.8	0.020696	2.75	7.16	9.43	1.01

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	6483	2yrFlow100yrLake	7.3	229.43	230.01	230.01	230.22	0.024462	2.05	3.57	8.51	1.01
Chippewa	Upper	6460	Timmins	75.8	229.08	230.85	231.04	231.83	0.024005	4.39	17.25	12.35	1.18
Chippewa	Upper	6460	100y6hSCS	23.7	229.08	230.08	230.03	230.46	0.01666	2.73	8.68	9.82	0.93
Chippewa	Upper	6460	50y6hSCS	20.5	229.08	230.01	229.95	230.34	0.016188	2.57	7.97	9.7	0.91
Chippewa	Upper	6460	25y6hSCS	17.4	229.08	229.93	229.87	230.22	0.015703	2.41	7.23	9.58	0.88
Chippewa	Upper	6460	10y6hSCS	13.6	229.08	229.83	229.76	230.07	0.015106	2.18	6.25	9.45	0.85
Chippewa	Upper	6460	5y6hSCS	11	229.08	229.75	229.67	229.95	0.01472	2	5.5	9.35	0.83
Chippewa	Upper	6460	2y6hSCS	7.3	229.08	229.62	229.55	229.76	0.014231	1.7	4.29	9.16	0.79
Chippewa	Upper	6460	100y4hChicago	19.7	229.08	229.99	229.93	230.31	0.016051	2.53	7.79	9.67	0.9
Chippewa	Upper	6460	2yrFlow100yrLake	7.3	229.08	229.62	229.55	229.76	0.014231	1.7	4.29	9.16	0.79
Chippewa	Upper	6441	Timmins	75.8	228.85	230.51	230.71	231.37	0.020127	4.14	20.29	24.58	1.12
Chippewa	Upper	6441	100y6hSCS	23.7	228.85	229.84		230.15	0.013797	2.47	9.61	11.43	0.85
Chippewa	Upper	6441	50y6hSCS	20.5	228.85	229.76		230.04	0.013619	2.34	8.78	11.11	0.84
Chippewa	Upper	6441	25y6hSCS	17.4	228.85	229.68		229.93	0.013534	2.2	7.91	10.9	0.83
Chippewa	Upper	6441	10y6hSCS	13.6	228.85	229.58		229.78	0.013411	2.01	6.77	10.7	0.81
Chippewa	Upper	6441	5y6hSCS	11	228.85	229.5		229.67	0.013109	1.85	5.94	10.51	0.79
Chippewa	Upper	6441	2y6hSCS	7.3	228.85	229.37		229.5	0.012693	1.58	4.61	10.15	0.75
Chippewa	Upper	6441	100y4hChicago	19.7	228.85	229.74		230.01	0.013599	2.3	8.56	11.03	0.83
Chippewa	Upper	6441	2yrFlow100yrLake	7.3	228.85	229.37		229.5	0.012693	1.58	4.61	10.15	0.75
Chippewa	Upper	6415.685	Timmins	75.8	228.57	230.33	230.33	230.96	0.012984	3.59	24.76	24.16	0.91
Chippewa	Upper	6415.685	100y6hSCS	23.7	228.57	229.55	229.41	229.81	0.011753	2.28	10.42	12.52	0.79
Chippewa	Upper	6415.685	50y6hSCS	20.5	228.57	229.48	229.34	229.71	0.011351	2.14	9.6	12.11	0.77
Chippewa	Upper	6415.685	25y6hSCS	17.4	228.57	229.42		229.61	0.010581	1.97	8.82	11.91	0.73
Chippewa	Upper	6415.685	10y6hSCS	13.6	228.57	229.3		229.47	0.010976	1.83	7.41	11.52	0.73
Chippewa	Upper	6415.685	5y6hSCS	11	228.57	229.2		229.35	0.011842	1.74	6.32	11.3	0.74
Chippewa	Upper	6415.685	2y6hSCS	7.3	228.57	229.07		229.18	0.012027	1.5	4.86	11.05	0.72
Chippewa	Upper	6415.685	100y4hChicago	19.7	228.57	229.47	229.32	229.69	0.010971	2.08	9.46	12.07	0.75
Chippewa	Upper	6415.685	2yrFlow100yrLake	7.3	228.57	229.07		229.18	0.012027	1.5	4.86	11.05	0.72
Chippewa	Upper	6390	Timmins	75.8	228.26	230.08	229.86	230.53	0.008596	3.15	31.97	24.27	0.77
Chippewa	Upper	6390	100y6hSCS	23.7	228.26	229.1	229.1	229.44	0.018293	2.59	10.11	19.27	0.97
Chippewa	Upper	6390	50y6hSCS	20.5	228.26	229.04	229.04	229.34	0.018504	2.47	8.95	16.93	0.97
Chippewa	Upper	6390	25y6hSCS	17.4	228.26	228.96	228.96	229.24	0.019871	2.38	7.73	15.26	0.98
Chippewa	Upper	6390	10y6hSCS	13.6	228.26	228.9	228.86	229.12	0.017161	2.07	6.84	14.47	0.9
Chippewa	Upper	6390	5y6hSCS	11	228.26	228.87		229.03	0.013718	1.79	6.38	14.12	0.8
Chippewa	Upper	6390	2y6hSCS	7.3	228.26	228.77		228.88	0.011616	1.46	5.11	12.39	0.71
Chippewa	Upper	6390	100y4hChicago	19.7	228.26	229.01	229.01	229.32	0.019373	2.47	8.54	16.08	0.98
Chippewa	Upper	6390	2yrFlow100yrLake	7.3	228.26	228.77		228.88	0.011616	1.46	5.11	12.39	0.71
Chippewa	Upper	6360	Timmins	75.8	227.64	230.02		230.3	0.004257	2.58	43.97	31.3	0.57
Chippewa	Upper	6360	100y6hSCS	23.7	227.64	228.81	228.61	228.99	0.00768	1.97	15.47	20.34	0.66
Chippewa	Upper	6360	50y6hSCS	20.5	227.64	228.71	228.55	228.88	0.008571	1.93	13.51	20.05	0.68
Chippewa	Upper	6360	25y6hSCS	17.4	227.64	228.61	228.5	228.78	0.010005	1.91	11.46	19.71	0.72
Chippewa	Upper	6360	10y6hSCS	13.6	227.64	228.47	228.42	228.64	0.013758	1.92	8.65	19.34	0.82
Chippewa	Upper	6360	5y6hSCS	11	227.64	228.37	228.35	228.55	0.018226	1.94	6.71	19.1	0.91
Chippewa	Upper	6360	2y6hSCS	7.3	227.64	228.24	228.24	228.4	0.022408	1.8	4.52	15.29	0.96
Chippewa	Upper	6360	100y4hChicago	19.7	227.64	228.69	228.54	228.86	0.008934	1.93	12.96	19.96	0.7
Chippewa	Upper	6360	2yrFlow100yrLake	7.3	227.64	228.24	228.24	228.4	0.022408	1.8	4.52	15.29	0.96
Chippewa	Upper	6321.078	Timmins	75.8	227.21	230.09		230.16	0.001159	1.57	97.17	60.04	0.3
Chippewa	Upper	6321.078	100y6hSCS	23.7	227.21	228.73		228.81	0.00228	1.39	24.29	27.06	0.38
Chippewa	Upper	6321.078	50y6hSCS	20.5	227.21	228.62		228.7	0.002303	1.32	21.63	25.32	0.38
Chippewa	Upper	6321.078	25y6hSCS	17.4	227.21	228.51		228.58	0.00238	1.26	18.78	24.91	0.38
Chippewa	Upper	6321.078	10y6hSCS	13.6	227.21	228.34		228.41	0.002691	1.21	14.61	23.83	0.39
Chippewa	Upper	6321.078	5y6hSCS	11	227.21	228.21		228.28	0.002996	1.16	11.67	21.1	0.4
Chippewa	Upper	6321.078	2y6hSCS	7.3	227.21	228.01	227.69	228.07	0.003232	1.05	7.79	17.12	0.4
Chippewa	Upper	6321.078	100y4hChicago	19.7	227.21	228.59		228.67	0.002336	1.31	20.86	25.23	0.38
Chippewa	Upper	6321.078	2yrFlow100yrLake	7.3	227.21	228.01	227.69	228.07	0.003232	1.05	7.79	17.12	0.4
Chippewa	Upper	6294	Timmins	75.8	227.12	230.05		230.14	0.001042	1.47	97.56	78.38	0.29
Chippewa	Upper	6294	100y6hSCS	23.7	227.12	228.69		228.75	0.001741	1.16	25.3	26.27	0.33
Chippewa	Upper	6294	50y6hSCS	20.5	227.12	228.59		228.64	0.001749	1.09	22.76	22.61	0.33
Chippewa	Upper	6294	25y6hSCS	17.4	227.12	228.47		228.52	0.001797	1.03	20.34	20.82	0.33
Chippewa	Upper	6294	10y6hSCS	13.6	227.12	228.29		228.34	0.002077	0.98	16.68	20.35	0.34
Chippewa	Upper	6294	5y6hSCS	11	227.12	228.16		228.2	0.002432	0.94	13.94	19.86	0.36
Chippewa	Upper	6294	2y6hSCS	7.3	227.12	227.94		227.97	0.003172	0.88	9.79	18.16	0.39
Chippewa	Upper	6294	100y4hChicago	19.7	227.12	228.55		228.61	0.001771	1.08	22.09	21.01	0.33
Chippewa	Upper	6294	2yrFlow100yrLake	7.3	227.12	227.94		227.97	0.003172	0.88	9.79	18.16	0.39

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	6259	Timmins	75.8	226.91	230.02		230.09	0.001212	1.61	101.81	58.92	0.31
Chippewa	Upper	6259	100y6hSCS	23.7	226.91	228.45	227.99	228.63	0.006138	2.04	17.27	38.76	0.61
Chippewa	Upper	6259	50y6hSCS	20.5	226.91	228.34	227.96	228.52	0.006756	2	13.86	25.55	0.63
Chippewa	Upper	6259	25y6hSCS	17.4	226.91	228.22	227.89	228.39	0.007445	1.94	11.13	18.75	0.64
Chippewa	Upper	6259	10y6hSCS	13.6	226.91	228.03	227.75	228.2	0.007821	1.88	8.66	11.19	0.65
Chippewa	Upper	6259	5y6hSCS	11	226.91	227.91		228.05	0.007797	1.75	7.38	9.63	0.64
Chippewa	Upper	6259	2y6hSCS	7.3	226.91	227.69		227.8	0.007684	1.59	5.41	8.29	0.62
Chippewa	Upper	6259	100y4hChicago	19.7	226.91	228.3	227.95	228.48	0.007232	2.02	12.85	24.44	0.64
Chippewa	Upper	6259	2yrFlow100yrLake	7.3	226.91	227.69		227.8	0.007684	1.59	5.41	8.29	0.62
Chippewa	Upper	6230.745	Timmins	75.8	226.57	229.44	229.44	229.98	0.007588	3.45	36.76	53.64	0.69
Chippewa	Upper	6230.745	100y6hSCS	23.7	226.57	227.86	227.8	228.33	0.016421	3.04	7.93	7.65	0.91
Chippewa	Upper	6230.745	50y6hSCS	20.5	226.57	227.7	227.69	228.18	0.019797	3.07	6.72	7.23	0.98
Chippewa	Upper	6230.745	25y6hSCS	17.4	226.57	227.58	227.58	228.03	0.021493	2.97	5.87	6.67	1.01
Chippewa	Upper	6230.745	10y6hSCS	13.6	226.57	227.44	227.44	227.83	0.021946	2.75	4.95	6.48	1
Chippewa	Upper	6230.745	5y6hSCS	11	226.57	227.33	227.33	227.67	0.022587	2.58	4.27	6.38	1.01
Chippewa	Upper	6230.745	2y6hSCS	7.3	226.57	227.17	227.17	227.43	0.023721	2.27	3.22	6.21	1.01
Chippewa	Upper	6230.745	100y4hChicago	19.7	226.57	227.7	227.66	228.14	0.018398	2.95	6.71	7.22	0.94
Chippewa	Upper	6230.745	2yrFlow100yrLake	7.3	226.57	227.17	227.17	227.43	0.023721	2.27	3.22	6.21	1.01
Chippewa	Upper	6124.677	Timmins	85.5	225.53	229.51	227.87	229.58	0.000719	1.53	152.45	128.01	0.25
Chippewa	Upper	6124.677	100y6hSCS	28.7	225.53	227.87		227.94	0.001118	1.3	37.82	33.68	0.29
Chippewa	Upper	6124.677	50y6hSCS	25	225.53	227.69		227.76	0.001234	1.29	31.78	31.23	0.3
Chippewa	Upper	6124.677	25y6hSCS	21.4	225.53	227.5	226.65	227.57	0.001393	1.28	26.03	29.79	0.31
Chippewa	Upper	6124.677	10y6hSCS	17	225.53	227.26	226.53	227.33	0.0016	1.24	19.36	24.45	0.32
Chippewa	Upper	6124.677	5y6hSCS	13.8	225.53	227.08	226.42	227.14	0.001734	1.18	15.21	19.42	0.33
Chippewa	Upper	6124.677	2y6hSCS	9.4	225.53	226.8	226.27	226.85	0.001897	1.06	10.5	15.16	0.33
Chippewa	Upper	6124.677	100y4hChicago	24.1	225.53	227.68		227.75	0.001162	1.25	31.59	31.19	0.29
Chippewa	Upper	6124.677	2yrFlow100yrLake	9.4	225.53	226.8	226.27	226.85	0.001897	1.06	10.5	15.16	0.33
Chippewa	Upper	6121.113	Timmins	85.5	225.57	229.52	228.61	229.58	0.000604	1.33	157.68	137.89	0.23
Chippewa	Upper	6121.113	100y6hSCS	28.7	225.57	227.2	227.2	227.87	0.015792	3.64	7.89	23.14	1
Chippewa	Upper	6121.113	50y6hSCS	25	225.57	227.08	227.08	227.7	0.016169	3.47	7.21	22.36	1
Chippewa	Upper	6121.113	25y6hSCS	21.4	225.57	226.95	226.95	227.51	0.017149	3.32	6.45	20.42	1.01
Chippewa	Upper	6121.113	10y6hSCS	17	225.57	226.8	226.8	227.28	0.017593	3.05	5.58	16.78	1
Chippewa	Upper	6121.113	5y6hSCS	13.8	225.57	226.68	226.68	227.09	0.018601	2.85	4.84	13.64	1
Chippewa	Upper	6121.113	2y6hSCS	9.4	225.57	226.49	226.49	226.81	0.020113	2.5	3.76	11.18	1
Chippewa	Upper	6121.113	100y4hChicago	24.1	225.57	227.29	227.05	227.71	0.008995	2.87	8.41	23.66	0.76
Chippewa	Upper	6121.113	2yrFlow100yrLake	9.4	225.57	226.49	226.49	226.81	0.020113	2.5	3.76	11.18	1
Chippewa	Upper	6111.608		Culvert									
Chippewa	Upper	6097.608	Timmins	85.5	225.31	228.12	228.12	229.53	0.012221	5.25	16.29	56.21	1.01
Chippewa	Upper	6097.608	100y6hSCS	28.7	225.31	226.69	226.69	227.37	0.015387	3.63	7.9	11.76	1
Chippewa	Upper	6097.608	50y6hSCS	25	225.31	226.58	226.58	227.19	0.015794	3.47	7.21	10.8	1
Chippewa	Upper	6097.608	25y6hSCS	21.4	225.31	226.45	226.45	227.01	0.016336	3.29	6.5	9.5	1
Chippewa	Upper	6097.608	10y6hSCS	17	225.31	226.3	226.3	226.77	0.017245	3.05	5.57	8.59	1
Chippewa	Upper	6097.608	5y6hSCS	13.8	225.31	226.17	226.17	226.58	0.018348	2.86	4.83	8.36	1.01
Chippewa	Upper	6097.608	2y6hSCS	9.4	225.31	225.99	225.99	226.3	0.01957	2.5	3.76	8.12	1
Chippewa	Upper	6097.608	100y4hChicago	24.1	225.31	226.54	226.54	227.14	0.016034	3.43	7.02	10.64	1
Chippewa	Upper	6097.608	2yrFlow100yrLake	9.4	225.31	225.99	225.99	226.3	0.01957	2.5	3.76	8.12	1
Chippewa	Upper	6089.896	Timmins	85.5	225.15	226.26	227.13	229.16	0.119174	7.54	11.46	14.37	2.56
Chippewa	Upper	6089.896	100y6hSCS	28.7	225.15	225.82	226.18	227.06	0.107906	4.92	5.83	11.75	2.23
Chippewa	Upper	6089.896	50y6hSCS	25	225.15	225.78	226.1	226.89	0.104036	4.65	5.38	11.51	2.17
Chippewa	Upper	6089.896	25y6hSCS	21.4	225.15	225.74	226.03	226.71	0.098132	4.35	4.91	11.1	2.09
Chippewa	Upper	6089.896	10y6hSCS	17	225.15	226.26	225.93	226.37	0.004809	1.51	11.38	14.34	0.51
Chippewa	Upper	6089.896	5y6hSCS	13.8	225.15	226.14	225.85	226.24	0.005042	1.41	9.79	12.86	0.51
Chippewa	Upper	6089.896	2y6hSCS	9.4	225.15	225.96	225.71	226.04	0.005448	1.26	7.46	12.31	0.52
Chippewa	Upper	6089.896	100y4hChicago	24.1	225.15	225.77	226.08	226.84	0.102905	4.57	5.27	11.45	2.15
Chippewa	Upper	6089.896	2yrFlow100yrLake	9.4	225.15	225.96	225.71	226.04	0.005448	1.26	7.46	12.31	0.52
Chippewa	Upper	6011.766	Timmins	85.5	224.62	226.68	226.68	227.55	0.014442	4.3	25.63	24.19	1.01
Chippewa	Upper	6011.766	100y6hSCS	28.7	224.62	226.2	225.79	226.39	0.004646	2	17.11	16	0.54
Chippewa	Upper	6011.766	50y6hSCS	25	224.62	226.06	225.7	226.25	0.005091	1.95	14.97	15.49	0.56
Chippewa	Upper	6011.766	25y6hSCS	21.4	224.62	225.91	225.62	226.09	0.005935	1.93	12.64	14.93	0.59
Chippewa	Upper	6011.766	10y6hSCS	17	224.62	225.69		225.88	0.008274	1.96	9.45	13.9	0.67
Chippewa	Upper	6011.766	5y6hSCS	13.8	224.62	225.63		225.78	0.006982	1.72	8.63	13.58	0.61
Chippewa	Upper	6011.766	2y6hSCS	9.4	224.62	225.52		225.61	0.005464	1.37	7.13	12.69	0.53
Chippewa	Upper	6011.766	100y4hChicago	24.1	224.62	226.03	225.68	226.21	0.005266	1.94	14.4	15.37	0.56

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	6011.766	2yrFlow100yrLake	9.4	224.62	225.52		225.61	0.005464	1.37	7.13	12.69	0.53
Chippewa	Upper	5926.329	Timmins	85.5	224.08	226.76	225.73	226.85	0.001794	1.85	108.05	81.55	0.37
Chippewa	Upper	5926.329	100y6hSCS	28.7	224.08	226.19		226.22	0.000689	0.97	66.77	69.07	0.22
Chippewa	Upper	5926.329	50y6hSCS	25	224.08	226.03		226.06	0.000821	1	55.6	67.48	0.24
Chippewa	Upper	5926.329	25y6hSCS	21.4	224.08	225.82		225.86	0.001158	1.09	41.68	64.52	0.28
Chippewa	Upper	5926.329	10y6hSCS	17	224.08	225.43		225.5	0.002419	1.3	22.57	39.27	0.38
Chippewa	Upper	5926.329	5y6hSCS	13.8	224.08	225.16		225.28	0.004889	1.55	12.97	32.48	0.52
Chippewa	Upper	5926.329	2y6hSCS	9.4	224.08	224.9		225.04	0.008361	1.62	6.08	14.43	0.64
Chippewa	Upper	5926.329	100y4hChicago	24.1	224.08	225.98		226.02	0.00088	1.01	52.41	67.19	0.25
Chippewa	Upper	5926.329	2yrFlow100yrLake	9.4	224.08	224.9		225.04	0.008361	1.62	6.08	14.43	0.64
Chippewa	Upper	5839.01	Timmins	85.5	223.39	226.67		226.74	0.001224	1.69	119.06	78.76	0.31
Chippewa	Upper	5839.01	100y6hSCS	28.7	223.39	226.17		226.19	0.00031	0.76	83.85	67.28	0.15
Chippewa	Upper	5839.01	50y6hSCS	25	223.39	226		226.02	0.000332	0.75	72.97	64.93	0.16
Chippewa	Upper	5839.01	25y6hSCS	21.4	223.39	225.79		225.81	0.000392	0.76	59.36	61.55	0.17
Chippewa	Upper	5839.01	10y6hSCS	17	223.39	225.36		225.39	0.000703	0.88	35.74	47.18	0.22
Chippewa	Upper	5839.01	5y6hSCS	13.8	223.39	225.04		225.08	0.001106	0.96	23.6	32.92	0.26
Chippewa	Upper	5839.01	2y6hSCS	9.4	223.39	224.59		224.65	0.002525	1.12	11.1	23.29	0.37
Chippewa	Upper	5839.01	100y4hChicago	24.1	223.39	225.96		225.97	0.000342	0.75	69.83	64.41	0.16
Chippewa	Upper	5839.01	2yrFlow100yrLake	9.4	223.39	224.59		224.65	0.002525	1.12	11.1	23.29	0.37
Chippewa	Upper	5782.729	Timmins	85.5	222.98	226.61		226.68	0.001123	1.75	128.81	87.57	0.3
Chippewa	Upper	5782.729	100y6hSCS	28.7	222.98	226.15		226.17	0.000288	0.8	90.44	77.06	0.15
Chippewa	Upper	5782.729	50y6hSCS	25	222.98	225.99		226	0.000305	0.79	77.88	72.98	0.15
Chippewa	Upper	5782.729	25y6hSCS	21.4	222.98	225.77		225.79	0.000352	0.81	62.67	63.86	0.16
Chippewa	Upper	5782.729	10y6hSCS	17	222.98	225.33		225.36	0.000586	0.92	38.77	45.93	0.2
Chippewa	Upper	5782.729	5y6hSCS	13.8	222.98	224.98		225.03	0.000976	1.05	23.59	39.31	0.25
Chippewa	Upper	5782.729	2y6hSCS	9.4	222.98	224.46		224.53	0.001918	1.17	9.18	10.21	0.34
Chippewa	Upper	5782.729	100y4hChicago	24.1	222.98	225.94		225.96	0.000315	0.8	74.3	72.47	0.15
Chippewa	Upper	5782.729	2yrFlow100yrLake	9.4	222.98	224.46		224.53	0.001918	1.17	9.18	10.21	0.34
Chippewa	Upper	5779.311	Timmins	85.5	222.85	226.58	225.85	226.68	0.001652	2.11	115.84	85.21	0.36
Chippewa	Upper	5779.311	100y6hSCS	28.7	222.85	226.14	224.97	226.17	0.000426	0.98	79.79	77.43	0.18
Chippewa	Upper	5779.311	50y6hSCS	25	222.85	225.98	224.79	226	0.000454	0.98	67.32	69.32	0.18
Chippewa	Upper	5779.311	25y6hSCS	21.4	222.85	225.31	224.6	225.75	0.004463	2.92	7.33	41.95	0.6
Chippewa	Upper	5779.311	10y6hSCS	17	222.85	224.94	224.35	225.32	0.004879	2.74	6.22	34.61	0.61
Chippewa	Upper	5779.311	5y6hSCS	13.8	222.85	224.65	224.16	224.99	0.005275	2.58	5.36	15.15	0.62
Chippewa	Upper	5779.311	2y6hSCS	9.4	222.85	224.23	223.87	224.5	0.006042	2.3	4.09	6.63	0.63
Chippewa	Upper	5779.311	100y4hChicago	24.1	222.85	225.93	224.74	225.95	0.00047	0.98	63.91	67.71	0.18
Chippewa	Upper	5779.311	2yrFlow100yrLake	9.4	222.85	224.23	223.87	224.5	0.006042	2.3	4.09	6.63	0.63
Chippewa	Upper	5768.878		Culvert									
Chippewa	Upper	5757.878	Timmins	85.5	222.83	225.85	225.85	226.39	0.005363	3.49	45.91	58.58	0.66
Chippewa	Upper	5757.878	100y6hSCS	28.7	222.83	224.96	224.96	226.01	0.013033	4.54	6.32	14.06	1
Chippewa	Upper	5757.878	50y6hSCS	25	222.83	224.78	224.78	225.73	0.013454	4.34	5.76	13.08	1
Chippewa	Upper	5757.878	25y6hSCS	21.4	222.83	224.58	224.58	225.45	0.013992	4.13	5.19	11.86	1
Chippewa	Upper	5757.878	10y6hSCS	17	222.83	224.34	224.34	225.08	0.014564	3.81	4.46	10.95	1
Chippewa	Upper	5757.878	5y6hSCS	13.8	222.83	224.15	224.15	224.79	0.015399	3.56	3.87	9.95	1
Chippewa	Upper	5757.878	2y6hSCS	9.4	222.83	223.86	223.86	224.36	0.016603	3.13	3.01	8.69	1
Chippewa	Upper	5757.878	100y4hChicago	24.1	222.83	224.73	224.73	225.67	0.013502	4.28	5.63	12.79	1
Chippewa	Upper	5757.878	2yrFlow100yrLake	9.4	222.83	223.86	223.86	224.36	0.016603	3.13	3.01	8.69	1
Chippewa	Upper	5751.783	Timmins	85.5	222.84	224.76	225.1	226.09	0.026329	5.16	18.31	14.74	1.3
Chippewa	Upper	5751.783	100y6hSCS	28.7	222.84	223.58	224.1	225.55	0.146835	6.22	4.62	8.03	2.62
Chippewa	Upper	5751.783	50y6hSCS	25	222.84	223.53	224.01	225.3	0.143868	5.89	4.24	7.89	2.57
Chippewa	Upper	5751.783	25y6hSCS	21.4	222.84	223.48	223.92	225.04	0.140095	5.54	3.86	7.75	2.51
Chippewa	Upper	5751.783	10y6hSCS	17	222.84	223.42	223.79	224.71	0.134161	5.04	3.37	7.56	2.41
Chippewa	Upper	5751.783	5y6hSCS	13.8	222.84	223.36	223.68	224.45	0.12834	4.62	2.99	7.43	2.33
Chippewa	Upper	5751.783	2y6hSCS	9.4	222.84	223.29	223.51	224.06	0.113004	3.9	2.41	7.06	2.13
Chippewa	Upper	5751.783	100y4hChicago	24.1	222.84	223.52	223.99	225.24	0.142979	5.81	4.15	7.86	2.55
Chippewa	Upper	5751.783	2yrFlow100yrLake	9.4	222.84	223.29	223.51	224.06	0.113004	3.9	2.41	7.06	2.13
Chippewa	Upper	5737	Timmins	85.5	222.53	224.28	224.69	225.64	0.03599	5.58	20.02	16.21	1.5
Chippewa	Upper	5737	100y6hSCS	28.7	222.53	223.53	223.72	224.22	0.036967	3.91	9.18	12.66	1.4
Chippewa	Upper	5737	50y6hSCS	25	222.53	223.49	223.62	224.07	0.033054	3.6	8.67	12.53	1.32
Chippewa	Upper	5737	25y6hSCS	21.4	222.53	223.45	223.54	223.93	0.028833	3.26	8.17	12.43	1.22
Chippewa	Upper	5737	10y6hSCS	17	222.53	223.4	223.43	223.76	0.023532	2.82	7.49	12.28	1.1
Chippewa	Upper	5737	5y6hSCS	13.8	222.53	223.33	223.34	223.63	0.022493	2.59	6.59	12.08	1.06
Chippewa	Upper	5737	2y6hSCS	9.4	222.53	223.21	223.21	223.44	0.020823	2.22	5.19	11.77	0.99

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	5737	100y4hChicago	24.1	222.53	223.48	223.59	224.04	0.032063	3.52	8.55	12.51	1.3
Chippewa	Upper	5737	2yrFlow100yrLake	9.4	222.53	223.21	223.21	223.44	0.020823	2.22	5.19	11.77	0.99
Chippewa	Upper	5712	Timmins	85.5	221.9	223.75	223.97	224.83	0.024435	4.79	20.81	15.08	1.26
Chippewa	Upper	5712	100y6hSCS	28.7	221.9	223.11	222.97	223.49	0.014484	2.8	11.69	13.26	0.91
Chippewa	Upper	5712	50y6hSCS	25	221.9	223.03	222.93	223.37	0.014248	2.66	10.69	13.03	0.9
Chippewa	Upper	5712	25y6hSCS	21.4	221.9	222.97	222.87	223.26	0.012966	2.44	9.87	12.26	0.85
Chippewa	Upper	5712	10y6hSCS	17	221.9	222.85	222.75	223.1	0.013098	2.26	8.43	11.81	0.83
Chippewa	Upper	5712	5y6hSCS	13.8	221.9	222.76	222.65	222.97	0.01289	2.1	7.34	11.37	0.81
Chippewa	Upper	5712	2y6hSCS	9.4	221.9	222.61	222.51	222.77	0.012331	1.82	5.71	10.61	0.77
Chippewa	Upper	5712	100y4hChicago	24.1	221.9	223.02	222.93	223.35	0.014069	2.62	10.47	12.98	0.89
Chippewa	Upper	5712	2yrFlow100yrLake	9.4	221.9	222.61	222.51	222.77	0.012331	1.82	5.71	10.61	0.77
Chippewa	Upper	5685	Timmins	85.5	221.59	223.89	223.53	224.19	0.005241	2.8	51.28	37.7	0.63
Chippewa	Upper	5685	100y6hSCS	28.7	221.59	223.04		223.21	0.00502	1.92	20.92	32.86	0.56
Chippewa	Upper	5685	50y6hSCS	25	221.59	222.95		223.1	0.005241	1.85	17.87	28.93	0.57
Chippewa	Upper	5685	25y6hSCS	21.4	221.59	222.87		223.01	0.004941	1.72	15.83	27.25	0.54
Chippewa	Upper	5685	10y6hSCS	17	221.59	222.72		222.84	0.005568	1.63	12.33	17.55	0.56
Chippewa	Upper	5685	5y6hSCS	13.8	221.59	222.6		222.71	0.005818	1.53	10.52	15.32	0.56
Chippewa	Upper	5685	2y6hSCS	9.4	221.59	222.43		222.52	0.006368	1.34	7.96	14.02	0.56
Chippewa	Upper	5685	100y4hChicago	24.1	221.59	222.93		223.08	0.005213	1.83	17.3	28.44	0.56
Chippewa	Upper	5685	2yrFlow100yrLake	9.4	221.59	222.43		222.52	0.006368	1.34	7.96	14.02	0.56
Chippewa	Upper	5669	Timmins	85.5	221.45	223.51	223.48	224.05	0.011296	3.71	38.65	33.9	0.9
Chippewa	Upper	5669	100y6hSCS	28.7	221.45	222.89		223.11	0.007264	2.22	19.19	28.1	0.67
Chippewa	Upper	5669	50y6hSCS	25	221.45	222.83		223.01	0.006567	2.03	17.36	26.42	0.63
Chippewa	Upper	5669	25y6hSCS	21.4	221.45	222.78		222.92	0.005455	1.8	16.32	20.99	0.57
Chippewa	Upper	5669	10y6hSCS	17	221.45	222.63		222.75	0.005638	1.64	13.51	17.62	0.56
Chippewa	Upper	5669	5y6hSCS	13.8	221.45	222.52		222.62	0.00601	1.54	11.48	17.08	0.57
Chippewa	Upper	5669	2y6hSCS	9.4	221.45	222.32		222.4	0.007652	1.41	8.18	16.17	0.61
Chippewa	Upper	5669	100y4hChicago	24.1	221.45	222.81		222.98	0.00637	1.98	17	25.68	0.62
Chippewa	Upper	5669	2yrFlow100yrLake	9.4	221.45	222.32		222.4	0.007652	1.41	8.18	16.17	0.61
Chippewa	Upper	5628.392	Timmins	85.5	220.89	223.11	223.11	223.57	0.010671	3.56	45.65	48.66	0.84
Chippewa	Upper	5628.392	100y6hSCS	28.7	220.89	222.37	222.37	222.72	0.012118	2.68	14.28	29.68	0.82
Chippewa	Upper	5628.392	50y6hSCS	25	220.89	222.29	222.29	222.62	0.012737	2.61	11.91	28.16	0.83
Chippewa	Upper	5628.392	25y6hSCS	21.4	220.89	222.09	222.09	222.51	0.019499	2.89	7.45	10.49	1
Chippewa	Upper	5628.392	10y6hSCS	17	220.89	221.94	221.94	222.32	0.019979	2.75	6.18	8.03	1
Chippewa	Upper	5628.392	5y6hSCS	13.8	220.89	221.82	221.82	222.17	0.020908	2.61	5.28	7.7	1.01
Chippewa	Upper	5628.392	2y6hSCS	9.4	220.89	221.7	221.65	221.94	0.016782	2.15	4.38	7.31	0.89
Chippewa	Upper	5628.392	100y4hChicago	24.1	220.89	222.26	222.26	222.6	0.013418	2.62	11.04	27.09	0.85
Chippewa	Upper	5628.392	2yrFlow100yrLake	9.4	220.89	221.7	221.65	221.94	0.016782	2.15	4.38	7.31	0.89
Chippewa	Upper	5601	Timmins	85.5	220.65	222.84	222.55	223.07	0.005405	2.65	62.32	54.59	0.61
Chippewa	Upper	5601	100y6hSCS	28.7	220.65	221.96	221.77	222.17	0.007284	2.18	18.92	28.68	0.66
Chippewa	Upper	5601	50y6hSCS	25	220.65	221.86	221.68	222.06	0.007708	2.13	16.38	23.37	0.67
Chippewa	Upper	5601	25y6hSCS	21.4	220.65	221.75	221.62	221.95	0.008689	2.11	13.72	22.67	0.7
Chippewa	Upper	5601	10y6hSCS	17	220.65	221.59	221.51	221.8	0.010522	2.1	10.32	20.52	0.75
Chippewa	Upper	5601	5y6hSCS	13.8	220.65	221.46	221.4	221.68	0.012919	2.1	7.74	18.44	0.81
Chippewa	Upper	5601	2y6hSCS	9.4	220.65	221.27	221.23	221.48	0.016883	2.02	4.82	10.36	0.89
Chippewa	Upper	5601	100y4hChicago	24.1	220.65	221.83	221.66	222.03	0.007904	2.12	15.74	23.2	0.67
Chippewa	Upper	5601	2yrFlow100yrLake	9.4	220.65	221.27	221.23	221.48	0.016883	2.02	4.82	10.36	0.89
Chippewa	Upper	5550.496	Timmins	85.5	220.28	222.73		222.88	0.002136	1.89	70.44	50.02	0.4
Chippewa	Upper	5550.496	100y6hSCS	28.7	220.28	221.92		221.98	0.001476	1.16	31.91	42.25	0.31
Chippewa	Upper	5550.496	50y6hSCS	25	220.28	221.81		221.87	0.001507	1.11	27.54	40.44	0.31
Chippewa	Upper	5550.496	25y6hSCS	21.4	220.28	221.69		221.75	0.001536	1.06	23.15	32.78	0.31
Chippewa	Upper	5550.496	10y6hSCS	17	220.28	221.53		221.58	0.001642	0.99	18.59	24.78	0.31
Chippewa	Upper	5550.496	5y6hSCS	13.8	220.28	221.39		221.44	0.001731	0.93	15.6	20.24	0.31
Chippewa	Upper	5550.496	2y6hSCS	9.4	220.28	221.17		221.21	0.00187	0.83	11.48	17.44	0.31
Chippewa	Upper	5550.496	100y4hChicago	24.1	220.28	221.78		221.84	0.001524	1.1	26.38	39.68	0.31
Chippewa	Upper	5550.496	2yrFlow100yrLake	9.4	220.28	221.17		221.21	0.00187	0.83	11.48	17.44	0.31
Chippewa	Upper	5499	Timmins	85.5	219.99	222.6		222.75	0.002911	2.12	77.55	58.82	0.45
Chippewa	Upper	5499	100y6hSCS	28.7	219.99	221.77	221.18	221.87	0.002875	1.55	30.11	54.7	0.42
Chippewa	Upper	5499	50y6hSCS	25	219.99	221.65		221.76	0.003112	1.56	23.62	49.23	0.43
Chippewa	Upper	5499	25y6hSCS	21.4	219.99	221.51		221.63	0.003461	1.55	17.55	40.24	0.45
Chippewa	Upper	5499	10y6hSCS	17	219.99	221.34		221.45	0.003666	1.46	12.92	17.12	0.45
Chippewa	Upper	5499	5y6hSCS	13.8	219.99	221.21		221.3	0.003769	1.38	10.76	15.26	0.45
Chippewa	Upper	5499	2y6hSCS	9.4	219.99	220.99		221.07	0.003943	1.22	7.82	12.01	0.45
Chippewa	Upper	5499	100y4hChicago	24.1	219.99	221.61		221.73	0.003227	1.56	21.94	47.57	0.44

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	5499	2yrFlow100yrLake	9.4	219.99	220.99		221.07	0.003943	1.22	7.82	12.01	0.45
Chippewa	Upper	5463.066	Timmins	85.5	219.73	222.14	222.14	222.56	0.007923	3.58	56.65	63.25	0.76
Chippewa	Upper	5463.066	100y6hSCS	28.7	219.73	221.15	221.15	221.64	0.013709	3.2	11.45	15.16	0.91
Chippewa	Upper	5463.066	50y6hSCS	25	219.73	221.03	221.03	221.51	0.015256	3.15	9.65	13.53	0.94
Chippewa	Upper	5463.066	25y6hSCS	21.4	219.73	220.93	220.93	221.37	0.015328	2.98	8.41	12.63	0.93
Chippewa	Upper	5463.066	10y6hSCS	17	219.73	220.78	220.78	221.18	0.016647	2.81	6.7	10.85	0.95
Chippewa	Upper	5463.066	5y6hSCS	13.8	219.73	220.66	220.66	221.02	0.018216	2.66	5.47	9.49	0.97
Chippewa	Upper	5463.066	2y6hSCS	9.4	219.73	220.48	220.48	220.77	0.021289	2.4	3.96	7.34	1
Chippewa	Upper	5463.066	100y4hChicago	24.1	219.73	221.01	221.01	221.47	0.01497	3.09	9.42	13.34	0.93
Chippewa	Upper	5463.066	2yrFlow100yrLake	9.4	219.73	220.48	220.48	220.77	0.021289	2.4	3.96	7.34	1
Chippewa	Upper	5448	Timmins	85.5	219.39	221.62	221.75	222.38	0.011641	4.37	36.89	39.44	0.95
Chippewa	Upper	5448	100y6hSCS	28.7	219.39	220.93	220.62	221.2	0.006023	2.44	16.86	21.08	0.64
Chippewa	Upper	5448	50y6hSCS	25	219.39	220.86	220.52	221.09	0.005386	2.24	15.55	19.62	0.6
Chippewa	Upper	5448	25y6hSCS	21.4	219.39	220.79	220.42	220.98	0.004698	2.02	14.26	15.67	0.56
Chippewa	Upper	5448	10y6hSCS	17	219.39	220.69	220.28	220.83	0.003917	1.75	12.75	14.97	0.5
Chippewa	Upper	5448	5y6hSCS	13.8	219.39	220.6	220.16	220.72	0.003392	1.55	11.43	14.34	0.46
Chippewa	Upper	5448	2y6hSCS	9.4	219.39	220.44	220	220.52	0.002705	1.26	9.21	13.26	0.4
Chippewa	Upper	5448	100y4hChicago	24.1	219.39	220.84	220.5	221.06	0.005161	2.18	15.19	18.7	0.59
Chippewa	Upper	5448	2yrFlow100yrLake	9.4	219.39	220.44	220	220.52	0.002705	1.26	9.21	13.26	0.4
Chippewa	Upper	5435	Timmins	85.5	219.39	221.54	221.45	222.05	0.010991	3.88	44.75	43.86	0.89
Chippewa	Upper	5435	100y6hSCS	28.7	219.39	220.92		221.09	0.005493	2.13	22.73	26	0.59
Chippewa	Upper	5435	50y6hSCS	25	219.39	220.85		221	0.005178	2	20.89	25.34	0.57
Chippewa	Upper	5435	25y6hSCS	21.4	219.39	220.76		220.9	0.005056	1.88	18.67	24.61	0.55
Chippewa	Upper	5435	10y6hSCS	17	219.39	220.66		220.77	0.004577	1.68	16.18	23.62	0.52
Chippewa	Upper	5435	5y6hSCS	13.8	219.39	220.56		220.66	0.004334	1.54	13.99	22.89	0.5
Chippewa	Upper	5435	2y6hSCS	9.4	219.39	220.39		220.47	0.004216	1.34	10.27	21.44	0.47
Chippewa	Upper	5435	100y4hChicago	24.1	219.39	220.82		220.97	0.005235	1.98	20.22	25.15	0.57
Chippewa	Upper	5435	2yrFlow100yrLake	9.4	219.39	220.39		220.47	0.004216	1.34	10.27	21.44	0.47
Chippewa	Upper	5423	Timmins	85.5	219.37	221.42	221.42	221.9	0.011269	3.75	45.84	46.63	0.88
Chippewa	Upper	5423	100y6hSCS	28.7	219.37	220.65	220.65	220.98	0.012867	2.79	16.38	28.54	0.86
Chippewa	Upper	5423	50y6hSCS	25	219.37	220.55	220.55	220.88	0.014143	2.75	13.8	26.17	0.89
Chippewa	Upper	5423	25y6hSCS	21.4	219.37	220.51	220.51	220.79	0.01256	2.52	12.66	25.87	0.83
Chippewa	Upper	5423	10y6hSCS	17	219.37	220.4	220.4	220.67	0.013504	2.4	9.79	24.63	0.84
Chippewa	Upper	5423	5y6hSCS	13.8	219.37	220.3	220.3	220.56	0.0144	2.28	7.59	21.82	0.85
Chippewa	Upper	5423	2y6hSCS	9.4	219.37	220.1	220.1	220.36	0.021428	2.24	4.26	9.84	0.99
Chippewa	Upper	5423	100y4hChicago	24.1	219.37	220.55	220.55	220.86	0.013105	2.65	13.82	26.17	0.85
Chippewa	Upper	5423	2yrFlow100yrLake	9.4	219.37	220.1	220.1	220.36	0.021428	2.24	4.26	9.84	0.99
Chippewa	Upper	5399	Timmins	85.5	218.7	220.56	220.8	221.51	0.019238	4.72	30.12	36.8	1.15
Chippewa	Upper	5399	100y6hSCS	28.7	218.7	219.67	219.92	220.45	0.035961	3.95	7.64	11.18	1.4
Chippewa	Upper	5399	50y6hSCS	25	218.7	219.59	219.81	220.32	0.03817	3.81	6.8	10.5	1.41
Chippewa	Upper	5399	25y6hSCS	21.4	218.7	219.48	219.69	220.22	0.047216	3.82	5.72	9.93	1.53
Chippewa	Upper	5399	10y6hSCS	17	218.7	219.38	219.57	220.05	0.054231	3.64	4.72	9.4	1.59
Chippewa	Upper	5399	5y6hSCS	13.8	218.7	219.3	219.48	219.91	0.059204	3.44	4.03	9.12	1.63
Chippewa	Upper	5399	2y6hSCS	9.4	218.7	219.24	219.33	219.62	0.046255	2.74	3.44	8.94	1.4
Chippewa	Upper	5399	100y4hChicago	24.1	218.7	219.56	219.79	220.31	0.041277	3.85	6.47	10.31	1.46
Chippewa	Upper	5399	2yrFlow100yrLake	9.4	218.7	219.24	219.33	219.62	0.046255	2.74	3.44	8.94	1.4
Chippewa	Upper	5373.361	Timmins	85.5	217.97	219.87	219.97	220.96	0.023329	4.96	25.68	29.62	1.24
Chippewa	Upper	5373.361	100y6hSCS	28.7	217.97	219.49	219.27	219.76	0.007531	2.36	15.44	22.41	0.67
Chippewa	Upper	5373.361	50y6hSCS	25	217.97	219.19	219.17	219.59	0.015206	2.81	9.68	15.66	0.91
Chippewa	Upper	5373.361	25y6hSCS	21.4	217.97	219.05	219.05	219.46	0.018724	2.85	7.81	11	0.99
Chippewa	Upper	5373.361	10y6hSCS	17	217.97	218.92	218.92	219.28	0.01952	2.66	6.52	10.02	0.99
Chippewa	Upper	5373.361	5y6hSCS	13.8	217.97	218.82	218.82	219.14	0.020476	2.5	5.56	9.35	1
Chippewa	Upper	5373.361	2y6hSCS	9.4	217.97	218.67	218.67	218.92	0.022408	2.25	4.19	8.24	1.01
Chippewa	Upper	5373.361	100y4hChicago	24.1	217.97	219.12	219.13	219.56	0.01797	2.94	8.71	12.78	0.98
Chippewa	Upper	5373.361	2yrFlow100yrLake	9.4	217.97	218.67	218.67	218.92	0.022408	2.25	4.19	8.24	1.01
Chippewa	Upper	5357	Timmins	85.5	217.47	219.16	219.51	220.5	0.030522	5.48	22.45	24.91	1.43
Chippewa	Upper	5357	100y6hSCS	28.7	217.47	219.58		219.66	0.00131	1.34	34.22	31.15	0.31
Chippewa	Upper	5357	50y6hSCS	25	217.47	219.35		219.43	0.001622	1.37	27.56	27.6	0.34
Chippewa	Upper	5357	25y6hSCS	21.4	217.47	219.11	218.47	219.2	0.002152	1.43	21.36	24.59	0.38
Chippewa	Upper	5357	10y6hSCS	17	217.47	218.88	218.35	218.97	0.002685	1.42	15.86	21.88	0.41
Chippewa	Upper	5357	5y6hSCS	13.8	217.47	218.64	218.26	218.75	0.003928	1.48	11.02	16.35	0.48
Chippewa	Upper	5357	2y6hSCS	9.4	217.47	218.23	218.11	218.38	0.010872	1.77	5.73	10.74	0.73
Chippewa	Upper	5357	100y4hChicago	24.1	217.47	219.29	218.53	219.38	0.001728	1.38	25.98	26.58	0.34
Chippewa	Upper	5357	2yrFlow100yrLake	9.4	217.47	218.23	218.11	218.38	0.010872	1.77	5.73	10.74	0.73

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	5333	Timmins	85.5	217.01	219.53	218.4	219.61	0.00145	1.49	89.19	53.17	0.33
Chippewa	Upper	5333	100y6hSCS	28.7	217.01	219.62		219.63	0.000145	0.48	94.1	55.85	0.1
Chippewa	Upper	5333	50y6hSCS	25	217.01	219.39		219.4	0.000158	0.47	81.97	52.27	0.11
Chippewa	Upper	5333	25y6hSCS	21.4	217.01	219.16		219.17	0.000183	0.46	69.96	51.09	0.11
Chippewa	Upper	5333	10y6hSCS	17	217.01	218.93		218.93	0.000194	0.43	58.25	49.15	0.11
Chippewa	Upper	5333	5y6hSCS	13.8	217.01	218.69		218.7	0.000234	0.42	47.06	46.82	0.12
Chippewa	Upper	5333	2y6hSCS	9.4	217.01	218.3		218.31	0.000377	0.42	30.04	40.07	0.15
Chippewa	Upper	5333	100y4hChicago	24.1	217.01	219.34		219.34	0.000163	0.47	78.99	52.04	0.11
Chippewa	Upper	5333	2yrFlow100yrLake	9.4	217.01	218.3		218.31	0.000377	0.42	30.04	40.07	0.15
Chippewa	Upper	5306	Timmins	85.5	216.77	219.43		219.56	0.002257	1.87	83.4	68.25	0.41
Chippewa	Upper	5306	100y6hSCS	28.7	216.77	219.61		219.62	0.000179	0.56	96.3	73.24	0.12
Chippewa	Upper	5306	50y6hSCS	25	216.77	219.38		219.4	0.000213	0.57	80.17	67.48	0.13
Chippewa	Upper	5306	25y6hSCS	21.4	216.77	219.15		219.16	0.00025	0.57	65.24	60.03	0.13
Chippewa	Upper	5306	10y6hSCS	17	216.77	218.92		218.93	0.000276	0.54	51.62	55.28	0.14
Chippewa	Upper	5306	5y6hSCS	13.8	216.77	218.68		218.69	0.000349	0.55	39.26	51.05	0.15
Chippewa	Upper	5306	2y6hSCS	9.4	216.77	218.28		218.3	0.000675	0.61	19.7	46.36	0.2
Chippewa	Upper	5306	100y4hChicago	24.1	216.77	219.33		219.34	0.000222	0.57	76.34	65.63	0.13
Chippewa	Upper	5306	2yrFlow100yrLake	9.4	216.77	218.28		218.3	0.000675	0.61	19.7	46.36	0.2
Chippewa	Upper	5293.856	Timmins	85.5	216.45	219.43		219.53	0.001871	1.83	101.19	77.92	0.37
Chippewa	Upper	5293.856	100y6hSCS	28.7	216.45	219.61		219.62	0.000149	0.54	115.66	78.72	0.11
Chippewa	Upper	5293.856	50y6hSCS	25	216.45	219.38		219.39	0.000175	0.55	97.68	77.69	0.11
Chippewa	Upper	5293.856	25y6hSCS	21.4	216.45	219.15		219.16	0.00021	0.57	79.7	73.64	0.12
Chippewa	Upper	5293.856	10y6hSCS	17	216.45	218.91		218.92	0.000228	0.55	63.69	64.17	0.12
Chippewa	Upper	5293.856	5y6hSCS	13.8	216.45	218.68		218.69	0.000285	0.56	48.76	62.3	0.14
Chippewa	Upper	5293.856	2y6hSCS	9.4	216.45	218.27		218.29	0.000496	0.62	24.53	52.14	0.17
Chippewa	Upper	5293.856	100y4hChicago	24.1	216.45	219.33		219.34	0.000182	0.56	93.22	77.24	0.12
Chippewa	Upper	5293.856	2yrFlow100yrLake	9.4	216.45	218.27		218.29	0.000496	0.62	24.53	52.14	0.17
Chippewa	Upper	5246	Timmins	85.5	216.06	219.44		219.47	0.000384	1.02	174.67	84.91	0.18
Chippewa	Upper	5246	100y6hSCS	28.7	216.06	219.61		219.62	0.000035	0.32	189.43	85.91	0.06
Chippewa	Upper	5246	50y6hSCS	25	216.06	219.39		219.39	0.000035	0.31	169.88	84.59	0.06
Chippewa	Upper	5246	25y6hSCS	21.4	216.06	219.15		219.15	0.000037	0.29	150.2	83.64	0.06
Chippewa	Upper	5246	10y6hSCS	17	216.06	218.92		218.92	0.000034	0.27	130.65	82.85	0.05
Chippewa	Upper	5246	5y6hSCS	13.8	216.06	218.68		218.68	0.000034	0.25	111.23	81.57	0.05
Chippewa	Upper	5246	2y6hSCS	9.4	216.06	218.28		218.28	0.000033	0.22	80.52	70.21	0.05
Chippewa	Upper	5246	100y4hChicago	24.1	216.06	219.33		219.33	0.000036	0.3	165.02	84.33	0.06
Chippewa	Upper	5246	2yrFlow100yrLake	9.4	216.06	218.28		218.28	0.000033	0.22	80.52	70.21	0.05
Chippewa	Upper	5212.56	Timmins	85.5	215.39	219.43		219.46	0.000333	1.08	180.56	75.19	0.17
Chippewa	Upper	5212.56	100y6hSCS	28.7	215.39	219.61		219.62	0.000031	0.34	194.45	76.49	0.05
Chippewa	Upper	5212.56	50y6hSCS	25	215.39	219.38		219.39	0.00003	0.32	177.12	75.05	0.05
Chippewa	Upper	5212.56	25y6hSCS	21.4	215.39	219.15		219.15	0.000029	0.31	159.67	74.22	0.05
Chippewa	Upper	5212.56	10y6hSCS	17	215.39	218.92		218.92	0.000025	0.27	142.34	73.42	0.05
Chippewa	Upper	5212.56	5y6hSCS	13.8	215.39	218.68		218.68	0.000024	0.25	125.11	72.61	0.04
Chippewa	Upper	5212.56	2y6hSCS	9.4	215.39	218.28		218.28	0.000022	0.22	96.2	71.5	0.04
Chippewa	Upper	5212.56	100y4hChicago	24.1	215.39	219.33		219.33	0.00003	0.32	172.81	74.78	0.05
Chippewa	Upper	5212.56	2yrFlow100yrLake	9.4	215.39	218.28		218.28	0.000022	0.22	96.2	71.5	0.04
Chippewa	Upper	5126.009	Timmins	85.5	214.38	219.4		219.43	0.00034	1.21	193.32	98.61	0.18
Chippewa	Upper	5126.009	100y6hSCS	28.7	214.38	219.61		219.61	0.000029	0.37	214.54	99.69	0.05
Chippewa	Upper	5126.009	50y6hSCS	25	214.38	219.38		219.38	0.00003	0.36	191.78	98.55	0.05
Chippewa	Upper	5126.009	25y6hSCS	21.4	214.38	219.15		219.15	0.000028	0.34	169.43	90.08	0.05
Chippewa	Upper	5126.009	10y6hSCS	17	214.38	218.91		218.92	0.000024	0.3	148.49	87.55	0.05
Chippewa	Upper	5126.009	5y6hSCS	13.8	214.38	218.68		218.68	0.000022	0.28	128.26	84.74	0.04
Chippewa	Upper	5126.009	2y6hSCS	9.4	214.38	218.28		218.28	0.000019	0.24	95.09	77.19	0.04
Chippewa	Upper	5126.009	100y4hChicago	24.1	214.38	219.32		219.33	0.000028	0.35	186.14	98.31	0.05
Chippewa	Upper	5126.009	2yrFlow100yrLake	9.4	214.38	218.28		218.28	0.000019	0.24	95.09	77.19	0.04
Chippewa	Upper	5121.643	Timmins	85.5	214.38	219.39	217.99	219.43	0.000509	1.33	181.76	102.24	0.19
Chippewa	Upper	5121.643	100y6hSCS	28.7	214.38	219.61	216.13	219.61	0.000043	0.4	204.41	104.46	0.06
Chippewa	Upper	5121.643	50y6hSCS	25	214.38	219.38	215.98	219.38	0.000044	0.39	180.6	101.55	0.06
Chippewa	Upper	5121.643	25y6hSCS	21.4	214.38	219.15	215.83	219.15	0.000045	0.38	157.31	97.83	0.06
Chippewa	Upper	5121.643	10y6hSCS	17	214.38	218.91	215.62	218.92	0.000039	0.34	135.36	88.48	0.05
Chippewa	Upper	5121.643	5y6hSCS	13.8	214.38	218.64	215.47	218.68	0.000172	0.81	16.98	85.29	0.13
Chippewa	Upper	5121.643	2y6hSCS	9.4	214.38	218.26	215.23	218.28	0.00011	0.61	15.44	74.2	0.1
Chippewa	Upper	5121.643	100y4hChicago	24.1	214.38	219.32	215.95	219.33	0.000044	0.39	174.81	100.33	0.06
Chippewa	Upper	5121.643	2yrFlow100yrLake	9.4	214.38	218.26	215.23	218.28	0.00011	0.61	15.44	74.2	0.1

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	5114.229		Culvert									
Chippewa	Upper	5094.148	Timmins	85.5	216.61	218.83	218.83	218.87	0.00129	1.31	128.97	74.01	0.31
Chippewa	Upper	5094.148	100y6hSCS	28.7	216.61	218.74	218.74	219.61	0.014085	4.12	6.96	72.03	1
Chippewa	Upper	5094.148	50y6hSCS	25	216.61	218.59	218.59	219.38	0.014597	3.95	6.34	69.04	1
Chippewa	Upper	5094.148	25y6hSCS	21.4	216.61	218.43	218.43	219.15	0.015159	3.75	5.71	67.06	1
Chippewa	Upper	5094.148	10y6hSCS	17	216.61	218.23	218.23	218.84	0.015826	3.46	4.91	58.46	1
Chippewa	Upper	5094.148	5y6hSCS	13.8	216.61	218.07	218.07	218.6	0.016646	3.24	4.26	56.98	1
Chippewa	Upper	5094.148	2y6hSCS	9.4	216.61	217.83	217.83	218.24	0.01788	2.84	3.32	55.29	0.99
Chippewa	Upper	5094.148	100y4hChicago	24.1	216.61	218.55	218.55	219.32	0.014668	3.89	6.19	68.42	1
Chippewa	Upper	5094.148	2yrFlow100yrLake	9.4	216.61	217.83	217.83	218.24	0.01788	2.84	3.32	55.29	0.99
Chippewa	Upper	5085.348	Timmins	85.5	214.29	217.22	216.51	217.52	0.003753	2.95	63.34	52.99	0.56
Chippewa	Upper	5085.348	100y6hSCS	28.7	214.29	215.12	215.57	216.56	0.071107	5.36	5.81	10.39	1.95
Chippewa	Upper	5085.348	50y6hSCS	25	214.29	215.07	215.48	216.34	0.067716	5.01	5.32	9.51	1.88
Chippewa	Upper	5085.348	25y6hSCS	21.4	214.29	215.02	215.39	216.11	0.064324	4.64	4.85	8.63	1.81
Chippewa	Upper	5085.348	10y6hSCS	17	214.29	214.95	215.23	215.82	0.05987	4.15	4.24	8.16	1.71
Chippewa	Upper	5085.348	5y6hSCS	13.8	214.29	214.89	215.1	215.59	0.05499	3.72	3.79	7.67	1.61
Chippewa	Upper	5085.348	2y6hSCS	9.4	214.29	214.8	214.93	215.28	0.048112	3.07	3.1	7.27	1.46
Chippewa	Upper	5085.348	100y4hChicago	24.1	214.29	215.06	215.46	216.28	0.067391	4.93	5.18	8.83	1.87
Chippewa	Upper	5085.348	2yrFlow100yrLake	9.4	214.29	214.8	214.93	215.28	0.048112	3.07	3.1	7.27	1.46
Chippewa	Upper	4992.499	Timmins	85.5	213.54	217.3		217.35	0.000499	1.27	137.87	55.66	0.21
Chippewa	Upper	4992.499	100y6hSCS	28.7	213.54	215.38	214.58	215.45	0.001408	1.31	39.36	46.21	0.31
Chippewa	Upper	4992.499	50y6hSCS	25	213.54	215.25	214.49	215.32	0.001513	1.29	33.49	45.32	0.32
Chippewa	Upper	4992.499	25y6hSCS	21.4	213.54	215.13	214.4	215.19	0.001551	1.24	28.11	40.86	0.32
Chippewa	Upper	4992.499	10y6hSCS	17	213.54	214.96	214.29	215.03	0.001613	1.17	21.77	38.27	0.32
Chippewa	Upper	4992.499	5y6hSCS	13.8	213.54	214.82	214.2	214.88	0.001672	1.11	16.44	33.3	0.32
Chippewa	Upper	4992.499	2y6hSCS	9.4	213.54	214.59	214.07	214.63	0.001713	0.97	10.73	16.31	0.31
Chippewa	Upper	4992.499	100y4hChicago	24.1	213.54	215.22	214.47	215.29	0.001526	1.28	32.08	43.64	0.32
Chippewa	Upper	4992.499	2yrFlow100yrLake	9.4	213.54	214.59	214.07	214.63	0.001713	0.97	10.73	16.31	0.31
Chippewa	Upper	4889.457	Timmins	85.5	213.17	217.13		217.27	0.001269	2.02	81.88	31.81	0.33
Chippewa	Upper	4889.457	100y6hSCS	28.7	213.17	215.07		215.23	0.003462	1.99	23.9	24.89	0.48
Chippewa	Upper	4889.457	50y6hSCS	25	213.17	214.91		215.08	0.003894	1.99	20.09	24.5	0.5
Chippewa	Upper	4889.457	25y6hSCS	21.4	213.17	214.76		214.93	0.004403	1.98	16.35	24.24	0.52
Chippewa	Upper	4889.457	10y6hSCS	17	213.17	214.57		214.74	0.004965	1.91	11.85	23.9	0.54
Chippewa	Upper	4889.457	5y6hSCS	13.8	213.17	214.43		214.59	0.005004	1.78	9.28	12.55	0.54
Chippewa	Upper	4889.457	2y6hSCS	9.4	213.17	214.23		214.35	0.004763	1.52	6.95	10.85	0.51
Chippewa	Upper	4889.457	100y4hChicago	24.1	213.17	214.87		215.04	0.004031	1.99	19.12	24.44	0.51
Chippewa	Upper	4889.457	2yrFlow100yrLake	9.4	213.17	214.23		214.35	0.004763	1.52	6.95	10.85	0.51
Chippewa	Upper	4807.836	Timmins	85.5	212.58	217.18		217.2	0.000178	0.79	225.65	86.95	0.13
Chippewa	Upper	4807.836	100y6hSCS	28.7	212.58	215.07		215.1	0.000531	0.82	61.31	59.32	0.19
Chippewa	Upper	4807.836	50y6hSCS	25	212.58	214.91		214.93	0.000602	0.82	51.82	56.85	0.2
Chippewa	Upper	4807.836	25y6hSCS	21.4	212.58	214.74		214.77	0.000685	0.82	42.64	53.74	0.21
Chippewa	Upper	4807.836	10y6hSCS	17	212.58	214.53		214.56	0.000812	0.8	31.76	49.5	0.22
Chippewa	Upper	4807.836	5y6hSCS	13.8	212.58	214.37		214.39	0.000918	0.78	24.12	44.26	0.23
Chippewa	Upper	4807.836	2y6hSCS	9.4	212.58	214.12		214.15	0.001069	0.72	14.9	32.13	0.24
Chippewa	Upper	4807.836	100y4hChicago	24.1	212.58	214.86		214.89	0.000618	0.82	49.46	56.41	0.2
Chippewa	Upper	4807.836	2yrFlow100yrLake	9.4	212.58	214.12		214.15	0.001069	0.72	14.9	32.13	0.24
Chippewa	Upper	4803.473	Timmins	85.5	212.65	215.64	215.64	217.01	0.012282	5.19	16.48	67.47	1
Chippewa	Upper	4803.473	100y6hSCS	28.7	212.65	214.22	214.22	214.88	0.015696	3.61	7.95	29.35	1
Chippewa	Upper	4803.473	50y6hSCS	25	212.65	214.1	214.1	214.71	0.016186	3.45	7.25	22.29	1
Chippewa	Upper	4803.473	25y6hSCS	21.4	212.65	213.98	213.98	214.53	0.016638	3.27	6.55	20.76	1
Chippewa	Upper	4803.473	10y6hSCS	17	212.65	213.83	213.83	214.29	0.017472	3.02	5.62	11.92	1
Chippewa	Upper	4803.473	5y6hSCS	13.8	212.65	213.7	213.7	214.11	0.018489	2.83	4.88	11.14	1
Chippewa	Upper	4803.473	2y6hSCS	9.4	212.65	213.52	213.52	213.84	0.020045	2.49	3.78	10.14	1
Chippewa	Upper	4803.473	100y4hChicago	24.1	212.65	214.07	214.07	214.66	0.016234	3.4	7.09	21.74	1
Chippewa	Upper	4803.473	2yrFlow100yrLake	9.4	212.65	213.52	213.52	213.84	0.020045	2.49	3.78	10.14	1
Chippewa	Upper	4780.106		Culvert									
Chippewa	Upper	4753.62	Timmins	85.5	212.18	215.06	215.06	216.44	0.012543	5.19	16.48	29.26	1
Chippewa	Upper	4753.62	100y6hSCS	28.7	212.18	213.89	213.64	214.36	0.009123	3.05	9.42	10.41	0.78
Chippewa	Upper	4753.62	50y6hSCS	25	212.18	213.8	213.53	214.2	0.008455	2.82	8.87	10.21	0.74
Chippewa	Upper	4753.62	25y6hSCS	21.4	212.18	213.7	213.41	214.04	0.007791	2.58	8.28	9.87	0.7
Chippewa	Upper	4753.62	10y6hSCS	17	212.18	213.56	213.25	213.83	0.006955	2.28	7.46	9.11	0.65
Chippewa	Upper	4753.62	5y6hSCS	13.8	212.18	213.45	213.13	213.66	0.006298	2.03	6.78	8.69	0.61
Chippewa	Upper	4753.62	2y6hSCS	9.4	212.18	213.27	212.95	213.41	0.005227	1.65	5.7	8.21	0.54

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	4753.62	100y4hChicago	24.1	212.18	213.77	213.5	214.16	0.008297	2.76	8.73	10.12	0.73
Chippewa	Upper	4753.62	2yrFlow100yrLake	9.4	212.18	213.27	212.95	213.41	0.005227	1.65	5.7	8.21	0.54
Chippewa	Upper	4745.032	Timmins	85.5	212.16	215.04	214.15	215.3	0.002775	2.45	56.33	43.46	0.47
Chippewa	Upper	4745.032	100y6hSCS	28.7	212.16	213.73		213.89	0.003663	1.8	18.28	17.09	0.49
Chippewa	Upper	4745.032	50y6hSCS	25	212.16	213.62		213.76	0.003755	1.72	16.35	16.37	0.49
Chippewa	Upper	4745.032	25y6hSCS	21.4	212.16	213.5		213.63	0.003855	1.64	14.47	15.61	0.49
Chippewa	Upper	4745.032	10y6hSCS	17	212.16	213.33		213.45	0.004104	1.53	12.01	14.67	0.49
Chippewa	Upper	4745.032	5y6hSCS	13.8	212.16	213.2		213.31	0.004437	1.44	10.1	13.83	0.5
Chippewa	Upper	4745.032	2y6hSCS	9.4	212.16	213		213.08	0.005119	1.29	7.44	12.42	0.51
Chippewa	Upper	4745.032	100y4hChicago	24.1	212.16	213.59		213.73	0.003773	1.7	15.89	16.04	0.49
Chippewa	Upper	4745.032	2yrFlow100yrLake	9.4	212.16	213		213.08	0.005119	1.29	7.44	12.42	0.51
Chippewa	Upper	4702.321	Timmins	85.5	211.74	214.84		215.14	0.003876	2.58	49.98	46.01	0.52
Chippewa	Upper	4702.321	100y6hSCS	28.7	211.74	213.29		213.59	0.00974	2.44	11.74	10.18	0.73
Chippewa	Upper	4702.321	50y6hSCS	25	211.74	213.18		213.46	0.009735	2.34	10.69	9.95	0.72
Chippewa	Upper	4702.321	25y6hSCS	21.4	211.74	213.08		213.33	0.009722	2.22	9.62	9.72	0.71
Chippewa	Upper	4702.321	10y6hSCS	17	211.74	212.93		213.15	0.009146	2.06	8.25	8.96	0.69
Chippewa	Upper	4702.321	5y6hSCS	13.8	211.74	212.8		212.99	0.008887	1.93	7.14	8.36	0.67
Chippewa	Upper	4702.321	2y6hSCS	9.4	211.74	212.61		212.75	0.008354	1.68	5.61	7.85	0.63
Chippewa	Upper	4702.321	100y4hChicago	24.1	211.74	213.16		213.43	0.009714	2.31	10.43	9.9	0.72
Chippewa	Upper	4702.321	2yrFlow100yrLake	9.4	211.74	212.61		212.75	0.008354	1.68	5.61	7.85	0.63
Chippewa	Upper	4701.055	Timmins	85.5	211.73	214.83	214.17	215.13	0.003819	2.57	49.76	45.73	0.52
Chippewa	Upper	4701.055	100y6hSCS	28.7	211.73	213.28	213.03	213.58	0.009837	2.44	11.74	10.29	0.73
Chippewa	Upper	4701.055	50y6hSCS	25	211.73	213.17	212.95	213.45	0.00983	2.34	10.67	10.01	0.72
Chippewa	Upper	4701.055	25y6hSCS	21.4	211.73	213.06	212.83	213.32	0.009792	2.23	9.6	9.73	0.72
Chippewa	Upper	4701.055	10y6hSCS	17	211.73	212.92	212.7	213.13	0.009844	2.07	8.19	9.37	0.71
Chippewa	Upper	4701.055	5y6hSCS	13.8	211.73	212.78	212.59	212.98	0.009879	1.97	7.01	8.68	0.7
Chippewa	Upper	4701.055	2y6hSCS	9.4	211.73	212.59	212.42	212.74	0.009911	1.75	5.37	8.02	0.68
Chippewa	Upper	4701.055	100y4hChicago	24.1	211.73	213.14	212.92	213.42	0.009803	2.31	10.41	9.95	0.72
Chippewa	Upper	4701.055	2yrFlow100yrLake	9.4	211.73	212.59	212.42	212.74	0.009911	1.75	5.37	8.02	0.68
Chippewa	Upper	4698.5	Bridge										
Chippewa	Upper	4695	Timmins	85.5	211.65	214.07	213.96	214.68	0.012091	3.47	25.75	27.41	0.88
Chippewa	Upper	4695	100y6hSCS	28.7	211.65	212.95	212.95	213.41	0.018592	2.99	9.6	10.51	1
Chippewa	Upper	4695	50y6hSCS	25	211.65	212.86	212.86	213.28	0.01878	2.88	8.69	10.2	0.99
Chippewa	Upper	4695	25y6hSCS	21.4	211.65	212.76	212.76	213.16	0.019395	2.78	7.7	9.77	1
Chippewa	Upper	4695	10y6hSCS	17	211.65	212.63	212.63	212.98	0.019933	2.63	6.48	9.14	1
Chippewa	Upper	4695	5y6hSCS	13.8	211.65	212.54	212.52	212.84	0.018831	2.44	5.65	8.53	0.96
Chippewa	Upper	4695	2y6hSCS	9.4	211.65	212.4	212.34	212.62	0.015843	2.07	4.54	7.7	0.86
Chippewa	Upper	4695	100y4hChicago	24.1	211.65	212.83	212.83	213.25	0.019152	2.86	8.42	10.09	1
Chippewa	Upper	4695	2yrFlow100yrLake	9.4	211.65	212.4	212.34	212.62	0.015843	2.07	4.54	7.7	0.86
Chippewa	Upper	4693.063	Timmins	85.5	211.53	213.75	213.75	214.59	0.015676	4.06	21.35	13.63	0.99
Chippewa	Upper	4693.063	100y6hSCS	28.7	211.53	212.97	212.75	213.27	0.00996	2.43	11.81	10.91	0.75
Chippewa	Upper	4693.063	50y6hSCS	25	211.53	212.89	212.66	213.15	0.009525	2.29	10.91	10.68	0.72
Chippewa	Upper	4693.063	25y6hSCS	21.4	211.53	212.8	212.56	213.03	0.00896	2.14	10	10.41	0.7
Chippewa	Upper	4693.063	10y6hSCS	17	211.53	212.69	212.43	212.87	0.008082	1.92	8.84	10.02	0.65
Chippewa	Upper	4693.063	5y6hSCS	13.8	211.53	212.59		212.75	0.007275	1.74	7.93	9.68	0.61
Chippewa	Upper	4693.063	2y6hSCS	9.4	211.53	212.44		212.55	0.006049	1.45	6.49	9.16	0.55
Chippewa	Upper	4693.063	100y4hChicago	24.1	211.53	212.86	212.63	213.12	0.0094	2.26	10.68	10.62	0.72
Chippewa	Upper	4693.063	2yrFlow100yrLake	9.4	211.53	212.44		212.55	0.006049	1.45	6.49	9.16	0.55
Chippewa	Upper	4631.519	Timmins	85.5	211.18	213.75		213.98	0.003768	2.62	62.67	54.38	0.53
Chippewa	Upper	4631.519	100y6hSCS	28.7	211.18	212.67		212.82	0.004487	1.94	23.22	25.55	0.53
Chippewa	Upper	4631.519	50y6hSCS	25	211.18	212.56		212.71	0.004863	1.91	20.27	25.01	0.54
Chippewa	Upper	4631.519	25y6hSCS	21.4	211.18	212.44		212.58	0.005345	1.87	17.3	24.5	0.56
Chippewa	Upper	4631.519	10y6hSCS	17	211.18	212.28		212.43	0.006172	1.82	13.52	23.54	0.59
Chippewa	Upper	4631.519	5y6hSCS	13.8	211.18	212.16		212.3	0.007051	1.78	10.64	23.05	0.61
Chippewa	Upper	4631.519	2y6hSCS	9.4	211.18	211.97	211.8	212.11	0.008311	1.66	6.54	22.08	0.64
Chippewa	Upper	4631.519	100y4hChicago	24.1	211.18	212.53		212.68	0.00497	1.9	19.54	24.88	0.55
Chippewa	Upper	4631.519	2yrFlow100yrLake	9.4	211.18	211.97	211.8	212.11	0.008311	1.66	6.54	22.08	0.64
Chippewa	Upper	4594	Timmins	85.5	210.86	213.14	213.14	213.74	0.009003	3.75	37.76	34.46	0.82
Chippewa	Upper	4594	100y6hSCS	28.7	210.86	212.25		212.58	0.008829	2.58	12.34	12.55	0.74
Chippewa	Upper	4594	50y6hSCS	25	210.86	212.17		212.46	0.008451	2.41	11.35	11.85	0.72
Chippewa	Upper	4594	25y6hSCS	21.4	210.86	212.08		212.33	0.007974	2.23	10.4	11.34	0.69
Chippewa	Upper	4594	10y6hSCS	17	210.86	211.96		212.16	0.007541	2	9.07	10.94	0.66
Chippewa	Upper	4594	5y6hSCS	13.8	210.86	211.86		212.03	0.007285	1.83	7.98	10.61	0.63

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	4594	2y6hSCS	9.4	210.86	211.7		211.82	0.006998	1.55	6.3	9.81	0.6
Chippewa	Upper	4594	100y4hChicago	24.1	210.86	212.15		212.42	0.008334	2.37	11.12	11.72	0.71
Chippewa	Upper	4594	2yrFlow100yrLake	9.4	210.86	211.7		211.82	0.006998	1.55	6.3	9.81	0.6
Chippewa	Upper	4550	Timmins	85.5	210.55	213.17	212.78	213.36	0.003049	2.34	78.72	81.38	0.48
Chippewa	Upper	4550	100y6hSCS	28.7	210.55	212.02		212.23	0.005742	2.07	16.48	19.4	0.59
Chippewa	Upper	4550	50y6hSCS	25	210.55	211.93		212.12	0.00567	1.96	14.81	18.9	0.58
Chippewa	Upper	4550	25y6hSCS	21.4	210.55	211.86	211.53	212.02	0.00522	1.81	13.48	18.41	0.55
Chippewa	Upper	4550	10y6hSCS	17	210.55	211.75		211.88	0.004777	1.61	11.62	16.63	0.52
Chippewa	Upper	4550	5y6hSCS	13.8	210.55	211.65		211.76	0.004605	1.47	9.97	15.96	0.5
Chippewa	Upper	4550	2y6hSCS	9.4	210.55	211.5		211.57	0.004127	1.22	7.88	12.02	0.46
Chippewa	Upper	4550	100y4hChicago	24.1	210.55	211.92		212.1	0.005567	1.93	14.48	18.8	0.58
Chippewa	Upper	4550	2yrFlow100yrLake	9.4	210.55	211.5		211.57	0.004127	1.22	7.88	12.02	0.46
Chippewa	Upper	4510	Timmins	85.5	210.35	213.1		213.25	0.002244	2.06	83.57	61.43	0.42
Chippewa	Upper	4510	100y6hSCS	28.7	210.35	211.79		211.99	0.006314	2.09	17.93	30.57	0.62
Chippewa	Upper	4510	50y6hSCS	25	210.35	211.59		211.83	0.009497	2.26	13.27	18.45	0.73
Chippewa	Upper	4510	25y6hSCS	21.4	210.35	211.44	211.37	211.71	0.012727	2.35	10.56	17.89	0.83
Chippewa	Upper	4510	10y6hSCS	17	210.35	211.31	211.27	211.56	0.014744	2.25	8.32	17.18	0.87
Chippewa	Upper	4510	5y6hSCS	13.8	210.35	211.23	211.18	211.45	0.014921	2.09	6.99	14.98	0.85
Chippewa	Upper	4510	2y6hSCS	9.4	210.35	211.08	211.02	211.26	0.018099	1.91	4.97	11.53	0.9
Chippewa	Upper	4510	100y4hChicago	24.1	210.35	211.54	211.43	211.8	0.010372	2.3	12.5	18.29	0.76
Chippewa	Upper	4510	2yrFlow100yrLake	9.4	210.35	211.08	211.02	211.26	0.018099	1.91	4.97	11.53	0.9
Chippewa	Upper	4477	Timmins	85.5	210.08	213.06		213.18	0.001321	1.66	76.19	46.96	0.33
Chippewa	Upper	4477	100y6hSCS	28.7	210.08	211.79		211.85	0.001582	1.17	29.18	26.04	0.32
Chippewa	Upper	4477	50y6hSCS	25	210.08	211.57		211.65	0.002187	1.23	23.7	24.68	0.36
Chippewa	Upper	4477	25y6hSCS	21.4	210.08	211.4		211.48	0.002707	1.25	19.55	23.43	0.4
Chippewa	Upper	4477	10y6hSCS	17	210.08	211.25		211.32	0.002855	1.17	16.19	21.78	0.4
Chippewa	Upper	4477	5y6hSCS	13.8	210.08	211.17		211.23	0.002601	1.05	14.41	20.67	0.38
Chippewa	Upper	4477	2y6hSCS	9.4	210.08	211.01		211.05	0.002366	0.91	11.17	19	0.35
Chippewa	Upper	4477	100y4hChicago	24.1	210.08	211.53		211.6	0.002337	1.24	22.52	24.45	0.37
Chippewa	Upper	4477	2yrFlow100yrLake	9.4	210.08	211.01		211.05	0.002366	0.91	11.17	19	0.35
Chippewa	Upper	4436.677	Timmins	85.5	209.94	213.03		213.12	0.001238	1.62	105.55	67.23	0.31
Chippewa	Upper	4436.677	100y6hSCS	28.7	209.94	211.68		211.77	0.002455	1.46	25.91	22	0.39
Chippewa	Upper	4436.677	50y6hSCS	25	209.94	211.41		211.53	0.003687	1.6	20.22	20.89	0.47
Chippewa	Upper	4436.677	25y6hSCS	21.4	209.94	211.17		211.32	0.005836	1.77	15.26	20.07	0.57
Chippewa	Upper	4436.677	10y6hSCS	17	209.94	210.97		211.13	0.008222	1.84	11.23	19.47	0.66
Chippewa	Upper	4436.677	5y6hSCS	13.8	209.94	210.97	210.73	211.07	0.005487	1.5	11.17	19.46	0.54
Chippewa	Upper	4436.677	2y6hSCS	9.4	209.94	210.84		210.92	0.004641	1.25	8.73	18.9	0.48
Chippewa	Upper	4436.677	100y4hChicago	24.1	209.94	211.35		211.47	0.004119	1.64	18.91	20.61	0.49
Chippewa	Upper	4436.677	2yrFlow100yrLake	9.4	209.94	210.84		210.92	0.004641	1.25	8.73	18.9	0.48
Chippewa	Upper	4387	Timmins	85.5	209.64	213.04		213.07	0.000469	1.11	165.42	79	0.2
Chippewa	Upper	4387	100y6hSCS	28.7	209.64	211.67		211.7	0.0006	0.86	63.07	63.15	0.21
Chippewa	Upper	4387	50y6hSCS	25	209.64	211.39		211.42	0.000945	0.96	46.24	50.79	0.25
Chippewa	Upper	4387	25y6hSCS	21.4	209.64	211.11		211.15	0.001607	1.09	33.16	43.73	0.31
Chippewa	Upper	4387	10y6hSCS	17	209.64	210.74		210.82	0.004229	1.4	18.71	35.38	0.48
Chippewa	Upper	4387	5y6hSCS	13.8	209.64	210.44	210.42	210.63	0.016041	2.03	8.68	30.32	0.87
Chippewa	Upper	4387	2y6hSCS	9.4	209.64	210.3	210.3	210.48	0.020745	1.93	5.36	19.34	0.95
Chippewa	Upper	4387	100y4hChicago	24.1	209.64	211.32		211.35	0.00106	0.99	42.86	47.03	0.26
Chippewa	Upper	4387	2yrFlow100yrLake	9.4	209.64	210.3	210.3	210.48	0.020745	1.93	5.36	19.34	0.95
Chippewa	Upper	4340	Timmins	85.5	209.26	213.04		213.05	0.000189	0.77	248	109.27	0.13
Chippewa	Upper	4340	100y6hSCS	28.7	209.26	211.68		211.68	0.000116	0.44	135.21	77.25	0.09
Chippewa	Upper	4340	50y6hSCS	25	209.26	211.39		211.4	0.00015	0.45	113.43	76.03	0.1
Chippewa	Upper	4340	25y6hSCS	21.4	209.26	211.11		211.12	0.000204	0.47	92.18	74.61	0.12
Chippewa	Upper	4340	10y6hSCS	17	209.26	210.76		210.76	0.000324	0.51	66.35	68.25	0.14
Chippewa	Upper	4340	5y6hSCS	13.8	209.26	210.5		210.5	0.00052	0.55	49.05	65.57	0.17
Chippewa	Upper	4340	2y6hSCS	9.4	209.26	210.13	209.72	210.14	0.001207	0.64	27.3	53.54	0.25
Chippewa	Upper	4340	100y4hChicago	24.1	209.26	211.32		211.33	0.000161	0.46	108.13	75.66	0.11
Chippewa	Upper	4340	2yrFlow100yrLake	9.4	209.26	210.13	209.72	210.14	0.001207	0.64	27.3	53.54	0.25
Chippewa	Upper	4261.99	Timmins	85.5	208.78	213.03		213.04	0.000109	0.63	335.53	131.93	0.1
Chippewa	Upper	4261.99	100y6hSCS	28.7	208.78	211.67		211.67	0.000091	0.44	159.83	123.36	0.09
Chippewa	Upper	4261.99	50y6hSCS	25	208.78	211.38		211.39	0.000103	0.44	126.9	100.54	0.09
Chippewa	Upper	4261.99	25y6hSCS	21.4	208.78	211.1		211.11	0.000132	0.46	101.6	84.13	0.1
Chippewa	Upper	4261.99	10y6hSCS	17	208.78	210.74		210.74	0.000197	0.5	73.05	75.74	0.12
Chippewa	Upper	4261.99	5y6hSCS	13.8	208.78	210.47		210.48	0.000284	0.54	53.21	70.95	0.14
Chippewa	Upper	4261.99	2y6hSCS	9.4	208.78	210.07		210.08	0.00049	0.58	28.25	50.29	0.17

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	4261.99	100y4hChicago	24.1	208.78	211.31		211.32	0.000109	0.44	120.24	90.99	0.09
Chippewa	Upper	4261.99	2yrFlow100yrLake	9.4	208.78	210.07		210.08	0.00049	0.58	28.25	50.29	0.17
Chippewa	Upper	4196	Timmins	85.5	208.55	213.01		213.03	0.000174	0.8	224.15	79.32	0.13
Chippewa	Upper	4196	100y6hSCS	28.7	208.55	211.66		211.67	0.000101	0.47	122.61	70	0.09
Chippewa	Upper	4196	50y6hSCS	25	208.55	211.37		211.38	0.000124	0.48	102.63	69.08	0.1
Chippewa	Upper	4196	25y6hSCS	21.4	208.55	211.09		211.1	0.000157	0.5	82.95	67.86	0.11
Chippewa	Upper	4196	10y6hSCS	17	208.55	210.72		210.73	0.000222	0.53	58.91	59.19	0.12
Chippewa	Upper	4196	5y6hSCS	13.8	208.55	210.44		210.46	0.000297	0.55	43.24	54.34	0.14
Chippewa	Upper	4196	2y6hSCS	9.4	208.55	210.03		210.05	0.000497	0.58	24.33	39.38	0.17
Chippewa	Upper	4196	100y4hChicago	24.1	208.55	211.3		211.31	0.000131	0.49	97.74	68.75	0.1
Chippewa	Upper	4196	2yrFlow100yrLake	9.4	208.55	210.03		210.05	0.000497	0.58	24.33	39.38	0.17
Chippewa	Upper	4118.946	Timmins	85.5	208.2	212.98		213.01	0.000216	0.94	174.71	60.86	0.14
Chippewa	Upper	4118.946	100y6hSCS	28.7	208.2	211.65		211.66	0.000108	0.52	98.37	53.61	0.09
Chippewa	Upper	4118.946	50y6hSCS	25	208.2	211.36		211.37	0.000124	0.53	83.2	51.45	0.1
Chippewa	Upper	4118.946	25y6hSCS	21.4	208.2	211.07		211.08	0.000135	0.51	69.34	45.17	0.1
Chippewa	Upper	4118.946	10y6hSCS	17	208.2	210.7		210.72	0.000163	0.51	52.99	43.09	0.11
Chippewa	Upper	4118.946	5y6hSCS	13.8	208.2	210.43		210.44	0.000185	0.49	41.55	38.54	0.11
Chippewa	Upper	4118.946	2y6hSCS	9.4	208.2	210.01		210.02	0.000222	0.46	27.53	30.75	0.12
Chippewa	Upper	4118.946	100y4hChicago	24.1	208.2	211.29		211.3	0.000127	0.52	79.58	50.11	0.1
Chippewa	Upper	4118.946	2yrFlow100yrLake	9.4	208.2	210.01		210.02	0.000222	0.46	27.53	30.75	0.12
Chippewa	Upper	3977.845	Timmins	85.5	207.63	212.98		212.99	0.000073	0.6	294.16	86.64	0.09
Chippewa	Upper	3977.845	100y6hSCS	28.7	207.63	211.65		211.65	0.000028	0.3	183.65	72.96	0.05
Chippewa	Upper	3977.845	50y6hSCS	25	207.63	211.36		211.36	0.000029	0.29	163.01	70.45	0.05
Chippewa	Upper	3977.845	25y6hSCS	21.4	207.63	211.07		211.07	0.00003	0.28	143.13	66.99	0.05
Chippewa	Upper	3977.845	10y6hSCS	17	207.63	210.7		210.7	0.000031	0.26	119.35	62.65	0.05
Chippewa	Upper	3977.845	5y6hSCS	13.8	207.63	210.42		210.43	0.000031	0.25	102.06	61.64	0.05
Chippewa	Upper	3977.845	2y6hSCS	9.4	207.63	210.01		210.01	0.000031	0.22	77.09	59.14	0.05
Chippewa	Upper	3977.845	100y4hChicago	24.1	207.63	211.29		211.29	0.00003	0.29	158.02	69.71	0.05
Chippewa	Upper	3977.845	2yrFlow100yrLake	9.4	207.63	210.01		210.01	0.000031	0.22	77.09	59.14	0.05
Chippewa	Upper	3867.183	Timmins	85.5	207.14	212.97		212.98	0.000091	0.72	287.65	141.69	0.1
Chippewa	Upper	3867.183	100y6hSCS	28.7	207.14	211.64		211.65	0.000033	0.37	177.47	72.68	0.06
Chippewa	Upper	3867.183	50y6hSCS	25	207.14	211.36		211.36	0.000032	0.34	158.1	61.35	0.05
Chippewa	Upper	3867.183	25y6hSCS	21.4	207.14	211.07		211.07	0.000031	0.32	140.91	58.4	0.05
Chippewa	Upper	3867.183	10y6hSCS	17	207.14	210.7		210.7	0.000028	0.28	120.91	50.52	0.05
Chippewa	Upper	3867.183	5y6hSCS	13.8	207.14	210.42		210.42	0.000025	0.26	107.19	48.35	0.05
Chippewa	Upper	3867.183	2y6hSCS	9.4	207.14	210.01		210.01	0.000021	0.21	87.82	45.43	0.04
Chippewa	Upper	3867.183	100y4hChicago	24.1	207.14	211.28		211.29	0.000032	0.34	153.77	60.43	0.05
Chippewa	Upper	3867.183	2yrFlow100yrLake	9.4	207.14	210.01		210.01	0.000021	0.21	87.82	45.43	0.04
Chippewa	Upper	3786.749	Timmins	85.5	206.83	212.97		212.97	0.000041	0.51	475.31	188.93	0.07
Chippewa	Upper	3786.749	100y6hSCS	28.7	206.83	211.64		211.65	0.000018	0.28	242.95	112.76	0.04
Chippewa	Upper	3786.749	50y6hSCS	25	206.83	211.35		211.36	0.000019	0.28	213.69	95.42	0.04
Chippewa	Upper	3786.749	25y6hSCS	21.4	206.83	211.07		211.07	0.000019	0.27	186.4	93.97	0.04
Chippewa	Upper	3786.749	10y6hSCS	17	206.83	210.7		210.7	0.00002	0.26	151.96	92.51	0.04
Chippewa	Upper	3786.749	5y6hSCS	13.8	206.83	210.42		210.42	0.000018	0.23	127.17	85.48	0.04
Chippewa	Upper	3786.749	2y6hSCS	9.4	206.83	210.01		210.01	0.000014	0.19	95.31	68.66	0.03
Chippewa	Upper	3786.749	100y4hChicago	24.1	206.83	211.28		211.29	0.000019	0.27	206.9	95.1	0.04
Chippewa	Upper	3786.749	2yrFlow100yrLake	9.4	206.83	210.01		210.01	0.000014	0.19	95.31	68.66	0.03
Chippewa	Upper	3779.919	Timmins	85.5	206.77	212.96	211.3	212.97	0.00006	0.57	385.52	186.68	0.08
Chippewa	Upper	3779.919	100y6hSCS	28.7	206.77	211.42	209.26	211.62	0.001121	2.02	14.2	82.82	0.32
Chippewa	Upper	3779.919	50y6hSCS	25	206.77	211.16	209.09	211.34	0.001059	1.88	13.3	57.66	0.31
Chippewa	Upper	3779.919	25y6hSCS	21.4	206.77	210.9	208.92	211.05	0.00098	1.73	12.4	51.61	0.29
Chippewa	Upper	3779.919	10y6hSCS	17	206.77	210.57	208.7	210.69	0.000857	1.51	11.24	43.89	0.27
Chippewa	Upper	3779.919	5y6hSCS	13.8	206.77	210.32	208.53	210.41	0.000739	1.33	10.37	40.69	0.25
Chippewa	Upper	3779.919	2y6hSCS	9.4	206.77	209.95	208.26	210	0.000538	1.04	9.06	35.14	0.21
Chippewa	Upper	3779.919	100y4hChicago	24.1	206.77	211.09	209.05	211.27	0.001041	1.84	13.07	53.66	0.3
Chippewa	Upper	3779.919	2yrFlow100yrLake	9.4	206.77	209.95	208.26	210	0.000538	1.04	9.06	35.14	0.21
Chippewa	Upper	3762.735		Culvert									
Chippewa	Upper	3747.135	Timmins	85.5	208.13	212.6	212.6	212.61	0.000128	0.63	296.58	121.99	0.11
Chippewa	Upper	3747.135	100y6hSCS	28.7	208.13	210.53	210.53	211.48	0.015151	4.32	6.65	94.86	1
Chippewa	Upper	3747.135	50y6hSCS	25	208.13	210.36	210.36	211.23	0.015638	4.12	6.06	89.53	1
Chippewa	Upper	3747.135	25y6hSCS	21.4	208.13	210.19	210.19	210.97	0.016158	3.91	5.47	75.5	1
Chippewa	Upper	3747.135	10y6hSCS	17	208.13	209.97	209.97	210.64	0.016957	3.62	4.7	39.03	1
Chippewa	Upper	3747.135	5y6hSCS	13.8	208.13	209.8	209.8	210.38	0.017773	3.38	4.09	28.64	1

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	3747.135	2y6hSCS	9.4	208.13	209.53	209.53	209.98	0.019274	2.97	3.17	15.94	1
Chippewa	Upper	3747.135	100y4hChicago	24.1	208.13	210.32	210.32	211.17	0.015818	4.08	5.91	87.3	1
Chippewa	Upper	3747.135	2yrFlow100yrLake	9.4	208.13	209.53	209.53	209.98	0.019274	2.97	3.17	15.94	1
Chippewa	Upper	3732.886	Timmins	85.5	206.57	210.29	208.38	210.31	0.000275	0.87	216.59	113.5	0.15
Chippewa	Upper	3732.886	100y6hSCS	28.7	206.57	208.43	207.63	208.48	0.001256	1.08	40.76	55.35	0.28
Chippewa	Upper	3732.886	50y6hSCS	25	206.57	207.03	207.55	209.96	0.521786	7.58	3.3	11.18	4.46
Chippewa	Upper	3732.886	25y6hSCS	21.4	206.57	207	207.46	209.72	0.547896	7.31	2.93	10.92	4.5
Chippewa	Upper	3732.886	10y6hSCS	17	206.57	206.95	207.36	209.4	0.588063	6.93	2.45	10.49	4.57
Chippewa	Upper	3732.886	5y6hSCS	13.8	206.57	206.92	207.27	209.14	0.623645	6.61	2.09	10.04	4.63
Chippewa	Upper	3732.886	2y6hSCS	9.4	206.57	206.86	207.15	208.74	0.734179	6.07	1.55	9.6	4.83
Chippewa	Upper	3732.886	100y4hChicago	24.1	206.57	207.02	207.52	209.9	0.527581	7.51	3.21	11.12	4.47
Chippewa	Upper	3732.886	2yrFlow100yrLake	9.4	206.57	206.86	207.15	208.74	0.734179	6.07	1.55	9.6	4.83
Chippewa	Upper	3612.138	Timmins	85.5	206.17	210.2		210.27	0.00069	1.24	116.7	90.57	0.23
Chippewa	Upper	3612.138	100y6hSCS	28.7	206.17	208.2		208.3	0.002047	1.35	21.2	14.29	0.35
Chippewa	Upper	3612.138	50y6hSCS	25	206.17	208.01	207.24	208.1	0.002308	1.35	18.47	13.68	0.37
Chippewa	Upper	3612.138	25y6hSCS	21.4	206.17	207.82	207.15	207.91	0.002554	1.34	15.97	13.02	0.39
Chippewa	Upper	3612.138	10y6hSCS	17	206.17	207.59	207.04	207.68	0.002874	1.3	13.11	12.35	0.4
Chippewa	Upper	3612.138	5y6hSCS	13.8	206.17	207.43	206.94	207.5	0.003114	1.25	11.07	11.83	0.41
Chippewa	Upper	3612.138	2y6hSCS	9.4	206.17	207.17	206.79	207.24	0.003644	1.16	8.14	11.1	0.43
Chippewa	Upper	3612.138	100y4hChicago	24.1	206.17	207.96	207.22	208.05	0.002368	1.35	17.84	13.52	0.38
Chippewa	Upper	3612.138	2yrFlow100yrLake	9.4	206.17	207.17	206.79	207.24	0.003644	1.16	8.14	11.1	0.43
Chippewa	Upper	3607.865	Timmins	85.5	206.06	210.17	208.82	210.26	0.000999	1.47	101.13	91.2	0.27
Chippewa	Upper	3607.865	100y6hSCS	28.7	206.06	207.91	207.43	208.26	0.005464	2.61	11.01	11.6	0.62
Chippewa	Upper	3607.865	50y6hSCS	25	206.06	207.74	207.32	208.06	0.005782	2.51	9.97	10.54	0.63
Chippewa	Upper	3607.865	25y6hSCS	21.4	206.06	207.59	207.2	207.88	0.005915	2.37	9.02	10.07	0.63
Chippewa	Upper	3607.865	10y6hSCS	17	206.06	207.41	207.05	207.65	0.005715	2.14	7.94	9.66	0.6
Chippewa	Upper	3607.865	5y6hSCS	13.8	206.06	207.29	206.93	207.48	0.005339	1.93	7.15	9.38	0.57
Chippewa	Upper	3607.865	2y6hSCS	9.4	206.06	207.08	206.75	207.21	0.00476	1.6	5.88	8.97	0.52
Chippewa	Upper	3607.865	100y4hChicago	24.1	206.06	207.7	207.29	208.02	0.005828	2.48	9.73	10.39	0.63
Chippewa	Upper	3607.865	2yrFlow100yrLake	9.4	206.06	207.08	206.75	207.21	0.00476	1.6	5.88	8.97	0.52
Chippewa	Upper	3594.852		Culvert									
Chippewa	Upper	3579.752	Timmins	85.5	205.99	208.7	208.7	210.04	0.011992	5.12	16.69	13.55	1
Chippewa	Upper	3579.752	100y6hSCS	28.7	205.99	207.42	207.3	207.97	0.011624	3.28	8.75	9.2	0.88
Chippewa	Upper	3579.752	50y6hSCS	25	205.99	207.37	207.19	207.82	0.009866	2.95	8.46	9.14	0.81
Chippewa	Upper	3579.752	25y6hSCS	21.4	205.99	207.32	207.07	207.67	0.008165	2.62	8.16	9.04	0.73
Chippewa	Upper	3579.752	10y6hSCS	17	205.99	207.25	206.92	207.5	0.006223	2.2	7.71	8.89	0.63
Chippewa	Upper	3579.752	5y6hSCS	13.8	205.99	207.18	206.81	207.36	0.005004	1.9	7.26	8.75	0.56
Chippewa	Upper	3579.752	2y6hSCS	9.4	205.99	207.03	206.62	207.14	0.003676	1.49	6.33	8.44	0.47
Chippewa	Upper	3579.752	100y4hChicago	24.1	205.99	207.36	207.16	207.78	0.009435	2.87	8.39	9.11	0.79
Chippewa	Upper	3579.752	2yrFlow100yrLake	9.4	205.99	207.03	206.62	207.14	0.003676	1.49	6.33	8.44	0.47
Chippewa	Upper	3572.53	Timmins	85.5	205.82	207.79	208.39	209.7	0.053175	6.13	13.95	10.62	1.69
Chippewa	Upper	3572.53	100y6hSCS	28.7	205.82	207.38	207.3	207.81	0.016232	2.91	9.87	9.41	0.91
Chippewa	Upper	3572.53	50y6hSCS	25	205.82	207.33		207.69	0.014087	2.65	9.42	9.29	0.84
Chippewa	Upper	3572.53	25y6hSCS	21.4	205.82	207.28		207.57	0.011865	2.38	8.99	9.18	0.77
Chippewa	Upper	3572.53	10y6hSCS	17	205.82	207.21		207.43	0.009082	2.03	8.37	8.9	0.67
Chippewa	Upper	3572.53	5y6hSCS	13.8	205.82	207.15		207.31	0.007222	1.77	7.78	8.51	0.59
Chippewa	Upper	3572.53	2y6hSCS	9.4	205.82	207		207.1	0.005707	1.44	6.53	8.29	0.52
Chippewa	Upper	3572.53	100y4hChicago	24.1	205.82	207.32		207.66	0.013542	2.59	9.31	9.27	0.82
Chippewa	Upper	3572.53	2yrFlow100yrLake	9.4	205.82	207		207.1	0.005707	1.44	6.53	8.29	0.52
Chippewa	Upper	3511.007	Timmins	85.5	205.5	208.44	207.49	208.52	0.00165	1.73	103.54	61.72	0.35
Chippewa	Upper	3511.007	100y6hSCS	28.7	205.5	207.34		207.41	0.002457	1.44	39.84	54.08	0.39
Chippewa	Upper	3511.007	50y6hSCS	25	205.5	207.22		207.29	0.002824	1.46	33.46	52.65	0.41
Chippewa	Upper	3511.007	25y6hSCS	21.4	205.5	207.09		207.17	0.00345	1.5	26.7	51.48	0.44
Chippewa	Upper	3511.007	10y6hSCS	17	205.5	206.91		207.02	0.004765	1.58	18.3	42.51	0.51
Chippewa	Upper	3511.007	5y6hSCS	13.8	205.5	206.78	206.49	206.9	0.006022	1.64	12.83	38.79	0.56
Chippewa	Upper	3511.007	2y6hSCS	9.4	205.5	206.56	206.33	206.69	0.007752	1.63	5.85	15.18	0.62
Chippewa	Upper	3511.007	100y4hChicago	24.1	205.5	207.19		207.27	0.002946	1.46	31.85	52.45	0.42
Chippewa	Upper	3511.007	2yrFlow100yrLake	9.4	205.5	206.56	206.33	206.69	0.007752	1.63	5.85	15.18	0.62
Chippewa	Upper	3396.804	Timmins	85.5	204.9	208.07		208.27	0.002778	2.3	64.65	42.76	0.44
Chippewa	Upper	3396.804	100y6hSCS	28.7	204.9	206.97		207.11	0.002823	1.67	21.3	33.39	0.41
Chippewa	Upper	3396.804	50y6hSCS	25	204.9	206.84		206.97	0.002963	1.61	17.16	25.37	0.41
Chippewa	Upper	3396.804	25y6hSCS	21.4	204.9	206.69		206.81	0.003074	1.54	14.16	13.87	0.41
Chippewa	Upper	3396.804	10y6hSCS	17	204.9	206.49		206.59	0.003107	1.43	11.92	9.6	0.41

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	3396.804	5y6hSCS	13.8	204.9	206.33		206.42	0.003072	1.33	10.41	9.41	0.4
Chippewa	Upper	3396.804	2y6hSCS	9.4	204.9	206.07		206.14	0.003088	1.17	8.06	9.09	0.4
Chippewa	Upper	3396.804	100y4hChicago	24.1	204.9	206.8		206.93	0.002993	1.6	16.28	24.91	0.41
Chippewa	Upper	3396.804	2yrFlow100yrLake	9.4	204.9	206.07		206.14	0.003088	1.17	8.06	9.09	0.4
Chippewa	Upper	3289.525	Timmins	85.5	204.59	207.88		208.02	0.001978	1.96	113.24	179.78	0.37
Chippewa	Upper	3289.525	100y6hSCS	28.7	204.59	206.69		206.82	0.00263	1.58	22.97	29.95	0.39
Chippewa	Upper	3289.525	50y6hSCS	25	204.59	206.52		206.65	0.003014	1.58	18.07	25.87	0.41
Chippewa	Upper	3289.525	25y6hSCS	21.4	204.59	206.35		206.47	0.003181	1.55	14.29	18.17	0.42
Chippewa	Upper	3289.525	10y6hSCS	17	204.59	206.15		206.26	0.003084	1.43	11.89	9.44	0.41
Chippewa	Upper	3289.525	5y6hSCS	13.8	204.59	206.01		206.1	0.002908	1.31	10.53	9.21	0.39
Chippewa	Upper	3289.525	2y6hSCS	9.4	204.59	205.77		205.83	0.002726	1.13	8.34	8.9	0.37
Chippewa	Upper	3289.525	100y4hChicago	24.1	204.59	206.48		206.6	0.003078	1.58	17.03	24.46	0.41
Chippewa	Upper	3289.525	2yrFlow100yrLake	9.4	204.59	205.77		205.83	0.002726	1.13	8.34	8.9	0.37
Chippewa	Upper	3286.639	Timmins	85.5	204.74	207.68	207.53	207.99	0.004992	2.69	65.67	155.15	0.57
Chippewa	Upper	3286.639	100y6hSCS	28.7	204.74	206.4	206.09	206.78	0.007523	2.71	10.6	9.84	0.7
Chippewa	Upper	3286.639	50y6hSCS	25	204.74	206.27	205.98	206.61	0.007786	2.59	9.66	9.47	0.7
Chippewa	Upper	3286.639	25y6hSCS	21.4	204.74	206.13	205.88	206.44	0.008065	2.46	8.7	9.15	0.7
Chippewa	Upper	3286.639	10y6hSCS	17	204.74	205.97	205.73	206.23	0.008064	2.24	7.58	8.93	0.69
Chippewa	Upper	3286.639	5y6hSCS	13.8	204.74	205.86	205.62	206.07	0.00767	2.03	6.79	8.75	0.66
Chippewa	Upper	3286.639	2y6hSCS	9.4	204.74	205.65	205.46	205.81	0.008041	1.77	5.32	8.38	0.65
Chippewa	Upper	3286.639	100y4hChicago	24.1	204.74	206.24	205.95	206.57	0.007854	2.56	9.42	9.37	0.7
Chippewa	Upper	3286.639	2yrFlow100yrLake	9.4	204.74	205.65	205.46	205.81	0.008041	1.77	5.32	8.38	0.65
Chippewa	Upper	3271.484	Culvert										
Chippewa	Upper	3262.384	Timmins	85.5	204.49	207.72	207.72	207.98	0.0045	2.54	84.62	200.5	0.51
Chippewa	Upper	3262.384	100y6hSCS	28.7	204.49	206.12	206.12	206.72	0.016395	3.42	8.39	9.45	1
Chippewa	Upper	3262.384	50y6hSCS	25	204.49	206.01	206.01	206.56	0.016981	3.27	7.64	9.36	1
Chippewa	Upper	3262.384	25y6hSCS	21.4	204.49	205.92	205.9	206.4	0.016867	3.07	6.98	9.28	0.98
Chippewa	Upper	3262.384	10y6hSCS	17	204.49	205.85	205.77	206.2	0.013512	2.62	6.49	9.09	0.87
Chippewa	Upper	3262.384	5y6hSCS	13.8	204.49	205.78	205.66	206.05	0.011757	2.31	5.97	8.83	0.8
Chippewa	Upper	3262.384	2y6hSCS	9.4	204.49	205.59	205.49	205.8	0.012528	2.02	4.66	8.35	0.79
Chippewa	Upper	3262.384	100y4hChicago	24.1	204.49	205.99	205.99	206.52	0.017246	3.24	7.44	9.34	1
Chippewa	Upper	3262.384	2yrFlow100yrLake	9.4	204.49	205.59	205.49	205.8	0.012528	2.02	4.66	8.35	0.79
Chippewa	Upper	3256.458	Timmins	85.5	204.45	206.33	206.73	207.61	0.041853	5.02	17.31	19.75	1.54
Chippewa	Upper	3256.458	100y6hSCS	28.7	204.45	205.48	205.85	206.45	0.046453	4.36	6.58	7.88	1.52
Chippewa	Upper	3256.458	50y6hSCS	25	204.45	206.1	205.71	206.28	0.00701	1.85	13.51	14.5	0.61
Chippewa	Upper	3256.458	25y6hSCS	21.4	204.45	206.02		206.18	0.006469	1.73	12.4	13.91	0.58
Chippewa	Upper	3256.458	10y6hSCS	17	204.45	205.91		206.04	0.00572	1.56	10.9	12.95	0.54
Chippewa	Upper	3256.458	5y6hSCS	13.8	204.45	205.81		205.92	0.005227	1.43	9.68	12.26	0.51
Chippewa	Upper	3256.458	2y6hSCS	9.4	204.45	205.62		205.69	0.003315	1.22	7.71	8.62	0.41
Chippewa	Upper	3256.458	100y4hChicago	24.1	204.45	206.08	205.66	206.25	0.006864	1.82	13.24	14.33	0.6
Chippewa	Upper	3256.458	2yrFlow100yrLake	9.4	204.45	205.62		205.69	0.003315	1.22	7.71	8.62	0.41
Chippewa	Upper	3158.688	Timmins	85.5	203.98	206.7	206.13	206.76	0.001322	1.48	154.26	162.05	0.31
Chippewa	Upper	3158.688	100y6hSCS	28.7	203.98	206.05	205.15	206.1	0.001076	1.08	59.22	111.36	0.26
Chippewa	Upper	3158.688	50y6hSCS	25	203.98	205.98		206.02	0.001064	1.04	51.03	98.85	0.26
Chippewa	Upper	3158.688	25y6hSCS	21.4	203.98	205.89		205.93	0.001045	1	42.88	92.86	0.25
Chippewa	Upper	3158.688	10y6hSCS	17	203.98	205.78		205.82	0.000984	0.92	32.98	84.19	0.24
Chippewa	Upper	3158.688	5y6hSCS	13.8	203.98	205.69		205.72	0.000905	0.85	25.55	77.17	0.23
Chippewa	Upper	3158.688	2y6hSCS	9.4	203.98	205.52		205.55	0.000722	0.7	15.56	42.4	0.2
Chippewa	Upper	3158.688	100y4hChicago	24.1	203.98	205.96		206	0.001066	1.03	48.94	97.91	0.26
Chippewa	Upper	3158.688	2yrFlow100yrLake	9.4	203.98	205.52		205.55	0.000722	0.7	15.56	42.4	0.2
Chippewa	Upper	3070.627	Timmins	85.5	203.96	206.5		206.6	0.003106	1.99	122.5	171.16	0.46
Chippewa	Upper	3070.627	100y6hSCS	28.7	203.96	205.89		205.96	0.002676	1.43	40.13	75.39	0.4
Chippewa	Upper	3070.627	50y6hSCS	25	203.96	205.81		205.88	0.002679	1.38	35.11	64.23	0.4
Chippewa	Upper	3070.627	25y6hSCS	21.4	203.96	205.73		205.8	0.002805	1.34	29.57	61.88	0.4
Chippewa	Upper	3070.627	10y6hSCS	17	203.96	205.61		205.68	0.002955	1.28	22.63	58.85	0.4
Chippewa	Upper	3070.627	5y6hSCS	13.8	203.96	205.53		205.59	0.002917	1.2	17.78	53.22	0.39
Chippewa	Upper	3070.627	2y6hSCS	9.4	203.96	205.39		205.44	0.002547	1.04	11.83	32.52	0.36
Chippewa	Upper	3070.627	100y4hChicago	24.1	203.96	205.79		205.86	0.002721	1.37	33.66	63.57	0.4
Chippewa	Upper	3070.627	2yrFlow100yrLake	9.4	203.96	205.39		205.44	0.002547	1.04	11.83	32.52	0.36
Chippewa	Upper	3029	Timmins	85.5	204.17	206.37		206.47	0.003346	2.01	121.93	182.61	0.48
Chippewa	Upper	3029	100y6hSCS	28.7	204.17	205.78		205.85	0.002836	1.41	40.47	70.62	0.41
Chippewa	Upper	3029	50y6hSCS	25	204.17	205.7		205.77	0.002967	1.37	34.96	68.18	0.42
Chippewa	Upper	3029	25y6hSCS	21.4	204.17	205.6		205.67	0.003401	1.38	28.58	59.31	0.44

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	3029	10y6hSCS	17	204.17	205.46		205.54	0.004127	1.38	21.15	50.01	0.47
Chippewa	Upper	3029	5y6hSCS	13.8	204.17	205.35		205.43	0.004931	1.38	15.96	46.44	0.51
Chippewa	Upper	3029	2y6hSCS	9.4	204.17	205.18		205.27	0.006697	1.35	9.11	35.62	0.57
Chippewa	Upper	3029	100y4hChicago	24.1	204.17	205.67		205.74	0.003088	1.38	33.17	64.73	0.43
Chippewa	Upper	3029	2yrFlow100yrLake	9.4	204.17	205.18		205.27	0.006697	1.35	9.11	35.62	0.57
Chippewa	Upper	2983.151	Timmins	85.5	203.68	206	206	206.24	0.006846	2.77	86.12	178.5	0.67
Chippewa	Upper	2983.151	100y6hSCS	28.7	203.68	205.25	205.25	205.58	0.012689	2.59	14.1	33.4	0.83
Chippewa	Upper	2983.151	50y6hSCS	25	203.68	205.14	205.09	205.48	0.014867	2.62	10.68	23.69	0.89
Chippewa	Upper	2983.151	25y6hSCS	21.4	203.68	205.07	204.99	205.37	0.013698	2.42	9.41	15.33	0.84
Chippewa	Upper	2983.151	10y6hSCS	17	203.68	205		205.23	0.011153	2.1	8.49	13.03	0.75
Chippewa	Upper	2983.151	5y6hSCS	13.8	203.68	204.93		205.11	0.010028	1.89	7.51	12.43	0.7
Chippewa	Upper	2983.151	2y6hSCS	9.4	203.68	204.77		204.91	0.009294	1.63	5.76	9.79	0.66
Chippewa	Upper	2983.151	100y4hChicago	24.1	203.68	205.12	205.07	205.45	0.014298	2.55	10.44	23.32	0.87
Chippewa	Upper	2983.151	2yrFlow100yrLake	9.4	203.68	204.77		204.91	0.009294	1.63	5.76	9.79	0.66
Chippewa	Upper	2945.172	Timmins	85.5	203.4	205.82	205.21	205.84	0.001256	1.25	237.33	337.91	0.28
Chippewa	Upper	2945.172	100y6hSCS	28.7	203.4	205.36	204.74	205.37	0.000662	0.77	117.19	219.64	0.2
Chippewa	Upper	2945.172	50y6hSCS	25	203.4	205.23		205.25	0.00093	0.86	89.82	198.65	0.23
Chippewa	Upper	2945.172	25y6hSCS	21.4	203.4	205.08		205.11	0.001452	1	62.74	166.68	0.28
Chippewa	Upper	2945.172	10y6hSCS	17	203.4	204.91		204.95	0.002405	1.16	36.51	129.23	0.35
Chippewa	Upper	2945.172	5y6hSCS	13.8	203.4	204.77		204.82	0.003137	1.22	22.61	61.38	0.39
Chippewa	Upper	2945.172	2y6hSCS	9.4	203.4	204.57		204.63	0.003814	1.2	13.64	34.41	0.42
Chippewa	Upper	2945.172	100y4hChicago	24.1	203.4	205.2		205.22	0.001022	0.89	83.39	191.93	0.24
Chippewa	Upper	2945.172	2yrFlow100yrLake	9.4	203.4	204.57		204.63	0.003814	1.2	13.64	34.41	0.42
Chippewa	Upper	2881.083	Timmins	85.5	203.35	205.76		205.77	0.000473	0.85	301.05	262.9	0.18
Chippewa	Upper	2881.083	100y6hSCS	28.7	203.35	205.34		205.34	0.000171	0.45	196.98	239.81	0.11
Chippewa	Upper	2881.083	50y6hSCS	25	203.35	205.2		205.21	0.000213	0.47	164.7	236	0.12
Chippewa	Upper	2881.083	25y6hSCS	21.4	203.35	205.04		205.05	0.000302	0.53	127.77	230.54	0.14
Chippewa	Upper	2881.083	10y6hSCS	17	203.35	204.85		204.86	0.000447	0.58	84.87	214.04	0.16
Chippewa	Upper	2881.083	5y6hSCS	13.8	203.35	204.71		204.72	0.000547	0.6	60.15	138.66	0.18
Chippewa	Upper	2881.083	2y6hSCS	9.4	203.35	204.48		204.49	0.000764	0.61	34.22	97.19	0.2
Chippewa	Upper	2881.083	100y4hChicago	24.1	203.35	205.17		205.17	0.000226	0.48	156.64	234.55	0.12
Chippewa	Upper	2881.083	2yrFlow100yrLake	9.4	203.35	204.48		204.49	0.000764	0.61	34.22	97.19	0.2
Chippewa	Upper	2878.511	Timmins	85.5	203.35	205.76	205.1	205.76	0.00048	0.83	299.05	260.69	0.18
Chippewa	Upper	2878.511	100y6hSCS	28.7	203.35	205.34	204.81	205.34	0.000178	0.44	195.2	240.4	0.11
Chippewa	Upper	2878.511	50y6hSCS	25	203.35	205.2	204.64	205.21	0.000223	0.46	162.83	236.42	0.12
Chippewa	Upper	2878.511	25y6hSCS	21.4	203.35	204.82	204.55	205.03	0.006514	2.09	13.77	188.32	0.61
Chippewa	Upper	2878.511	10y6hSCS	17	203.35	204.62	204.42	204.84	0.008166	2.07	9.3	118.17	0.66
Chippewa	Upper	2878.511	5y6hSCS	13.8	203.35	204.51	204.31	204.7	0.008214	1.92	7.87	98.33	0.65
Chippewa	Upper	2878.511	2y6hSCS	9.4	203.35	204.34	204.14	204.48	0.008006	1.64	5.96	44.5	0.62
Chippewa	Upper	2878.511	100y4hChicago	24.1	203.35	205.17	204.62	205.17	0.000237	0.47	154.74	234.88	0.12
Chippewa	Upper	2878.511	2yrFlow100yrLake	9.4	203.35	204.34	204.14	204.48	0.008006	1.64	5.96	44.5	0.62
Chippewa	Upper	2873.769	Bridge										
Chippewa	Upper	2869.269	Timmins	85.5	203.24	205.75	204.85	205.76	0.00035	0.73	324.87	261.72	0.16
Chippewa	Upper	2869.269	100y6hSCS	28.7	203.24	204.89	204.53	204.9	0.000605	0.69	116.22	221.77	0.19
Chippewa	Upper	2869.269	50y6hSCS	25	203.24	204.7	204.45	204.94	0.007367	2.15	12.33	167.89	0.65
Chippewa	Upper	2869.269	25y6hSCS	21.4	203.24	204.61	204.36	204.82	0.007315	2.02	11.07	148.56	0.64
Chippewa	Upper	2869.269	10y6hSCS	17	203.24	204.48	204.23	204.65	0.007445	1.86	9.39	125.55	0.63
Chippewa	Upper	2869.269	5y6hSCS	13.8	203.24	204.35	204.13	204.51	0.008415	1.78	7.8	76.51	0.66
Chippewa	Upper	2869.269	2y6hSCS	9.4	203.24	204.13	203.96	204.27	0.009307	1.66	5.66	39.92	0.67
Chippewa	Upper	2869.269	100y4hChicago	24.1	203.24	204.69	204.43	204.91	0.007185	2.11	12.12	160.91	0.65
Chippewa	Upper	2869.269	2yrFlow100yrLake	9.4	203.24	204.13	203.96	204.27	0.009307	1.66	5.66	39.92	0.67
Chippewa	Upper	2865.494	Timmins	85.5	203.24	205.75		205.76	0.000333	0.7	328.58	261.31	0.15
Chippewa	Upper	2865.494	100y6hSCS	28.7	203.24	204.89		204.9	0.000541	0.63	122.12	221.47	0.18
Chippewa	Upper	2865.494	50y6hSCS	25	203.24	204.81		204.82	0.000597	0.64	104.06	219.56	0.19
Chippewa	Upper	2865.494	25y6hSCS	21.4	203.24	204.7		204.71	0.000675	0.64	81.8	173.76	0.2
Chippewa	Upper	2865.494	10y6hSCS	17	203.24	204.55		204.56	0.000884	0.66	58.12	147.74	0.22
Chippewa	Upper	2865.494	5y6hSCS	13.8	203.24	204.41		204.42	0.001103	0.67	40.09	104.84	0.24
Chippewa	Upper	2865.494	2y6hSCS	9.4	203.24	204.19		204.2	0.001292	0.66	25.35	44.98	0.25
Chippewa	Upper	2865.494	100y4hChicago	24.1	203.24	204.79		204.8	0.000612	0.64	99.61	218.96	0.19
Chippewa	Upper	2865.494	2yrFlow100yrLake	9.4	203.24	204.19		204.2	0.001292	0.66	25.35	44.98	0.25
Chippewa	Upper	2776.473	Timmins	85.5	203.13	205.73		205.73	0.000293	0.7	362.76	299.42	0.15
Chippewa	Upper	2776.473	100y6hSCS	28.7	203.13	204.87		204.87	0.0003	0.52	153.09	188.76	0.14
Chippewa	Upper	2776.473	50y6hSCS	25	203.13	204.78		204.79	0.000309	0.51	137.48	186.2	0.14

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Upper	2776.473	25y6hSCS	21.4	203.13	204.67		204.67	0.000354	0.52	116.95	181.72	0.15
Chippewa	Upper	2776.473	10y6hSCS	17	203.13	204.51		204.51	0.00047	0.55	88.27	175.68	0.16
Chippewa	Upper	2776.473	5y6hSCS	13.8	203.13	204.35		204.36	0.000739	0.62	61.24	159.69	0.2
Chippewa	Upper	2776.473	2y6hSCS	9.4	203.13	204.07		204.08	0.001856	0.78	29.44	84.48	0.3
Chippewa	Upper	2776.473	100y4hChicago	24.1	203.13	204.76		204.77	0.000311	0.51	133.64	185.65	0.14
Chippewa	Upper	2776.473	2yrFlow100yrLake	9.4	203.13	204.07		204.08	0.001856	0.78	29.44	84.48	0.3
Chippewa	Upper	2650.342	Timmins	85.5	202.45	205.71		205.71	0.000122	0.5	478.99	297.87	0.1
Chippewa	Upper	2650.342	100y6hSCS	28.7	202.45	204.85		204.85	0.000104	0.36	236	268.36	0.08
Chippewa	Upper	2650.342	50y6hSCS	25	202.45	204.76		204.77	0.000104	0.35	213.63	266.98	0.08
Chippewa	Upper	2650.342	25y6hSCS	21.4	202.45	204.65		204.65	0.000111	0.35	183.78	252.75	0.08
Chippewa	Upper	2650.342	10y6hSCS	17	202.45	204.49		204.49	0.000132	0.35	143.63	227.85	0.09
Chippewa	Upper	2650.342	5y6hSCS	13.8	202.45	204.31		204.32	0.000184	0.39	106.34	205.37	0.1
Chippewa	Upper	2650.342	2y6hSCS	9.4	202.45	204		204	0.000316	0.43	55.79	126.34	0.13
Chippewa	Upper	2650.342	100y4hChicago	24.1	202.45	204.74		204.75	0.000103	0.35	208.1	265.83	0.08
Chippewa	Upper	2650.342	2yrFlow100yrLake	9.4	202.45	204		204	0.000316	0.43	55.79	126.34	0.13
Chippewa	Lower	2544.599	Timmins	115.6	202.21	205.58		205.67	0.001588	1.92	165.37	168.86	0.35
Chippewa	Lower	2544.599	100y6hSCS	40.6	202.21	204.74		204.81	0.001273	1.4	65.09	93.41	0.29
Chippewa	Lower	2544.599	50y6hSCS	35.4	202.21	204.66		204.73	0.001182	1.32	57.98	91.28	0.28
Chippewa	Lower	2544.599	25y6hSCS	30.3	202.21	204.56		204.61	0.001096	1.23	48.79	69.96	0.27
Chippewa	Lower	2544.599	10y6hSCS	24	202.21	204.4		204.45	0.001002	1.12	39.26	54.37	0.25
Chippewa	Lower	2544.599	5y6hSCS	19.5	202.21	204.22		204.27	0.000984	1.04	31.47	40.76	0.25
Chippewa	Lower	2544.599	2y6hSCS	13.1	202.21	203.9		203.94	0.001073	0.95	19.55	32	0.25
Chippewa	Lower	2544.599	100y4hChicago	33.9	202.21	204.65		204.71	0.001135	1.29	56.42	90.81	0.28
Chippewa	Lower	2544.599	2yrFlow100yrLake	13.1	202.21	203.9		203.94	0.001073	0.95	19.55	32	0.25
Chippewa	Lower	2451.545	Timmins	115.6	202.2	205.51		205.55	0.000862	1.39	220.82	146.87	0.26
Chippewa	Lower	2451.545	100y6hSCS	40.6	202.2	204.69		204.72	0.000609	0.94	108.42	115.08	0.21
Chippewa	Lower	2451.545	50y6hSCS	35.4	202.2	204.62		204.64	0.000561	0.88	100.12	111.45	0.2
Chippewa	Lower	2451.545	25y6hSCS	30.3	202.2	204.51		204.53	0.000552	0.84	88.47	105.78	0.19
Chippewa	Lower	2451.545	10y6hSCS	24	202.2	204.35		204.37	0.000553	0.8	71.91	98.97	0.19
Chippewa	Lower	2451.545	5y6hSCS	19.5	202.2	204.16		204.19	0.000671	0.82	54.18	91.78	0.21
Chippewa	Lower	2451.545	2y6hSCS	13.1	202.2	203.8		203.83	0.001153	0.9	24.96	58.27	0.26
Chippewa	Lower	2451.545	100y4hChicago	33.9	202.2	204.6		204.63	0.000536	0.86	98.43	109.85	0.19
Chippewa	Lower	2451.545	2yrFlow100yrLake	13.1	202.2	203.8		203.83	0.001153	0.9	24.96	58.27	0.26
Chippewa	Lower	2390.95	Timmins	115.6	202.04	205.47		205.5	0.000653	1.27	265.57	190.08	0.23
Chippewa	Lower	2390.95	100y6hSCS	40.6	202.04	204.67		204.69	0.00044	0.86	127	133.61	0.18
Chippewa	Lower	2390.95	50y6hSCS	35.4	202.04	204.59		204.61	0.000399	0.81	117.62	130.59	0.17
Chippewa	Lower	2390.95	25y6hSCS	30.3	202.04	204.49		204.5	0.000394	0.78	103.64	128.17	0.17
Chippewa	Lower	2390.95	10y6hSCS	24	202.04	204.32		204.34	0.000385	0.73	83.66	116.86	0.16
Chippewa	Lower	2390.95	5y6hSCS	19.5	202.04	204.13		204.15	0.000461	0.75	61.96	107.41	0.17
Chippewa	Lower	2390.95	2y6hSCS	13.1	202.04	203.75		203.78	0.000729	0.81	27.29	73.14	0.21
Chippewa	Lower	2390.95	100y4hChicago	33.9	202.04	204.58		204.6	0.00038	0.78	115.79	130.22	0.16
Chippewa	Lower	2390.95	2yrFlow100yrLake	13.1	202.04	203.75		203.78	0.000729	0.81	27.29	73.14	0.21
Chippewa	Lower	2388.51	Timmins	115.6	202.04	205.47	204.35	205.5	0.00066	1.28	264.65	191.41	0.23
Chippewa	Lower	2388.51	100y6hSCS	40.6	202.04	204.66	203.54	204.68	0.00045	0.87	126.01	135.05	0.18
Chippewa	Lower	2388.51	50y6hSCS	35.4	202.04	204.59	203.39	204.61	0.000409	0.81	116.58	131.98	0.17
Chippewa	Lower	2388.51	25y6hSCS	30.3	202.04	204.48	203.27	204.5	0.000405	0.78	102.47	129.09	0.17
Chippewa	Lower	2388.51	10y6hSCS	24	202.04	204.32	203.11	204.34	0.000391	0.73	82.73	115.97	0.16
Chippewa	Lower	2388.51	5y6hSCS	19.5	202.04	204.13	202.99	204.15	0.000466	0.75	61.48	104.78	0.18
Chippewa	Lower	2388.51	2y6hSCS	13.1	202.04	203.75	202.79	203.78	0.000756	0.81	27.17	73.3	0.22
Chippewa	Lower	2388.51	100y4hChicago	33.9	202.04	204.58	203.35	204.6	0.000389	0.79	114.74	131.49	0.17
Chippewa	Lower	2388.51	2yrFlow100yrLake	13.1	202.04	203.75	202.79	203.78	0.000756	0.81	27.17	73.3	0.22
Chippewa	Lower	2384.204	Bridge										
Chippewa	Lower	2380.204	Timmins	115.6	202.04	205.44	204.4	205.47	0.000813	1.36	251.8	193.52	0.25
Chippewa	Lower	2380.204	100y6hSCS	40.6	202.04	204.65	203.8	204.67	0.00053	0.9	118.23	123.06	0.19
Chippewa	Lower	2380.204	50y6hSCS	35.4	202.04	204.58	203.75	204.6	0.000481	0.84	110.03	120.65	0.18
Chippewa	Lower	2380.204	25y6hSCS	30.3	202.04	204.48	203.59	204.5	0.000476	0.81	97.43	116.85	0.18
Chippewa	Lower	2380.204	10y6hSCS	24	202.04	204.32	203.3	204.34	0.000491	0.77	79.12	112.94	0.18
Chippewa	Lower	2380.204	5y6hSCS	19.5	202.04	204.13	203.17	204.15	0.000561	0.77	59.06	93.45	0.19
Chippewa	Lower	2380.204	2y6hSCS	13.1	202.04	203.73	202.97	203.77	0.001121	0.91	26.63	72.4	0.26
Chippewa	Lower	2380.204	100y4hChicago	33.9	202.04	204.57	203.72	204.59	0.000457	0.81	108.43	120.35	0.18
Chippewa	Lower	2380.204	2yrFlow100yrLake	13.1	202.04	203.73	202.97	203.77	0.001121	0.91	26.63	72.4	0.26
Chippewa	Lower	2375.791	Timmins	115.6	202.05	205.43		205.47	0.000716	1.31	230.51	168.44	0.24
Chippewa	Lower	2375.791	100y6hSCS	40.6	202.05	204.65		204.67	0.000392	0.8	118.7	105.05	0.17

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	2375.791	50y6hSCS	35.4	202.05	204.58		204.6	0.000346	0.73	111.76	101.79	0.16
Chippewa	Lower	2375.791	25y6hSCS	30.3	202.05	204.48		204.49	0.000319	0.68	101.41	97.53	0.15
Chippewa	Lower	2375.791	10y6hSCS	24	202.05	204.32		204.33	0.000303	0.63	86	95.95	0.15
Chippewa	Lower	2375.791	5y6hSCS	19.5	202.05	204.13		204.14	0.000346	0.63	68.01	92.81	0.15
Chippewa	Lower	2375.791	2y6hSCS	13.1	202.05	203.73		203.76	0.000631	0.72	32.55	86.12	0.2
Chippewa	Lower	2375.791	100y4hChicago	33.9	202.05	204.57		204.58	0.000321	0.71	110.45	100.13	0.15
Chippewa	Lower	2375.791	2yrFlow100yrLake	13.1	202.05	203.73		203.76	0.000631	0.72	32.55	86.12	0.2
Chippewa	Lower	2280.026	Timmins	115.6	201.89	205.37		205.41	0.000677	1.32	258.99	274.2	0.23
Chippewa	Lower	2280.026	100y6hSCS	40.6	201.89	204.61		204.64	0.000372	0.82	124.59	133.44	0.17
Chippewa	Lower	2280.026	50y6hSCS	35.4	201.89	204.55		204.57	0.000328	0.75	116.19	131.78	0.15
Chippewa	Lower	2280.026	25y6hSCS	30.3	201.89	204.45		204.46	0.000313	0.72	102.6	128.59	0.15
Chippewa	Lower	2280.026	10y6hSCS	24	201.89	204.29		204.3	0.000303	0.67	82.53	123.82	0.15
Chippewa	Lower	2280.026	5y6hSCS	19.5	201.89	204.09		204.11	0.000337	0.66	59.48	109.76	0.15
Chippewa	Lower	2280.026	2y6hSCS	13.1	201.89	203.69		203.71	0.000459	0.66	29.07	45.69	0.17
Chippewa	Lower	2280.026	100y4hChicago	33.9	201.89	204.54		204.56	0.00031	0.73	114.69	131.54	0.15
Chippewa	Lower	2280.026	2yrFlow100yrLake	13.1	201.89	203.69		203.71	0.000459	0.66	29.07	45.69	0.17
Chippewa	Lower	2209.146	Timmins	115.6	201.75	205.36		205.37	0.000422	0.91	366.71	286.58	0.17
Chippewa	Lower	2209.146	100y6hSCS	40.6	201.75	204.6		204.61	0.000377	0.71	165.82	234.49	0.15
Chippewa	Lower	2209.146	50y6hSCS	35.4	201.75	204.53		204.55	0.000353	0.68	151.24	230.67	0.14
Chippewa	Lower	2209.146	25y6hSCS	30.3	201.75	204.43		204.44	0.00037	0.67	127.57	213.54	0.15
Chippewa	Lower	2209.146	10y6hSCS	24	201.75	204.27		204.28	0.00041	0.67	97.01	175.41	0.15
Chippewa	Lower	2209.146	5y6hSCS	19.5	201.75	204.06		204.08	0.000587	0.76	63.24	151.51	0.18
Chippewa	Lower	2209.146	2y6hSCS	13.1	201.75	203.62		203.66	0.001065	0.91	16.85	37.49	0.24
Chippewa	Lower	2209.146	100y4hChicago	33.9	201.75	204.52		204.53	0.000335	0.66	148.79	229.77	0.14
Chippewa	Lower	2209.146	2yrFlow100yrLake	13.1	201.75	203.62		203.66	0.001065	0.91	16.85	37.49	0.24
Chippewa	Lower	2206.984	Timmins	115.6	201.69	205.35	204.52	205.37	0.000435	0.96	362.08	293.63	0.17
Chippewa	Lower	2206.984	100y6hSCS	40.6	201.69	204.59	203.14	204.61	0.00037	0.75	160.23	233.62	0.15
Chippewa	Lower	2206.984	50y6hSCS	35.4	201.69	204.53	203.02	204.55	0.000343	0.71	145.76	230.65	0.14
Chippewa	Lower	2206.984	25y6hSCS	30.3	201.69	204.32	202.9	204.43	0.0011	1.47	20.64	170.63	0.29
Chippewa	Lower	2206.984	10y6hSCS	24	201.69	204.2	202.74	204.27	0.000814	1.22	19.65	154.9	0.25
Chippewa	Lower	2206.984	5y6hSCS	19.5	201.69	204.02	202.61	204.08	0.000694	1.07	18.2	139.18	0.23
Chippewa	Lower	2206.984	2y6hSCS	13.1	201.69	203.62	202.41	203.66	0.000604	0.88	14.94	33.13	0.21
Chippewa	Lower	2206.984	100y4hChicago	33.9	201.69	204.39	202.98	204.52	0.001257	1.6	21.22	185.38	0.32
Chippewa	Lower	2206.984	2yrFlow100yrLake	13.1	201.69	203.62	202.41	203.66	0.000604	0.88	14.94	33.13	0.21
Chippewa	Lower	2195.209		Culvert									
Chippewa	Lower	2183.809	Timmins	115.6	201.6	205.35	204.43	205.36	0.00042	0.94	357.44	281.95	0.16
Chippewa	Lower	2183.809	100y6hSCS	40.6	201.6	204.34	203.05	204.52	0.001727	1.89	21.53	196.18	0.37
Chippewa	Lower	2183.809	50y6hSCS	35.4	201.6	204.29	202.93	204.43	0.001401	1.68	21.12	191.66	0.33
Chippewa	Lower	2183.809	25y6hSCS	30.3	201.6	204.24	202.81	204.35	0.0011	1.46	20.68	186.45	0.29
Chippewa	Lower	2183.809	10y6hSCS	24	201.6	204.15	202.65	204.23	0.000772	1.2	20	169.46	0.24
Chippewa	Lower	2183.809	5y6hSCS	19.5	201.6	203.99	202.52	204.05	0.000636	1.04	18.71	136.22	0.22
Chippewa	Lower	2183.809	2y6hSCS	13.1	201.6	203.6	202.33	203.63	0.000536	0.84	15.52	53.14	0.19
Chippewa	Lower	2183.809	100y4hChicago	33.9	201.6	204.28	202.9	204.41	0.001308	1.61	21.01	191.11	0.32
Chippewa	Lower	2183.809	2yrFlow100yrLake	13.1	201.6	203.6	202.33	203.63	0.000536	0.84	15.52	53.14	0.19
Chippewa	Lower	2181.614	Timmins	115.6	201.61	205.35		205.36	0.000379	0.96	358.52	264.94	0.17
Chippewa	Lower	2181.614	100y6hSCS	40.6	201.61	204.42		204.44	0.000478	0.87	142.6	215.64	0.18
Chippewa	Lower	2181.614	50y6hSCS	35.4	201.61	204.35		204.37	0.000455	0.83	127.71	209.35	0.17
Chippewa	Lower	2181.614	25y6hSCS	30.3	201.61	204.28		204.3	0.000419	0.78	113.44	201.67	0.16
Chippewa	Lower	2181.614	10y6hSCS	24	201.61	204.18		204.2	0.000364	0.71	93.52	191.52	0.15
Chippewa	Lower	2181.614	5y6hSCS	19.5	201.61	204.01		204.03	0.000425	0.73	63.8	148.98	0.16
Chippewa	Lower	2181.614	2y6hSCS	13.1	201.61	203.6		203.63	0.000654	0.78	22.12	51.83	0.19
Chippewa	Lower	2181.614	100y4hChicago	33.9	201.61	204.33		204.35	0.000445	0.82	123.8	207.24	0.17
Chippewa	Lower	2181.614	2yrFlow100yrLake	13.1	201.61	203.6		203.63	0.000654	0.78	22.12	51.83	0.19
Chippewa	Lower	2048.803	Timmins	115.6	201.45	205.25		205.29	0.0008	1.35	283.5	261.3	0.24
Chippewa	Lower	2048.803	100y6hSCS	40.6	201.45	204.35		204.37	0.000537	0.89	107.86	104.99	0.19
Chippewa	Lower	2048.803	50y6hSCS	35.4	201.45	204.29		204.31	0.000472	0.82	101.41	102.17	0.18
Chippewa	Lower	2048.803	25y6hSCS	30.3	201.45	204.23		204.24	0.000398	0.74	95.32	97.82	0.16
Chippewa	Lower	2048.803	10y6hSCS	24	201.45	204.14		204.15	0.00031	0.63	86.68	92.58	0.14
Chippewa	Lower	2048.803	5y6hSCS	19.5	201.45	203.97		203.98	0.000319	0.61	71.65	80.72	0.14
Chippewa	Lower	2048.803	2y6hSCS	13.1	201.45	203.53		203.55	0.000572	0.68	39.97	63.97	0.18
Chippewa	Lower	2048.803	100y4hChicago	33.9	201.45	204.28		204.29	0.00045	0.79	99.75	101.64	0.17
Chippewa	Lower	2048.803	2yrFlow100yrLake	13.1	201.45	203.53		203.55	0.000572	0.68	39.97	63.97	0.18
Chippewa	Lower	2047.472	Timmins	115.6	201.47	205.25	203.98	205.29	0.000782	1.44	291.2	260.9	0.25

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	2047.472	100y6hSCS	40.6	201.47	204.35	203.6	204.37	0.000531	0.97	110.94	106.14	0.19
Chippewa	Lower	2047.472	50y6hSCS	35.4	201.47	204.29	203.6	204.31	0.000465	0.89	104.44	102.85	0.18
Chippewa	Lower	2047.472	25y6hSCS	30.3	201.47	204.23	203.4	204.24	0.00039	0.8	98.31	99.28	0.17
Chippewa	Lower	2047.472	10y6hSCS	24	201.47	204.14	203.15	204.15	0.000304	0.69	89.52	95.39	0.14
Chippewa	Lower	2047.472	5y6hSCS	19.5	201.47	203.97	202.97	203.98	0.000308	0.66	74.17	84.67	0.14
Chippewa	Lower	2047.472	2y6hSCS	13.1	201.47	203.37	202.68	203.53	0.002901	1.77	7.38	62.23	0.44
Chippewa	Lower	2047.472	100y4hChicago	33.9	201.47	204.27	203.52	204.29	0.000442	0.87	102.79	102.06	0.18
Chippewa	Lower	2047.472	2yrFlow100yrLake	13.1	201.47	203.37	202.68	203.53	0.002901	1.77	7.38	62.23	0.44
Chippewa	Lower	2040.214		Culvert									
Chippewa	Lower	2032.714	Timmins	115.6	201.63	205.25	203.91	205.28	0.000749	1.27	294.04	264.8	0.22
Chippewa	Lower	2032.714	100y6hSCS	40.6	201.63	204.35	203.6	204.37	0.00058	0.9	113.83	107.53	0.19
Chippewa	Lower	2032.714	50y6hSCS	35.4	201.63	204.29	203.6	204.3	0.000512	0.83	107.26	105.34	0.17
Chippewa	Lower	2032.714	25y6hSCS	30.3	201.63	204.22	203.54	204.24	0.000437	0.75	100.67	103.27	0.16
Chippewa	Lower	2032.714	10y6hSCS	24	201.63	204.13	203.3	204.14	0.000343	0.65	91.6	98.32	0.14
Chippewa	Lower	2032.714	5y6hSCS	19.5	201.63	203.96	203.12	203.97	0.00036	0.63	75	90.01	0.14
Chippewa	Lower	2032.714	2y6hSCS	13.1	201.63	203.12	202.83	203.4	0.006979	2.33	5.62	53.97	0.67
Chippewa	Lower	2032.714	100y4hChicago	33.9	201.63	204.27	203.6	204.28	0.000491	0.81	105.35	104.99	0.17
Chippewa	Lower	2032.714	2yrFlow100yrLake	13.1	201.63	203.12	202.83	203.4	0.006979	2.33	5.62	53.97	0.67
Chippewa	Lower	2030.24	Timmins	115.6	201.52	205.24		205.27	0.000777	1.44	274.6	264.13	0.24
Chippewa	Lower	2030.24	100y6hSCS	40.6	201.52	204.34		204.36	0.000549	0.99	110.21	106.6	0.2
Chippewa	Lower	2030.24	50y6hSCS	35.4	201.52	204.28		204.3	0.000479	0.91	103.88	104.02	0.18
Chippewa	Lower	2030.24	25y6hSCS	30.3	201.52	204.22		204.23	0.000405	0.82	97.52	101.5	0.17
Chippewa	Lower	2030.24	10y6hSCS	24	201.52	204.13		204.14	0.000311	0.7	88.87	95.83	0.15
Chippewa	Lower	2030.24	5y6hSCS	19.5	201.52	203.95		203.97	0.000316	0.68	73.12	80.92	0.14
Chippewa	Lower	2030.24	2y6hSCS	13.1	201.52	203.23		203.28	0.001415	1.1	22.91	54.3	0.29
Chippewa	Lower	2030.24	100y4hChicago	33.9	201.52	204.26		204.28	0.000457	0.89	102.04	103.52	0.18
Chippewa	Lower	2030.24	2yrFlow100yrLake	13.1	201.52	203.23		203.28	0.001415	1.1	22.91	54.3	0.29
Chippewa	Lower	1937	Timmins	115.6	201.5	205.02		205.15	0.00214	2.16	121.63	78.28	0.39
Chippewa	Lower	1937	100y6hSCS	40.6	201.5	204.25		204.3	0.000941	1.18	67.65	58.06	0.25
Chippewa	Lower	1937	50y6hSCS	35.4	201.5	204.21		204.24	0.000782	1.07	65.04	57.04	0.23
Chippewa	Lower	1937	25y6hSCS	30.3	201.5	204.16		204.19	0.000631	0.94	62.35	55.76	0.2
Chippewa	Lower	1937	10y6hSCS	24	201.5	204.09		204.11	0.000459	0.79	58.47	53.08	0.17
Chippewa	Lower	1937	5y6hSCS	19.5	201.5	203.91		203.93	0.000437	0.73	50.02	42.38	0.16
Chippewa	Lower	1937	2y6hSCS	13.1	201.5	203.03		203.1	0.002744	1.23	16	32.33	0.37
Chippewa	Lower	1937	100y4hChicago	33.9	201.5	204.19		204.23	0.000737	1.03	64.27	56.67	0.22
Chippewa	Lower	1937	2yrFlow100yrLake	13.1	201.5	203.03		203.1	0.002744	1.23	16	32.33	0.37
Chippewa	Lower	1860.01	Timmins	119.1	201.2	204.93		205.01	0.001219	1.75	179.98	134.16	0.31
Chippewa	Lower	1860.01	100y6hSCS	41.8	201.2	204.19		204.23	0.000728	1.14	83.46	109.4	0.23
Chippewa	Lower	1860.01	50y6hSCS	36.4	201.2	204.15		204.19	0.000599	1.02	79.79	106.65	0.21
Chippewa	Lower	1860.01	25y6hSCS	31.2	201.2	204.11		204.14	0.000481	0.91	75.83	105.71	0.18
Chippewa	Lower	1860.01	10y6hSCS	24.7	201.2	204.06		204.08	0.000343	0.76	69.77	99.05	0.15
Chippewa	Lower	1860.01	5y6hSCS	20.1	201.2	203.88		203.9	0.000337	0.71	55.1	72.38	0.15
Chippewa	Lower	1860.01	2y6hSCS	13.5	201.2	202.87		202.93	0.001783	1.1	12.77	12.86	0.32
Chippewa	Lower	1860.01	100y4hChicago	34.9	201.2	204.14		204.18	0.000564	0.99	78.68	106.08	0.2
Chippewa	Lower	1860.01	2yrFlow100yrLake	13.5	201.2	202.87		202.93	0.001783	1.1	12.77	12.86	0.32
Chippewa	Lower	1857.965	Timmins	119.1	201.16	204.93	204.11	205.01	0.0012	1.76	178.58	133.25	0.3
Chippewa	Lower	1857.965	100y6hSCS	41.8	201.16	204.18	202.84	204.23	0.000709	1.15	82.59	109.06	0.22
Chippewa	Lower	1857.965	50y6hSCS	36.4	201.16	204.15	202.7	204.19	0.000578	1.03	79.02	105.53	0.2
Chippewa	Lower	1857.965	25y6hSCS	31.2	201.16	204.11	202.56	204.14	0.000462	0.91	75.19	103.48	0.18
Chippewa	Lower	1857.965	10y6hSCS	24.7	201.16	204.05	202.38	204.08	0.000331	0.76	69.27	98.93	0.15
Chippewa	Lower	1857.965	5y6hSCS	20.1	201.16	203.88	202.24	203.9	0.000326	0.72	53.5	82.16	0.15
Chippewa	Lower	1857.965	2y6hSCS	13.5	201.16	202.85	202.01	202.93	0.001701	1.24	10.86	12.28	0.32
Chippewa	Lower	1857.965	100y4hChicago	34.9	201.16	204.14	202.66	204.18	0.000544	0.99	77.94	104.95	0.2
Chippewa	Lower	1857.965	2yrFlow100yrLake	13.5	201.16	202.85	202.01	202.93	0.001701	1.24	10.86	12.28	0.32
Chippewa	Lower	1838.973		Bridge									
Chippewa	Lower	1822.123	Timmins	119.1	201.04	204.75	204.06	204.82	0.001195	1.73	195.21	153.2	0.3
Chippewa	Lower	1822.123	100y6hSCS	41.8	201.04	202.49	202.77	203.63	0.031315	4.74	8.82	11.02	1.35
Chippewa	Lower	1822.123	50y6hSCS	36.4	201.04	202.27	202.63	203.54	0.044997	5	7.28	8.71	1.56
Chippewa	Lower	1822.123	25y6hSCS	31.2	201.04	202.9	202.49	203.26	0.006768	2.66	11.72	16.77	0.66
Chippewa	Lower	1822.123	10y6hSCS	24.7	201.04	202.8	202.31	203.06	0.00523	2.24	11.01	16	0.57
Chippewa	Lower	1822.123	5y6hSCS	20.1	201.04	202.81	202.17	202.98	0.003394	1.81	11.08	16.06	0.46
Chippewa	Lower	1822.123	2y6hSCS	13.5	201.04	202.39	201.95	202.53	0.004276	1.66	8.14	9.32	0.49
Chippewa	Lower	1822.123	100y4hChicago	34.9	201.04	202.21	202.59	203.52	0.049581	5.06	6.9	8.26	1.63

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	1822.123	2yrFlow100yrLake	13.5	201.04	202.39	201.95	202.53	0.004276	1.66	8.14	9.32	0.49
Chippewa	Lower	1817.49	Timmins	119.1	200.96	204.75		204.82	0.001074	1.71	202.51	151	0.3
Chippewa	Lower	1817.49	100y6hSCS	41.8	200.96	203.16	202.75	203.37	0.004141	2.2	28.75	28.72	0.52
Chippewa	Lower	1817.49	50y6hSCS	36.4	200.96	203.07	202.64	203.25	0.003843	2.05	26.29	26.9	0.5
Chippewa	Lower	1817.49	25y6hSCS	31.2	200.96	202.98		203.14	0.003494	1.89	23.97	26.5	0.47
Chippewa	Lower	1817.49	10y6hSCS	24.7	200.96	202.84		202.98	0.003121	1.69	20.41	25.57	0.44
Chippewa	Lower	1817.49	5y6hSCS	20.1	200.96	202.84		202.93	0.002106	1.38	20.24	25.5	0.36
Chippewa	Lower	1817.49	2y6hSCS	13.5	200.96	202.39		202.5	0.003805	1.46	9.77	17.22	0.46
Chippewa	Lower	1817.49	100y4hChicago	34.9	200.96	203.04	202.6	203.22	0.003745	2.01	25.64	26.79	0.49
Chippewa	Lower	1817.49	2yrFlow100yrLake	13.5	200.96	202.39		202.5	0.003805	1.46	9.77	17.22	0.46
Chippewa	Lower	1796	Timmins	119.1	200.78	204.75		204.79	0.000599	1.33	233.7	128.93	0.22
Chippewa	Lower	1796	100y6hSCS	41.8	200.78	203.23		203.28	0.001134	1.27	75.71	76.56	0.28
Chippewa	Lower	1796	50y6hSCS	36.4	200.78	203.12		203.17	0.001116	1.21	67.92	74.48	0.28
Chippewa	Lower	1796	25y6hSCS	31.2	200.78	203.02		203.07	0.00108	1.15	60.5	73.08	0.27
Chippewa	Lower	1796	10y6hSCS	24.7	200.78	202.87		202.91	0.001072	1.08	49.43	70.76	0.27
Chippewa	Lower	1796	5y6hSCS	20.1	200.78	202.85		202.88	0.000748	0.9	48.24	70.37	0.22
Chippewa	Lower	1796	2y6hSCS	13.5	200.78	202.36		202.43	0.00194	1.15	17.61	49.89	0.34
Chippewa	Lower	1796	100y4hChicago	34.9	200.78	203.1		203.14	0.001106	1.2	65.83	74.05	0.28
Chippewa	Lower	1796	2yrFlow100yrLake	13.5	200.78	202.36		202.43	0.00194	1.15	17.61	49.89	0.34
Chippewa	Lower	1762	Timmins	119.1	200.63	204.74		204.77	0.000489	1.15	254.01	136.65	0.2
Chippewa	Lower	1762	100y6hSCS	41.8	200.63	203.19		203.24	0.00109	1.17	79.6	85.86	0.27
Chippewa	Lower	1762	50y6hSCS	36.4	200.63	203.09		203.13	0.001091	1.13	70.84	83.6	0.26
Chippewa	Lower	1762	25y6hSCS	31.2	200.63	202.99		203.03	0.001057	1.07	62.67	80.43	0.26
Chippewa	Lower	1762	10y6hSCS	24.7	200.63	202.84		202.87	0.001049	1	50.78	75.06	0.25
Chippewa	Lower	1762	5y6hSCS	20.1	200.63	202.83		202.86	0.000708	0.82	50.32	74.86	0.21
Chippewa	Lower	1762	2y6hSCS	13.5	200.63	202.29		202.36	0.002011	1.15	15.64	45.89	0.33
Chippewa	Lower	1762	100y4hChicago	34.9	200.63	203.06		203.1	0.001085	1.11	68.51	82.95	0.26
Chippewa	Lower	1762	2yrFlow100yrLake	13.5	200.63	202.29		202.36	0.002011	1.15	15.64	45.89	0.33
Chippewa	Lower	1729.323	Timmins	119.1	200.52	204.72		204.75	0.000442	1.27	274.41	161.07	0.2
Chippewa	Lower	1729.323	100y6hSCS	41.8	200.52	203.13		203.2	0.000972	1.36	62.86	79.69	0.27
Chippewa	Lower	1729.323	50y6hSCS	36.4	200.52	203.03		203.1	0.000898	1.27	56.09	64.78	0.26
Chippewa	Lower	1729.323	25y6hSCS	31.2	200.52	202.94		203	0.000804	1.17	50.41	60.91	0.25
Chippewa	Lower	1729.323	10y6hSCS	24.7	200.52	202.8		202.85	0.000682	1.03	42.24	55.43	0.22
Chippewa	Lower	1729.323	5y6hSCS	20.1	200.52	202.81		202.84	0.000444	0.84	42.68	55.75	0.18
Chippewa	Lower	1729.323	2y6hSCS	13.5	200.52	202.28		202.31	0.000656	0.84	19.65	28.07	0.21
Chippewa	Lower	1729.323	100y4hChicago	34.9	200.52	203.01		203.07	0.000872	1.24	54.45	62.86	0.26
Chippewa	Lower	1729.323	2yrFlow100yrLake	13.5	200.52	202.28		202.31	0.000656	0.84	19.65	28.07	0.21
Chippewa	Lower	1728.033	Timmins	119.1	200.55	204.72	202.99	204.75	0.00039	1.17	291.05	161.67	0.18
Chippewa	Lower	1728.033	100y6hSCS	41.8	200.55	203.14	201.9	203.19	0.000728	1.15	78.74	85.76	0.23
Chippewa	Lower	1728.033	50y6hSCS	36.4	200.55	203.05	201.79	203.09	0.000678	1.08	70.93	73.83	0.22
Chippewa	Lower	1728.033	25y6hSCS	31.2	200.55	202.95	201.67	202.99	0.00061	1	64.38	67.89	0.21
Chippewa	Lower	1728.033	10y6hSCS	24.7	200.55	202.81	201.53	202.84	0.000535	0.9	54.79	65.27	0.19
Chippewa	Lower	1728.033	5y6hSCS	20.1	200.55	202.81	201.41	202.83	0.000351	0.73	55.08	65.32	0.16
Chippewa	Lower	1728.033	2y6hSCS	13.5	200.55	202.28	201.23	202.31	0.000692	0.84	17.3	45.9	0.21
Chippewa	Lower	1728.033	100y4hChicago	34.9	200.55	203.02	201.75	203.06	0.000659	1.06	69.03	71.19	0.22
Chippewa	Lower	1728.033	2yrFlow100yrLake	13.5	200.55	202.28	201.23	202.31	0.000692	0.84	17.3	45.9	0.21
Chippewa	Lower	1725.239	Bridge										
Chippewa	Lower	1722.239	Timmins	119.1	200.47	204.71	203.08	204.73	0.000438	1.23	290.98	163.45	0.19
Chippewa	Lower	1722.239	100y6hSCS	41.8	200.47	203.11	202.07	203.16	0.000898	1.27	81.37	88.4	0.26
Chippewa	Lower	1722.239	50y6hSCS	36.4	200.47	203.02	201.95	203.06	0.000856	1.21	73.5	78.92	0.25
Chippewa	Lower	1722.239	25y6hSCS	31.2	200.47	202.92	201.8	202.97	0.000786	1.13	66.41	77.28	0.24
Chippewa	Lower	1722.239	10y6hSCS	24.7	200.47	202.78	201.63	202.82	0.000716	1.04	55.7	75.76	0.22
Chippewa	Lower	1722.239	5y6hSCS	20.1	200.47	202.8	201.5	202.82	0.000456	0.83	56.74	75.94	0.18
Chippewa	Lower	1722.239	2y6hSCS	13.5	200.47	202.25	201.28	202.3	0.001086	1.06	14.47	50.67	0.26
Chippewa	Lower	1722.239	100y4hChicago	34.9	200.47	202.99	201.91	203.04	0.000839	1.19	71.48	78.7	0.25
Chippewa	Lower	1722.239	2yrFlow100yrLake	13.5	200.47	202.25	201.28	202.3	0.001086	1.06	14.47	50.67	0.26
Chippewa	Lower	1720.406	Timmins	119.1	200.47	204.7		204.73	0.000453	1.24	288.78	161.67	0.2
Chippewa	Lower	1720.406	100y6hSCS	41.8	200.47	203.11		203.16	0.000938	1.29	81.4	88.37	0.26
Chippewa	Lower	1720.406	50y6hSCS	36.4	200.47	203.01		203.06	0.0009	1.23	73.42	79.96	0.25
Chippewa	Lower	1720.406	25y6hSCS	31.2	200.47	202.92		202.97	0.000838	1.15	66.15	79.21	0.24
Chippewa	Lower	1720.406	10y6hSCS	24.7	200.47	202.78		202.82	0.000743	1.04	55.45	74.99	0.23
Chippewa	Lower	1720.406	5y6hSCS	20.1	200.47	202.8		202.82	0.000473	0.84	56.51	75.83	0.18
Chippewa	Lower	1720.406	2y6hSCS	13.5	200.47	202.24		202.3	0.001141	1.07	18.77	55.24	0.27

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	1720.406	100y4hChicago	34.9	200.47	202.99		203.03	0.000883	1.21	71.37	79.73	0.25
Chippewa	Lower	1720.406	2yrFlow100yrLake	13.5	200.47	202.24		202.3	0.001141	1.07	18.77	55.24	0.27
Chippewa	Lower	1696	Timmins	119.1	200.46	204.67		204.72	0.000664	1.51	240.58	151.57	0.24
Chippewa	Lower	1696	100y6hSCS	41.8	200.46	203.04		203.13	0.001376	1.55	60.71	65.54	0.32
Chippewa	Lower	1696	50y6hSCS	36.4	200.46	202.96		203.03	0.00122	1.43	55.35	60.2	0.3
Chippewa	Lower	1696	25y6hSCS	31.2	200.46	202.88		202.94	0.001004	1.27	51.22	51.02	0.27
Chippewa	Lower	1696	10y6hSCS	24.7	200.46	202.76		202.8	0.000814	1.1	45.01	46.64	0.24
Chippewa	Lower	1696	5y6hSCS	20.1	200.46	202.78		202.81	0.000514	0.88	46.14	47.7	0.19
Chippewa	Lower	1696	2y6hSCS	13.5	200.46	202.23		202.27	0.000938	0.98	22.61	39.88	0.24
Chippewa	Lower	1696	100y4hChicago	34.9	200.46	202.94		203.01	0.00116	1.39	54.13	56.54	0.29
Chippewa	Lower	1696	2yrFlow100yrLake	13.5	200.46	202.23		202.27	0.000938	0.98	22.61	39.88	0.24
Chippewa	Lower	1669	Timmins	119.1	200.43	204.64		204.69	0.001029	1.62	207.08	144.74	0.27
Chippewa	Lower	1669	100y6hSCS	41.8	200.43	202.95		203.07	0.003074	1.84	41.06	44.97	0.42
Chippewa	Lower	1669	50y6hSCS	36.4	200.43	202.87		202.98	0.002817	1.72	37.66	44.02	0.4
Chippewa	Lower	1669	25y6hSCS	31.2	200.43	202.8		202.9	0.002442	1.56	34.84	42.5	0.37
Chippewa	Lower	1669	10y6hSCS	24.7	200.43	202.69		202.77	0.002066	1.37	30.24	38.41	0.34
Chippewa	Lower	1669	5y6hSCS	20.1	200.43	202.74		202.79	0.001189	1.06	32.3	40.36	0.26
Chippewa	Lower	1669	2y6hSCS	13.5	200.43	202.12		202.22	0.003478	1.42	12.61	27.08	0.41
Chippewa	Lower	1669	100y4hChicago	34.9	200.43	202.85		202.96	0.002712	1.67	36.86	43.69	0.39
Chippewa	Lower	1669	2yrFlow100yrLake	13.5	200.43	202.12		202.22	0.003478	1.42	12.61	27.08	0.41
Chippewa	Lower	1635.788	Timmins	119.1	200.44	204.62		204.66	0.000573	1.38	250.98	147.17	0.22
Chippewa	Lower	1635.788	100y6hSCS	41.8	200.44	202.89		202.99	0.001715	1.62	55.65	67.76	0.35
Chippewa	Lower	1635.788	50y6hSCS	36.4	200.44	202.82		202.91	0.001556	1.51	50.81	65.83	0.33
Chippewa	Lower	1635.788	25y6hSCS	31.2	200.44	202.76		202.83	0.001324	1.37	47.05	64.5	0.3
Chippewa	Lower	1635.788	10y6hSCS	24.7	200.44	202.66		202.71	0.001033	1.17	40.86	54.74	0.26
Chippewa	Lower	1635.788	5y6hSCS	20.1	200.44	202.72		202.76	0.000592	0.91	44.79	62.59	0.2
Chippewa	Lower	1635.788	2y6hSCS	13.5	200.44	202.08		202.14	0.001509	1.13	14.67	34.99	0.3
Chippewa	Lower	1635.788	100y4hChicago	34.9	200.44	202.8		202.89	0.001489	1.47	49.75	65.39	0.32
Chippewa	Lower	1635.788	2yrFlow100yrLake	13.5	200.44	202.08		202.14	0.001509	1.13	14.67	34.99	0.3
Chippewa	Lower	1615	Timmins	119.1	200.38	204.62		204.65	0.000546	1.28	265.06	152.19	0.21
Chippewa	Lower	1615	100y6hSCS	41.8	200.38	202.87		202.94	0.001817	1.53	65.3	79.62	0.35
Chippewa	Lower	1615	50y6hSCS	36.4	200.38	202.8		202.87	0.001712	1.45	59.52	78.9	0.34
Chippewa	Lower	1615	25y6hSCS	31.2	200.38	202.74		202.8	0.001485	1.32	55.15	76.99	0.31
Chippewa	Lower	1615	10y6hSCS	24.7	200.38	202.64		202.69	0.001245	1.17	47.43	70.96	0.28
Chippewa	Lower	1615	5y6hSCS	20.1	200.38	202.72		202.74	0.000668	0.88	53.16	76.48	0.21
Chippewa	Lower	1615	2y6hSCS	13.5	200.38	202.02		202.1	0.002494	1.32	14.06	26.44	0.38
Chippewa	Lower	1615	100y4hChicago	34.9	200.38	202.78		202.85	0.001648	1.42	58.28	78.36	0.33
Chippewa	Lower	1615	2yrFlow100yrLake	13.5	200.38	202.02		202.1	0.002494	1.32	14.06	26.44	0.38
Chippewa	Lower	1584	Timmins	119.1	200.3	204.62		204.63	0.000277	0.93	374.84	194.1	0.15
Chippewa	Lower	1584	100y6hSCS	41.8	200.3	202.84		202.89	0.001219	1.31	84.03	98.25	0.28
Chippewa	Lower	1584	50y6hSCS	36.4	200.3	202.77		202.82	0.001117	1.23	77.32	94.13	0.27
Chippewa	Lower	1584	25y6hSCS	31.2	200.3	202.72		202.76	0.00095	1.11	72.47	92.15	0.25
Chippewa	Lower	1584	10y6hSCS	24.7	200.3	202.62		202.65	0.000811	1	63.32	90.05	0.23
Chippewa	Lower	1584	5y6hSCS	20.1	200.3	202.71		202.72	0.000409	0.73	71.24	91.36	0.16
Chippewa	Lower	1584	2y6hSCS	13.5	200.3	201.93		202.02	0.002422	1.36	12.65	31.16	0.37
Chippewa	Lower	1584	100y4hChicago	34.9	200.3	202.76		202.8	0.00107	1.2	75.95	93.63	0.26
Chippewa	Lower	1584	2yrFlow100yrLake	13.5	200.3	201.93		202.02	0.002422	1.36	12.65	31.16	0.37
Chippewa	Lower	1547.497	Timmins	119.1	200.21	204.61		204.62	0.000189	0.82	430.66	198.52	0.13
Chippewa	Lower	1547.497	100y6hSCS	41.8	200.21	202.8		202.85	0.001067	1.33	94.05	142.62	0.28
Chippewa	Lower	1547.497	50y6hSCS	36.4	200.21	202.73		202.78	0.00097	1.25	84.75	137.38	0.26
Chippewa	Lower	1547.497	25y6hSCS	31.2	200.21	202.69		202.72	0.000824	1.13	78.46	133.68	0.24
Chippewa	Lower	1547.497	10y6hSCS	24.7	200.21	202.59		202.62	0.000696	1.01	66.21	124.34	0.22
Chippewa	Lower	1547.497	5y6hSCS	20.1	200.21	202.69		202.71	0.000333	0.72	79.58	134.36	0.15
Chippewa	Lower	1547.497	2y6hSCS	13.5	200.21	201.85		201.94	0.002062	1.31	12.03	28.87	0.35
Chippewa	Lower	1547.497	100y4hChicago	34.9	200.21	202.72		202.76	0.000929	1.21	82.97	136.4	0.26
Chippewa	Lower	1547.497	2yrFlow100yrLake	13.5	200.21	201.85		201.94	0.002062	1.31	12.03	28.87	0.35
Chippewa	Lower	1545.754	Timmins	119.1	200.18	204.61	202.84	204.62	0.000187	0.79	430.59	198.71	0.12
Chippewa	Lower	1545.754	100y6hSCS	41.8	200.18	202.8	201.93	202.85	0.001028	1.26	92.98	143.24	0.26
Chippewa	Lower	1545.754	50y6hSCS	36.4	200.18	202.73	201.79	202.78	0.000962	1.19	83.47	137.48	0.25
Chippewa	Lower	1545.754	25y6hSCS	31.2	200.18	202.69	201.65	202.72	0.000818	1.08	77.2	132.4	0.23
Chippewa	Lower	1545.754	10y6hSCS	24.7	200.18	202.59	201.47	202.62	0.000698	0.97	65	124.31	0.21
Chippewa	Lower	1545.754	5y6hSCS	20.1	200.18	202.69	201.33	202.71	0.00033	0.69	78.34	133.68	0.15
Chippewa	Lower	1545.754	2y6hSCS	13.5	200.18	201.84	201.11	201.93	0.001963	1.33	10.18	27.15	0.35
Chippewa	Lower	1545.754	100y4hChicago	34.9	200.18	202.72	201.75	202.76	0.000921	1.16	81.7	136.64	0.25

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	1545.754	2yrFlow100yrLake	13.5	200.18	201.84	201.11	201.93	0.001963	1.33	10.18	27.15	0.35
Chippewa	Lower	1539.339	Bridge										
Chippewa	Lower	1531.839	Timmins	119.1	200.13	204.6	202.94	204.61	0.000198	0.82	411.43	193.01	0.13
Chippewa	Lower	1531.839	100y6hSCS	41.8	200.13	202.38	201.84	202.6	0.003732	2.14	32.48	75.37	0.49
Chippewa	Lower	1531.839	50y6hSCS	36.4	200.13	202.2	201.7	202.51	0.005165	2.47	16.72	45.47	0.58
Chippewa	Lower	1531.839	25y6hSCS	31.2	200.13	202.09	201.57	202.35	0.004688	2.26	14.89	34.19	0.55
Chippewa	Lower	1531.839	10y6hSCS	24.7	200.13	202	201.38	202.22	0.003918	2.08	11.87	12.71	0.51
Chippewa	Lower	1531.839	5y6hSCS	20.1	200.13	201.99	201.24	202.14	0.002616	1.7	11.84	12.68	0.42
Chippewa	Lower	1531.839	2y6hSCS	13.5	200.13	201.6	201.02	201.71	0.002821	1.48	9.12	10.75	0.41
Chippewa	Lower	1531.839	100y4hChicago	34.9	200.13	202.17	201.66	202.46	0.005073	2.42	16.15	43.08	0.57
Chippewa	Lower	1531.839	2yrFlow100yrLake	13.5	200.13	201.6	201.02	201.71	0.002821	1.48	9.12	10.75	0.41
Chippewa	Lower	1529.481	Timmins	119.1	200.07	204.6		204.61	0.000193	0.86	409.22	190.76	0.13
Chippewa	Lower	1529.481	100y6hSCS	41.8	200.07	202.41		202.56	0.002324	1.87	42.91	76.36	0.41
Chippewa	Lower	1529.481	50y6hSCS	36.4	200.07	202.27		202.42	0.002524	1.86	33.39	57.75	0.42
Chippewa	Lower	1529.481	25y6hSCS	31.2	200.07	202.14		202.29	0.002561	1.79	26.38	49.42	0.42
Chippewa	Lower	1529.481	10y6hSCS	24.7	200.07	202.04		202.16	0.001992	1.53	22.14	40.74	0.37
Chippewa	Lower	1529.481	5y6hSCS	20.1	200.07	202.03		202.1	0.001325	1.24	21.39	38.46	0.3
Chippewa	Lower	1529.481	2y6hSCS	13.5	200.07	201.62		201.68	0.001504	1.11	13.97	14	0.3
Chippewa	Lower	1529.481	100y4hChicago	34.9	200.07	202.23		202.38	0.002563	1.85	31.19	55.71	0.42
Chippewa	Lower	1529.481	2yrFlow100yrLake	13.5	200.07	201.62		201.68	0.001504	1.11	13.97	14	0.3
Chippewa	Lower	1511	Timmins	119.1	199.85	204.6		204.61	0.000188	0.86	403.26	171.56	0.13
Chippewa	Lower	1511	100y6hSCS	41.8	199.85	202.38		202.51	0.002122	1.86	55	90.64	0.39
Chippewa	Lower	1511	50y6hSCS	36.4	199.85	202.24		202.37	0.002262	1.84	43.13	72.12	0.4
Chippewa	Lower	1511	25y6hSCS	31.2	199.85	202.11		202.24	0.002331	1.79	34.56	56.45	0.4
Chippewa	Lower	1511	10y6hSCS	24.7	199.85	202.01		202.12	0.001854	1.55	29.63	52.56	0.35
Chippewa	Lower	1511	5y6hSCS	20.1	199.85	202		202.07	0.001268	1.27	29.01	52.19	0.29
Chippewa	Lower	1511	2y6hSCS	13.5	199.85	201.6		201.66	0.001269	1.09	17.21	16.88	0.28
Chippewa	Lower	1511	100y4hChicago	34.9	199.85	202.2		202.33	0.002311	1.83	40.27	68.75	0.4
Chippewa	Lower	1511	2yrFlow100yrLake	13.5	199.85	201.6		201.66	0.001269	1.09	17.21	16.88	0.28
Chippewa	Lower	1489.093	Timmins	119.1	200.04	204.6		204.6	0.000192	0.82	409.51	161.49	0.13
Chippewa	Lower	1489.093	100y6hSCS	41.8	200.04	202.4		202.44	0.001774	1.53	82.69	110.31	0.34
Chippewa	Lower	1489.093	50y6hSCS	36.4	200.04	202.24		202.3	0.002316	1.66	66.02	98.73	0.38
Chippewa	Lower	1489.093	25y6hSCS	31.2	200.04	202.09		202.16	0.003052	1.8	51.57	90.5	0.43
Chippewa	Lower	1489.093	10y6hSCS	24.7	200.04	201.98		202.06	0.00292	1.69	42.7	82.4	0.42
Chippewa	Lower	1489.093	5y6hSCS	20.1	200.04	201.98		202.03	0.00194	1.38	42.64	82.32	0.34
Chippewa	Lower	1489.093	2y6hSCS	13.5	200.04	201.52		201.61	0.004065	1.61	15.89	25.47	0.47
Chippewa	Lower	1489.093	100y4hChicago	34.9	200.04	202.19		202.26	0.002528	1.71	61.6	94.58	0.4
Chippewa	Lower	1489.093	2yrFlow100yrLake	13.5	200.04	201.52		201.61	0.004065	1.61	15.89	25.47	0.47
Chippewa	Lower	1487.229	Timmins	119.1	199.96	204.6	202.44	204.6	0.000188	0.84	415.15	161.04	0.13
Chippewa	Lower	1487.229	100y6hSCS	41.8	199.96	202.39	201.8	202.44	0.001749	1.62	86.68	118.24	0.35
Chippewa	Lower	1487.229	50y6hSCS	36.4	199.96	202.24	201.67	202.29	0.002169	1.72	69.55	101.09	0.38
Chippewa	Lower	1487.229	25y6hSCS	31.2	199.96	202.08	201.63	202.16	0.002947	1.9	54.52	92.97	0.44
Chippewa	Lower	1487.229	10y6hSCS	24.7	199.96	201.98	201.49	202.05	0.002749	1.77	45.41	84.67	0.42
Chippewa	Lower	1487.229	5y6hSCS	20.1	199.96	201.98	201.35	202.03	0.001814	1.44	45.48	84.81	0.34
Chippewa	Lower	1487.229	2y6hSCS	13.5	199.96	201.38	201.11	201.58	0.008061	2.32	8.77	19.75	0.67
Chippewa	Lower	1487.229	100y4hChicago	34.9	199.96	202.19	201.67	202.25	0.002365	1.77	65.01	95.65	0.4
Chippewa	Lower	1487.229	2yrFlow100yrLake	13.5	199.96	201.38	201.11	201.58	0.008061	2.32	8.77	19.75	0.67
Chippewa	Lower	1485.03	Bridge										
Chippewa	Lower	1481.03	Timmins	119.1	199.93	204.59	202.42	204.6	0.000146	0.76	420.74	158.04	0.12
Chippewa	Lower	1481.03	100y6hSCS	41.8	199.93	202.36	201.54	202.41	0.001083	1.31	87.79	130.76	0.28
Chippewa	Lower	1481.03	50y6hSCS	36.4	199.93	202.19	201.42	202.25	0.001355	1.39	67.71	114.46	0.31
Chippewa	Lower	1481.03	25y6hSCS	31.2	199.93	202.03	201.3	202.1	0.001627	1.44	51.54	85.29	0.33
Chippewa	Lower	1481.03	10y6hSCS	24.7	199.93	201.79	201.13	201.88	0.002191	1.53	32.98	67.93	0.38
Chippewa	Lower	1481.03	5y6hSCS	20.1	199.93	201.58	201.01	201.73	0.003334	1.72	12.03	40.86	0.46
Chippewa	Lower	1481.03	2y6hSCS	13.5	199.93	201.28	200.81	201.39	0.003286	1.47	9.47	20.89	0.44
Chippewa	Lower	1481.03	100y4hChicago	34.9	199.93	202.14	201.39	202.21	0.00144	1.41	62.6	102.5	0.32
Chippewa	Lower	1481.03	2yrFlow100yrLake	13.5	199.93	201.28	200.81	201.39	0.003286	1.47	9.47	20.89	0.44
Chippewa	Lower	1478.395	Timmins	119.1	199.88	204.59		204.6	0.00014	0.75	419.36	152.12	0.11
Chippewa	Lower	1478.395	100y6hSCS	41.8	199.88	202.35		202.4	0.001003	1.25	89	128.01	0.27
Chippewa	Lower	1478.395	50y6hSCS	36.4	199.88	202.19		202.25	0.001141	1.27	69.72	110.05	0.28
Chippewa	Lower	1478.395	25y6hSCS	31.2	199.88	202.03		202.09	0.001328	1.3	54.24	81.58	0.3
Chippewa	Lower	1478.395	10y6hSCS	24.7	199.88	201.79		201.86	0.001676	1.33	36.92	65.38	0.33

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	1478.395	5y6hSCS	20.1	199.88	201.62		201.69	0.001854	1.3	26.88	51.3	0.34
Chippewa	Lower	1478.395	2y6hSCS	13.5	199.88	201.29		201.37	0.002432	1.26	14.33	31.75	0.38
Chippewa	Lower	1478.395	100y4hChicago	34.9	199.88	202.15		202.2	0.001202	1.29	64.71	102.3	0.29
Chippewa	Lower	1478.395	2yrFlow100yrLake	13.5	199.88	201.29		201.37	0.002432	1.26	14.33	31.75	0.38
Chippewa	Lower	1429	Timmins	119.1	199.58	204.58		204.59	0.000126	0.76	458.07	180.43	0.11
Chippewa	Lower	1429	100y6hSCS	41.8	199.58	202.24		202.34	0.001274	1.56	57.74	93.71	0.32
Chippewa	Lower	1429	50y6hSCS	36.4	199.58	202.09		202.18	0.001292	1.51	46.29	62.03	0.32
Chippewa	Lower	1429	25y6hSCS	31.2	199.58	201.93		202.02	0.001308	1.45	37.71	50.9	0.31
Chippewa	Lower	1429	10y6hSCS	24.7	199.58	201.71		201.79	0.001267	1.33	28.46	37.44	0.3
Chippewa	Lower	1429	5y6hSCS	20.1	199.58	201.54		201.61	0.00122	1.22	23.4	25.32	0.29
Chippewa	Lower	1429	2y6hSCS	13.5	199.58	201.24		201.28	0.001087	1.02	17.03	17.72	0.27
Chippewa	Lower	1429	100y4hChicago	34.9	199.58	202.04		202.14	0.001303	1.49	43.65	55.09	0.32
Chippewa	Lower	1429	2yrFlow100yrLake	13.5	199.58	201.24		201.28	0.001087	1.02	17.03	17.72	0.27
Chippewa	Lower	1354.976	Timmins	119.1	199.51	204.58		204.58	0.000119	0.74	493.76	212.35	0.11
Chippewa	Lower	1354.976	100y6hSCS	41.8	199.51	202.18		202.25	0.00103	1.38	75.49	98.91	0.28
Chippewa	Lower	1354.976	50y6hSCS	36.4	199.51	202.01		202.08	0.001174	1.41	59.35	86.25	0.3
Chippewa	Lower	1354.976	25y6hSCS	31.2	199.51	201.84		201.92	0.001342	1.43	45.49	76.78	0.31
Chippewa	Lower	1354.976	10y6hSCS	24.7	199.51	201.61		201.69	0.001383	1.35	30.22	56.23	0.31
Chippewa	Lower	1354.976	5y6hSCS	20.1	199.51	201.45		201.52	0.001337	1.25	22.59	37.58	0.3
Chippewa	Lower	1354.976	2y6hSCS	13.5	199.51	201.15		201.2	0.001185	1.04	16.24	16.15	0.27
Chippewa	Lower	1354.976	100y4hChicago	34.9	199.51	201.96		202.04	0.001211	1.41	55.24	80.81	0.3
Chippewa	Lower	1354.976	2yrFlow100yrLake	13.5	199.51	201.15		201.2	0.001185	1.04	16.24	16.15	0.27
Chippewa	Lower	1305	Timmins	119.1	199.53	204.55		204.57	0.000287	1.11	319.72	169.8	0.16
Chippewa	Lower	1305	100y6hSCS	41.8	199.53	202.11		202.19	0.001285	1.45	54.31	45.28	0.31
Chippewa	Lower	1305	50y6hSCS	36.4	199.53	201.94		202.02	0.001375	1.43	46.82	43.51	0.31
Chippewa	Lower	1305	25y6hSCS	31.2	199.53	201.77		201.85	0.001448	1.39	39.69	40.31	0.32
Chippewa	Lower	1305	10y6hSCS	24.7	199.53	201.54		201.62	0.001607	1.34	30.56	38.79	0.33
Chippewa	Lower	1305	5y6hSCS	20.1	199.53	201.37		201.44	0.00171	1.29	24.04	36.69	0.33
Chippewa	Lower	1305	2y6hSCS	13.5	199.53	201.07		201.13	0.001652	1.1	15.62	17.45	0.31
Chippewa	Lower	1305	100y4hChicago	34.9	199.53	201.89		201.97	0.001398	1.42	44.74	42.64	0.31
Chippewa	Lower	1305	2yrFlow100yrLake	13.5	199.53	201.07		201.13	0.001652	1.1	15.62	17.45	0.31
Chippewa	Lower	1240.372	Timmins	119.1	199.36	204.54		204.56	0.000206	0.96	428.07	259.45	0.14
Chippewa	Lower	1240.372	100y6hSCS	41.8	199.36	201.97		202.09	0.001749	1.66	37.11	23.29	0.36
Chippewa	Lower	1240.372	50y6hSCS	36.4	199.36	201.81		201.92	0.001735	1.57	33.49	22.14	0.35
Chippewa	Lower	1240.372	25y6hSCS	31.2	199.36	201.65		201.75	0.001714	1.47	29.99	21.12	0.35
Chippewa	Lower	1240.372	10y6hSCS	24.7	199.36	201.43		201.51	0.001663	1.34	25.55	19.77	0.33
Chippewa	Lower	1240.372	5y6hSCS	20.1	199.36	201.27		201.33	0.001563	1.21	22.47	18.27	0.32
Chippewa	Lower	1240.372	2y6hSCS	13.5	199.36	200.98		201.03	0.00152	1.03	17.29	17.19	0.3
Chippewa	Lower	1240.372	100y4hChicago	34.9	199.36	201.76		201.87	0.00173	1.54	32.49	21.85	0.35
Chippewa	Lower	1240.372	2yrFlow100yrLake	13.5	199.36	200.98		201.03	0.00152	1.03	17.29	17.19	0.3
Chippewa	Lower	1237.096	Timmins	119.1	199.37	204.54	202.12	204.55	0.000217	0.98	428.4	260.81	0.14
Chippewa	Lower	1237.096	100y6hSCS	41.8	199.37	201.91	200.98	202.08	0.002545	2.03	28.35	17.8	0.43
Chippewa	Lower	1237.096	50y6hSCS	36.4	199.37	201.76	200.88	201.91	0.002447	1.91	26.32	17.52	0.42
Chippewa	Lower	1237.096	25y6hSCS	31.2	199.37	201.6	200.76	201.74	0.002339	1.77	24.23	17.14	0.4
Chippewa	Lower	1237.096	10y6hSCS	24.7	199.37	201.4	200.62	201.5	0.002167	1.58	21.42	16.74	0.38
Chippewa	Lower	1237.096	5y6hSCS	20.1	199.37	201.24	200.52	201.33	0.002002	1.43	19.26	16.44	0.36
Chippewa	Lower	1237.096	2y6hSCS	13.5	199.37	200.96	200.35	201.02	0.001811	1.19	15.39	15.9	0.33
Chippewa	Lower	1237.096	100y4hChicago	34.9	199.37	201.71	200.84	201.86	0.002418	1.87	25.73	17.41	0.41
Chippewa	Lower	1237.096	2yrFlow100yrLake	13.5	199.37	200.96	200.35	201.02	0.001811	1.19	15.39	15.9	0.33
Chippewa	Lower	1224.539		Bridge									
Chippewa	Lower	1210.539	Timmins	119.1	199.48	202.4	202.4	203.55	0.013868	5.34	31.91	30.16	1.04
Chippewa	Lower	1210.539	100y6hSCS	41.8	199.48	201.22	201.22	201.81	0.014246	3.67	15.82	18	0.96
Chippewa	Lower	1210.539	50y6hSCS	36.4	199.48	201.12	201.12	201.65	0.014184	3.49	14.38	17.68	0.94
Chippewa	Lower	1210.539	25y6hSCS	31.2	199.48	201.01	201.01	201.49	0.014138	3.31	12.9	16.97	0.93
Chippewa	Lower	1210.539	10y6hSCS	24.7	199.48	200.86	200.86	201.28	0.014092	3.04	10.88	16.38	0.91
Chippewa	Lower	1210.539	5y6hSCS	20.1	199.48	200.73	200.73	201.11	0.014971	2.88	9.06	15.84	0.92
Chippewa	Lower	1210.539	2y6hSCS	13.5	199.48	200.5	200.5	200.82	0.016759	2.58	6.29	12.89	0.93
Chippewa	Lower	1210.539	100y4hChicago	34.9	199.48	201.09	201.09	201.61	0.014144	3.44	13.98	17.57	0.94
Chippewa	Lower	1210.539	2yrFlow100yrLake	13.5	199.48	200.5	200.5	200.82	0.016759	2.58	6.29	12.89	0.93
Chippewa	Lower	1204.131	Timmins	119.1	199.15	201.72	202.24	203.3	0.025026	5.9	29.84	30.36	1.29
Chippewa	Lower	1204.131	100y6hSCS	41.8	199.15	200.87	201.01	201.64	0.021452	3.89	11.25	13.04	1.1
Chippewa	Lower	1204.131	50y6hSCS	36.4	199.15	200.73	200.86	201.47	0.024132	3.82	9.63	10.13	1.14
Chippewa	Lower	1204.131	25y6hSCS	31.2	199.15	200.58	200.72	201.3	0.027209	3.75	8.33	8.29	1.19

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	1204.131	10y6hSCS	24.7	199.15	200.39	200.54	201.07	0.031554	3.67	6.74	7.75	1.26
Chippewa	Lower	1204.131	5y6hSCS	20.1	199.15	200.62	200.4	200.9	0.010063	2.33	8.65	8.82	0.73
Chippewa	Lower	1204.131	2y6hSCS	13.5	199.15	200.47	200.16	200.64	0.00728	1.83	7.37	7.95	0.61
Chippewa	Lower	1204.131	100y4hChicago	34.9	199.15	200.69	200.82	201.42	0.025	3.8	9.25	9.08	1.15
Chippewa	Lower	1204.131	2yrFlow100yrLake	13.5	199.15	200.47	200.16	200.64	0.00728	1.83	7.37	7.95	0.61
Chippewa	Lower	1118	Timmins	119.1	198.58	201.93	200.79	202.09	0.002099	2.29	109.63	56.8	0.42
Chippewa	Lower	1118	100y6hSCS	41.8	198.58	201.03	200.05	201.09	0.001042	1.28	63.85	45.98	0.28
Chippewa	Lower	1118	50y6hSCS	36.4	198.58	200.84	199.98	200.89	0.001173	1.28	55.02	44.29	0.29
Chippewa	Lower	1118	25y6hSCS	31.2	198.58	200.49	199.89	200.57	0.001931	1.44	40.4	41.27	0.36
Chippewa	Lower	1118	10y6hSCS	24.7	198.58	199.9	199.78	200.1	0.008056	2.19	18.2	32.17	0.68
Chippewa	Lower	1118	5y6hSCS	20.1	198.58	199.72	199.69	199.97	0.011548	2.32	12.77	28.86	0.79
Chippewa	Lower	1118	2y6hSCS	13.5	198.58	199.52	199.51	199.76	0.015272	2.22	7.45	22.67	0.87
Chippewa	Lower	1118	100y4hChicago	34.9	198.58	200.72	199.96	200.78	0.001401	1.34	49.71	42.89	0.31
Chippewa	Lower	1118	2yrFlow100yrLake	13.5	198.58	199.52	199.51	199.76	0.015272	2.22	7.45	22.67	0.87
Chippewa	Lower	1056	Timmins	119.1	197.89	201.88		201.98	0.001114	1.86	154.12	84.6	0.31
Chippewa	Lower	1056	100y6hSCS	41.8	197.89	201.02		201.04	0.000378	0.91	96.81	57.88	0.17
Chippewa	Lower	1056	50y6hSCS	36.4	197.89	200.82		200.84	0.000398	0.89	85.45	56.63	0.17
Chippewa	Lower	1056	25y6hSCS	31.2	197.89	200.46		200.49	0.00057	0.97	65.75	54.1	0.2
Chippewa	Lower	1056	10y6hSCS	24.7	197.89	199.78		199.86	0.001844	1.38	31.66	43.51	0.35
Chippewa	Lower	1056	5y6hSCS	20.1	197.89	199.5		199.61	0.002859	1.52	20.5	37.58	0.42
Chippewa	Lower	1056	2y6hSCS	13.5	197.89	199.22		199.32	0.003469	1.43	11.05	26.96	0.44
Chippewa	Lower	1056	100y4hChicago	34.9	197.89	200.69		200.72	0.000458	0.93	78.37	55.81	0.19
Chippewa	Lower	1056	2yrFlow100yrLake	13.5	197.89	199.22		199.32	0.003469	1.43	11.06	26.96	0.44
Chippewa	Lower	1013	Timmins	119.1	197.66	201.9		201.93	0.000413	1.2	263.36	232.2	0.19
Chippewa	Lower	1013	100y6hSCS	41.8	197.66	201.02		201.03	0.000148	0.61	149.32	87.03	0.11
Chippewa	Lower	1013	50y6hSCS	36.4	197.66	200.82		200.83	0.000149	0.59	133.25	74.23	0.11
Chippewa	Lower	1013	25y6hSCS	31.2	197.66	200.46		200.47	0.000193	0.61	107.64	69.96	0.12
Chippewa	Lower	1013	10y6hSCS	24.7	197.66	199.78		199.8	0.000485	0.79	63.59	60.54	0.18
Chippewa	Lower	1013	5y6hSCS	20.1	197.66	199.51		199.53	0.000675	0.84	47.2	58.22	0.21
Chippewa	Lower	1013	2y6hSCS	13.5	197.66	199.21		199.23	0.000828	0.81	30.05	56.07	0.23
Chippewa	Lower	1013	100y4hChicago	34.9	197.66	200.69		200.7	0.000166	0.6	124	72.62	0.11
Chippewa	Lower	1013	2yrFlow100yrLake	13.5	197.66	199.21		199.23	0.000828	0.81	30.06	56.07	0.23
Chippewa	Lower	940.4304	Timmins	122.7	197.42	201.7		201.87	0.001402	2.17	112.84	55.63	0.34
Chippewa	Lower	940.4304	100y6hSCS	43.6	197.42	200.96		201.01	0.00044	1.06	76.35	46.35	0.19
Chippewa	Lower	940.4304	50y6hSCS	38.1	197.42	200.77		200.81	0.000445	1.03	67.32	45.09	0.19
Chippewa	Lower	940.4304	25y6hSCS	32.7	197.42	200.4		200.45	0.000577	1.08	51.54	42.05	0.21
Chippewa	Lower	940.4304	10y6hSCS	25.9	197.42	199.65		199.74	0.001428	1.37	22.75	22.54	0.31
Chippewa	Lower	940.4304	5y6hSCS	21.1	197.42	199.37		199.45	0.001617	1.32	17.79	13.56	0.32
Chippewa	Lower	940.4304	2y6hSCS	14.3	197.42	199.09		199.15	0.001347	1.07	14.24	12.72	0.28
Chippewa	Lower	940.4304	100y4hChicago	36.5	197.42	200.64		200.68	0.000491	1.05	61.61	42.91	0.19
Chippewa	Lower	940.4304	2yrFlow100yrLake	14.3	197.42	199.09		199.15	0.001347	1.07	14.24	12.72	0.28
Chippewa	Lower	880	Timmins	122.7	197.49	201.75		201.78	0.000418	1.17	246.91	99.63	0.19
Chippewa	Lower	880	100y6hSCS	43.6	197.49	200.97		200.98	0.000148	0.6	171.45	93.38	0.11
Chippewa	Lower	880	50y6hSCS	38.1	197.49	200.77		200.78	0.000154	0.59	153.04	91.49	0.11
Chippewa	Lower	880	25y6hSCS	32.7	197.49	200.41		200.42	0.000212	0.63	120.71	85.6	0.13
Chippewa	Lower	880	10y6hSCS	25.9	197.49	199.62		199.66	0.000817	0.96	59.09	75.87	0.23
Chippewa	Lower	880	5y6hSCS	21.1	197.49	199.29		199.34	0.001643	1.19	34.48	68.59	0.32
Chippewa	Lower	880	2y6hSCS	14.3	197.49	198.98		199.05	0.002384	1.21	16.57	37.4	0.37
Chippewa	Lower	880	100y4hChicago	36.5	197.49	200.64		200.65	0.000171	0.6	141.28	89.02	0.11
Chippewa	Lower	880	2yrFlow100yrLake	14.3	197.49	198.98		199.05	0.002383	1.21	16.57	37.41	0.37
Chippewa	Lower	826.4708	Timmins	122.7	197.41	201.71		201.76	0.000539	1.31	206.05	85.43	0.21
Chippewa	Lower	826.4708	100y6hSCS	43.6	197.41	200.96		200.97	0.000185	0.67	142.75	80.28	0.12
Chippewa	Lower	826.4708	50y6hSCS	38.1	197.41	200.76		200.77	0.000187	0.64	127.18	76.71	0.12
Chippewa	Lower	826.4708	25y6hSCS	32.7	197.41	200.39		200.4	0.00023	0.65	101.08	65.26	0.13
Chippewa	Lower	826.4708	10y6hSCS	25.9	197.41	199.59		199.61	0.000679	0.88	54.28	49.18	0.21
Chippewa	Lower	826.4708	5y6hSCS	21.1	197.41	199.23		199.27	0.001179	1	37.15	45.63	0.26
Chippewa	Lower	826.4708	2y6hSCS	14.3	197.41	198.88		198.93	0.001763	1.04	21.96	42.26	0.31
Chippewa	Lower	826.4708	100y4hChicago	36.5	197.41	200.63		200.64	0.000208	0.66	117.32	73.27	0.12
Chippewa	Lower	826.4708	2yrFlow100yrLake	14.3	197.41	198.88		198.93	0.001762	1.04	21.97	42.26	0.31
Chippewa	Lower	787.1953	Timmins	124	197.4	201.64		201.73	0.001137	1.85	155.89	76.85	0.3
Chippewa	Lower	787.1953	100y6hSCS	44.1	197.4	200.94		200.96	0.000377	0.94	105.44	67.38	0.17
Chippewa	Lower	787.1953	50y6hSCS	38.6	197.4	200.74		200.76	0.000399	0.92	92.26	64.66	0.17
Chippewa	Lower	787.1953	25y6hSCS	33.1	197.4	200.35		200.39	0.000575	1.01	68.76	58.36	0.2
Chippewa	Lower	787.1953	10y6hSCS	26.3	197.4	199.43		199.56	0.002904	1.7	23.78	37.15	0.42

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	787.1953	5y6hSCS	21.4	197.4	198.9		199.15	0.007927	2.21	10.28	10.26	0.65
Chippewa	Lower	787.1953	2y6hSCS	14.5	197.4	198.51		198.77	0.0123	2.24	6.53	8.48	0.77
Chippewa	Lower	787.1953	100y4hChicago	37	197.4	200.6		200.63	0.00046	0.96	83.65	62.45	0.18
Chippewa	Lower	787.1953	2yrFlow100yrLake	14.5	197.4	198.51		198.77	0.012268	2.24	6.54	8.49	0.77
Chippewa	Lower	785.4911	Timmins	124	197.34	201.63	200.28	201.72	0.001205	1.89	151.74	80.63	0.3
Chippewa	Lower	785.4911	100y6hSCS	44.1	197.34	200.93	199.12	200.96	0.000395	0.95	101.86	66.53	0.17
Chippewa	Lower	785.4911	50y6hSCS	38.6	197.34	200.73	199	200.76	0.000417	0.94	88.8	63.85	0.17
Chippewa	Lower	785.4911	25y6hSCS	33.1	197.34	200.35	198.85	200.39	0.000604	1.03	65.52	57.6	0.2
Chippewa	Lower	785.4911	10y6hSCS	26.3	197.34	199.38	198.67	199.55	0.003524	1.85	15.33	33.89	0.45
Chippewa	Lower	785.4911	5y6hSCS	21.4	197.34	198.91	198.53	199.13	0.006794	2.1	10.37	9.3	0.6
Chippewa	Lower	785.4911	2y6hSCS	14.5	197.34	198.52	198.3	198.73	0.009736	2.04	7.09	7.85	0.69
Chippewa	Lower	785.4911	100y4hChicago	37	197.34	200.6	198.96	200.63	0.000483	0.98	80.26	61.77	0.18
Chippewa	Lower	785.4911	2yrFlow100yrLake	14.5	197.34	198.52	198.3	198.73	0.009714	2.04	7.1	7.85	0.69
Chippewa	Lower	785.233	Bridge										
Chippewa	Lower	779.3953	Timmins	124	197.29	201.6	200.22	201.69	0.00115	1.71	148.89	78.32	0.28
Chippewa	Lower	779.3953	100y6hSCS	44.1	197.29	200.92	198.88	200.95	0.000377	0.86	99.37	67.53	0.16
Chippewa	Lower	779.3953	50y6hSCS	38.6	197.29	200.71	198.76	200.74	0.000408	0.85	85.46	64.49	0.16
Chippewa	Lower	779.3953	25y6hSCS	33.1	197.29	200.2	198.63	200.24	0.000769	1.03	54.66	54.13	0.21
Chippewa	Lower	779.3953	10y6hSCS	26.3	197.29	199.38	198.45	199.5	0.002541	1.53	17.23	29.34	0.38
Chippewa	Lower	779.3953	5y6hSCS	21.4	197.29	198.91	198.32	199.05	0.004244	1.7	12.58	9.53	0.47
Chippewa	Lower	779.3953	2y6hSCS	14.5	197.29	198.49	198.12	198.63	0.005552	1.65	8.76	8.72	0.53
Chippewa	Lower	779.3953	100y4hChicago	37	197.29	200.56	198.73	200.59	0.000489	0.9	75.73	62.28	0.17
Chippewa	Lower	779.3953	2yrFlow100yrLake	14.5	197.29	198.49	198.12	198.63	0.005531	1.65	8.78	8.72	0.53
Chippewa	Lower	776.164	Timmins	124	197.16	201.59		201.68	0.000909	1.65	150.6	75.31	0.27
Chippewa	Lower	776.164	100y6hSCS	44.1	197.16	200.92		200.94	0.00027	0.79	104.32	64.24	0.14
Chippewa	Lower	776.164	50y6hSCS	38.6	197.16	200.71		200.73	0.000284	0.78	91	62.59	0.14
Chippewa	Lower	776.164	25y6hSCS	33.1	197.16	200.2		200.23	0.000478	0.89	61.25	52.19	0.18
Chippewa	Lower	776.164	10y6hSCS	26.3	197.16	199.39		199.47	0.001585	1.26	23.86	37.56	0.31
Chippewa	Lower	776.164	5y6hSCS	21.4	197.16	198.92		199.02	0.002911	1.42	15.03	11.6	0.4
Chippewa	Lower	776.164	2y6hSCS	14.5	197.16	198.49		198.59	0.003997	1.41	10.3	10.5	0.45
Chippewa	Lower	776.164	100y4hChicago	37	197.16	200.56		200.58	0.000333	0.81	81.51	60.67	0.15
Chippewa	Lower	776.164	2yrFlow100yrLake	14.5	197.16	198.49		198.59	0.003982	1.41	10.32	10.5	0.45
Chippewa	Lower	760	Timmins	124	196.99	201.6		201.66	0.000561	1.4	174.24	68.01	0.22
Chippewa	Lower	760	100y6hSCS	44.1	196.99	200.92		200.94	0.000157	0.66	129.48	64.2	0.11
Chippewa	Lower	760	50y6hSCS	38.6	196.99	200.71		200.73	0.00016	0.63	116.07	63.26	0.11
Chippewa	Lower	760	25y6hSCS	33.1	196.99	200.2		200.22	0.000258	0.71	84.64	59.14	0.14
Chippewa	Lower	760	10y6hSCS	26.3	196.99	199.4		199.44	0.000753	0.95	43.56	46.45	0.23
Chippewa	Lower	760	5y6hSCS	21.4	196.99	198.91		198.97	0.001829	1.2	22.92	31.78	0.34
Chippewa	Lower	760	2y6hSCS	14.5	196.99	198.47		198.53	0.002401	1.16	14.19	13.64	0.37
Chippewa	Lower	760	100y4hChicago	37	196.99	200.56		200.58	0.000184	0.66	106.49	62.44	0.12
Chippewa	Lower	760	2yrFlow100yrLake	14.5	196.99	198.47		198.53	0.002393	1.16	14.21	13.65	0.37
Chippewa	Lower	743	Timmins	124	197	201.6		201.65	0.000457	1.31	196.6	68.86	0.2
Chippewa	Lower	743	100y6hSCS	44.1	197	200.92		200.93	0.000119	0.6	151.2	64.39	0.1
Chippewa	Lower	743	50y6hSCS	38.6	197	200.71		200.72	0.000115	0.56	138.03	61.83	0.1
Chippewa	Lower	743	25y6hSCS	33.1	197	200.2		200.22	0.00017	0.61	107.23	59.37	0.12
Chippewa	Lower	743	10y6hSCS	26.3	197	199.4		199.43	0.000435	0.79	62.46	52.03	0.18
Chippewa	Lower	743	5y6hSCS	21.4	197	198.91		198.94	0.000931	0.96	38.38	44.7	0.25
Chippewa	Lower	743	2y6hSCS	14.5	197	198.44		198.49	0.002005	1.1	18.59	37.02	0.34
Chippewa	Lower	743	100y4hChicago	37	197	200.56		200.57	0.000128	0.58	128.69	60.95	0.1
Chippewa	Lower	743	2yrFlow100yrLake	14.5	197	198.44		198.49	0.001993	1.1	18.65	37.07	0.34
Chippewa	Lower	718	Timmins	124	196.96	201.58		201.64	0.000526	1.43	188.47	70.87	0.22
Chippewa	Lower	718	100y6hSCS	44.1	196.96	200.92		200.93	0.000138	0.66	142.82	65.14	0.11
Chippewa	Lower	718	50y6hSCS	38.6	196.96	200.71		200.72	0.000138	0.63	129.19	64.45	0.11
Chippewa	Lower	718	25y6hSCS	33.1	196.96	200.2		200.21	0.000193	0.67	98.57	55.3	0.13
Chippewa	Lower	718	10y6hSCS	26.3	196.96	199.39		199.41	0.000467	0.84	56.65	43.11	0.18
Chippewa	Lower	718	5y6hSCS	21.4	196.96	198.88		198.92	0.000988	1.01	35.76	39.04	0.26
Chippewa	Lower	718	2y6hSCS	14.5	196.96	198.37		198.44	0.002262	1.19	16.83	34.95	0.36
Chippewa	Lower	718	100y4hChicago	37	196.96	200.55		200.57	0.000156	0.65	119.41	63.16	0.11
Chippewa	Lower	718	2yrFlow100yrLake	14.5	196.96	198.37		198.44	0.002245	1.19	16.91	35	0.36
Chippewa	Lower	696	Timmins	124	196.94	201.55		201.62	0.000719	1.58	168.08	70.15	0.25
Chippewa	Lower	696	100y6hSCS	44.1	196.94	200.91		200.93	0.0002	0.75	124.38	66.73	0.13
Chippewa	Lower	696	50y6hSCS	38.6	196.94	200.7		200.71	0.000207	0.73	110.42	65.69	0.13
Chippewa	Lower	696	25y6hSCS	33.1	196.94	200.18		200.2	0.000341	0.83	77.61	59.76	0.16

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	696	10y6hSCS	26.3	196.94	199.34		199.4	0.001024	1.13	36.61	40.02	0.26
Chippewa	Lower	696	5y6hSCS	21.4	196.94	198.75		198.88	0.003061	1.56	16.65	30.74	0.43
Chippewa	Lower	696	2y6hSCS	14.5	196.94	198.18		198.35	0.007213	1.84	7.9	8.78	0.62
Chippewa	Lower	696	100y4hChicago	37	196.94	200.54		200.56	0.000239	0.76	100.34	64.52	0.14
Chippewa	Lower	696	2yrFlow100yrLake	14.5	196.94	198.18		198.35	0.007123	1.83	7.94	8.8	0.61
Chippewa	Lower	693	Timmins	124	196.93	201.55	199.76	201.62	0.000689	1.46	163.06	71.98	0.23
Chippewa	Lower	693	100y6hSCS	44.1	196.93	200.91	198.55	200.93	0.000194	0.69	118.96	67.33	0.12
Chippewa	Lower	693	50y6hSCS	38.6	196.93	200.7	198.42	200.71	0.000202	0.67	104.89	66.03	0.12
Chippewa	Lower	693	25y6hSCS	33.1	196.93	200.18	198.29	200.2	0.00034	0.77	71.95	59.77	0.15
Chippewa	Lower	693	10y6hSCS	26.3	196.93	199.34	198.14	199.39	0.001112	1.07	30.51	31.7	0.26
Chippewa	Lower	693	5y6hSCS	21.4	196.93	198.76	198	198.86	0.002611	1.36	15.82	13.97	0.38
Chippewa	Lower	693	2y6hSCS	14.5	196.93	198.19	197.8	198.31	0.004886	1.54	9.41	10.02	0.51
Chippewa	Lower	693	100y4hChicago	37	196.93	200.54	198.38	200.56	0.000234	0.7	94.76	64.74	0.13
Chippewa	Lower	693	2yrFlow100yrLake	14.5	196.93	198.2	197.8	198.32	0.004825	1.53	9.45	10.03	0.51
Chippewa	Lower	680.523	Culvert										
Chippewa	Lower	662	Timmins	124	196.62	201.01		201.06	0.000533	1.36	200.34	97.72	0.22
Chippewa	Lower	662	100y6hSCS	44.1	196.62	200.45		200.46	0.000134	0.62	148.74	85.11	0.11
Chippewa	Lower	662	50y6hSCS	38.6	196.62	200.07		200.09	0.000173	0.65	118.73	75.71	0.12
Chippewa	Lower	662	25y6hSCS	33.1	196.62	199.72		199.73	0.000219	0.67	93.72	63.63	0.13
Chippewa	Lower	662	10y6hSCS	26.3	196.62	199.09		199.11	0.000452	0.8	57.38	53.62	0.18
Chippewa	Lower	662	5y6hSCS	21.4	196.62	198.65		198.69	0.000868	0.95	35.22	48.67	0.24
Chippewa	Lower	662	2y6hSCS	14.5	196.62	198.16		198.21	0.001728	1.04	16.05	27.37	0.32
Chippewa	Lower	662	100y4hChicago	37	196.62	199.95		199.97	0.00019	0.66	109.9	73.26	0.12
Chippewa	Lower	662	2yrFlow100yrLake	14.5	196.62	198.16		198.21	0.001707	1.04	16.15	27.43	0.32
Chippewa	Lower	656	Timmins	124	196.47	201.02		201.05	0.000281	1.04	258.03	101.29	0.16
Chippewa	Lower	656	100y6hSCS	44.1	196.47	200.45		200.46	0.000064	0.45	203.81	90.79	0.08
Chippewa	Lower	656	50y6hSCS	38.6	196.47	200.08		200.08	0.000078	0.46	170.52	87.41	0.08
Chippewa	Lower	656	25y6hSCS	33.1	196.47	199.72		199.73	0.000095	0.47	140.19	83.72	0.09
Chippewa	Lower	656	10y6hSCS	26.3	196.47	199.1		199.11	0.000177	0.55	89.28	76.79	0.12
Chippewa	Lower	656	5y6hSCS	21.4	196.47	198.67		198.68	0.000287	0.61	60.35	61.65	0.14
Chippewa	Lower	656	2y6hSCS	14.5	196.47	198.18		198.2	0.000508	0.66	32.27	53.86	0.18
Chippewa	Lower	656	100y4hChicago	37	196.47	199.96		199.97	0.000085	0.47	160.27	86.35	0.08
Chippewa	Lower	656	2yrFlow100yrLake	14.5	196.47	198.18		198.2	0.000503	0.66	32.46	53.9	0.18
Chippewa	Lower	642	Timmins	124	196.5	201.02		201.05	0.000256	0.99	265.22	94.11	0.15
Chippewa	Lower	642	100y6hSCS	44.1	196.5	200.45		200.46	0.000061	0.44	212.03	92.15	0.07
Chippewa	Lower	642	50y6hSCS	38.6	196.5	200.08		200.08	0.000071	0.44	178.97	83.61	0.08
Chippewa	Lower	642	25y6hSCS	33.1	196.5	199.72		199.73	0.000084	0.44	150.14	80.6	0.08
Chippewa	Lower	642	10y6hSCS	26.3	196.5	199.1		199.1	0.000153	0.51	101.13	76.33	0.11
Chippewa	Lower	642	5y6hSCS	21.4	196.5	198.67		198.68	0.000262	0.58	68.94	73.68	0.14
Chippewa	Lower	642	2y6hSCS	14.5	196.5	198.17		198.19	0.000506	0.65	34.47	58.31	0.18
Chippewa	Lower	642	100y4hChicago	37	196.5	199.96		199.96	0.000075	0.44	169.23	81.26	0.08
Chippewa	Lower	642	2yrFlow100yrLake	14.5	196.5	198.17		198.19	0.0005	0.65	34.68	58.38	0.18
Chippewa	Lower	625	Timmins	124	196.49	201.02		201.04	0.000287	1	271.96	94.66	0.16
Chippewa	Lower	625	100y6hSCS	44.1	196.49	200.45		200.45	0.000067	0.43	219.48	90.14	0.08
Chippewa	Lower	625	50y6hSCS	38.6	196.49	200.08		200.08	0.000085	0.45	185.95	89.26	0.08
Chippewa	Lower	625	25y6hSCS	33.1	196.49	199.72		199.73	0.000107	0.47	154.49	88.21	0.09
Chippewa	Lower	625	10y6hSCS	26.3	196.49	199.09		199.1	0.000208	0.55	101.74	79.5	0.12
Chippewa	Lower	625	5y6hSCS	21.4	196.49	198.66		198.67	0.000415	0.66	67.98	76.95	0.16
Chippewa	Lower	625	2y6hSCS	14.5	196.49	198.14		198.17	0.00126	0.89	29.83	67.83	0.27
Chippewa	Lower	625	100y4hChicago	37	196.49	199.96		199.96	0.000092	0.46	175.43	89.04	0.09
Chippewa	Lower	625	2yrFlow100yrLake	14.5	196.49	198.15		198.18	0.001237	0.88	30.11	67.91	0.27
Chippewa	Lower	612	Timmins	124	196.56	201.01	198.88	201.04	0.000345	1.11	252.38	91.4	0.18
Chippewa	Lower	612	100y6hSCS	44.1	196.56	200.45	198.21	200.45	0.000085	0.5	201.48	90.08	0.08
Chippewa	Lower	612	50y6hSCS	38.6	196.56	200.07	198.09	200.08	0.00011	0.53	167.9	89.03	0.09
Chippewa	Lower	612	25y6hSCS	33.1	196.56	199.72	197.99	199.72	0.000143	0.55	136.55	86.79	0.11
Chippewa	Lower	612	10y6hSCS	26.3	196.56	199.08	197.83	199.1	0.00031	0.69	85.12	78.7	0.15
Chippewa	Lower	612	5y6hSCS	21.4	196.56	198.61	197.7	198.66	0.001073	1.08	29.41	62.55	0.27
Chippewa	Lower	612	2y6hSCS	14.5	196.56	198.07	197.45	198.14	0.002129	1.18	14.71	39.9	0.35
Chippewa	Lower	612	100y4hChicago	37	196.56	199.95	198.07	199.96	0.000121	0.54	157.38	88.55	0.1
Chippewa	Lower	612	2yrFlow100yrLake	14.5	196.56	198.08	197.45	198.14	0.002095	1.17	14.81	40.12	0.35
Chippewa	Lower	599	Timmins	124	196.43	200.94		201.02	0.000897	1.77	172.79	90.9	0.28
Chippewa	Lower	599	100y6hSCS	44.1	196.43	200.43		200.45	0.000213	0.79	129.71	78.34	0.13
Chippewa	Lower	599	50y6hSCS	38.6	196.43	200.05		200.07	0.0003	0.87	100.2	76.55	0.15

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	599	25y6hSCS	33.1	196.43	199.68		199.72	0.000434	0.96	72.49	74.98	0.18
Chippewa	Lower	599	10y6hSCS	26.3	196.43	199.01		199.08	0.001056	1.25	31.17	46.21	0.27
Chippewa	Lower	599	5y6hSCS	21.4	196.43	198.54		198.64	0.00181	1.39	17.76	18.18	0.34
Chippewa	Lower	599	2y6hSCS	14.5	196.43	198		198.1	0.00314	1.42	10.5	10.71	0.42
Chippewa	Lower	599	100y4hChicago	37	196.43	199.93		199.96	0.000341	0.9	90.92	76.02	0.16
Chippewa	Lower	599	2yrFlow100yrLake	14.5	196.43	198.01		198.11	0.003087	1.41	10.57	10.75	0.42
Chippewa	Lower	587	Timmins	124	196.38	200.86		201	0.001186	2.14	144.07	105.67	0.33
Chippewa	Lower	587	100y6hSCS	44.1	196.38	200.42		200.45	0.000247	0.91	105.43	76.44	0.15
Chippewa	Lower	587	50y6hSCS	38.6	196.38	200.04		200.07	0.000295	0.93	81.25	52.35	0.16
Chippewa	Lower	587	25y6hSCS	33.1	196.38	199.68		199.71	0.000328	0.91	65.43	33.22	0.16
Chippewa	Lower	587	10y6hSCS	26.3	196.38	199.02		199.06	0.000547	1	44.57	30.02	0.2
Chippewa	Lower	587	5y6hSCS	21.4	196.38	198.56		198.61	0.000881	1.11	30.88	28.31	0.25
Chippewa	Lower	587	2y6hSCS	14.5	196.38	198		198.06	0.001441	1.14	17.28	20.6	0.3
Chippewa	Lower	587	100y4hChicago	37	196.38	199.92		199.95	0.000313	0.93	75.08	50.78	0.16
Chippewa	Lower	587	2yrFlow100yrLake	14.5	196.38	198.01		198.07	0.001418	1.13	17.4	20.63	0.3
Chippewa	Lower	583	Timmins	124	196.4	200.77	199.32	200.99	0.001656	2.48	127.98	191.62	0.39
Chippewa	Lower	583	100y6hSCS	44.1	196.4	200.4	197.95	200.44	0.000313	1.02	84.49	68.92	0.17
Chippewa	Lower	583	50y6hSCS	38.6	196.4	200.03	197.87	200.07	0.000344	0.99	68.36	33.84	0.17
Chippewa	Lower	583	25y6hSCS	33.1	196.4	199.67	197.76	199.71	0.000402	1	56.47	32.24	0.18
Chippewa	Lower	583	10y6hSCS	26.3	196.4	199.01	197.6	199.06	0.000687	1.11	36.15	26.96	0.23
Chippewa	Lower	583	5y6hSCS	21.4	196.4	198.54	197.47	198.6	0.000988	1.16	25.65	20.15	0.26
Chippewa	Lower	583	2y6hSCS	14.5	196.4	198	197.27	198.06	0.001461	1.13	16.06	15.61	0.3
Chippewa	Lower	583	100y4hChicago	37	196.4	199.91	197.84	199.95	0.000366	1	64.34	33.26	0.18
Chippewa	Lower	583	2yrFlow100yrLake	14.5	196.4	198	197.27	198.06	0.001439	1.13	16.16	15.66	0.3
Chippewa	Lower	558.9447		Culvert									
Chippewa	Lower	534	Timmins	124	195.94	200.43		200.55	0.001045	1.95	171.18	191.23	0.3
Chippewa	Lower	534	100y6hSCS	44.1	195.94	199.48		199.51	0.000379	0.99	93.73	59.95	0.17
Chippewa	Lower	534	50y6hSCS	38.6	195.94	199.19		199.23	0.00046	1.02	76.82	58.34	0.19
Chippewa	Lower	534	25y6hSCS	33.1	195.94	199.07		199.1	0.00042	0.95	69.49	57.23	0.18
Chippewa	Lower	534	10y6hSCS	26.3	195.94	198.66		198.7	0.000572	1	47.05	51.4	0.2
Chippewa	Lower	534	5y6hSCS	21.4	195.94	198.33		198.38	0.000727	1.03	31.25	45.25	0.23
Chippewa	Lower	534	2y6hSCS	14.5	195.94	197.89		197.93	0.000842	0.94	17.94	17.85	0.23
Chippewa	Lower	534	100y4hChicago	37	195.94	199.15		199.18	0.000458	1.01	74.04	57.97	0.19
Chippewa	Lower	534	2yrFlow100yrLake	14.5	195.94	197.89		197.94	0.00083	0.94	18.06	17.97	0.23
Chippewa	Lower	526	Timmins	124	195.96	200.45		200.53	0.000833	1.73	202.91	232.72	0.27
Chippewa	Lower	526	100y6hSCS	44.1	195.96	199.48		199.51	0.000325	0.91	106.28	68.64	0.16
Chippewa	Lower	526	50y6hSCS	38.6	195.96	199.2		199.23	0.000402	0.95	86.87	67.08	0.18
Chippewa	Lower	526	25y6hSCS	33.1	195.96	199.07		199.1	0.000372	0.89	78.38	66.12	0.17
Chippewa	Lower	526	10y6hSCS	26.3	195.96	198.65		198.69	0.000529	0.95	52.26	60.19	0.2
Chippewa	Lower	526	5y6hSCS	21.4	195.96	198.33		198.38	0.000695	0.99	33.57	53.23	0.22
Chippewa	Lower	526	2y6hSCS	14.5	195.96	197.88		197.92	0.000823	0.92	19.19	20.96	0.23
Chippewa	Lower	526	100y4hChicago	37	195.96	199.15		199.18	0.000403	0.94	83.65	66.82	0.18
Chippewa	Lower	526	2yrFlow100yrLake	14.5	195.96	197.89		197.93	0.000811	0.91	19.34	21.04	0.23
Chippewa	Lower	511	Timmins	124	195.84	200.43	198.99	200.52	0.000847	1.8	218.02	365.21	0.28
Chippewa	Lower	511	100y6hSCS	44.1	195.84	199.47	197.54	199.5	0.000385	1.02	98.25	76.26	0.18
Chippewa	Lower	511	50y6hSCS	38.6	195.84	199.18	197.42	199.22	0.000475	1.07	77.31	67.89	0.2
Chippewa	Lower	511	25y6hSCS	33.1	195.84	199.05	197.3	199.09	0.00044	1	68.86	66.37	0.19
Chippewa	Lower	511	10y6hSCS	26.3	195.84	198.63	197.14	198.68	0.0006	1.05	44.06	52.6	0.21
Chippewa	Lower	511	5y6hSCS	21.4	195.84	198.31	197.01	198.36	0.000706	1.04	29.33	35.53	0.23
Chippewa	Lower	511	2y6hSCS	14.5	195.84	197.87	196.78	197.91	0.000799	0.95	17.99	17.07	0.23
Chippewa	Lower	511	100y4hChicago	37	195.84	199.13	197.38	199.17	0.000476	1.06	74.06	67.24	0.2
Chippewa	Lower	511	2yrFlow100yrLake	14.5	195.84	197.87	196.78	197.92	0.000787	0.94	18.11	17.2	0.23
Chippewa	Lower	490.9918	Timmins	124	195.92	200.44	198.97	200.5	0.000648	1.52	250.89	475.26	0.23
Chippewa	Lower	490.9918	100y6hSCS	44.1	195.92	199.46	197.58	199.49	0.000363	0.96	106.11	96.82	0.17
Chippewa	Lower	490.9918	50y6hSCS	38.6	195.92	199.17	197.45	199.21	0.000462	1.02	84.25	82.94	0.19
Chippewa	Lower	490.9918	25y6hSCS	33.1	195.92	199.05	197.31	199.08	0.000431	0.96	75.1	77.93	0.18
Chippewa	Lower	490.9918	10y6hSCS	26.3	195.92	198.62	197.14	198.67	0.000617	1.03	46.52	56.41	0.21
Chippewa	Lower	490.9918	5y6hSCS	21.4	195.92	198.3	196.99	198.35	0.000756	1.04	31.46	36.82	0.23
Chippewa	Lower	490.9918	2y6hSCS	14.5	195.92	197.85	196.77	197.89	0.000896	0.97	18.1	21.33	0.24
Chippewa	Lower	490.9918	100y4hChicago	37	195.92	199.12	197.38	199.16	0.000465	1.01	80.72	79.53	0.19
Chippewa	Lower	490.9918	2yrFlow100yrLake	14.5	195.92	197.85	196.77	197.9	0.000882	0.96	18.26	21.5	0.23
Chippewa	Lower	486.9546	Timmins	124	195.89	200.45	198.91	200.49	0.000507	1.35	289.15	509.04	0.21
Chippewa	Lower	486.9546	100y6hSCS	44.1	195.89	199.46	197.58	199.49	0.00038	0.97	105.61	129.18	0.17

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	486.9546	50y6hSCS	38.6	195.89	199.17	197.47	199.21	0.000466	1.01	81.94	103.85	0.19
Chippewa	Lower	486.9546	25y6hSCS	33.1	195.89	199.04	197.34	199.08	0.000426	0.94	72.4	94.9	0.18
Chippewa	Lower	486.9546	10y6hSCS	26.3	195.89	198.58	197.18	198.66	0.000956	1.28	20.56	51.44	0.26
Chippewa	Lower	486.9546	5y6hSCS	21.4	195.89	198.27	197.05	198.34	0.001003	1.19	17.91	34.98	0.26
Chippewa	Lower	486.9546	2y6hSCS	14.5	195.89	197.84	196.84	197.89	0.001009	1.02	14.16	18.97	0.26
Chippewa	Lower	486.9546	100y4hChicago	37	195.89	199.12	197.43	199.16	0.000471	1.01	78.21	102.36	0.19
Chippewa	Lower	486.9546	2yrFlow100yrLake	14.5	195.89	197.84	196.84	197.9	0.000994	1.02	14.22	19.02	0.25
Chippewa	Lower	466.612		Culvert									
Chippewa	Lower	445.1122	Timmins	124	195.82	200.47	198.68	200.48	0.000194	0.89	576.92	503.24	0.13
Chippewa	Lower	445.1122	100y6hSCS	44.1	195.82	199.47	197.26	199.48	0.000145	0.65	219.11	219.74	0.11
Chippewa	Lower	445.1122	50y6hSCS	38.6	195.82	199.18	197.15	199.19	0.000197	0.72	146.5	184.31	0.13
Chippewa	Lower	445.1122	25y6hSCS	33.1	195.82	199.04	197.02	199.06	0.000194	0.69	128.36	158.37	0.13
Chippewa	Lower	445.1122	10y6hSCS	26.3	195.82	198.46	196.86	198.53	0.000685	1.18	22.26	99.29	0.23
Chippewa	Lower	445.1122	5y6hSCS	21.4	195.82	198.21	196.74	198.26	0.000639	1.07	20.08	75.9	0.22
Chippewa	Lower	445.1122	2y6hSCS	14.5	195.82	197.83	196.54	197.86	0.000531	0.86	16.81	17.16	0.2
Chippewa	Lower	445.1122	100y4hChicago	37	195.82	199.12	197.11	199.14	0.000204	0.72	138.83	172.5	0.13
Chippewa	Lower	445.1122	2yrFlow100yrLake	14.5	195.82	197.83	196.54	197.87	0.000525	0.86	16.87	17.19	0.2
Chippewa	Lower	435.0401	Timmins	124	195.87	200.47	198.92	200.48	0.000277	0.99	528.97	476.06	0.15
Chippewa	Lower	435.0401	100y6hSCS	44.1	195.87	199.47	197.78	199.48	0.000235	0.77	197.18	190.64	0.13
Chippewa	Lower	435.0401	50y6hSCS	38.6	195.87	199.17	197.62	199.19	0.000353	0.89	125.08	176.74	0.16
Chippewa	Lower	435.0401	25y6hSCS	33.1	195.87	199.03	197.48	199.05	0.000355	0.87	110.19	154.89	0.16
Chippewa	Lower	435.0401	10y6hSCS	26.3	195.87	198.44	197.26	198.52	0.001166	1.36	47.35	102.11	0.28
Chippewa	Lower	435.0401	5y6hSCS	21.4	195.87	198.14	197.1	198.24	0.001673	1.49	21.82	48.97	0.33
Chippewa	Lower	435.0401	2y6hSCS	14.5	195.87	197.76	196.84	197.84	0.001624	1.29	13.16	11.11	0.31
Chippewa	Lower	435.0401	100y4hChicago	37	195.87	199.11	197.58	199.13	0.000369	0.9	118.74	166.64	0.16
Chippewa	Lower	435.0401	2yrFlow100yrLake	14.5	195.87	197.77	196.84	197.85	0.001599	1.28	13.24	11.15	0.31
Chippewa	Lower	419	Timmins	124	195.77	200.47		200.47	0.000186	0.84	639.45	525.25	0.13
Chippewa	Lower	419	100y6hSCS	44.1	195.77	199.47		199.48	0.000178	0.69	238.44	256.22	0.12
Chippewa	Lower	419	50y6hSCS	38.6	195.77	199.17		199.18	0.000278	0.81	170.71	201.15	0.15
Chippewa	Lower	419	25y6hSCS	33.1	195.77	199.03		199.05	0.000277	0.78	143.77	192.75	0.15
Chippewa	Lower	419	10y6hSCS	26.3	195.77	198.43		198.5	0.00105	1.29	52.69	114.72	0.28
Chippewa	Lower	419	5y6hSCS	21.4	195.77	198.11		198.21	0.001647	1.46	22.97	54.77	0.34
Chippewa	Lower	419	2y6hSCS	14.5	195.77	197.74		197.81	0.001588	1.24	15.25	12.2	0.32
Chippewa	Lower	419	100y4hChicago	37	195.77	199.11		199.13	0.000277	0.79	159.24	197.59	0.15
Chippewa	Lower	419	2yrFlow100yrLake	14.5	195.77	197.75		197.82	0.001559	1.23	15.35	12.21	0.32
Chippewa	Lower	402.6545	Timmins	124	195.78	200.47	198.89	200.47	0.000131	0.7	747.9	582.45	0.11
Chippewa	Lower	402.6545	100y6hSCS	44.1	195.78	199.47	197.52	199.47	0.000141	0.62	278.46	307.53	0.1
Chippewa	Lower	402.6545	50y6hSCS	38.6	195.78	199.17	197.39	199.18	0.000235	0.75	190.5	264.59	0.13
Chippewa	Lower	402.6545	25y6hSCS	33.1	195.78	199.03	197.25	199.04	0.000246	0.74	158.16	222.55	0.14
Chippewa	Lower	402.6545	10y6hSCS	26.3	195.78	198.38	197.06	198.48	0.00124	1.43	24.82	124.46	0.29
Chippewa	Lower	402.6545	5y6hSCS	21.4	195.78	198.1	196.91	198.19	0.00131	1.35	18.59	45.19	0.29
Chippewa	Lower	402.6545	2y6hSCS	14.5	195.78	197.73	196.69	197.79	0.001172	1.12	13.55	9.53	0.27
Chippewa	Lower	402.6545	100y4hChicago	37	195.78	199.11	197.35	199.12	0.000251	0.76	176.31	244.88	0.14
Chippewa	Lower	402.6545	2yrFlow100yrLake	14.5	195.78	197.73	196.69	197.8	0.001153	1.12	13.63	9.56	0.27
Chippewa	Lower	398.3727	Timmins	124	195.84	200.47	198.97	200.47	0.000141	0.69	744.66	618.02	0.11
Chippewa	Lower	398.3727	100y6hSCS	44.1	195.84	199.47	197.68	199.47	0.000158	0.61	272.71	309.83	0.11
Chippewa	Lower	398.3727	50y6hSCS	38.6	195.84	199.16	197.55	199.18	0.000283	0.77	184.55	268.24	0.14
Chippewa	Lower	398.3727	25y6hSCS	33.1	195.84	199.02	197.41	199.04	0.000315	0.79	146.13	242.33	0.15
Chippewa	Lower	398.3727	10y6hSCS	26.3	195.84	198.34	197.23	198.47	0.001873	1.6	17.15	92.17	0.35
Chippewa	Lower	398.3727	5y6hSCS	21.4	195.84	198.06	197.09	198.18	0.001941	1.49	14.86	8.3	0.34
Chippewa	Lower	398.3727	2y6hSCS	14.5	195.84	197.7	196.88	197.78	0.001799	1.25	11.9	8.08	0.32
Chippewa	Lower	398.3727	100y4hChicago	37	195.84	199.1	197.51	199.12	0.00031	0.8	168.98	258.81	0.15
Chippewa	Lower	398.3727	2yrFlow100yrLake	14.5	195.84	197.71	196.88	197.79	0.001765	1.24	11.97	8.08	0.32
Chippewa	Lower	391.4831		Bridge									
Chippewa	Lower	384.7331	Timmins	124	195.76	200.45	199.34	200.46	0.000247	0.96	595.5	674.53	0.15
Chippewa	Lower	384.7331	100y6hSCS	44.1	195.76	199.4	197.49	199.45	0.0005	1.14	109.76	215.91	0.2
Chippewa	Lower	384.7331	50y6hSCS	38.6	195.76	199.01	197.37	199.09	0.000824	1.34	52.83	73.28	0.25
Chippewa	Lower	384.7331	25y6hSCS	33.1	195.76	198.88	197.24	198.95	0.000753	1.25	44.52	59.92	0.24
Chippewa	Lower	384.7331	10y6hSCS	26.3	195.76	198.34	197.07	198.42	0.001079	1.3	24.29	14.41	0.27
Chippewa	Lower	384.7331	5y6hSCS	21.4	195.76	198.06	196.93	198.14	0.001126	1.22	20.44	13.34	0.27
Chippewa	Lower	384.7331	2y6hSCS	14.5	195.76	197.7	196.7	197.75	0.00105	1.03	15.73	12.34	0.26
Chippewa	Lower	384.7331	100y4hChicago	37	195.76	198.94	197.33	199.02	0.000849	1.34	48.22	65.17	0.25
Chippewa	Lower	384.7331	2yrFlow100yrLake	14.5	195.76	197.71	196.7	197.76	0.00103	1.02	15.84	12.37	0.25

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Chippewa	Lower	382.815	Timmins	124	195.76	200.44	198.97	200.46	0.000256	1.03	655.24	819.94	0.15
	Lower	382.815	100y6hSCS	44.1	195.76	199.35	197.39	199.43	0.000685	1.4	54.89	210.5	0.24
	Lower	382.815	50y6hSCS	38.6	195.76	199	197.26	199.08	0.000781	1.39	43.61	32.55	0.25
	Lower	382.815	25y6hSCS	33.1	195.76	198.88	197.14	198.95	0.000679	1.26	40.17	28.56	0.23
	Lower	382.815	10y6hSCS	26.3	195.76	198.34	196.97	198.42	0.00092	1.29	26.44	17.75	0.26
	Lower	382.815	5y6hSCS	21.4	195.76	198.07	196.83	198.13	0.000917	1.18	22.38	13.74	0.26
	Lower	382.815	2y6hSCS	14.5	195.76	197.7	196.62	197.75	0.000815	0.99	17.49	12.92	0.24
	Lower	382.815	100y4hChicago	37	195.76	198.94	197.23	199.02	0.000784	1.37	41.76	29.02	0.25
	Lower	382.815	2yrFlow100yrLake	14.5	195.76	197.71	196.62	197.75	0.0008	0.98	17.61	12.94	0.23
	Lower	379.5403	Timmins	124	195.79	200.44	198.71	200.46	0.000295	1.09	597.3	803.37	0.16
	Lower	379.5403	100y6hSCS	44.1	195.79	199.35	197.34	199.43	0.00068	1.38	41.41	142.36	0.24
	Lower	379.5403	50y6hSCS	38.6	195.79	199	197.22	199.08	0.00077	1.37	36.14	23.99	0.25
	Lower	379.5403	25y6hSCS	33.1	195.79	198.88	197.09	198.95	0.000652	1.23	34.39	23.02	0.23
	Lower	379.5403	10y6hSCS	26.3	195.79	198.34	196.92	198.42	0.000853	1.23	26.33	15.66	0.25
	Lower	379.5403	5y6hSCS	21.4	195.79	198.06	196.79	198.13	0.000881	1.15	22.14	14.76	0.25
	Lower	379.5403	2y6hSCS	14.5	195.79	197.7	196.58	197.74	0.000778	0.96	17.07	12.58	0.23
	Lower	379.5403	100y4hChicago	37	195.79	198.93	197.18	199.02	0.000762	1.34	35.21	23.53	0.25
	Lower	379.5403	2yrFlow100yrLake	14.5	195.79	197.71	196.58	197.75	0.000765	0.95	17.18	12.61	0.23
	Lower	371.974	Bridge										
	Lower	364.0736	Timmins	124	195.78	198.95	198.94	200.09	0.011778	5.03	32.3	82.76	0.93
	Lower	364.0736	100y6hSCS	44.1	195.78	199.05	197.56	199.19	0.001304	1.71	33.85	83.89	0.31
	Lower	364.0736	50y6hSCS	38.6	195.78	198.78	197.43	198.91	0.00142	1.68	29.87	78.8	0.32
	Lower	364.0736	25y6hSCS	33.1	195.78	198.72	197.27	198.82	0.001123	1.48	29.09	75.23	0.28
	Lower	364.0736	10y6hSCS	26.3	195.78	198.25	197.09	198.36	0.001436	1.47	22.32	51.34	0.31
	Lower	364.0736	5y6hSCS	21.4	195.78	198.01	196.95	198.1	0.001431	1.36	18.91	39.26	0.31
	Lower	364.0736	2y6hSCS	14.5	195.78	197.65	196.71	197.72	0.001316	1.15	14.31	11.93	0.28
	Lower	364.0736	100y4hChicago	37	195.78	198.73	197.38	198.86	0.001381	1.64	29.26	75.96	0.32
	Lower	364.0736	2yrFlow100yrLake	14.5	195.78	197.66	196.71	197.73	0.00129	1.14	14.42	12.06	0.28
	Lower	357.3483	Timmins	124	195.78	199.18	198.49	199.76	0.005113	3.6	46.91	198.73	0.64
	Lower	357.3483	100y6hSCS	44.1	195.78	199.07	197.29	199.15	0.000729	1.33	44.8	177.04	0.24
	Lower	357.3483	50y6hSCS	38.6	195.78	198.8	197.19	198.87	0.000786	1.3	39.26	125.81	0.25
	Lower	357.3483	25y6hSCS	33.1	195.78	198.74	197.08	198.8	0.000624	1.14	38.11	114.29	0.22
	Lower	357.3483	10y6hSCS	26.3	195.78	198.27	196.92	198.33	0.000772	1.12	29.39	71.68	0.24
	Lower	357.3483	5y6hSCS	21.4	195.78	198.02	196.79	198.08	0.000762	1.03	25.22	60.16	0.23
	Lower	357.3483	2y6hSCS	14.5	195.78	197.66	196.58	197.7	0.000699	0.87	19.46	50.81	0.21
	Lower	357.3483	100y4hChicago	37	195.78	198.75	197.16	198.83	0.000764	1.27	38.41	116.68	0.24
	Lower	357.3483	2yrFlow100yrLake	14.5	195.78	197.67	196.58	197.71	0.000685	0.86	19.6	52.11	0.21
	Lower	336	Timmins	124	195.77	199.54	198.27	199.57	0.000526	1.16	309.86	506.82	0.21
	Lower	336	100y6hSCS	44.1	195.77	199.12	197.3	199.13	0.000166	0.6	207.25	295.2	0.11
	Lower	336	50y6hSCS	38.6	195.77	198.8	197.21	198.85	0.000551	1	54.35	185.2	0.2
	Lower	336	25y6hSCS	33.1	195.77	198.74	197.11	198.78	0.000448	0.89	51.86	181.38	0.18
	Lower	336	10y6hSCS	26.3	195.77	198.27	196.98	198.31	0.000589	0.88	37.25	101.09	0.2
	Lower	336	5y6hSCS	21.4	195.77	198.02	196.88	198.06	0.000633	0.84	30.99	74.01	0.2
	Lower	336	2y6hSCS	14.5	195.77	197.66	196.63	197.68	0.000662	0.73	22.75	38.05	0.2
	Lower	336	100y4hChicago	37	195.77	198.76	197.19	198.8	0.000545	0.99	52.54	182.62	0.2
	Lower	336	2yrFlow100yrLake	14.5	195.77	197.66	196.63	197.69	0.000646	0.72	22.95	38.99	0.2
	Lower	313.6188	Timmins	124	195.78	199.55	197.86	199.55	0.000131	0.56	788.95	830.65	0.1
	Lower	313.6188	100y6hSCS	44.1	195.78	199.12	197.37	199.12	0.000048	0.3	453.62	632.44	0.06
	Lower	313.6188	50y6hSCS	38.6	195.78	198.83	197.28	198.83	0.000085	0.37	265.48	482.33	0.08
	Lower	313.6188	25y6hSCS	33.1	195.78	198.76	197.19	198.77	0.000074	0.34	250.44	407.54	0.07
	Lower	313.6188	10y6hSCS	26.3	195.78	198.28	197.06	198.29	0.000285	0.57	85.93	206.81	0.14
	Lower	313.6188	5y6hSCS	21.4	195.78	198.03	196.95	198.04	0.000347	0.56	65.47	173.19	0.15
	Lower	313.6188	2y6hSCS	14.5	195.78	197.64	196.78	197.66	0.000829	0.71	22.17	87.99	0.22
	Lower	313.6188	100y4hChicago	37	195.78	198.78	197.26	198.79	0.000087	0.37	255.26	440.05	0.08
	Lower	313.6188	2yrFlow100yrLake	14.5	195.78	197.65	196.78	197.67	0.000801	0.7	22.51	92.13	0.21
	Lower	309.3994	Timmins	124	195.88	199.53	198.23	199.55	0.00035	0.91	562.16	859.6	0.17
	Lower	309.3994	100y6hSCS	44.1	195.88	199.1	197.29	199.12	0.00022	0.66	105.85	597.31	0.13
	Lower	309.3994	50y6hSCS	38.6	195.88	198.81	197.19	198.83	0.000265	0.67	91.04	146.87	0.14
	Lower	309.3994	25y6hSCS	33.1	195.88	198.75	197.09	198.76	0.000217	0.6	87.78	74.6	0.13
	Lower	309.3994	10y6hSCS	26.3	195.88	198.27	196.95	198.29	0.00035	0.65	63.2	63.18	0.16
	Lower	309.3994	5y6hSCS	21.4	195.88	198	196.84	198.03	0.000657	0.8	28.52	48.35	0.21
	Lower	309.3994	2y6hSCS	14.5	195.88	197.63	196.64	197.66	0.000779	0.72	20.28	35.51	0.21
	Lower	309.3994	100y4hChicago	37	195.88	198.77	197.16	198.79	0.000262	0.66	88.74	82.88	0.14

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
	Lower	309.3994	2yrFlow100yrLake	14.5	195.88	197.64	196.64	197.67	0.000755	0.71	20.49	35.68	0.21
	Lower	295.438	Bridge										
	Lower	281	Timmins	124	195.61	198.89	198.34	199.03	0.002477	2.17	110.35	321.18	0.44
	Lower	281	100y6hSCS	44.1	195.61	198.37	197.3	198.41	0.000826	1.07	79.11	72.25	0.24
	Lower	281	50y6hSCS	38.6	195.61	198.19	197.18	198.35	0.002546	1.77	22.02	64.85	0.42
	Lower	281	25y6hSCS	33.1	195.61	198.34	197.04	198.37	0.000498	0.82	77.27	72	0.19
	Lower	281	10y6hSCS	26.3	195.61	197.98	196.85	198.07	0.00174	1.36	19.32	49.44	0.34
	Lower	281	5y6hSCS	21.4	195.61	197.79	196.71	197.87	0.001525	1.24	17.24	44.9	0.32
	Lower	281	2y6hSCS	14.5	195.61	197.56	196.5	197.6	0.001049	0.98	14.75	41.67	0.26
	Lower	281	100y4hChicago	37	195.61	198.19	197.14	198.34	0.002308	1.69	22.13	65.53	0.4
	Lower	281	2yrFlow100yrLake	14.5	195.61	197.57	196.5	197.62	0.001027	0.98	14.86	41.8	0.26
	Lower	277.6682	Timmins	124	195.58	198.95		198.97	0.000558	0.93	415.71	529.97	0.2
	Lower	277.6682	100y6hSCS	44.1	195.58	198.39		198.4	0.000342	0.63	188.93	311.7	0.15
	Lower	277.6682	50y6hSCS	38.6	195.58	198.26		198.27	0.000403	0.66	151.74	263.03	0.16
	Lower	277.6682	25y6hSCS	33.1	195.58	198.35		198.36	0.000218	0.5	178	298.47	0.12
	Lower	277.6682	10y6hSCS	26.3	195.58	198.02		198.03	0.000382	0.59	99.65	178.16	0.15
	Lower	277.6682	5y6hSCS	21.4	195.58	197.82		197.84	0.000413	0.58	71.23	120.28	0.16
	Lower	277.6682	2y6hSCS	14.5	195.58	197.57		197.58	0.000323	0.51	48.93	58.84	0.14
	Lower	277.6682	100y4hChicago	37	195.58	198.26		198.27	0.000369	0.63	152.02	263.78	0.15
	Lower	277.6682	2yrFlow100yrLake	14.5	195.58	197.58		197.59	0.000314	0.5	49.57	60.46	0.14
	Lower	270	Timmins	124	195.6	198.96		198.96	0.000213	0.6	603.58	569.56	0.12
	Lower	270	100y6hSCS	44.1	195.6	198.39		198.39	0.000108	0.39	347.95	399.31	0.08
	Lower	270	50y6hSCS	38.6	195.6	198.26		198.27	0.000126	0.41	297.28	396.05	0.09
	Lower	270	25y6hSCS	33.1	195.6	198.35		198.35	0.000069	0.31	333.1	398.27	0.07
	Lower	270	10y6hSCS	26.3	195.6	198.02		198.02	0.000149	0.41	203.08	375.28	0.1
	Lower	270	5y6hSCS	21.4	195.6	197.82		197.83	0.000237	0.49	135.12	316.75	0.12
	Lower	270	2y6hSCS	14.5	195.6	197.57		197.58	0.000328	0.53	64.53	215.58	0.14
	Lower	270	100y4hChicago	37	195.6	198.26		198.27	0.000116	0.39	297.57	396.06	0.09
	Lower	270	2yrFlow100yrLake	14.5	195.6	197.58		197.59	0.000327	0.53	66.82	222.28	0.14
	Lower	256.6877	Timmins	124	195.74	198.96		198.96	0.000099	0.44	850.09	693.24	0.09
	Lower	256.6877	100y6hSCS	44.1	195.74	198.39		198.39	0.000045	0.25	531.11	504.25	0.06
	Lower	256.6877	50y6hSCS	38.6	195.74	198.26		198.26	0.00005	0.26	467.43	495.67	0.06
	Lower	256.6877	25y6hSCS	33.1	195.74	198.35		198.35	0.000028	0.2	512.31	502.42	0.04
	Lower	256.6877	10y6hSCS	26.3	195.74	198.02		198.02	0.000054	0.25	348.6	482.37	0.06
	Lower	256.6877	5y6hSCS	21.4	195.74	197.83		197.83	0.000077	0.28	257.82	444.23	0.07
	Lower	256.6877	2y6hSCS	14.5	195.74	197.57		197.58	0.000081	0.26	157.34	341.81	0.07
	Lower	256.6877	100y4hChicago	37	195.74	198.26		198.26	0.000046	0.24	467.78	495.69	0.06
	Lower	256.6877	2yrFlow100yrLake	14.5	195.74	197.58		197.59	0.000077	0.25	160.87	348.97	0.07
	Lower	251.5326	Timmins	124	195.64	198.96	198.18	198.96	0.000131	0.44	800.24	730.44	0.1
	Lower	251.5326	100y6hSCS	44.1	195.64	198.39	197.3	198.39	0.000144	0.4	293.82	543.4	0.1
	Lower	251.5326	50y6hSCS	38.6	195.64	198.26	197.21	198.26	0.000172	0.41	252.8	531.08	0.11
	Lower	251.5326	25y6hSCS	33.1	195.64	198.35	197.1	198.35	0.000092	0.31	282.19	540.69	0.08
	Lower	251.5326	10y6hSCS	26.3	195.64	197.97	196.93	198.02	0.001026	0.99	26.65	421.62	0.26
	Lower	251.5326	5y6hSCS	21.4	195.64	197.78	196.81	197.82	0.001061	0.92	23.31	388.74	0.26
	Lower	251.5326	2y6hSCS	14.5	195.64	197.54	196.62	197.57	0.000956	0.76	19.04	288.91	0.24
	Lower	251.5326	100y4hChicago	37	195.64	198.26	197.18	198.26	0.000158	0.39	253.12	531.19	0.1
	Lower	251.5326	2yrFlow100yrLake	14.5	195.64	197.55	196.62	197.58	0.000924	0.75	19.24	297.19	0.23
	Lower	245.142	Bridge										
	Lower	232.742	Timmins	124	195.65	198.17	198.08	198.77	0.012514	3.51	40.33	438.86	0.88
	Lower	232.742	100y6hSCS	44.1	195.65	197.98	197.32	198.08	0.002418	1.43	34.85	333.72	0.38
	Lower	232.742	50y6hSCS	38.6	195.65	197.91	197.25	197.99	0.00224	1.33	32.62	313.69	0.36
	Lower	232.742	25y6hSCS	33.1	195.65	197.83	197.17	197.9	0.002017	1.21	30.37	312.05	0.34
	Lower	232.742	10y6hSCS	26.3	195.65	197.68	197.07	197.74	0.001947	1.11	26.05	294.13	0.33
	Lower	232.742	5y6hSCS	21.4	195.65	197.59	196.94	197.64	0.001678	0.98	23.63	210.84	0.3
	Lower	232.742	2y6hSCS	14.5	195.65	197.46	196.68	197.49	0.001218	0.77	19.81	121.14	0.25
	Lower	232.742	100y4hChicago	37	195.65	197.94	197.23	198.02	0.001889	1.24	33.61	319.03	0.33
	Lower	232.742	2yrFlow100yrLake	14.5	195.65	197.47	196.68	197.5	0.001171	0.76	20.12	126.28	0.25
	Lower	227.0486	Timmins	124	195.6	198.44		198.45	0.000643	0.77	439.32	631	0.2
	Lower	227.0486	100y6hSCS	44.1	195.6	198.02		198.03	0.000311	0.45	227.74	346.33	0.14
	Lower	227.0486	50y6hSCS	38.6	195.6	197.94		197.94	0.000333	0.45	199.45	327.84	0.14
	Lower	227.0486	25y6hSCS	33.1	195.6	197.85		197.86	0.000337	0.45	172.17	316.87	0.14
	Lower	227.0486	10y6hSCS	26.3	195.6	197.7		197.7	0.000407	0.47	123.34	303.81	0.15

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
	Lower	227.0486	5y6hSCS	21.4	195.6	197.61		197.61	0.000369	0.44	97.53	263.86	0.14
	Lower	227.0486	2y6hSCS	14.5	195.6	197.47		197.47	0.000268	0.37	72.42	121.01	0.12
	Lower	227.0486	100y4hChicago	37	195.6	197.97		197.97	0.000269	0.41	209.62	331.85	0.13
	Lower	227.0486	2yrFlow100yrLake	14.5	195.6	197.48		197.48	0.000258	0.36	73.76	126.26	0.12
	Lower	202	Timmins	124	195.72	198.43		198.44	0.000321	0.65	526.14	608.05	0.15
	Lower	202	100y6hSCS	44.1	195.72	198.02		198.02	0.000116	0.33	316.46	390.35	0.09
	Lower	202	50y6hSCS	38.6	195.72	197.93		197.94	0.000118	0.32	284.37	375.37	0.09
	Lower	202	25y6hSCS	33.1	195.72	197.85		197.85	0.000118	0.31	252.82	368.2	0.09
	Lower	202	10y6hSCS	26.3	195.72	197.69		197.7	0.000126	0.29	197.23	346.97	0.09
	Lower	202	5y6hSCS	21.4	195.72	197.6		197.61	0.000116	0.26	167.91	304.59	0.08
	Lower	202	2y6hSCS	14.5	195.72	197.47		197.47	0.000093	0.21	133.67	203.84	0.07
	Lower	202	100y4hChicago	37	195.72	197.97		197.97	0.000097	0.29	296.13	377.56	0.08
	Lower	202	2yrFlow100yrLake	14.5	195.72	197.48		197.48	0.000088	0.21	135.91	208.04	0.07
	Lower	178	Timmins	124	195.54	198.43		198.43	0.00029	0.66	548.08	573.33	0.15
	Lower	178	100y6hSCS	44.1	195.54	198.02		198.02	0.000125	0.37	342.29	429.47	0.09
	Lower	178	50y6hSCS	38.6	195.54	197.93		197.93	0.000127	0.36	306.74	418.85	0.09
	Lower	178	25y6hSCS	33.1	195.54	197.85		197.85	0.000127	0.35	271.32	416.33	0.09
	Lower	178	10y6hSCS	26.3	195.54	197.69		197.69	0.000149	0.35	206.19	408.89	0.1
	Lower	178	5y6hSCS	21.4	195.54	197.6		197.6	0.000127	0.31	172.76	351.46	0.09
	Lower	178	2y6hSCS	14.5	195.54	197.46		197.46	0.000101	0.25	132.58	243.95	0.08
	Lower	178	100y4hChicago	37	195.54	197.96		197.97	0.000106	0.34	320.05	419.6	0.08
	Lower	178	2yrFlow100yrLake	14.5	195.54	197.47		197.48	0.000096	0.25	135.34	253.34	0.08
	Lower	160	Timmins	124	195.63	198.42		198.43	0.000366	0.78	551.06	588.36	0.16
	Lower	160	100y6hSCS	44.1	195.63	198.01		198.02	0.000147	0.43	327.92	491.9	0.1
	Lower	160	50y6hSCS	38.6	195.63	197.93		197.93	0.000151	0.42	289.77	410.87	0.1
	Lower	160	25y6hSCS	33.1	195.63	197.84		197.85	0.00014	0.39	256.07	391.05	0.1
	Lower	160	10y6hSCS	26.3	195.63	197.69		197.69	0.000159	0.39	197	354.19	0.1
	Lower	160	5y6hSCS	21.4	195.63	197.6		197.6	0.00015	0.37	166.83	327.61	0.1
	Lower	160	2y6hSCS	14.5	195.63	197.46		197.46	0.00012	0.31	128.21	242.34	0.09
	Lower	160	100y4hChicago	37	195.63	197.96		197.96	0.000123	0.39	303.5	439.44	0.09
	Lower	160	2yrFlow100yrLake	14.5	195.63	197.47		197.47	0.000114	0.3	130.93	245.3	0.08
	Lower	143	Timmins	124	195.64	198.41		198.42	0.000399	0.85	518.92	559.12	0.17
	Lower	143	100y6hSCS	44.1	195.64	198.01		198.01	0.000175	0.5	319.21	434.41	0.11
	Lower	143	50y6hSCS	38.6	195.64	197.93		197.93	0.000186	0.51	282.67	426.72	0.11
	Lower	143	25y6hSCS	33.1	195.64	197.84		197.84	0.000194	0.5	247.07	410.98	0.11
	Lower	143	10y6hSCS	26.3	195.64	197.68		197.69	0.000225	0.51	183.61	381.1	0.12
	Lower	143	5y6hSCS	21.4	195.64	197.59		197.6	0.000217	0.49	151.79	337.11	0.12
	Lower	143	2y6hSCS	14.5	195.64	197.46		197.46	0.000184	0.43	110.9	258.31	0.11
	Lower	143	100y4hChicago	37	195.64	197.96		197.96	0.00015	0.46	296.84	430.3	0.1
	Lower	143	2yrFlow100yrLake	14.5	195.64	197.47		197.47	0.000174	0.42	113.91	268.18	0.1
	Lower	137	Timmins	124	195.67	198.39	198.15	198.42	0.001009	1.23	290.27	551.02	0.26
	Lower	137	100y6hSCS	44.1	195.67	197.72	197.07	197.98	0.004493	2.27	19.42	295.04	0.53
	Lower	137	50y6hSCS	38.6	195.67	197.7	196.95	197.91	0.003581	2.01	19.19	280.04	0.47
	Lower	137	25y6hSCS	33.1	195.67	197.67	196.84	197.83	0.00278	1.75	18.88	238.14	0.41
	Lower	137	10y6hSCS	26.3	195.67	197.56	196.69	197.67	0.002152	1.48	17.76	177.96	0.36
	Lower	137	5y6hSCS	21.4	195.67	197.51	196.57	197.59	0.001577	1.24	17.23	172.21	0.31
	Lower	137	2y6hSCS	14.5	195.67	197.41	196.38	197.45	0.000878	0.89	16.26	151.53	0.23
	Lower	137	100y4hChicago	37	195.67	197.76	196.92	197.94	0.002935	1.86	19.86	324.9	0.43
	Lower	137	2yrFlow100yrLake	14.5	195.67	197.43	196.38	197.47	0.000857	0.89	16.38	154.48	0.22
	Lower	119.271		Culvert									
	Lower	102	Timmins	124	195.59	198.16	198.16	198.41	0.005263	2.81	138.66	637.22	0.6
	Lower	102	100y6hSCS	44.1	195.59	197.67	196.97	197.92	0.003497	2.21	19.94	335.72	0.51
	Lower	102	50y6hSCS	38.6	195.59	197.66	196.86	197.85	0.002721	1.95	19.85	330.96	0.45
	Lower	102	25y6hSCS	33.1	195.59	197.64	196.75	197.79	0.002069	1.68	19.65	315.38	0.39
	Lower	102	10y6hSCS	26.3	195.59	197.54	196.6	197.65	0.00156	1.41	18.63	224.05	0.33
	Lower	102	5y6hSCS	21.4	195.59	197.5	196.49	197.57	0.00112	1.18	18.18	163.56	0.28
	Lower	102	2y6hSCS	14.5	195.59	197.41	196.32	197.45	0.000612	0.84	17.25	76.97	0.21
	Lower	102	100y4hChicago	37	195.59	197.73	196.83	197.9	0.002221	1.8	20.56	360.68	0.41
	Lower	102	2yrFlow100yrLake	14.5	195.59	197.42	196.32	197.46	0.000598	0.83	17.37	83.01	0.2
	Lower	97	Timmins	124	195.57	198.16	197.79	198.18	0.001184	1.16	380.95	702.82	0.28
	Lower	97	100y6hSCS	44.1	195.57	197.82		197.84	0.000816	0.84	172.29	529.86	0.22
	Lower	97	50y6hSCS	38.6	195.57	197.78		197.8	0.000818	0.82	148.37	475.25	0.22
	Lower	97	25y6hSCS	33.1	195.57	197.73		197.74	0.000749	0.76	124.98	439.64	0.21

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
	Lower	97	10y6hSCS	26.3	195.57	197.59		197.61	0.000834	0.76	77.94	259.29	0.22
	Lower	97	5y6hSCS	21.4	195.57	197.53		197.55	0.000694	0.68	64.63	184.71	0.2
	Lower	97	2y6hSCS	14.5	195.57	197.43		197.44	0.000434	0.52	49.35	106.8	0.16
	Lower	97	100y4hChicago	37	195.57	197.83		197.85	0.000546	0.69	177.05	538.43	0.18
	Lower	97	2yrFlow100yrLake	14.5	195.57	197.44		197.45	0.000419	0.51	50.64	111.82	0.15
	Lower	85	Timmins	124	195.56	198.16		198.17	0.000717	0.91	447.5	694.54	0.22
	Lower	85	100y6hSCS	44.1	195.56	197.83		197.83	0.000362	0.56	237.43	572.63	0.15
	Lower	85	50y6hSCS	38.6	195.56	197.78		197.79	0.00034	0.53	211.08	540.89	0.15
	Lower	85	25y6hSCS	33.1	195.56	197.73		197.73	0.000304	0.49	185.57	461.27	0.14
	Lower	85	10y6hSCS	26.3	195.56	197.6		197.6	0.000278	0.44	134.71	310.92	0.13
	Lower	85	5y6hSCS	21.4	195.56	197.54		197.54	0.000217	0.38	119.8	204.09	0.11
	Lower	85	2y6hSCS	14.5	195.56	197.43		197.43	0.000133	0.28	100.16	150.91	0.09
	Lower	85	100y4hChicago	37	195.56	197.83		197.84	0.000255	0.47	241.92	576.34	0.13
	Lower	85	2yrFlow100yrLake	14.5	195.56	197.44		197.44	0.000136	0.28	101.99	164.35	0.09
	Lower	73	Timmins	124	195.6	198.15		198.16	0.000849	0.94	447.37	730.09	0.23
	Lower	73	100y6hSCS	44.1	195.6	197.82		197.83	0.000584	0.69	219.12	653.1	0.19
	Lower	73	50y6hSCS	38.6	195.6	197.77		197.78	0.000581	0.68	188.47	619.92	0.19
	Lower	73	25y6hSCS	33.1	195.6	197.72		197.73	0.000572	0.66	157.49	575.86	0.18
	Lower	73	10y6hSCS	26.3	195.6	197.59		197.6	0.000719	0.69	94.07	357.06	0.2
	Lower	73	5y6hSCS	21.4	195.6	197.52		197.54	0.00061	0.63	75.6	254.27	0.19
	Lower	73	2y6hSCS	14.5	195.6	197.42		197.43	0.000387	0.52	56.22	140.49	0.15
	Lower	73	100y4hChicago	37	195.6	197.83		197.83	0.000388	0.55	226.47	659.1	0.15
	Lower	73	2yrFlow100yrLake	14.5	195.6	197.43		197.44	0.00037	0.51	57.96	147.95	0.15
	Lower	65	Timmins	124	195.6	198.12		198.15	0.001457	1.29	356.17	679.6	0.31
	Lower	65	100y6hSCS	44.1	195.6	197.79		197.82	0.001153	1	142.24	555.77	0.27
	Lower	65	50y6hSCS	38.6	195.6	197.74		197.77	0.001153	0.98	117.05	486.39	0.27
	Lower	65	25y6hSCS	33.1	195.6	197.69		197.72	0.001085	0.94	93.85	420.39	0.26
	Lower	65	10y6hSCS	26.3	195.6	197.55		197.59	0.001162	0.96	51.51	180.96	0.27
	Lower	65	5y6hSCS	21.4	195.6	197.5		197.53	0.00088	0.84	43.88	121.3	0.23
	Lower	65	2y6hSCS	14.5	195.6	197.41		197.42	0.00051	0.63	36.14	47.36	0.18
	Lower	65	100y4hChicago	37	195.6	197.81		197.83	0.000711	0.8	154.81	573.87	0.21
	Lower	65	2yrFlow100yrLake	14.5	195.6	197.42		197.43	0.000494	0.62	36.75	52.32	0.17
	Lower	56	Timmins	124	195.6	198.12		198.13	0.001238	1.12	389.01	653.61	0.28
	Lower	56	100y6hSCS	44.1	195.6	197.79		197.81	0.000879	0.81	189.99	581.27	0.23
	Lower	56	50y6hSCS	38.6	195.6	197.74		197.76	0.00092	0.81	162.02	569.61	0.23
	Lower	56	25y6hSCS	33.1	195.6	197.69		197.71	0.000941	0.79	133.2	539.45	0.23
	Lower	56	10y6hSCS	26.3	195.6	197.55		197.58	0.001234	0.91	72.18	309.33	0.27
	Lower	56	5y6hSCS	21.4	195.6	197.5		197.52	0.001025	0.82	58.15	227.09	0.24
	Lower	56	2y6hSCS	14.5	195.6	197.4		197.42	0.000643	0.65	41.17	132.05	0.19
	Lower	56	100y4hChicago	37	195.6	197.81		197.82	0.000539	0.64	202.5	585.4	0.18
	Lower	56	2yrFlow100yrLake	14.5	195.6	197.41		197.43	0.000621	0.64	42.89	139.57	0.19
	Lower	53	Timmins	124	195.6	198.1	197.86	198.13	0.002233	1.41	319.22	635.29	0.37
	Lower	53	100y6hSCS	44.1	195.6	197.74	197.66	197.8	0.003138	1.4	110.39	520.86	0.42
	Lower	53	50y6hSCS	38.6	195.6	197.6	197.6	197.74	0.005681	1.9	53.64	272.95	0.56
	Lower	53	25y6hSCS	33.1	195.6	197.17	197.17	197.65	0.017705	3.13	11.66	13.33	0.98
	Lower	53	10y6hSCS	26.3	195.6	197.32	197.01	197.55	0.00726	2.14	14.16	35.81	0.63
	Lower	53	5y6hSCS	21.4	195.6	197.37	196.87	197.5	0.00459	1.65	16.67	69.6	0.5
	Lower	53	2y6hSCS	14.5	195.6	197.34	196.64	197.41	0.002093	1.16	15.03	50.04	0.34
	Lower	53	100y4hChicago	37	195.6	197.23	197.23	197.77	0.018391	3.28	12.55	13.79	1
	Lower	53	2yrFlow100yrLake	14.5	195.6	197.36	196.64	197.42	0.002088	1.14	15.82	64.69	0.34
	Lower	42		Culvert									
	Lower	30	Timmins	124	195.63	198.05		198.13	0.003544	1.88	240.36	548.81	0.48
	Lower	30	100y6hSCS	44.1	195.63	197.26	197.26	197.8	0.018175	3.26	13.53	12.53	1
	Lower	30	50y6hSCS	38.6	195.63	197.12	197.12	197.65	0.018706	3.24	11.91	11.29	1.01
	Lower	30	25y6hSCS	33.1	195.63	196.99	196.99	197.5	0.019007	3.14	10.54	10.61	1.01
	Lower	30	10y6hSCS	26.3	195.63	196.82	196.82	197.28	0.019698	2.99	8.8	9.78	1.01
	Lower	30	5y6hSCS	21.4	195.63	196.68	196.68	197.1	0.020189	2.86	7.49	9.06	1
	Lower	30	2y6hSCS	14.5	195.63	196.47	196.47	196.81	0.02142	2.59	5.6	8.31	1.01
	Lower	30	100y4hChicago	37	195.63	197.08	197.08	197.61	0.018753	3.21	11.51	11.08	1.01
	Lower	30	2yrFlow100yrLake	14.5	195.63	196.91		197.02	0.004652	1.51	9.63	10.14	0.49
	Lower	25	Timmins	124	195.65	197.91	197.91	198.1	0.007005	2.48	160.55	481.72	0.66
	Lower	25	100y6hSCS	44.1	195.65	196.96	197.22	197.68	0.024796	3.77	11.81	12.45	1.17
	Lower	25	50y6hSCS	38.6	195.65	196.85	197.03	197.54	0.025787	3.69	10.48	11.26	1.18

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
	Lower	25	25y6hSCS	33.1	195.65	196.73	196.86	197.38	0.027332	3.58	9.24	10.18	1.2
	Lower	25	10y6hSCS	26.3	195.65	196.59	196.69	197.16	0.02788	3.35	7.86	9.81	1.19
	Lower	25	5y6hSCS	21.4	195.65	196.48	196.57	196.98	0.028651	3.15	6.79	9.51	1.19
	Lower	25	2y6hSCS	14.5	195.65	196.33	196.37	196.7	0.026842	2.69	5.38	9.19	1.12
	Lower	25	100y4hChicago	37	195.65	196.81	196.94	197.5	0.026469	3.67	10.07	10.4	1.19
	Lower	25	2yrFlow100yrLake	14.5	195.65	196.91		197	0.003035	1.3	11.24	11.94	0.41
	Lower	22	Timmins	124	195.6	197.24	197.54	198	0.026593	4.09	41.83	104.42	1.26
	Lower	22	100y6hSCS	44.1	195.6	196.37	196.72	197.49	0.112594	4.99	10.19	18.16	2.27
	Lower	22	50y6hSCS	38.6	195.6	196.32	196.65	197.34	0.115036	4.79	9.3	17.69	2.27
	Lower	22	25y6hSCS	33.1	195.6	196.27	196.57	197.19	0.111224	4.55	8.42	16.71	2.21
	Lower	22	10y6hSCS	26.3	195.6	196.2	196.48	196.99	0.083755	4.22	7.39	13.54	1.95
	Lower	22	5y6hSCS	21.4	195.6	196.13	196.35	196.81	0.086104	3.95	6.42	12.99	1.94
	Lower	22	2y6hSCS	14.5	195.6	196.01	196.16	196.53	0.094373	3.49	4.89	12.13	1.95
	Lower	22	100y4hChicago	37	195.6	196.31	196.63	197.3	0.114269	4.72	9.04	17.41	2.26
	Lower	22	2yrFlow100yrLake	14.5	195.6	196.95		196.97	0.001034	0.67	25.49	43.59	0.24
	Lower	17.31936	Timmins	124	195.59	196.75	197.14	197.82	0.050404	4.93	37.64	83.32	1.68
	Lower	17.31936	100y6hSCS	44.1	195.59	196.28	196.55	197.05	0.059776	3.89	12.18	29.94	1.69
	Lower	17.31936	50y6hSCS	38.6	195.59	196.25	196.5	196.91	0.054834	3.62	11.31	27.92	1.61
	Lower	17.31936	25y6hSCS	33.1	195.59	196.22	196.4	196.78	0.049807	3.33	10.39	26.53	1.52
	Lower	17.31936	10y6hSCS	26.3	195.59	196.15	196.31	196.63	0.048526	3.06	8.76	23.88	1.48
	Lower	17.31936	5y6hSCS	21.4	195.59	196.14	196.22	196.48	0.036758	2.6	8.31	23.09	1.28
	Lower	17.31936	2y6hSCS	14.5	195.59	196.09	196.09	196.29	0.023668	1.98	7.34	18.82	1.01
	Lower	17.31936	100y4hChicago	37	195.59	196.24	196.42	196.88	0.053334	3.54	11.05	27.54	1.58
	Lower	17.31936	2yrFlow100yrLake	14.5	195.59	196.96	196.09	196.96	0.0003	0.42	57.98	127.53	0.13

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	6571.411	Timmins	10.9	333.64	334.08	334.08	334.21	0.038602	2.42	9.71	35.86	1.28
Johnson	6571.411	100y6hSCS	5.9	333.64	333.96	333.96	334.06	0.04128	1.97	6.07	30.54	1.24
Johnson	6571.411	50y6hSCS	5.3	333.64	333.94	333.94	334.04	0.045398	1.96	5.46	29.96	1.29
Johnson	6571.411	25y6hSCS	4.7	333.64	333.93	333.93	334.01	0.046402	1.89	4.99	29.18	1.29
Johnson	6571.411	10y6hSCS	3.8	333.64	333.9	333.9	333.98	0.05069	1.8	4.18	27.65	1.31
Johnson	6571.411	5y6hSCS	3.1	333.64	333.88	333.87	333.95	0.052924	1.69	3.59	26.49	1.32
Johnson	6571.411	2y6hSCS	2.1	333.64	333.84	333.84	333.9	0.059973	1.51	2.57	24.57	1.34
Johnson	6571.411	100y4hChicago	5.1	333.64	333.94	333.94	334.03	0.045607	1.93	5.31	29.71	1.29
Johnson	6571.411	2yrFlow100yrLake	2.1	333.64	333.84	333.84	333.9	0.059973	1.51	2.57	24.57	1.34
Johnson	6561	Timmins	10.9	330.87	331.4	331.48	333.12	0.38034	6.78	2.18	6.26	3.87
Johnson	6561	100y6hSCS	5.9	330.87	331.23	331.6	332.86	0.47945	6.63	1.26	4.86	4.2
Johnson	6561	50y6hSCS	5.3	330.87	331.21	331.57	332.76	0.489906	6.45	1.16	4.76	4.21
Johnson	6561	25y6hSCS	4.7	330.87	331.19	331.55	332.7	0.519892	6.38	1.05	4.62	4.29
Johnson	6561	10y6hSCS	3.8	330.87	331.15	331.43	332.59	0.57142	6.24	0.87	4.37	4.43
Johnson	6561	5y6hSCS	3.1	330.87	331.12	331.39	332.37	0.539527	5.78	0.77	4.21	4.25
Johnson	6561	2y6hSCS	2.1	330.87	331.06	331.27	332.27	0.73756	5.68	0.53	3.78	4.77
Johnson	6561	100y4hChicago	5.1	330.87	331.2	331.57	332.74	0.499633	6.43	1.13	4.71	4.24
Johnson	6561	2yrFlow100yrLake	2.1	330.87	331.06	331.27	332.27	0.73756	5.68	0.53	3.78	4.77
Johnson	6552	Timmins	10.9	331.01	331.78	331.6	331.85	0.011884	1.71	12.77	30.54	0.75
Johnson	6552	100y6hSCS	5.9	331.01	331.61	331.42	331.66	0.013042	1.38	7.93	25.73	0.74
Johnson	6552	50y6hSCS	5.3	331.01	331.58	331.4	331.63	0.013178	1.33	7.34	25.21	0.73
Johnson	6552	25y6hSCS	4.7	331.01	331.56	331.37	331.6	0.013327	1.27	6.73	24.65	0.73
Johnson	6552	10y6hSCS	3.8	331.01	331.51	331.35	331.55	0.014119	1.18	5.61	22.81	0.73
Johnson	6552	5y6hSCS	3.1	331.01	331.45	331.33	331.49	0.015906	1.06	4.45	17.91	0.74
Johnson	6552	2y6hSCS	2.1	331.01	331.39	331.21	331.42	0.015495	0.83	3.41	15.79	0.69
Johnson	6552	100y4hChicago	5.1	331.01	331.58	331.39	331.62	0.013232	1.31	7.14	25.02	0.73
Johnson	6552	2yrFlow100yrLake	2.1	331.01	331.39	331.21	331.42	0.015495	0.83	3.41	15.79	0.69
Johnson	6544	Timmins	10.9	330.55	331.46	331.46	331.67	0.041645	2.68	7.11	18.91	1.32
Johnson	6544	100y6hSCS	5.9	330.55	331.32	331.32	331.46	0.049964	2.21	4.49	16.62	1.34
Johnson	6544	50y6hSCS	5.3	330.55	331.3	331.3	331.43	0.051497	2.14	4.16	16.53	1.35
Johnson	6544	25y6hSCS	4.7	330.55	331.28	331.22	331.4	0.052928	2.05	3.83	16.43	1.35
Johnson	6544	10y6hSCS	3.8	330.55	331.26	331.19	331.35	0.045863	1.8	3.51	16.31	1.24
Johnson	6544	5y6hSCS	3.1	330.55	331.2	331.16	331.28	0.044625	1.45	2.62	14.42	1.16
Johnson	6544	2y6hSCS	2.1	330.55	331.07	331.03	331.17	0.068684	1.29	1.46	5.3	1.3
Johnson	6544	100y4hChicago	5.1	330.55	331.29	331.29	331.42	0.05183	2.11	4.06	16.51	1.34
Johnson	6544	2yrFlow100yrLake	2.1	330.55	331.07	331.03	331.17	0.068684	1.29	1.46	5.3	1.3
Johnson	6537	Timmins	10.9	330.46	331.12	331.12	331.28	0.051226	2.6	7.73	25.82	1.44
Johnson	6537	100y6hSCS	5.9	330.46	331.02	331	331.12	0.04718	1.98	5.35	23.93	1.3
Johnson	6537	50y6hSCS	5.3	330.46	331.01	330.95	331.1	0.044307	1.86	5.1	23.57	1.25
Johnson	6537	25y6hSCS	4.7	330.46	330.99	330.89	331.07	0.042567	1.75	4.78	23.21	1.21
Johnson	6537	10y6hSCS	3.8	330.46	330.96	330.89	331.03	0.047942	1.66	4.03	22.34	1.25
Johnson	6537	5y6hSCS	3.1	330.46	330.94	330.74	330.99	0.038033	1.38	3.64	19.47	1.1
Johnson	6537	2y6hSCS	2.1	330.46	330.85	330.9	330.9	0.024165	0.83	2.24	11.1	0.81
Johnson	6537	100y4hChicago	5.1	330.46	331	330.9	331.09	0.04398	1.83	4.99	23.44	1.24
Johnson	6537	2yrFlow100yrLake	2.1	330.46	330.85	330.9	330.9	0.024165	0.83	2.24	11.1	0.81
Johnson	6528	Timmins	10.9	330.06	330.86	330.86	330.99	0.020597	2.17	11.14	37.55	0.98
Johnson	6528	100y6hSCS	5.9	330.06	330.75	330.75	330.85	0.01999	1.8	7.02	34.08	0.92
Johnson	6528	50y6hSCS	5.3	330.06	330.73	330.73	330.83	0.020848	1.77	6.25	33.1	0.93
Johnson	6528	25y6hSCS	4.7	330.06	330.71	330.71	330.81	0.021192	1.72	5.62	31.34	0.93
Johnson	6528	10y6hSCS	3.8	330.06	330.68	330.68	330.77	0.019485	1.57	4.88	30.41	0.88
Johnson	6528	5y6hSCS	3.1	330.06	330.64	330.64	330.73	0.022337	1.54	3.73	28.86	0.93
Johnson	6528	2y6hSCS	2.1	330.06	330.58	330.58	330.66	0.028467	1.45	2.19	15.58	1
Johnson	6528	100y4hChicago	5.1	330.06	330.72	330.72	330.82	0.020946	1.75	6.04	32.53	0.93
Johnson	6528	2yrFlow100yrLake	2.1	330.06	330.58	330.58	330.66	0.028467	1.45	2.19	15.58	1
Johnson	6520	Timmins	10.9	330.15	330.6	330.48	330.65	0.022128	1.5	12.87	40.25	0.92
Johnson	6520	100y6hSCS	5.9	330.15	330.5	330.4	330.53	0.020525	1.08	8.99	38.95	0.82
Johnson	6520	50y6hSCS	5.3	330.15	330.49	330.39	330.51	0.020263	1.01	8.45	38.73	0.81
Johnson	6520	25y6hSCS	4.7	330.15	330.47	330.37	330.5	0.019772	0.94	7.91	38.63	0.78
Johnson	6520	10y6hSCS	3.8	330.15	330.44	330.35	330.46	0.018749	0.78	6.74	36.22	0.73
Johnson	6520	5y6hSCS	3.1	330.15	330.42	330.32	330.44	0.018155	0.67	5.91	34.83	0.7
Johnson	6520	2y6hSCS	2.1	330.15	330.38	330.27	330.39	0.016942	0.5	4.52	31.72	0.63

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	6520	100y4hChicago	5.1	330.15	330.48	330.38	330.51	0.020091	0.99	8.27	38.7	0.8
Johnson	6520	2yrFlow100yrLake	2.1	330.15	330.38	330.27	330.39	0.016942	0.5	4.52	31.72	0.63
Johnson	6512	Timmins	10.9	330	330.23	330.2	330.3	0.090468	1.91	9.78	54.33	1.65
Johnson	6512	100y6hSCS	5.9	330	330.16	330.13	330.21	0.089922	1.23	6.23	42.81	1.48
Johnson	6512	50y6hSCS	5.3	330	330.15	330.12	330.19	0.090083	1.1	5.73	41.57	1.44
Johnson	6512	25y6hSCS	4.7	330	330.13	330.12	330.18	0.094133	0.97	5.18	39.98	1.42
Johnson	6512	10y6hSCS	3.8	330	330.11	330.08	330.15	0.095377	0.86	4.38	37.32	1.38
Johnson	6512	5y6hSCS	3.1	330	330.09	330.07	330.13	0.100783	0.93	3.51	32.25	1.44
Johnson	6512	2y6hSCS	2.1	330	330.05	330.03	330.09	0.113603	0.82	2.36	24.35	1.46
Johnson	6512	100y4hChicago	5.1	330	330.14	330.13	330.18	0.093915	1.06	5.47	40.47	1.45
Johnson	6512	2yrFlow100yrLake	2.1	330	330.05	330.03	330.09	0.113603	0.82	2.36	24.35	1.46
Johnson	6503	Timmins	10.9	329.53	329.94		329.96	0.020278	1.29	16.55	67.5	0.85
Johnson	6503	100y6hSCS	5.9	329.53	329.82		329.85	0.023096	1.23	9.06	54.9	0.89
Johnson	6503	50y6hSCS	5.3	329.53	329.8		329.83	0.023368	1.18	8.15	48.04	0.88
Johnson	6503	25y6hSCS	4.7	329.53	329.78		329.81	0.023405	1.12	7.36	42.03	0.87
Johnson	6503	10y6hSCS	3.8	329.53	329.75		329.77	0.024195	1.01	6.13	35.92	0.86
Johnson	6503	5y6hSCS	3.1	329.53	329.73		329.75	0.023758	0.91	5.28	30.2	0.83
Johnson	6503	2y6hSCS	2.1	329.53	329.68		329.7	0.023187	0.74	4.05	25.92	0.79
Johnson	6503	100y4hChicago	5.1	329.53	329.8		329.82	0.022964	1.15	7.94	46.68	0.87
Johnson	6503	2yrFlow100yrLake	2.1	329.53	329.68		329.7	0.023187	0.74	4.05	25.92	0.79
Johnson	6476	Timmins	10.9	329.24	329.57	329.36	329.59	0.010265	1.06	20.68	67.68	0.63
Johnson	6476	100y6hSCS	5.9	329.24	329.46	329.29	329.47	0.009125	0.72	13.89	57.86	0.55
Johnson	6476	50y6hSCS	5.3	329.24	329.44	329.28	329.45	0.009292	0.68	12.79	56.04	0.55
Johnson	6476	25y6hSCS	4.7	329.24	329.42	329.26	329.43	0.009238	0.62	11.83	54.94	0.53
Johnson	6476	10y6hSCS	3.8	329.24	329.39	329.24	329.4	0.008944	0.52	10.23	52.97	0.5
Johnson	6476	5y6hSCS	3.1	329.24	329.37	329.22	329.37	0.008786	0.44	8.96	50.94	0.48
Johnson	6476	2y6hSCS	2.1	329.24	329.32	329.18	329.32	0.009124	0.32	6.59	42.59	0.45
Johnson	6476	100y4hChicago	5.1	329.24	329.43	329.27	329.44	0.009261	0.66	12.48	55.69	0.54
Johnson	6476	2yrFlow100yrLake	2.1	329.24	329.32	329.18	329.32	0.009124	0.32	6.59	42.59	0.45
Johnson	6456.486	Timmins	10.9	328.74	328.99	328.99	329.09	0.126863	2.35	8.6	50.67	1.97
Johnson	6456.486	100y6hSCS	5.9	328.74	328.92	328.92	328.99	0.171263	1.81	5.15	44.61	2.07
Johnson	6456.486	50y6hSCS	5.3	328.74	328.91	328.91	328.97	0.147896	1.66	5.03	44.28	1.92
Johnson	6456.486	25y6hSCS	4.7	328.74	328.9	328.9	328.96	0.146331	1.6	4.63	42.65	1.89
Johnson	6456.486	10y6hSCS	3.8	328.74	328.88	328.88	328.94	0.152546	1.45	3.84	39.43	1.87
Johnson	6456.486	5y6hSCS	3.1	328.74	328.87	328.87	328.92	0.154828	1.38	3.29	36.9	1.86
Johnson	6456.486	2y6hSCS	2.1	328.74	328.85	328.85	328.89	0.109253	1.25	2.74	34.19	1.59
Johnson	6456.486	100y4hChicago	5.1	328.74	328.91	328.91	328.97	0.147068	1.63	4.91	43.93	1.9
Johnson	6456.486	2yrFlow100yrLake	2.1	328.74	328.85	328.85	328.89	0.109253	1.25	2.74	34.19	1.59
Johnson	6428	Timmins	10.9	328.11	328.62	328.3	328.62	0.001846	0.57	39.98	110.79	0.28
Johnson	6428	100y6hSCS	5.9	328.11	328.51	328.26	328.51	0.001448	0.41	28.51	104.21	0.24
Johnson	6428	50y6hSCS	5.3	328.11	328.5	328.25	328.5	0.001375	0.39	27.02	102.98	0.23
Johnson	6428	25y6hSCS	4.7	328.11	328.48	328.24	328.48	0.00132	0.36	25.31	101.67	0.22
Johnson	6428	10y6hSCS	3.8	328.11	328.45	328.23	328.45	0.001234	0.33	22.51	96.86	0.21
Johnson	6428	5y6hSCS	3.1	328.11	328.43	328.22	328.43	0.001164	0.29	20.05	93.54	0.2
Johnson	6428	2y6hSCS	2.1	328.11	328.38	328.2	328.38	0.001039	0.24	16.13	86.69	0.18
Johnson	6428	100y4hChicago	5.1	328.11	328.49	328.25	328.49	0.001353	0.38	26.48	102.57	0.23
Johnson	6428	2yrFlow100yrLake	2.1	328.11	328.38	328.2	328.38	0.001039	0.24	16.13	86.69	0.18
Johnson	6370	Timmins	10.9	328.06	328.3	328.28	328.35	0.023747	1.31	15.7	103.12	0.92
Johnson	6370	100y6hSCS	5.9	328.06	328.23	328.23	328.28	0.034035	1.19	8.82	92.01	1.02
Johnson	6370	50y6hSCS	5.3	328.06	328.22	328.22	328.27	0.036092	1.17	7.96	87.46	1.04
Johnson	6370	25y6hSCS	4.7	328.06	328.21	328.21	328.26	0.038077	1.15	7.12	82.98	1.06
Johnson	6370	10y6hSCS	3.8	328.06	328.2	328.2	328.24	0.038925	1.08	6.02	77.52	1.05
Johnson	6370	5y6hSCS	3.1	328.06	328.19	328.19	328.23	0.042862	1.04	4.97	71.9	1.08
Johnson	6370	2y6hSCS	2.1	328.06	328.17	328.17	328.2	0.045708	0.93	3.61	63.6	1.08
Johnson	6370	100y4hChicago	5.1	328.06	328.22	328.22	328.27	0.037187	1.17	7.65	85.93	1.05
Johnson	6370	2yrFlow100yrLake	2.1	328.06	328.17	328.17	328.2	0.045708	0.93	3.61	63.6	1.08
Johnson	6328.961	Timmins	10.9	327.17	327.7		327.75	0.010116	1.34	15.09	55.46	0.67
Johnson	6328.961	100y6hSCS	5.9	327.17	327.59		327.62	0.009239	1.05	10.03	41.92	0.61
Johnson	6328.961	50y6hSCS	5.3	327.17	327.58		327.61	0.009131	1	9.36	40.35	0.6
Johnson	6328.961	25y6hSCS	4.7	327.17	327.56	327.47	327.59	0.008902	0.95	8.72	39.24	0.58

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	6328.961	10y6hSCS	3.8	327.17	327.53	327.44	327.55	0.008781	0.88	7.61	38.57	0.57
Johnson	6328.961	5y6hSCS	3.1	327.17	327.51	327.43	327.53	0.008329	0.8	6.77	38.06	0.55
Johnson	6328.961	2y6hSCS	2.1	327.17	327.47	327.39	327.48	0.007902	0.68	5.24	35.37	0.51
Johnson	6328.961	100y4hChicago	5.1	327.17	327.57		327.6	0.009055	0.99	9.15	39.49	0.59
Johnson	6328.961	2yrFlow100yrLake	2.1	327.17	327.47	327.39	327.48	0.007902	0.68	5.24	35.37	0.51
Johnson	6290	Timmins	10.9	326.93	327.43		327.45	0.006035	0.94	24.32	79.88	0.5
Johnson	6290	100y6hSCS	5.9	326.93	327.32		327.33	0.006251	0.79	15.91	72.93	0.48
Johnson	6290	50y6hSCS	5.3	326.93	327.3		327.31	0.006232	0.77	14.81	72.08	0.48
Johnson	6290	25y6hSCS	4.7	326.93	327.28		327.3	0.006368	0.75	13.54	71.46	0.48
Johnson	6290	10y6hSCS	3.8	326.93	327.25		327.26	0.006459	0.7	11.41	69.91	0.47
Johnson	6290	5y6hSCS	3.1	326.93	327.23		327.24	0.006628	0.66	9.73	67.76	0.47
Johnson	6290	2y6hSCS	2.1	326.93	327.19		327.19	0.007014	0.59	6.98	58.12	0.47
Johnson	6290	100y4hChicago	5.1	326.93	327.3		327.31	0.006274	0.76	14.39	71.84	0.48
Johnson	6290	2yrFlow100yrLake	2.1	326.93	327.19		327.19	0.007014	0.59	6.98	58.12	0.47
Johnson	6252	Timmins	10.9	326.66	327.13		327.15	0.010533	1.2	20.27	67.14	0.65
Johnson	6252	100y6hSCS	5.9	326.66	327.03		327.04	0.009669	0.93	13.79	62.14	0.59
Johnson	6252	50y6hSCS	5.3	326.66	327.01		327.02	0.009575	0.9	12.87	61.03	0.58
Johnson	6252	25y6hSCS	4.7	326.66	327		327.01	0.009208	0.85	11.98	59.91	0.57
Johnson	6252	10y6hSCS	3.8	326.66	326.97		326.98	0.00903	0.79	10.38	57.72	0.55
Johnson	6252	5y6hSCS	3.1	326.66	326.94		326.95	0.008825	0.73	8.87	54.29	0.54
Johnson	6252	2y6hSCS	2.1	326.66	326.9		326.91	0.008264	0.61	6.67	47.59	0.5
Johnson	6252	100y4hChicago	5.1	326.66	327.01		327.02	0.009423	0.88	12.62	60.73	0.58
Johnson	6252	2yrFlow100yrLake	2.1	326.66	326.9		326.91	0.008264	0.61	6.67	47.59	0.5
Johnson	6210.316	Timmins	10.9	326.52	326.76		326.77	0.007751	0.55	29.23	135.87	0.48
Johnson	6210.316	100y6hSCS	5.9	326.52	326.66		326.67	0.008018	0.41	17.66	101.36	0.45
Johnson	6210.316	50y6hSCS	5.3	326.52	326.65		326.65	0.008127	0.39	16.21	97.22	0.45
Johnson	6210.316	25y6hSCS	4.7	326.52	326.63		326.64	0.008397	0.36	14.6	93.33	0.44
Johnson	6210.316	10y6hSCS	3.8	326.52	326.6		326.61	0.008721	0.31	12.06	85.54	0.43
Johnson	6210.316	5y6hSCS	3.1	326.52	326.57		326.58	0.008883	0.23	9.69	74.94	0.41
Johnson	6210.316	2y6hSCS	2.1	326.52	326.52	326.39	326.53	0.009682	0.04	6.65	52.54	0.26
Johnson	6210.316	100y4hChicago	5.1	326.52	326.64		326.65	0.008216	0.38	15.69	95.71	0.44
Johnson	6210.316	2yrFlow100yrLake	2.1	326.52	326.52	326.39	326.53	0.009682	0.04	6.65	52.54	0.26
Johnson	6180	Timmins	10.9	326.18	326.46		326.48	0.012425	0.95	22.34	109.84	0.66
Johnson	6180	100y6hSCS	5.9	326.18	326.38		326.39	0.010466	0.64	14.51	88.01	0.56
Johnson	6180	50y6hSCS	5.3	326.18	326.37		326.38	0.010146	0.59	13.45	83.66	0.54
Johnson	6180	25y6hSCS	4.7	326.18	326.36	326.2	326.36	0.00969	0.53	12.39	77.54	0.52
Johnson	6180	10y6hSCS	3.8	326.18	326.34	326.18	326.34	0.00878	0.43	10.86	65.94	0.48
Johnson	6180	5y6hSCS	3.1	326.18	326.31	326.16	326.32	0.008246	0.35	9.56	58.15	0.44
Johnson	6180	2y6hSCS	2.1	326.18	326.28	326.14	326.28	0.006846	0.36	7.74	50.08	0.41
Johnson	6180	100y4hChicago	5.1	326.18	326.37	326.21	326.37	0.009931	0.57	13.13	81.81	0.54
Johnson	6180	2yrFlow100yrLake	2.1	326.18	326.28	326.14	326.28	0.006846	0.36	7.74	50.08	0.41
Johnson	6157	Timmins	10.9	326.02	326.11		326.12	0.02015	0.45	20.45	115.25	0.65
Johnson	6157	100y6hSCS	5.9	326.02	326.01		326.02	0.028176		10.87	79.06	0
Johnson	6157	50y6hSCS	5.3	326.02	325.99		326.01	0.029986		9.78	73.24	0
Johnson	6157	25y6hSCS	4.7	326.02	325.97		325.99	0.033855		8.58	67.45	0
Johnson	6157	10y6hSCS	3.8	326.02	325.95		325.96	0.042		6.84	60.39	0
Johnson	6157	5y6hSCS	3.1	326.02	325.92		325.94	0.049251		5.53	54.12	0
Johnson	6157	2y6hSCS	2.1	326.02	325.88		325.9	0.091234		3.26	41.58	0
Johnson	6157	100y4hChicago	5.1	326.02	325.99		326	0.03159		9.33	70.95	0
Johnson	6157	2yrFlow100yrLake	2.1	326.02	325.88		325.9	0.091234		3.26	41.58	0
Johnson	6131.63	Timmins	10.9	325.77	325.85		325.85	0.006233	0.22	33.49	156.71	0.36
Johnson	6131.63	100y6hSCS	5.9	325.77	325.78		325.78	0.00436	0.06	24.31	122.77	0.22
Johnson	6131.63	50y6hSCS	5.3	325.77	325.77		325.77	0.004155	0.01	22.92	116.77	0.13
Johnson	6131.63	25y6hSCS	4.7	325.77	325.76		325.76	0.003902		21.55	113.87	0
Johnson	6131.63	10y6hSCS	3.8	325.77	325.74		325.74	0.003509		19.3	109.78	0
Johnson	6131.63	5y6hSCS	3.1	325.77	325.72		325.72	0.003339		16.96	104.83	0
Johnson	6131.63	2y6hSCS	2.1	325.77	325.68		325.68	0.002776		13.56	92.81	0
Johnson	6131.63	100y4hChicago	5.1	325.77	325.77		325.77	0.00405		22.52	115.58	0
Johnson	6131.63	2yrFlow100yrLake	2.1	325.77	325.68		325.68	0.002776		13.56	92.81	0
Johnson	6108	Timmins	10.9	325.41	325.67		325.68	0.008424	0.6	18.43	144.05	0.51

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	6108	100y6hSCS	5.9	325.41	325.6		325.62	0.013744	0.59	10.04	106.7	0.61
Johnson	6108	50y6hSCS	5.3	325.41	325.59		325.61	0.01442	0.58	9.1	101.58	0.62
Johnson	6108	25y6hSCS	4.7	325.41	325.58		325.6	0.016036	0.59	7.99	95.19	0.65
Johnson	6108	10y6hSCS	3.8	325.41	325.56		325.58	0.017762	0.58	6.56	86.23	0.67
Johnson	6108	5y6hSCS	3.1	325.41	325.55		325.57	0.018701	0.56	5.52	79.12	0.68
Johnson	6108	2y6hSCS	2.1	325.41	325.53		325.54	0.021959	0.54	3.88	66.34	0.71
Johnson	6108	100y4hChicago	5.1	325.41	325.58		325.6	0.01531	0.59	8.65	99	0.64
Johnson	6108	2yrFlow100yrLake	2.1	325.41	325.53		325.54	0.021959	0.54	3.88	66.34	0.71
Johnson	6080	Timmins	10.9	325.28	325.56		325.56	0.002363	0.34	51.32	233.3	0.27
Johnson	6080	100y6hSCS	5.9	325.28	325.46		325.46	0.002932	0.22	29.34	173.34	0.26
Johnson	6080	50y6hSCS	5.3	325.28	325.44		325.44	0.002983	0.23	26.75	163.52	0.27
Johnson	6080	25y6hSCS	4.7	325.28	325.42		325.43	0.003026	0.22	24.18	153.85	0.27
Johnson	6080	10y6hSCS	3.8	325.28	325.4		325.4	0.003126	0.2	20.39	139.3	0.26
Johnson	6080	5y6hSCS	3.1	325.28	325.37		325.38	0.003298	0.17	17.18	127.25	0.26
Johnson	6080	2y6hSCS	2.1	325.28	325.33		325.33	0.003585	0.12	12.36	106	0.24
Johnson	6080	100y4hChicago	5.1	325.28	325.43		325.44	0.003004	0.23	25.92	160.49	0.27
Johnson	6080	2yrFlow100yrLake	2.1	325.28	325.33		325.33	0.003585	0.12	12.36	106	0.24
Johnson	6047	Timmins	10.9	325.16	325.45		325.46	0.004813	0.62	33.54	147.63	0.42
Johnson	6047	100y6hSCS	5.9	325.16	325.33		325.33	0.005008	0.44	19.95	94.06	0.39
Johnson	6047	50y6hSCS	5.3	325.16	325.31		325.32	0.005092	0.41	18.36	91.3	0.38
Johnson	6047	25y6hSCS	4.7	325.16	325.29		325.3	0.005173	0.37	16.77	87.81	0.38
Johnson	6047	10y6hSCS	3.8	325.16	325.26		325.27	0.00533	0.31	14.25	82.86	0.36
Johnson	6047	5y6hSCS	3.1	325.16	325.24		325.24	0.005307	0.27	12.05	77.83	0.35
Johnson	6047	2y6hSCS	2.1	325.16	325.19		325.19	0.005135	0.11	8.76	62.78	0.28
Johnson	6047	100y4hChicago	5.1	325.16	325.31		325.31	0.005123	0.4	17.83	90.1	0.38
Johnson	6047	2yrFlow100yrLake	2.1	325.16	325.19		325.19	0.005135	0.11	8.76	62.78	0.28
Johnson	6015	Timmins	10.9	324.8	325.32		325.33	0.003383	0.76	32.33	97.6	0.38
Johnson	6015	100y6hSCS	5.9	324.8	325.2		325.2	0.003379	0.59	21.13	84.83	0.36
Johnson	6015	50y6hSCS	5.3	324.8	325.18		325.18	0.00346	0.57	19.47	83.29	0.36
Johnson	6015	25y6hSCS	4.7	324.8	325.16		325.16	0.003511	0.55	17.85	81.68	0.36
Johnson	6015	10y6hSCS	3.8	324.8	325.13		325.13	0.003579	0.51	15.25	77.92	0.35
Johnson	6015	5y6hSCS	3.1	324.8	325.1		325.1	0.003635	0.47	13.12	73.79	0.35
Johnson	6015	2y6hSCS	2.1	324.8	325.05		325.05	0.003859	0.41	9.7	66.08	0.35
Johnson	6015	100y4hChicago	5.1	324.8	325.17		325.18	0.003495	0.57	18.9	82.78	0.36
Johnson	6015	2yrFlow100yrLake	2.1	324.8	325.05		325.05	0.003859	0.41	9.7	66.08	0.35
Johnson	5982	Timmins	10.9	324.63	325.23		325.24	0.002256	0.68	39.35	107.54	0.32
Johnson	5982	100y6hSCS	5.9	324.63	325.12		325.12	0.001947	0.52	27.38	100.44	0.28
Johnson	5982	50y6hSCS	5.3	324.63	325.1		325.1	0.001882	0.49	25.47	99.56	0.27
Johnson	5982	25y6hSCS	4.7	324.63	325.08		325.08	0.00181	0.46	23.64	97.1	0.27
Johnson	5982	10y6hSCS	3.8	324.63	325.05		325.05	0.00169	0.42	20.81	91.67	0.25
Johnson	5982	5y6hSCS	3.1	324.63	325.02		325.02	0.001581	0.38	18.53	87.38	0.24
Johnson	5982	2y6hSCS	2.1	324.63	324.98		324.98	0.001341	0.31	14.91	81.02	0.22
Johnson	5982	100y4hChicago	5.1	324.63	325.09		325.09	0.00185	0.48	24.83	99.13	0.27
Johnson	5982	2yrFlow100yrLake	2.1	324.63	324.98		324.98	0.001341	0.31	14.91	81.02	0.22
Johnson	5954	Timmins	10.9	324.55	325.12		325.14	0.005598	1.14	25.45	88.13	0.51
Johnson	5954	100y6hSCS	5.9	324.55	325.03		325.04	0.004047	0.84	18.09	71.52	0.42
Johnson	5954	50y6hSCS	5.3	324.55	325.02		325.03	0.003688	0.79	17.13	69.9	0.4
Johnson	5954	25y6hSCS	4.7	324.55	325		325.01	0.003393	0.74	16.18	68.38	0.38
Johnson	5954	10y6hSCS	3.8	324.55	324.98		324.99	0.002883	0.65	14.73	65.68	0.35
Johnson	5954	5y6hSCS	3.1	324.55	324.96		324.97	0.002419	0.58	13.56	63.1	0.32
Johnson	5954	2y6hSCS	2.1	324.55	324.94		324.94	0.001654	0.45	11.8	58.98	0.26
Johnson	5954	100y4hChicago	5.1	324.55	325.01		325.02	0.003612	0.77	16.78	69.37	0.4
Johnson	5954	2yrFlow100yrLake	2.1	324.55	324.94		324.94	0.001654	0.45	11.8	58.98	0.26
Johnson	5930	Timmins	10.9	324.51	325.02		325.03	0.004161	0.95	35.06	156.36	0.44
Johnson	5930	100y6hSCS	5.9	324.51	324.97		324.97	0.002302	0.65	27.3	140.53	0.32
Johnson	5930	50y6hSCS	5.3	324.51	324.96		324.96	0.002029	0.6	26.36	137.49	0.3
Johnson	5930	25y6hSCS	4.7	324.51	324.95		324.96	0.001738	0.55	25.47	133.94	0.28
Johnson	5930	10y6hSCS	3.8	324.51	324.94		324.94	0.001316	0.47	24.04	129.83	0.24
Johnson	5930	5y6hSCS	3.1	324.51	324.93		324.93	0.000978	0.4	22.86	126.61	0.21
Johnson	5930	2y6hSCS	2.1	324.51	324.92		324.92	0.000546	0.29	20.93	119.97	0.15
Johnson	5930	100y4hChicago	5.1	324.51	324.96		324.96	0.001958	0.59	25.93	135.78	0.29

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	5930	2yrFlow100yrLake	2.1	324.51	324.92		324.92	0.000546	0.29	20.93	119.97	0.15
Johnson	5901	Timmins	10.9	323.78	324.99		324.99	0.000446	0.5	81.75	219.23	0.16
Johnson	5901	100y6hSCS	5.9	323.78	324.96		324.96	0.000166	0.3	73.79	210.61	0.09
Johnson	5901	50y6hSCS	5.3	323.78	324.95		324.95	0.00014	0.27	72.68	209.22	0.09
Johnson	5901	25y6hSCS	4.7	323.78	324.95		324.95	0.000115	0.25	71.61	205.54	0.08
Johnson	5901	10y6hSCS	3.8	323.78	324.94		324.94	0.00008	0.21	69.8	203	0.07
Johnson	5901	5y6hSCS	3.1	323.78	324.93		324.93	0.000055	0.17	68.21	200.29	0.05
Johnson	5901	2y6hSCS	2.1	323.78	324.91		324.91	0.000028	0.12	65.42	196.26	0.04
Johnson	5901	100y4hChicago	5.1	323.78	324.95		324.95	0.000132	0.27	72.11	206.14	0.08
Johnson	5901	2yrFlow100yrLake	2.1	323.78	324.91		324.91	0.000028	0.12	65.42	196.26	0.04
Johnson	5873	Timmins	10.9	323.55	324.99		324.99	0.000067	0.23	163.38	267.39	0.06
Johnson	5873	100y6hSCS	5.9	323.55	324.95		324.96	0.000023	0.13	154.02	263.6	0.04
Johnson	5873	50y6hSCS	5.3	323.55	324.95		324.95	0.000019	0.12	152.68	262.55	0.03
Johnson	5873	25y6hSCS	4.7	323.55	324.94		324.94	0.000015	0.11	151.37	261.53	0.03
Johnson	5873	10y6hSCS	3.8	323.55	324.94		324.94	0.00001	0.09	149.09	259.75	0.03
Johnson	5873	5y6hSCS	3.1	323.55	324.93		324.93	0.000007	0.07	147.1	258.37	0.02
Johnson	5873	2y6hSCS	2.1	323.55	324.91		324.91	0.000004	0.05	143.49	257.33	0.01
Johnson	5873	100y4hChicago	5.1	323.55	324.95		324.95	0.000018	0.12	151.96	262	0.03
Johnson	5873	2yrFlow100yrLake	2.1	323.55	324.91		324.91	0.000004	0.05	143.49	257.33	0.01
Johnson	5845	Timmins	10.9	323.46	324.99		324.99	0.000046	0.2	175.34	246.19	0.05
Johnson	5845	100y6hSCS	5.9	323.46	324.95		324.95	0.000016	0.11	166.95	244.55	0.03
Johnson	5845	50y6hSCS	5.3	323.46	324.95		324.95	0.000013	0.1	165.73	243.9	0.03
Johnson	5845	25y6hSCS	4.7	323.46	324.94		324.94	0.00001	0.09	164.53	243.8	0.03
Johnson	5845	10y6hSCS	3.8	323.46	324.94		324.94	0.000007	0.08	162.43	243.63	0.02
Johnson	5845	5y6hSCS	3.1	323.46	324.93		324.93	0.000005	0.06	160.57	243.47	0.02
Johnson	5845	2y6hSCS	2.1	323.46	324.91		324.91	0.000002	0.04	157.18	243.19	0.01
Johnson	5845	100y4hChicago	5.1	323.46	324.95		324.95	0.000012	0.1	165.07	243.85	0.03
Johnson	5845	2yrFlow100yrLake	2.1	323.46	324.91		324.91	0.000002	0.04	157.18	243.19	0.01
Johnson	5843	Timmins	10.9	323.4	324.99	323.87	324.99	0.000023	0.15	228.45	279.57	0.04
Johnson	5843	100y6hSCS	5.9	323.4	324.95	323.78	324.95	0.000008	0.09	218.95	275.83	0.02
Johnson	5843	50y6hSCS	5.3	323.4	324.95	323.78	324.95	0.000006	0.08	217.56	275.53	0.02
Johnson	5843	25y6hSCS	4.7	323.4	324.94	323.77	324.94	0.000005	0.07	216.21	275.22	0.02
Johnson	5843	10y6hSCS	3.8	323.4	324.94	323.74	324.94	0.000003	0.06	213.83	274.61	0.02
Johnson	5843	5y6hSCS	3.1	323.4	324.93	323.72	324.93	0.000002	0.05	211.74	274.03	0.01
Johnson	5843	2y6hSCS	2.1	323.4	324.91	323.67	324.91	0.000001	0.03	207.95	272.97	0.01
Johnson	5843	100y4hChicago	5.1	323.4	324.95	323.77	324.95	0.000006	0.08	216.82	275.36	0.02
Johnson	5843	2yrFlow100yrLake	2.1	323.4	324.91	323.67	324.91	0.000001	0.03	207.95	272.97	0.01
Johnson	5834.043	Culvert										
Johnson	5824	Timmins	10.9	323.31	324.05		324.05	0.00099	0.58	49.44	134.41	0.23
Johnson	5824	100y6hSCS	5.9	323.31	323.91		323.91	0.000764	0.43	33.02	100.94	0.19
Johnson	5824	50y6hSCS	5.3	323.31	323.89		323.89	0.000734	0.41	30.98	95.53	0.19
Johnson	5824	25y6hSCS	4.7	323.31	323.86		323.87	0.000692	0.39	29.07	91.31	0.18
Johnson	5824	10y6hSCS	3.8	323.31	323.83		323.83	0.000578	0.34	25.91	85.38	0.16
Johnson	5824	5y6hSCS	3.1	323.31	323.8		323.8	0.000515	0.31	23.37	80.45	0.15
Johnson	5824	2y6hSCS	2.1	323.31	323.75		323.75	0.000393	0.24	19.28	76.28	0.13
Johnson	5824	100y4hChicago	5.1	323.31	323.88		323.88	0.00072	0.41	30.36	94.06	0.18
Johnson	5824	2yrFlow100yrLake	2.1	323.31	323.75		323.75	0.000393	0.24	19.28	76.28	0.13
Johnson	5820	Timmins	10.9	323.35	324.03		324.04	0.003409	0.97	29.96	91.79	0.41
Johnson	5820	100y6hSCS	5.9	323.35	323.89		323.9	0.003319	0.8	18.65	73.13	0.38
Johnson	5820	50y6hSCS	5.3	323.35	323.87		323.88	0.003358	0.78	17.17	72.13	0.38
Johnson	5820	25y6hSCS	4.7	323.35	323.85		323.86	0.003335	0.75	15.74	71.17	0.38
Johnson	5820	10y6hSCS	3.8	323.35	323.82		323.83	0.003216	0.69	13.37	65.48	0.37
Johnson	5820	5y6hSCS	3.1	323.35	323.79		323.79	0.003062	0.64	11.52	60.35	0.35
Johnson	5820	2y6hSCS	2.1	323.35	323.74		323.74	0.002773	0.55	8.74	52.31	0.33
Johnson	5820	100y4hChicago	5.1	323.35	323.86		323.88	0.003343	0.77	16.71	71.83	0.38
Johnson	5820	2yrFlow100yrLake	2.1	323.35	323.74		323.74	0.002773	0.55	8.74	52.31	0.33
Johnson	5776	Timmins	10.9	323.06	323.85		323.87	0.00467	1.07	23.86	65.98	0.46
Johnson	5776	100y6hSCS	5.9	323.06	323.69		323.71	0.005711	0.99	13.86	59.07	0.48
Johnson	5776	50y6hSCS	5.3	323.06	323.66		323.69	0.005903	0.98	12.53	57.07	0.49

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	5776	25y6hSCS	4.7	323.06	323.64		323.66	0.00635	0.99	11.03	55.97	0.5
Johnson	5776	10y6hSCS	3.8	323.06	323.59		323.62	0.007142	1.02	8.58	52.12	0.53
Johnson	5776	5y6hSCS	3.1	323.06	323.56		323.59	0.00799	1.01	6.76	47.92	0.55
Johnson	5776	2y6hSCS	2.1	323.06	323.49		323.53	0.010734	1.02	3.91	32.85	0.62
Johnson	5776	100y4hChicago	5.1	323.06	323.66		323.68	0.006132	0.99	11.97	56.76	0.5
Johnson	5776	2yrFlow100yrLake	2.1	323.06	323.49		323.53	0.010734	1.02	3.91	32.85	0.62
Johnson	5737.103	Timmins	10.9	322.58	323.55	323.46	323.64	0.007004	1.64	13.71	40.47	0.59
Johnson	5737.103	100y6hSCS	5.9	322.58	323.35	323.27	323.44	0.008259	1.47	6.84	27.51	0.61
Johnson	5737.103	50y6hSCS	5.3	322.58	323.32	323.24	323.41	0.008421	1.44	6.02	26.11	0.61
Johnson	5737.103	25y6hSCS	4.7	322.58	323.28	323.19	323.37	0.008691	1.41	5.14	23.2	0.62
Johnson	5737.103	10y6hSCS	3.8	322.58	323.23	323.12	323.31	0.008911	1.34	3.95	19.23	0.62
Johnson	5737.103	5y6hSCS	3.1	322.58	323.18	323.05	323.25	0.009093	1.26	3.07	15.36	0.61
Johnson	5737.103	2y6hSCS	2.1	322.58	323.08	322.96	323.15	0.008718	1.11	2.04	7.97	0.59
Johnson	5737.103	100y4hChicago	5.1	322.58	323.31	323.23	323.4	0.00849	1.43	5.72	25.44	0.62
Johnson	5737.103	2yrFlow100yrLake	2.1	322.58	323.08	322.96	323.15	0.008718	1.11	2.04	7.97	0.59
Johnson	5707	Timmins	10.9	322.36	323.06	323.06	323.29	0.021357	2.43	7.06	17.63	1.02
Johnson	5707	100y6hSCS	5.9	322.36	322.9	322.9	323.06	0.021932	1.97	4.44	15	0.98
Johnson	5707	50y6hSCS	5.3	322.36	322.87	322.87	323.03	0.021771	1.89	4.11	14.81	0.97
Johnson	5707	25y6hSCS	4.7	322.36	322.86	322.85	322.99	0.02047	1.78	3.85	14.58	0.93
Johnson	5707	10y6hSCS	3.8	322.36	322.82	322.79	322.94	0.018849	1.6	3.38	14.12	0.88
Johnson	5707	5y6hSCS	3.1	322.36	322.8	322.77	322.89	0.01714	1.45	3	13.59	0.83
Johnson	5707	2y6hSCS	2.1	322.36	322.75		322.81	0.015064	1.2	2.33	12.45	0.75
Johnson	5707	100y4hChicago	5.1	322.36	322.87	322.87	323.01	0.021437	1.86	4.02	14.75	0.96
Johnson	5707	2yrFlow100yrLake	2.1	322.36	322.75		322.81	0.015064	1.2	2.33	12.45	0.75
Johnson	5671	Timmins	10.9	322.35	322.88	322.54	322.89	0.003961	0.82	24.54	53.14	0.41
Johnson	5671	100y6hSCS	5.9	322.35	322.73	322.47	322.74	0.003646	0.58	17.18	49.35	0.37
Johnson	5671	50y6hSCS	5.3	322.35	322.71		322.72	0.003572	0.54	16.2	49.14	0.36
Johnson	5671	25y6hSCS	4.7	322.35	322.69		322.7	0.003523	0.5	15.13	48.85	0.35
Johnson	5671	10y6hSCS	3.8	322.35	322.65		322.66	0.003419	0.44	13.38	47.93	0.34
Johnson	5671	5y6hSCS	3.1	322.35	322.62		322.63	0.003373	0.38	11.9	47.63	0.32
Johnson	5671	2y6hSCS	2.1	322.35	322.56		322.57	0.003302	0.31	9.22	44.88	0.3
Johnson	5671	100y4hChicago	5.1	322.35	322.71		322.71	0.003537	0.53	15.88	49.07	0.36
Johnson	5671	2yrFlow100yrLake	2.1	322.35	322.56		322.57	0.003302	0.31	9.22	44.88	0.3
Johnson	5629.119	Timmins	10.9	322.11	322.53		322.56	0.022066	1.22	14.03	44.37	0.86
Johnson	5629.119	100y6hSCS	5.9	322.11	322.44	322.3	322.46	0.016479	0.86	10.37	42.03	0.71
Johnson	5629.119	50y6hSCS	5.3	322.11	322.42	322.28	322.44	0.017688	0.84	9.44	41.07	0.72
Johnson	5629.119	25y6hSCS	4.7	322.11	322.4	322.27	322.42	0.017119	0.81	8.82	40.31	0.71
Johnson	5629.119	10y6hSCS	3.8	322.11	322.38	322.26	322.39	0.015881	0.76	7.85	39.11	0.68
Johnson	5629.119	5y6hSCS	3.1	322.11	322.36	322.23	322.37	0.015242	0.74	6.95	37.84	0.66
Johnson	5629.119	2y6hSCS	2.1	322.11	322.32	322.2	322.32	0.013163	0.67	5.49	34.73	0.61
Johnson	5629.119	100y4hChicago	5.1	322.11	322.41	322.28	322.43	0.017633	0.84	9.22	40.79	0.72
Johnson	5629.119	2yrFlow100yrLake	2.1	322.11	322.32	322.2	322.32	0.013163	0.67	5.49	34.73	0.61
Johnson	5596	Timmins	10.9	321.56	321.91		321.93	0.016773	0.66	18.89	87.04	0.66
Johnson	5596	100y6hSCS	5.9	321.56	321.79		321.81	0.024343	0.63	9.99	56.56	0.74
Johnson	5596	50y6hSCS	5.3	321.56	321.78		321.8	0.021596	0.68	9.6	54.03	0.72
Johnson	5596	25y6hSCS	4.7	321.56	321.77		321.78	0.022382	0.74	8.66	50.02	0.73
Johnson	5596	10y6hSCS	3.8	321.56	321.73		321.75	0.025101	0.7	7.14	45.6	0.76
Johnson	5596	5y6hSCS	3.1	321.56	321.7		321.72	0.027043	0.64	5.82	39.83	0.76
Johnson	5596	2y6hSCS	2.1	321.56	321.65		321.66	0.034686	0.52	3.92	30.91	0.79
Johnson	5596	100y4hChicago	5.1	321.56	321.78		321.79	0.021638	0.75	9.3	51.97	0.73
Johnson	5596	2yrFlow100yrLake	2.1	321.56	321.65		321.66	0.034686	0.52	3.92	30.91	0.79
Johnson	5556.337	Timmins	10.9	321.21	321.72		321.73	0.002324	0.44	42.06	133.09	0.28
Johnson	5556.337	100y6hSCS	5.9	321.21	321.62		321.63	0.001794	0.3	29.38	119.48	0.23
Johnson	5556.337	50y6hSCS	5.3	321.21	321.58		321.58	0.002367	0.29	24.26	107.37	0.26
Johnson	5556.337	25y6hSCS	4.7	321.21	321.56		321.56	0.00236	0.26	22.19	103.21	0.25
Johnson	5556.337	10y6hSCS	3.8	321.21	321.53		321.53	0.002242	0.21	19.3	94.62	0.23
Johnson	5556.337	5y6hSCS	3.1	321.21	321.5		321.5	0.002142	0.22	16.85	89.09	0.23
Johnson	5556.337	2y6hSCS	2.1	321.21	321.45		321.45	0.001964	0.2	12.61	75.44	0.22
Johnson	5556.337	100y4hChicago	5.1	321.21	321.57		321.57	0.002392	0.28	23.49	105.65	0.26
Johnson	5556.337	2yrFlow100yrLake	2.1	321.21	321.45		321.45	0.001964	0.2	12.61	75.44	0.22

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	5416.916	Timmins	10.9	320.79	321.15		321.21	0.010963	1.14	10.38	38.56	0.66
Johnson	5416.916	100y6hSCS	5.9	320.79	321	321	321.07	0.031559	1.23	5.02	34.49	1
Johnson	5416.916	50y6hSCS	5.3	320.79	321.05		321.08	0.010071	0.83	6.7	35.02	0.59
Johnson	5416.916	25y6hSCS	4.7	320.79	321.03		321.06	0.009871	0.79	6.25	34.88	0.58
Johnson	5416.916	10y6hSCS	3.8	320.79	321		321.03	0.011329	0.76	5.25	34.56	0.61
Johnson	5416.916	5y6hSCS	3.1	320.79	320.98		321.01	0.012617	0.72	4.47	34.34	0.62
Johnson	5416.916	2y6hSCS	2.1	320.79	320.95		320.97	0.014289	0.64	3.37	33.82	0.63
Johnson	5416.916	100y4hChicago	5.1	320.79	321.05		321.08	0.009466	0.81	6.67	35.01	0.58
Johnson	5416.916	2yrFlow100yrLake	2.1	320.79	320.95		320.97	0.014289	0.64	3.37	33.82	0.63
Johnson	5376	Timmins	10.9	320.31	320.82		320.84	0.007273	1.01	24.91	102.58	0.54
Johnson	5376	100y6hSCS	5.9	320.31	320.83	320.54	320.83	0.001963	0.53	25.7	103.24	0.28
Johnson	5376	50y6hSCS	5.3	320.31	320.68		320.7	0.008587	0.95	12.64	70.88	0.57
Johnson	5376	25y6hSCS	4.7	320.31	320.66		320.67	0.008997	0.94	11.24	64.69	0.58
Johnson	5376	10y6hSCS	3.8	320.31	320.64		320.65	0.007709	0.83	9.91	58.13	0.53
Johnson	5376	5y6hSCS	3.1	320.31	320.61		320.62	0.007178	0.76	8.53	52.41	0.5
Johnson	5376	2y6hSCS	2.1	320.31	320.57		320.57	0.006972	0.65	6.27	39.92	0.48
Johnson	5376	100y4hChicago	5.1	320.31	320.67		320.68	0.009524	0.98	11.73	66.2	0.6
Johnson	5376	2yrFlow100yrLake	2.1	320.31	320.57		320.57	0.006972	0.65	6.27	39.92	0.48
Johnson	5333	Timmins	10.9	319.9	320.66		320.68	0.002208	0.65	29.49	77.31	0.31
Johnson	5333	100y6hSCS	5.9	319.9	320.81		320.81	0.000243	0.26	41.34	90.23	0.11
Johnson	5333	50y6hSCS	5.3	319.9	320.6		320.6	0.000946	0.38	24.32	75.8	0.2
Johnson	5333	25y6hSCS	4.7	319.9	320.49		320.5	0.002291	0.47	16.54	68.53	0.29
Johnson	5333	10y6hSCS	3.8	319.9	320.42		320.43	0.003558	0.51	12.33	60.37	0.35
Johnson	5333	5y6hSCS	3.1	319.9	320.39		320.4	0.00395	0.5	10.33	56.93	0.36
Johnson	5333	2y6hSCS	2.1	319.9	320.34		320.35	0.004101	0.47	7.5	52.24	0.36
Johnson	5333	100y4hChicago	5.1	319.9	320.55		320.56	0.001363	0.42	20.91	74.63	0.23
Johnson	5333	2yrFlow100yrLake	2.1	319.9	320.34		320.35	0.004101	0.47	7.5	52.24	0.36
Johnson	5272.002	Timmins	10.9	319.69	320.52		320.53	0.002686	0.98	27.43	49.27	0.36
Johnson	5272.002	100y6hSCS	5.9	319.69	320.79		320.8	0.000213	0.34	41.33	50.63	0.11
Johnson	5272.002	50y6hSCS	5.3	319.69	320.56		320.56	0.00051	0.44	29.39	49.46	0.16
Johnson	5272.002	25y6hSCS	4.7	319.69	320.4		320.41	0.001015	0.54	21.87	48.2	0.22
Johnson	5272.002	10y6hSCS	3.8	319.69	320.27		320.28	0.001883	0.63	15.73	47.46	0.28
Johnson	5272.002	5y6hSCS	3.1	319.69	320.21		320.22	0.002345	0.65	12.81	46.21	0.31
Johnson	5272.002	2y6hSCS	2.1	319.69	320.13		320.13	0.003013	0.64	8.97	44.13	0.34
Johnson	5272.002	100y4hChicago	5.1	319.69	320.5		320.5	0.00066	0.48	26.45	49.18	0.18
Johnson	5272.002	2yrFlow100yrLake	2.1	319.69	320.13		320.13	0.003013	0.64	8.97	44.13	0.34
Johnson	5248	Timmins	10.9	319.65	320.46		320.47	0.002095	0.92	29.07	47.45	0.34
Johnson	5248	100y6hSCS	5.9	319.65	320.79		320.79	0.000152	0.32	45.02	48.86	0.1
Johnson	5248	50y6hSCS	5.3	319.65	320.55		320.55	0.000322	0.39	33.23	47.77	0.13
Johnson	5248	25y6hSCS	4.7	319.65	320.38		320.39	0.00059	0.46	25.54	47.16	0.18
Johnson	5248	10y6hSCS	3.8	319.65	320.24		320.25	0.001001	0.51	18.91	46.19	0.22
Johnson	5248	5y6hSCS	3.1	319.65	320.17		320.18	0.001115	0.49	15.85	44.01	0.23
Johnson	5248	2y6hSCS	2.1	319.65	320.08		320.09	0.001205	0.45	11.94	42.44	0.23
Johnson	5248	100y4hChicago	5.1	319.65	320.48		320.49	0.000403	0.41	30.27	47.55	0.15
Johnson	5248	2yrFlow100yrLake	2.1	319.65	320.08		320.09	0.001205	0.45	11.94	42.44	0.23
Johnson	5223	Timmins	10.9	319.67	320.32		320.36	0.014798	1.52	14.49	35.16	0.78
Johnson	5223	100y6hSCS	5.9	319.67	320.78		320.79	0.000359	0.4	31.73	38.09	0.14
Johnson	5223	50y6hSCS	5.3	319.67	320.53		320.54	0.00092	0.51	22.22	37.36	0.21
Johnson	5223	25y6hSCS	4.7	319.67	320.36		320.36	0.002122	0.61	15.74	35.57	0.3
Johnson	5223	10y6hSCS	3.8	319.67	320.19		320.2	0.005244	0.76	10.01	31.75	0.44
Johnson	5223	5y6hSCS	3.1	319.67	320.11		320.12	0.008164	0.84	7.51	29.56	0.54
Johnson	5223	2y6hSCS	2.1	319.67	319.99	319.91	320.01	0.015762	1.12	4.47	24.93	0.74
Johnson	5223	100y4hChicago	5.1	319.67	320.47		320.47	0.001244	0.54	19.76	37.07	0.24
Johnson	5223	2yrFlow100yrLake	2.1	319.67	319.99	319.91	320.01	0.015762	1.12	4.47	24.93	0.74
Johnson	5200	Timmins	10.9	318.6	319.58	319.58	319.75	0.058918	2.85	7.31	22.5	1.44
Johnson	5200	100y6hSCS	5.9	318.6	319.16	319.16	320.61	0.528371	7.66	1.38	6.18	3.92
Johnson	5200	50y6hSCS	5.3	318.6	319.16	319.16	320.34	0.431452	6.91	1.37	6.16	3.54
Johnson	5200	25y6hSCS	4.7	318.6	319.15	319.15	320.1	0.345156	6.18	1.36	6.14	3.17
Johnson	5200	10y6hSCS	3.8	318.6	319.15	319.15	319.78	0.228094	5.02	1.35	6.13	2.58
Johnson	5200	5y6hSCS	3.1	318.6	319.15	319.15	319.59	0.161273	4.19	1.31	6.04	2.16
Johnson	5200	2y6hSCS	2.1	318.6	319.15	319.15	319.34	0.069545	2.77	1.35	6.13	1.42

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	5200	100y4hChicago	5.1	318.6	319.15	319.15	320.26	0.401615	6.67	1.37	6.16	3.42
Johnson	5200	2yrFlow100yrLake	2.1	318.6	319.15	319.15	319.34	0.069545	2.77	1.35	6.13	1.42
Johnson	5181	Timmins	10.9	318.01	318.98	318.64	319.06	0.008587	1.96	11.92	18.08	0.69
Johnson	5181	100y6hSCS	5.9	318.01	318.77	318.47	318.82	0.006376	1.4	8.54	15.59	0.57
Johnson	5181	50y6hSCS	5.3	318.01	318.74	318.45	318.78	0.006058	1.32	8.08	15.4	0.55
Johnson	5181	25y6hSCS	4.7	318.01	318.71	318.41	318.74	0.005769	1.24	7.58	15.19	0.53
Johnson	5181	10y6hSCS	3.8	318.01	318.66	318.37	318.68	0.005222	1.11	6.79	14.89	0.49
Johnson	5181	5y6hSCS	3.1	318.01	318.6	318.32	318.63	0.005036	1.01	6	14.63	0.48
Johnson	5181	2y6hSCS	2.1	318.01	318.51	318.26	318.53	0.004822	0.85	4.67	13.94	0.45
Johnson	5181	100y4hChicago	5.1	318.01	318.73	318.43	318.77	0.00599	1.3	7.91	15.33	0.54
Johnson	5181	2yrFlow100yrLake	2.1	318.01	318.51	318.26	318.53	0.004822	0.85	4.67	13.94	0.45
Johnson	5159.736	Timmins	10.9	317.6	318.68		318.81	0.015416	2.5	10.5	21.3	0.85
Johnson	5159.736	100y6hSCS	5.9	317.6	318.48	318.46	318.6	0.016558	2.18	6.54	19.34	0.84
Johnson	5159.736	50y6hSCS	5.3	317.6	318.45	318.44	318.57	0.016904	2.14	5.98	19.17	0.85
Johnson	5159.736	25y6hSCS	4.7	317.6	318.42	318.42	318.54	0.016798	2.08	5.46	18.87	0.84
Johnson	5159.736	10y6hSCS	3.8	317.6	318.37	318.35	318.49	0.018064	2.02	4.43	18.24	0.86
Johnson	5159.736	5y6hSCS	3.1	317.6	318.32	318.31	318.44	0.018757	1.94	3.56	16.2	0.86
Johnson	5159.736	2y6hSCS	2.1	317.6	318.26	318.26	318.35	0.016183	1.65	2.66	13.57	0.78
Johnson	5159.736	100y4hChicago	5.1	317.6	318.44	318.44	318.56	0.016601	2.11	5.85	19.09	0.84
Johnson	5159.736	2yrFlow100yrLake	2.1	317.6	318.26	318.26	318.35	0.016183	1.65	2.66	13.57	0.78
Johnson	5139	Timmins	10.9	317.3	318.3	318.21	318.46	0.019229	2.67	10.03	22.55	0.97
Johnson	5139	100y6hSCS	5.9	317.3	318.13		318.24	0.018031	2.18	6.37	19.16	0.9
Johnson	5139	50y6hSCS	5.3	317.3	318.1		318.21	0.01755	2.09	5.92	18.81	0.88
Johnson	5139	25y6hSCS	4.7	317.3	318.07	318.01	318.18	0.018373	2.05	5.27	18.12	0.89
Johnson	5139	10y6hSCS	3.8	317.3	318.03		318.12	0.017121	1.87	4.5	16.49	0.85
Johnson	5139	5y6hSCS	3.1	317.3	317.99		318.07	0.016021	1.72	3.88	15.59	0.81
Johnson	5139	2y6hSCS	2.1	317.3	317.9	317.8	317.97	0.016883	1.53	2.63	12.98	0.8
Johnson	5139	100y4hChicago	5.1	317.3	318.09		318.2	0.018674	2.11	5.59	18.49	0.9
Johnson	5139	2yrFlow100yrLake	2.1	317.3	317.9	317.8	317.97	0.016883	1.53	2.63	12.98	0.8
Johnson	5112	Timmins	10.9	317.01	318.04		318.09	0.008967	1.6	13.48	23.68	0.64
Johnson	5112	100y6hSCS	5.9	317.01	317.79		317.83	0.011872	1.34	8.18	20.64	0.68
Johnson	5112	50y6hSCS	5.3	317.01	317.76		317.8	0.01249	1.29	7.51	20.34	0.69
Johnson	5112	25y6hSCS	4.7	317.01	317.72		317.75	0.012435	1.19	6.69	19.59	0.68
Johnson	5112	10y6hSCS	3.8	317.01	317.66		317.69	0.013537	1.09	5.63	17.71	0.68
Johnson	5112	5y6hSCS	3.1	317.01	317.62		317.64	0.014663	0.98	4.79	16.57	0.69
Johnson	5112	2y6hSCS	2.1	317.01	317.5		317.53	0.015072	0.66	3.16	11.52	0.63
Johnson	5112	100y4hChicago	5.1	317.01	317.74		317.78	0.012116	1.23	7.14	20.12	0.68
Johnson	5112	2yrFlow100yrLake	2.1	317.01	317.5		317.53	0.015072	0.66	3.16	11.52	0.63
Johnson	5084.809	Timmins	10.9	316.51	317.54	317.47	317.77	0.014128	2.58	7.74	12.88	0.86
Johnson	5084.809	100y6hSCS	5.9	316.51	317.29	317.25	317.46	0.014725	2.13	4.79	11.18	0.84
Johnson	5084.809	50y6hSCS	5.3	316.51	317.25	317.22	317.41	0.014804	2.06	4.41	11.04	0.83
Johnson	5084.809	25y6hSCS	4.7	316.51	317.22	317.18	317.37	0.014855	1.98	4.02	10.93	0.82
Johnson	5084.809	10y6hSCS	3.8	316.51	317.16	317.13	317.3	0.014634	1.84	3.42	10.55	0.81
Johnson	5084.809	5y6hSCS	3.1	316.51	317.11	317.08	317.23	0.014379	1.71	2.92	10.18	0.79
Johnson	5084.809	2y6hSCS	2.1	316.51	317.04	317	317.13	0.013393	1.47	2.17	9.37	0.74
Johnson	5084.809	100y4hChicago	5.1	316.51	317.24	317.21	317.4	0.014828	2.03	4.28	10.99	0.83
Johnson	5084.809	2yrFlow100yrLake	2.1	316.51	317.04	317	317.13	0.013393	1.47	2.17	9.37	0.74
Johnson	5066	Timmins	10.9	317.11	317.44		317.49	0.009673	0.8	11.85	13.83	0.53
Johnson	5066	100y6hSCS	5.9	317.11	317.13		317.16	0.011874	0.12	7.58	13.09	0.39
Johnson	5066	50y6hSCS	5.3	317.11	317.09		317.11	0.012353		7	12.91	0
Johnson	5066	25y6hSCS	4.7	317.11	317.04		317.07	0.012876		6.4	12.79	0
Johnson	5066	10y6hSCS	3.8	317.11	316.97		316.99	0.013812		5.47	12.53	0
Johnson	5066	5y6hSCS	3.1	317.11	316.91		316.93	0.01457		4.72	12.29	0
Johnson	5066	2y6hSCS	2.1	317.11	316.81		316.83	0.015709		3.62	12.06	0
Johnson	5066	100y4hChicago	5.1	317.11	317.07		317.1	0.012511		6.8	12.87	0
Johnson	5066	2yrFlow100yrLake	2.1	317.11	316.81		316.83	0.015709		3.62	12.06	0
Johnson	5048	Timmins	10.9	315.88	316.89	316.89	317.23	0.018177	2.7	5.07	8.42	0.96
Johnson	5048	100y6hSCS	5.9	315.88	316.61	316.61	316.87	0.020241	2.29	2.99	6.7	0.96
Johnson	5048	50y6hSCS	5.3	315.88	316.57	316.57	316.82	0.020554	2.22	2.73	6.49	0.96
Johnson	5048	25y6hSCS	4.7	315.88	316.53	316.53	316.76	0.021105	2.15	2.46	6.16	0.96

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	5048	10y6hSCS	3.8	315.88	316.47	316.47	316.67	0.021351	2.01	2.07	5.94	0.95
Johnson	5048	5y6hSCS	3.1	315.88	316.41	316.41	316.59	0.022442	1.9	1.73	5.74	0.96
Johnson	5048	2y6hSCS	2.1	315.88	316.31	316.31	316.46	0.026386	1.74	1.22	4.35	1
Johnson	5048	100y4hChicago	5.1	315.88	316.56	316.56	316.8	0.020694	2.19	2.64	6.42	0.96
Johnson	5048	2yrFlow100yrLake	2.1	315.88	316.31	316.31	316.46	0.026386	1.74	1.22	4.35	1
Johnson	5028.879	Timmins	10.9	315.54	316.35	316.46	316.78	0.0299	3.04	4.54	9.37	1.21
Johnson	5028.879	100y6hSCS	5.9	315.54	316.27	316.22	316.44	0.014808	1.94	3.74	8.84	0.83
Johnson	5028.879	50y6hSCS	5.3	315.54	316.24	316.18	316.4	0.014091	1.84	3.52	8.66	0.8
Johnson	5028.879	25y6hSCS	4.7	315.54	316.21	316.13	316.35	0.0136	1.74	3.26	8.52	0.78
Johnson	5028.879	10y6hSCS	3.8	315.54	316.16	316.09	316.28	0.012488	1.56	2.88	8.3	0.74
Johnson	5028.879	5y6hSCS	3.1	315.54	316.12	316.04	316.22	0.01148	1.41	2.54	7.67	0.69
Johnson	5028.879	2y6hSCS	2.1	315.54	316.05	315.96	316.12	0.00991	1.18	1.99	7.07	0.63
Johnson	5028.879	100y4hChicago	5.1	315.54	316.23	316.17	316.39	0.013902	1.8	3.43	8.62	0.79
Johnson	5028.879	2yrFlow100yrLake	2.1	315.54	316.05	315.96	316.12	0.00991	1.18	1.99	7.07	0.63
Johnson	5014	Timmins	10.9	315.47	316.2	316.2	316.47	0.017892	2.44	6.09	12.74	0.95
Johnson	5014	100y6hSCS	5.9	315.47	316	316	316.19	0.019761	2.01	3.68	11.1	0.94
Johnson	5014	50y6hSCS	5.3	315.47	315.97	315.97	316.15	0.020114	1.95	3.37	10.85	0.94
Johnson	5014	25y6hSCS	4.7	315.47	315.94	315.94	316.11	0.020127	1.86	3.07	10.63	0.93
Johnson	5014	10y6hSCS	3.8	315.47	315.89	315.89	316.04	0.021053	1.75	2.55	10.22	0.93
Johnson	5014	5y6hSCS	3.1	315.47	315.85	315.85	315.99	0.022422	1.65	2.11	9.64	0.94
Johnson	5014	2y6hSCS	2.1	315.47	315.78	315.78	315.89	0.026138	1.49	1.47	7.34	0.97
Johnson	5014	100y4hChicago	5.1	315.47	315.96	315.96	316.14	0.020171	1.92	3.26	10.78	0.94
Johnson	5014	2yrFlow100yrLake	2.1	315.47	315.78	315.78	315.89	0.026138	1.49	1.47	7.34	0.97
Johnson	5000	Timmins	10.9	315.15	315.8	315.89	316.16	0.028749	2.76	5.06	12.35	1.18
Johnson	5000	100y6hSCS	5.9	315.15	315.72	315.69	315.87	0.014937	1.79	4.08	11.48	0.83
Johnson	5000	50y6hSCS	5.3	315.15	315.7	315.66	315.83	0.01436	1.7	3.82	11.43	0.81
Johnson	5000	25y6hSCS	4.7	315.15	315.67	315.63	315.8	0.013932	1.61	3.54	11.3	0.79
Johnson	5000	10y6hSCS	3.8	315.15	315.63	315.58	315.73	0.01313	1.46	3.08	11.08	0.75
Johnson	5000	5y6hSCS	3.1	315.15	315.59	315.54	315.68	0.01258	1.34	2.67	10.89	0.72
Johnson	5000	2y6hSCS	2.1	315.15	315.53	315.47	315.6	0.011424	1.12	2.04	8.91	0.67
Johnson	5000	100y4hChicago	5.1	315.15	315.69	315.65	315.82	0.014194	1.67	3.73	11.39	0.8
Johnson	5000	2yrFlow100yrLake	2.1	315.15	315.53	315.47	315.6	0.011424	1.12	2.04	8.91	0.67
Johnson	4988	Timmins	10.9	314.96	315.76	315.69	315.92	0.012482	1.97	7.83	16.49	0.79
Johnson	4988	100y6hSCS	5.9	314.96	315.56	315.53	315.69	0.014776	1.67	4.68	15.36	0.81
Johnson	4988	50y6hSCS	5.3	314.96	315.53	315.5	315.66	0.01522	1.62	4.26	15.14	0.81
Johnson	4988	25y6hSCS	4.7	314.96	315.51	315.48	315.62	0.015094	1.55	3.9	14.43	0.8
Johnson	4988	10y6hSCS	3.8	314.96	315.47	315.43	315.57	0.015363	1.44	3.29	14.01	0.79
Johnson	4988	5y6hSCS	3.1	314.96	315.43	315.4	315.52	0.015511	1.35	2.79	13.42	0.78
Johnson	4988	2y6hSCS	2.1	314.96	315.37	315.34	315.44	0.015174	1.16	2.05	12.16	0.75
Johnson	4988	100y4hChicago	5.1	314.96	315.53	315.49	315.64	0.015211	1.6	4.14	15.08	0.81
Johnson	4988	2yrFlow100yrLake	2.1	314.96	315.37	315.34	315.44	0.015174	1.16	2.05	12.16	0.75
Johnson	4979	Timmins	10.9	314.85	315.52	315.52	315.77	0.020344	2.37	6.11	12.9	1
Johnson	4979	100y6hSCS	5.9	314.85	315.34	315.34	315.51	0.022239	1.94	3.88	12.23	0.98
Johnson	4979	50y6hSCS	5.3	314.85	315.32	315.32	315.48	0.022143	1.86	3.61	12.14	0.97
Johnson	4979	25y6hSCS	4.7	314.85	315.29	315.29	315.44	0.022998	1.8	3.27	12.01	0.98
Johnson	4979	10y6hSCS	3.8	314.85	315.25	315.25	315.38	0.023519	1.67	2.79	11.82	0.97
Johnson	4979	5y6hSCS	3.1	314.85	315.22	315.22	315.33	0.024117	1.56	2.38	11.65	0.96
Johnson	4979	2y6hSCS	2.1	314.85	315.15	315.15	315.25	0.026349	1.4	1.71	9.83	0.97
Johnson	4979	100y4hChicago	5.1	314.85	315.31	315.31	315.47	0.022422	1.84	3.49	12.1	0.97
Johnson	4979	2yrFlow100yrLake	2.1	314.85	315.15	315.15	315.25	0.026349	1.4	1.71	9.83	0.97
Johnson	4963.422	Timmins	10.9	313.79	314.32	314.56	315.11	0.092935	3.94	2.85	8.15	1.98
Johnson	4963.422	100y6hSCS	5.9	313.79	314.17	314.35	314.77	0.126193	3.43	1.72	6.73	2.15
Johnson	4963.422	50y6hSCS	5.3	313.79	314.15	314.32	314.72	0.135002	3.36	1.58	6.63	2.19
Johnson	4963.422	25y6hSCS	4.7	313.79	314.13	314.28	314.66	0.13846	3.24	1.45	6.54	2.2
Johnson	4963.422	10y6hSCS	3.8	313.79	314.1	314.23	314.58	0.149418	3.08	1.23	6.38	2.23
Johnson	4963.422	5y6hSCS	3.1	313.79	314.07	314.19	314.51	0.161229	2.93	1.06	6.25	2.27
Johnson	4963.422	2y6hSCS	2.1	313.79	314.03	314.12	314.37	0.167138	2.58	0.81	6	2.23
Johnson	4963.422	100y4hChicago	5.1	313.79	314.14	314.31	314.7	0.136306	3.32	1.54	6.6	2.2
Johnson	4963.422	2yrFlow100yrLake	2.1	313.79	314.03	314.12	314.37	0.167138	2.58	0.81	6	2.23
Johnson	4945	Timmins	10.9	313.36	314.3	314.3	314.55	0.023804	2.42	6	13.64	1.05

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4945	100y6hSCS	5.9	313.36	314.1	314.1	314.29	0.030056	2.09	3.52	10.55	1.11
Johnson	4945	50y6hSCS	5.3	313.36	314.07	314.07	314.25	0.031431	2.04	3.22	10.17	1.12
Johnson	4945	25y6hSCS	4.7	313.36	314.06	314.06	314.21	0.027599	1.89	3.08	9.8	1.04
Johnson	4945	10y6hSCS	3.8	313.36	313.98	313.98	314.15	0.021282	1.92	2.51	6.58	0.94
Johnson	4945	5y6hSCS	3.1	313.36	313.91	313.91	314.08	0.025635	1.95	2.01	6.13	1.01
Johnson	4945	2y6hSCS	2.1	313.36	313.82	313.82	313.96	0.025935	1.73	1.52	5.82	0.99
Johnson	4945	100y4hChicago	5.1	313.36	314.07	314.07	314.24	0.029717	1.97	3.2	10.13	1.09
Johnson	4945	2yrFlow100yrLake	2.1	313.36	313.82	313.82	313.96	0.025935	1.73	1.52	5.82	0.99
Johnson	4931	Timmins	10.9	313.05	313.67	313.79	314.07	0.047366	3.04	4.69	13.34	1.45
Johnson	4931	100y6hSCS	5.9	313.05	313.67	313.6	313.79	0.014169	1.66	4.66	13.3	0.79
Johnson	4931	50y6hSCS	5.3	313.05	313.65	313.57	313.75	0.013834	1.59	4.35	11.18	0.78
Johnson	4931	25y6hSCS	4.7	313.05	313.62	313.54	313.72	0.01352	1.51	4.04	11.06	0.76
Johnson	4931	10y6hSCS	3.8	313.05	313.58	313.49	313.66	0.012279	1.36	3.61	10.87	0.71
Johnson	4931	5y6hSCS	3.1	313.05	313.54	313.45	313.61	0.01181	1.27	3.15	10.35	0.69
Johnson	4931	2y6hSCS	2.1	313.05	313.44	313.38	313.5	0.01454	1.21	2.19	8.96	0.74
Johnson	4931	100y4hChicago	5.1	313.05	313.64	313.56	313.74	0.013676	1.56	4.25	11.15	0.77
Johnson	4931	2yrFlow100yrLake	2.1	313.05	313.44	313.38	313.5	0.01454	1.21	2.19	8.96	0.74
Johnson	4912	Timmins	10.9	312.84	313.5	313.46	313.64	0.015369	1.92	10.06	31.32	0.85
Johnson	4912	100y6hSCS	5.9	312.84	313.3	313.29	313.44	0.024197	1.86	4.57	20.11	1
Johnson	4912	50y6hSCS	5.3	312.84	313.28	313.27	313.41	0.024276	1.8	4.14	18.11	0.99
Johnson	4912	25y6hSCS	4.7	312.84	313.25	313.24	313.38	0.024386	1.74	3.69	15.75	0.98
Johnson	4912	10y6hSCS	3.8	312.84	313.2	313.19	313.32	0.027718	1.71	2.94	12.76	1.03
Johnson	4912	5y6hSCS	3.1	312.84	313.16	313.14	313.27	0.028915	1.6	2.49	10.81	1.03
Johnson	4912	2y6hSCS	2.1	312.84	313.14	313.08	313.2	0.017259	1.18	2.28	10.7	0.78
Johnson	4912	100y4hChicago	5.1	312.84	313.27	313.26	313.4	0.024421	1.78	3.98	17.4	0.99
Johnson	4912	2yrFlow100yrLake	2.1	312.84	313.14	313.08	313.2	0.017259	1.18	2.28	10.7	0.78
Johnson	4895	Timmins	10.9	312.46	313.56		313.57	0.000646	0.62	39.61	61.27	0.2
Johnson	4895	100y6hSCS	5.9	312.46	312.87	312.87	313.02	0.02754	1.87	4.3	19.3	1.06
Johnson	4895	50y6hSCS	5.3	312.46	312.85	312.85	312.99	0.02716	1.79	3.96	17.38	1.04
Johnson	4895	25y6hSCS	4.7	312.46	312.83	312.83	312.96	0.026844	1.7	3.64	16.21	1.02
Johnson	4895	10y6hSCS	3.8	312.46	312.82	312.79	312.91	0.022152	1.48	3.35	15.33	0.92
Johnson	4895	5y6hSCS	3.1	312.46	312.79	312.76	312.87	0.020034	1.32	3.01	14.06	0.86
Johnson	4895	2y6hSCS	2.1	312.46	312.71	312.71	312.79	0.037847	1.37	1.89	12.88	1.1
Johnson	4895	100y4hChicago	5.1	312.46	312.85	312.85	312.98	0.027144	1.76	3.85	16.92	1.04
Johnson	4895	2yrFlow100yrLake	2.1	312.46	312.71	312.71	312.79	0.037847	1.37	1.89	12.88	1.1
Johnson	4879.412	Timmins	10.9	311.98	313.56		313.56	0.000119	0.32	73.11	67.23	0.09
Johnson	4879.412	100y6hSCS	5.9	311.98	312.47	312.49	312.6	0.025077	1.78	5.74	38.42	0.99
Johnson	4879.412	50y6hSCS	5.3	311.98	312.46	312.48	312.58	0.024507	1.72	5.17	35.6	0.97
Johnson	4879.412	25y6hSCS	4.7	311.98	312.44	312.44	312.55	0.024057	1.65	4.56	31.91	0.96
Johnson	4879.412	10y6hSCS	3.8	311.98	312.38	312.38	312.49	0.031018	1.67	3.14	16.66	1.06
Johnson	4879.412	5y6hSCS	3.1	311.98	312.34	312.34	312.45	0.0361	1.63	2.52	12.76	1.11
Johnson	4879.412	2y6hSCS	2.1	311.98	312.38	312.29	312.41	0.009354	0.92	3.16	16.73	0.58
Johnson	4879.412	100y4hChicago	5.1	311.98	312.45	312.47	312.57	0.02399	1.69	5.01	34.86	0.96
Johnson	4879.412	2yrFlow100yrLake	2.1	311.98	312.38	312.29	312.41	0.009354	0.92	3.16	16.73	0.58
Johnson	4811.571	Timmins	10.9	311.01	313.55		313.56	0.000091	0.41	62	38.74	0.08
Johnson	4811.571	100y6hSCS	5.9	311.01	312.35	311.59	312.36	0.000411	0.55	22.78	27.39	0.16
Johnson	4811.571	50y6hSCS	5.3	311.01	312.21	311.6	312.22	0.000561	0.6	18.86	26.33	0.18
Johnson	4811.571	25y6hSCS	4.7	311.01	312.06	311.57	312.07	0.000819	0.66	15.1	25.58	0.21
Johnson	4811.571	10y6hSCS	3.8	311.01	311.84	311.52	311.86	0.001686	0.79	9.65	23.08	0.29
Johnson	4811.571	5y6hSCS	3.1	311.01	311.66	311.47	311.7	0.004027	1.01	5.57	21.22	0.43
Johnson	4811.571	2y6hSCS	2.1	311.01	311.41	311.41	311.52	0.021082	1.54	1.91	10.94	0.9
Johnson	4811.571	100y4hChicago	5.1	311.01	312.16	311.59	312.17	0.000631	0.61	17.59	26.05	0.19
Johnson	4811.571	2yrFlow100yrLake	2.1	311.01	311.41	311.41	311.52	0.021082	1.54	1.91	10.94	0.9
Johnson	4742.112	Timmins	10.9	310.43	313.55		313.55	0.000016	0.2	133.11	59.53	0.04
Johnson	4742.112	100y6hSCS	5.9	310.43	312.35		312.35	0.000037	0.21	65.79	50.9	0.05
Johnson	4742.112	50y6hSCS	5.3	310.43	312.21		312.21	0.00004	0.21	58.67	48.26	0.05
Johnson	4742.112	25y6hSCS	4.7	310.43	312.06		312.06	0.000043	0.21	52.01	45.02	0.05
Johnson	4742.112	10y6hSCS	3.8	310.43	311.85		311.85	0.000052	0.2	42.44	43.19	0.06
Johnson	4742.112	5y6hSCS	3.1	310.43	311.67		311.67	0.000061	0.2	35.09	42	0.06
Johnson	4742.112	2y6hSCS	2.1	310.43	311.41	310.75	311.41	0.00008	0.19	24.6	39.09	0.07
Johnson	4742.112	100y4hChicago	5.1	310.43	312.16		312.16	0.000041	0.21	56.39	46.83	0.05

Creek	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson	4742.112	2yrFlow100yrLake	2.1	310.43	311.41	310.75	311.41	0.00008	0.19	24.6	39.09	0.07
Johnson	4738.226	Timmins	10.9	310.36	313.31	311.99	313.53	0.001847	2.1	5.18	58.93	0.4
Johnson	4738.226	100y6hSCS	5.9	310.36	312.15	311.46	312.33	0.003019	1.91	3.09	51.42	0.46
Johnson	4738.226	50y6hSCS	5.3	310.36	312.01	311.39	312.19	0.003195	1.86	2.85	48.52	0.47
Johnson	4738.226	25y6hSCS	4.7	310.36	311.88	311.31	312.05	0.003353	1.8	2.61	45.01	0.48
Johnson	4738.226	10y6hSCS	3.8	310.36	311.69	311.2	311.83	0.003526	1.68	2.27	40.52	0.48
Johnson	4738.226	5y6hSCS	3.1	310.36	311.54	311.1	311.66	0.003581	1.55	2	39.89	0.47
Johnson	4738.226	2y6hSCS	2.1	310.36	311.32	310.95	311.4	0.003471	1.32	1.6	37.93	0.45
Johnson	4738.226	100y4hChicago	5.1	310.36	311.97	311.36	312.14	0.003251	1.84	2.77	47.7	0.47
Johnson	4738.226	2yrFlow100yrLake	2.1	310.36	311.32	310.95	311.4	0.003471	1.32	1.6	37.93	0.45
Johnson	4707.051	Culvert										
Johnson	4684.051	Timmins	10.9	310.45	312.03	312.03	312.82	0.014681	3.92	2.78	41.67	1
Johnson	4684.051	100y6hSCS	5.9	310.45	311.52	311.52	312.03	0.016547	3.18	1.86	33.44	1
Johnson	4684.051	50y6hSCS	5.3	310.45	311.44	311.44	311.92	0.017052	3.07	1.73	32.11	1
Johnson	4684.051	25y6hSCS	4.7	310.45	311.37	311.37	311.81	0.017682	2.96	1.59	31.43	1
Johnson	4684.051	10y6hSCS	3.8	310.45	311.25	311.25	311.64	0.018374	2.75	1.38	30.1	1
Johnson	4684.051	5y6hSCS	3.1	310.45	311.15	311.15	311.49	0.019067	2.56	1.21	28.66	1
Johnson	4684.051	2y6hSCS	2.1	310.45	311	311	311.26	0.020935	2.26	0.93	27.11	1
Johnson	4684.051	100y4hChicago	5.1	310.45	311.42	311.42	311.89	0.017206	3.03	1.68	31.87	1
Johnson	4684.051	2yrFlow100yrLake	2.1	310.45	311	311	311.26	0.020935	2.26	0.93	27.11	1
Johnson	4676.353	Timmins	10.9	309.56	309.77	310.05	312.01	1.127255	6.64	1.64	12.47	5.84
Johnson	4676.353	100y6hSCS	5.9	309.56	309.72	309.92	311.3	1.327907	5.56	1.06	11.87	5.95
Johnson	4676.353	50y6hSCS	5.3	309.56	309.71	309.91	311.2	1.368946	5.4	0.98	11.78	5.97
Johnson	4676.353	25y6hSCS	4.7	309.56	309.71	309.88	311.09	1.412236	5.22	0.9	11.64	5.99
Johnson	4676.353	10y6hSCS	3.8	309.56	309.69	309.85	310.92	1.491684	4.91	0.77	11.39	6.02
Johnson	4676.353	5y6hSCS	3.1	309.56	309.68	309.82	310.79	1.491406	4.65	0.67	10.65	5.94
Johnson	4676.353	2y6hSCS	2.1	309.56	309.67	309.78	310.55	1.472983	4.17	0.5	9.39	5.75
Johnson	4676.353	100y4hChicago	5.1	309.56	309.71	309.9	311.16	1.386454	5.34	0.96	11.75	5.98
Johnson	4676.353	2yrFlow100yrLake	2.1	309.56	309.67	309.78	310.55	1.472983	4.17	0.5	9.39	5.75
Johnson	4669	Timmins	10.9	309.38	309.76	309.88	310.14	0.073836	2.76	3.95	14.38	1.68
Johnson	4669	100y6hSCS	5.9	309.38	309.83	309.73	309.9	0.011382	1.17	5.03	16.28	0.67
Johnson	4669	50y6hSCS	5.3	309.38	309.8	309.71	309.87	0.010699	1.15	4.62	14.76	0.65
Johnson	4669	25y6hSCS	4.7	309.38	309.78	309.7	309.84	0.010596	1.09	4.3	14.63	0.64
Johnson	4669	10y6hSCS	3.8	309.38	309.74	309.66	309.79	0.010253	1.02	3.74	13.9	0.63
Johnson	4669	5y6hSCS	3.1	309.38	309.71	309.63	309.75	0.010024	0.94	3.3	13.55	0.61
Johnson	4669	2y6hSCS	2.1	309.38	309.65	309.59	309.69	0.010625	0.83	2.52	13.02	0.6
Johnson	4669	100y4hChicago	5.1	309.38	309.8	309.71	309.86	0.010628	1.13	4.52	14.72	0.65
Johnson	4669	2yrFlow100yrLake	2.1	309.38	309.65	309.59	309.69	0.010625	0.83	2.52	13.02	0.6
Johnson	4662	Timmins	10.9	309.13	309.77	309.77	309.96	0.024223	1.92	5.72	16.3	1.01
Johnson	4662	100y6hSCS	5.9	309.13	309.63	309.63	309.77	0.027858	1.61	3.67	14.49	1.02
Johnson	4662	50y6hSCS	5.3	309.13	309.62	309.62	309.74	0.028682	1.56	3.4	14.38	1.02
Johnson	4662	25y6hSCS	4.7	309.13	309.6	309.6	309.71	0.028929	1.5	3.13	14.11	1.02
Johnson	4662	10y6hSCS	3.8	309.13	309.56	309.56	309.67	0.03029	1.42	2.67	13.47	1.02
Johnson	4662	5y6hSCS	3.1	309.13	309.53	309.53	309.63	0.030794	1.36	2.29	12.55	1.02
Johnson	4662	2y6hSCS	2.1	309.13	309.46	309.46	309.55	0.030313	1.36	1.55	8.38	1.01
Johnson	4662	100y4hChicago	5.1	309.13	309.61	309.61	309.73	0.028918	1.54	3.31	14.34	1.02
Johnson	4662	2yrFlow100yrLake	2.1	309.13	309.46	309.46	309.55	0.030313	1.36	1.55	8.38	1.01
Johnson	4653	Timmins	10.9	308.46	309.07	309.23	309.59	0.060262	3.17	3.44	8.53	1.6
Johnson	4653	100y6hSCS	5.9	308.46	308.9	309.03	309.32	0.082248	2.88	2.05	7.47	1.75
Johnson	4653	50y6hSCS	5.3	308.46	308.88	309	309.29	0.088223	2.84	1.87	7.31	1.79
Johnson	4653	25y6hSCS	4.7	308.46	308.85	308.97	309.24	0.0916	2.76	1.7	7.16	1.81
Johnson	4653	10y6hSCS	3.8	308.46	308.82	308.92	309.17	0.100243	2.64	1.44	6.91	1.85
Johnson	4653	5y6hSCS	3.1	308.46	308.78	308.88	309.11	0.110534	2.54	1.22	6.69	1.9
Johnson	4653	2y6hSCS	2.1	308.46	308.73	308.82	309.02	0.130108	2.37	0.88	6.07	1.99
Johnson	4653	100y4hChicago	5.1	308.46	308.87	308.99	309.27	0.087503	2.8	1.82	7.27	1.78
Johnson	4653	2yrFlow100yrLake	2.1	308.46	308.73	308.82	309.02	0.130108	2.37	0.88	6.07	1.99
Johnson	4645	Timmins	10.9	308.16	308.98	309	309.26	0.026197	2.33	4.68	9.8	1.08
Johnson	4645	100y6hSCS	5.9	308.16	308.8	308.8	308.99	0.024491	1.93	3.05	8	1
Johnson	4645	50y6hSCS	5.3	308.16	308.77	308.77	308.95	0.025793	1.92	2.77	7.64	1.02

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4645	25y6hSCS	4.7	308.16	308.73	308.73	308.91	0.024812	1.9	2.48	6.74	1
Johnson	4645	10y6hSCS	3.8	308.16	308.66	308.66	308.83	0.026358	1.85	2.06	6.08	1.01
Johnson	4645	5y6hSCS	3.1	308.16	308.61	308.61	308.77	0.026812	1.75	1.77	5.78	1.01
Johnson	4645	2y6hSCS	2.1	308.16	308.53	308.53	308.66	0.028713	1.6	1.31	5.17	1.01
Johnson	4645	100y4hChicago	5.1	308.16	308.76	308.76	308.94	0.025154	1.88	2.71	7.52	1
Johnson	4645	2yrFlow100yrLake	2.1	308.16	308.53	308.53	308.66	0.028713	1.6	1.31	5.17	1.01
Johnson	4633	Timmins	10.9	307.58	308.24	308.42	308.81	0.045816	3.34	3.34	6.67	1.46
Johnson	4633	100y6hSCS	5.9	307.58	308.02	308.16	308.49	0.067112	3.06	1.94	5.69	1.65
Johnson	4633	50y6hSCS	5.3	307.58	307.99	308.13	308.44	0.068121	2.96	1.8	5.59	1.65
Johnson	4633	25y6hSCS	4.7	307.58	307.96	308.09	308.39	0.073538	2.91	1.62	5.46	1.69
Johnson	4633	10y6hSCS	3.8	307.58	307.92	308.03	308.3	0.075641	2.73	1.4	5.29	1.68
Johnson	4633	5y6hSCS	3.1	307.58	307.88	307.98	308.22	0.079778	2.57	1.21	5.19	1.69
Johnson	4633	2y6hSCS	2.1	307.58	307.83	307.9	308.09	0.082924	2.24	0.94	5.04	1.66
Johnson	4633	100y4hChicago	5.1	307.58	307.98	308.12	308.43	0.070589	2.96	1.73	5.54	1.67
Johnson	4633	2yrFlow100yrLake	2.1	307.58	307.83	307.9	308.09	0.082924	2.24	0.94	5.04	1.66
Johnson	4623	Timmins	10.9	307.06	307.72	307.9	308.29	0.062089	3.33	3.27	7.78	1.63
Johnson	4623	100y6hSCS	5.9	307.06	307.6	307.68	307.92	0.044406	2.49	2.37	6.73	1.34
Johnson	4623	50y6hSCS	5.3	307.06	307.58	307.65	307.87	0.04316	2.38	2.22	6.6	1.31
Johnson	4623	25y6hSCS	4.7	307.06	307.56	307.62	307.81	0.040523	2.24	2.1	6.5	1.26
Johnson	4623	10y6hSCS	3.8	307.06	307.52	307.56	307.73	0.038499	2.05	1.85	6.34	1.21
Johnson	4623	5y6hSCS	3.1	307.06	307.49	307.52	307.67	0.035903	1.87	1.66	6.2	1.15
Johnson	4623	2y6hSCS	2.1	307.06	307.43	307.44	307.56	0.032841	1.58	1.33	5.96	1.07
Johnson	4623	100y4hChicago	5.1	307.06	307.57	307.64	307.85	0.042173	2.34	2.18	6.57	1.29
Johnson	4623	2yrFlow100yrLake	2.1	307.06	307.43	307.44	307.56	0.032841	1.58	1.33	5.96	1.07
Johnson	4614	Timmins	10.9	306.55	307.33	307.49	307.83	0.042777	3.19	3.82	10.45	1.4
Johnson	4614	100y6hSCS	5.9	306.55	307.13	307.24	307.5	0.049507	2.72	2.31	6.8	1.42
Johnson	4614	50y6hSCS	5.3	306.55	307.11	307.21	307.46	0.049885	2.65	2.12	6.55	1.42
Johnson	4614	25y6hSCS	4.7	306.55	307.07	307.17	307.41	0.051173	2.6	1.9	6.2	1.42
Johnson	4614	10y6hSCS	3.8	306.55	307	307.11	307.35	0.048666	2.62	1.51	4.81	1.4
Johnson	4614	5y6hSCS	3.1	306.55	306.94	307.06	307.27	0.054926	2.53	1.25	4.59	1.45
Johnson	4614	2y6hSCS	2.1	306.55	306.86	306.94	307.15	0.069733	2.38	0.88	3.77	1.57
Johnson	4614	100y4hChicago	5.1	306.55	307.09	307.19	307.44	0.050431	2.65	2.04	6.35	1.42
Johnson	4614	2yrFlow100yrLake	2.1	306.55	306.86	306.94	307.15	0.069733	2.38	0.88	3.77	1.57
Johnson	4606.412	Timmins	10.9	306.13	306.79	307.03	307.45	0.053859	3.62	3.15	7.02	1.59
Johnson	4606.412	100y6hSCS	5.9	306.13	306.61	306.74	307.07	0.065344	3.01	1.97	5.91	1.63
Johnson	4606.412	50y6hSCS	5.3	306.13	306.58	306.71	307.01	0.067497	2.92	1.82	5.76	1.64
Johnson	4606.412	25y6hSCS	4.7	306.13	306.55	306.67	306.96	0.069631	2.82	1.67	5.6	1.64
Johnson	4606.412	10y6hSCS	3.8	306.13	306.5	306.62	306.88	0.078446	2.73	1.39	5.3	1.71
Johnson	4606.412	5y6hSCS	3.1	306.13	306.47	306.57	306.79	0.073396	2.5	1.24	5.15	1.63
Johnson	4606.412	2y6hSCS	2.1	306.13	306.43	306.49	306.64	0.058178	2.03	1.03	4.94	1.42
Johnson	4606.412	100y4hChicago	5.1	306.13	306.57	306.7	307	0.068453	2.89	1.77	5.7	1.64
Johnson	4606.412	2yrFlow100yrLake	2.1	306.13	306.43	306.49	306.64	0.058178	2.03	1.03	4.94	1.42
Johnson	4598	Timmins	10.9	305.53	306.2	306.42	306.93	0.067685	3.88	3.49	12.34	1.76
Johnson	4598	100y6hSCS	5.9	305.53	306.06	306.22	306.53	0.059987	3.06	2.03	6.67	1.59
Johnson	4598	50y6hSCS	5.3	305.53	306.03	306.19	306.47	0.059521	2.95	1.88	5.87	1.57
Johnson	4598	25y6hSCS	4.7	305.53	306.01	306.14	306.41	0.05924	2.82	1.73	5.65	1.55
Johnson	4598	10y6hSCS	3.8	305.53	305.97	306.07	306.3	0.055992	2.57	1.52	5.41	1.48
Johnson	4598	5y6hSCS	3.1	305.53	305.93	306.01	306.23	0.058632	2.43	1.3	5.12	1.49
Johnson	4598	2y6hSCS	2.1	305.53	305.85	305.93	306.11	0.065909	2.25	0.94	4.4	1.53
Johnson	4598	100y4hChicago	5.1	305.53	306.02	306.17	306.45	0.059692	2.91	1.83	5.76	1.57
Johnson	4598	2yrFlow100yrLake	2.1	305.53	305.85	305.93	306.11	0.065909	2.25	0.94	4.4	1.53
Johnson	4590	Timmins	10.9	305.28	305.84	305.98	306.33	0.077924	3.57	4.83	17.34	1.82
Johnson	4590	100y6hSCS	5.9	305.28	305.74	305.84	306.03	0.061861	2.65	3.3	14.61	1.55
Johnson	4590	50y6hSCS	5.3	305.28	305.73	305.81	305.98	0.058275	2.5	3.12	14.23	1.49
Johnson	4590	25y6hSCS	4.7	305.28	305.72	305.78	305.94	0.053915	2.34	2.94	14.03	1.42
Johnson	4590	10y6hSCS	3.8	305.28	305.69	305.73	305.87	0.049065	2.09	2.61	13.42	1.34
Johnson	4590	5y6hSCS	3.1	305.28	305.68	305.7	305.82	0.041918	1.84	2.38	12.91	1.22
Johnson	4590	2y6hSCS	2.1	305.28	305.64	305.64	305.73	0.03424	1.5	1.93	12.14	1.07
Johnson	4590	100y4hChicago	5.1	305.28	305.73	305.81	305.97	0.056792	2.45	3.06	14.16	1.47
Johnson	4590	2yrFlow100yrLake	2.1	305.28	305.64	305.64	305.73	0.03424	1.5	1.93	12.14	1.07

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4583	Timmins	10.9	304.89	305.61	305.7	305.98	0.029886	2.86	5.19	13.2	1.21
Johnson	4583	100y6hSCS	5.9	304.89	305.44	305.5	305.72	0.035154	2.42	2.98	11.01	1.23
Johnson	4583	50y6hSCS	5.3	304.89	305.41	305.47	305.67	0.036959	2.36	2.68	9.83	1.24
Johnson	4583	25y6hSCS	4.7	304.89	305.38	305.45	305.63	0.038201	2.28	2.41	9.48	1.25
Johnson	4583	10y6hSCS	3.8	304.89	305.32	305.39	305.57	0.038155	2.26	1.89	8.01	1.25
Johnson	4583	5y6hSCS	3.1	304.89	305.26	305.35	305.51	0.044223	2.22	1.49	6	1.31
Johnson	4583	2y6hSCS	2.1	304.89	305.17	305.24	305.41	0.06224	2.18	0.99	4.89	1.49
Johnson	4583	100y4hChicago	5.1	304.89	305.4	305.47	305.66	0.037316	2.33	2.59	9.72	1.25
Johnson	4583	2yrFlow100yrLake	2.1	304.89	305.17	305.24	305.41	0.06224	2.18	0.99	4.89	1.49
Johnson	4575	Timmins	10.9	304.77	305.43	305.47	305.74	0.024495	2.61	5.29	11.39	1.09
Johnson	4575	100y6hSCS	5.9	304.77	305.25	305.26	305.45	0.02622	2.1	3.37	9.44	1.06
Johnson	4575	50y6hSCS	5.3	304.77	305.21	305.23	305.41	0.030826	2.11	2.98	9	1.13
Johnson	4575	25y6hSCS	4.7	304.77	305.17	305.19	305.38	0.035518	2.11	2.62	8.67	1.19
Johnson	4575	10y6hSCS	3.8	304.77	305.14	305.16	305.3	0.031663	1.9	2.36	8.48	1.11
Johnson	4575	5y6hSCS	3.1	304.77	305.11	305.11	305.25	0.027257	1.68	2.16	8.35	1.02
Johnson	4575	2y6hSCS	2.1	304.77	305.05	305.05	305.16	0.028417	1.49	1.64	8.02	1.01
Johnson	4575	100y4hChicago	5.1	304.77	305.19	305.22	305.4	0.032515	2.11	2.86	8.86	1.15
Johnson	4575	2yrFlow100yrLake	2.1	304.77	305.05	305.05	305.16	0.028417	1.49	1.64	8.02	1.01
Johnson	4568	Timmins	10.9	304.26	304.86	305.05	305.46	0.0561	3.47	3.38	7.55	1.59
Johnson	4568	100y6hSCS	5.9	304.26	304.67	304.81	305.13	0.075041	3.02	2.06	6.7	1.72
Johnson	4568	50y6hSCS	5.3	304.26	304.65	304.77	305.06	0.072139	2.86	1.95	6.66	1.67
Johnson	4568	25y6hSCS	4.7	304.26	304.64	304.74	305	0.070579	2.72	1.82	6.61	1.64
Johnson	4568	10y6hSCS	3.8	304.26	304.59	304.69	304.93	0.082522	2.63	1.51	6.51	1.72
Johnson	4568	5y6hSCS	3.1	304.26	304.55	304.65	304.88	0.100397	2.58	1.25	6.41	1.85
Johnson	4568	2y6hSCS	2.1	304.26	304.5	304.58	304.77	0.115098	2.32	0.94	6.29	1.9
Johnson	4568	100y4hChicago	5.1	304.26	304.65	304.76	305.04	0.071245	2.81	1.91	6.65	1.66
Johnson	4568	2yrFlow100yrLake	2.1	304.26	304.5	304.58	304.77	0.115098	2.32	0.94	6.29	1.9
Johnson	4560	Timmins	10.9	303.98	304.7	304.78	305.09	0.029786	2.78	4.23	9.08	1.18
Johnson	4560	100y6hSCS	5.9	303.98	304.55	304.55	304.77	0.024565	2.08	2.93	7.67	1.02
Johnson	4560	50y6hSCS	5.3	303.98	304.51	304.52	304.72	0.027331	2.07	2.63	7.33	1.06
Johnson	4560	25y6hSCS	4.7	303.98	304.46	304.49	304.68	0.03172	2.07	2.32	7.02	1.13
Johnson	4560	10y6hSCS	3.8	303.98	304.44	304.44	304.6	0.025493	1.78	2.17	6.95	1
Johnson	4560	5y6hSCS	3.1	303.98	304.4	304.4	304.54	0.026918	1.68	1.87	6.84	1.01
Johnson	4560	2y6hSCS	2.1	303.98	304.33	304.33	304.45	0.029217	1.48	1.43	6.67	1.01
Johnson	4560	100y4hChicago	5.1	303.98	304.49	304.51	304.71	0.028564	2.07	2.53	7.22	1.08
Johnson	4560	2yrFlow100yrLake	2.1	303.98	304.33	304.33	304.45	0.029217	1.48	1.43	6.67	1.01
Johnson	4553	Timmins	10.9	303.67	304.43	304.53	304.86	0.035491	2.96	4.06	8.26	1.29
Johnson	4553	100y6hSCS	5.9	303.67	304.23	304.31	304.54	0.038612	2.51	2.52	7.3	1.28
Johnson	4553	50y6hSCS	5.3	303.67	304.21	304.27	304.49	0.037159	2.39	2.37	7.13	1.24
Johnson	4553	25y6hSCS	4.7	303.67	304.18	304.24	304.44	0.035651	2.26	2.2	6.95	1.21
Johnson	4553	10y6hSCS	3.8	303.67	304.13	304.18	304.37	0.041373	2.21	1.8	6.63	1.27
Johnson	4553	5y6hSCS	3.1	303.67	304.09	304.14	304.3	0.041878	2.06	1.55	6.39	1.25
Johnson	4553	2y6hSCS	2.1	303.67	304.01	304.05	304.19	0.04292	1.87	1.13	5.08	1.24
Johnson	4553	100y4hChicago	5.1	303.67	304.2	304.26	304.48	0.036752	2.35	2.31	7.07	1.23
Johnson	4553	2yrFlow100yrLake	2.1	303.67	304.01	304.05	304.19	0.04292	1.87	1.13	5.08	1.24
Johnson	4546	Timmins	10.9	303.42	304.35	304.35	304.65	0.021207	2.47	4.78	8.48	1.01
Johnson	4546	100y6hSCS	5.9	303.42	304.11	304.13	304.34	0.026095	2.16	2.89	7.33	1.06
Johnson	4546	50y6hSCS	5.3	303.42	304.08	304.1	304.3	0.026357	2.09	2.68	7.22	1.05
Johnson	4546	25y6hSCS	4.7	303.42	304.04	304.06	304.25	0.027521	2.04	2.43	7.09	1.06
Johnson	4546	10y6hSCS	3.8	303.42	304.01	304.01	304.18	0.02497	1.83	2.17	6.89	1
Johnson	4546	5y6hSCS	3.1	303.42	303.96	303.96	304.11	0.026122	1.73	1.86	6.6	1
Johnson	4546	2y6hSCS	2.1	303.42	303.88	303.88	304.01	0.027913	1.59	1.35	5.66	1.01
Johnson	4546	100y4hChicago	5.1	303.42	304.07	304.08	304.28	0.026801	2.08	2.59	7.18	1.06
Johnson	4546	2yrFlow100yrLake	2.1	303.42	303.88	303.88	304.01	0.027913	1.59	1.35	5.66	1.01
Johnson	4540	Timmins	10.9	302.96	303.72	303.92	304.38	0.069542	3.61	3.05	7.08	1.73
Johnson	4540	100y6hSCS	5.9	302.96	303.54	303.69	304.03	0.083492	3.1	1.9	6.2	1.78
Johnson	4540	50y6hSCS	5.3	302.96	303.52	303.66	303.99	0.086001	3.03	1.75	5.98	1.79
Johnson	4540	25y6hSCS	4.7	302.96	303.49	303.63	303.93	0.086912	2.94	1.6	5.76	1.78
Johnson	4540	10y6hSCS	3.8	302.96	303.44	303.57	303.86	0.097669	2.86	1.33	5.42	1.85
Johnson	4540	5y6hSCS	3.1	302.96	303.41	303.52	303.78	0.103086	2.72	1.14	5.25	1.86
Johnson	4540	2y6hSCS	2.1	302.96	303.35	303.44	303.66	0.114252	2.44	0.86	5.02	1.89

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4540	100y4hChicago	5.1	302.96	303.51	303.65	303.97	0.08595	3	1.7	5.88	1.78
Johnson	4540	2yrFlow100yrLake	2.1	302.96	303.35	303.44	303.66	0.114252	2.44	0.86	5.02	1.89
Johnson	4533	Timmins	10.9	302.71	303.52	303.63	303.97	0.038452	2.97	3.79	7.98	1.32
Johnson	4533	100y6hSCS	5.9	302.71	303.46	303.41	303.63	0.016338	1.82	3.34	7.74	0.85
Johnson	4533	50y6hSCS	5.3	302.71	303.43	303.38	303.59	0.016477	1.75	3.09	7.62	0.84
Johnson	4533	25y6hSCS	4.7	302.71	303.39	303.35	303.54	0.017352	1.71	2.8	7.46	0.86
Johnson	4533	10y6hSCS	3.8	302.71	303.33	303.29	303.46	0.01891	1.62	2.36	7.07	0.87
Johnson	4533	5y6hSCS	3.1	302.71	303.28	303.25	303.4	0.020286	1.54	2.01	6.67	0.89
Johnson	4533	2y6hSCS	2.1	302.71	303.17	303.15	303.29	0.021867	1.51	1.39	4.89	0.9
Johnson	4533	100y4hChicago	5.1	302.71	303.42	303.37	303.57	0.016516	1.73	3.01	7.57	0.84
Johnson	4533	2yrFlow100yrLake	2.1	302.71	303.17	303.15	303.29	0.021867	1.51	1.39	4.89	0.9
Johnson	4525	Timmins	10.9	302.54	303.61	303.46	303.77	0.008513	1.76	7.18	15.9	0.66
Johnson	4525	100y6hSCS	5.9	302.54	303.43		303.52	0.006907	1.31	4.71	12.15	0.57
Johnson	4525	50y6hSCS	5.3	302.54	303.39		303.48	0.007151	1.26	4.28	10.47	0.57
Johnson	4525	25y6hSCS	4.7	302.54	303.35		303.43	0.007206	1.23	3.87	8.62	0.57
Johnson	4525	10y6hSCS	3.8	302.54	303.28		303.35	0.007363	1.16	3.3	8.02	0.56
Johnson	4525	5y6hSCS	3.1	302.54	303.22		303.28	0.007678	1.09	2.84	7.45	0.56
Johnson	4525	2y6hSCS	2.1	302.54	303.12		303.17	0.007519	0.98	2.14	6.44	0.54
Johnson	4525	100y4hChicago	5.1	302.54	303.38		303.46	0.007233	1.25	4.15	9.68	0.57
Johnson	4525	2yrFlow100yrLake	2.1	302.54	303.12		303.17	0.007519	0.98	2.14	6.44	0.54
Johnson	4513	Timmins	10.9	302.28	303.43	303.43	303.63	0.015967	2.04	6.58	24.32	0.86
Johnson	4513	100y6hSCS	5.9	302.28	303.15	303.15	303.37	0.02423	2.08	2.83	6.49	1.01
Johnson	4513	50y6hSCS	5.3	302.28	303.11	303.11	303.32	0.024307	2.04	2.6	6.21	1
Johnson	4513	25y6hSCS	4.7	302.28	303.07	303.07	303.27	0.02503	2	2.35	5.86	1.01
Johnson	4513	10y6hSCS	3.8	302.28	303.01	303.01	303.19	0.02625	1.9	2	5.64	1.02
Johnson	4513	5y6hSCS	3.1	302.28	302.96	302.96	303.12	0.02667	1.79	1.73	5.41	1.01
Johnson	4513	2y6hSCS	2.1	302.28	302.87	302.87	303.01	0.028576	1.66	1.27	4.65	1.01
Johnson	4513	100y4hChicago	5.1	302.28	303.1	303.1	303.31	0.024353	2.02	2.52	6.08	1
Johnson	4513	2yrFlow100yrLake	2.1	302.28	302.87	302.87	303.01	0.028576	1.66	1.27	4.65	1.01
Johnson	4503.086	Timmins	10.9	302.06	302.64	302.83	303.28	0.070494	3.55	3.07	7.54	1.75
Johnson	4503.086	100y6hSCS	5.9	302.06	302.49	302.62	302.93	0.078186	2.96	1.99	6.75	1.74
Johnson	4503.086	50y6hSCS	5.3	302.06	302.46	302.59	302.88	0.078897	2.86	1.85	6.67	1.73
Johnson	4503.086	25y6hSCS	4.7	302.06	302.44	302.56	302.83	0.080217	2.76	1.7	6.57	1.73
Johnson	4503.086	10y6hSCS	3.8	302.06	302.41	302.51	302.74	0.080396	2.57	1.48	6.32	1.7
Johnson	4503.086	5y6hSCS	3.1	302.06	302.38	302.47	302.67	0.07764	2.38	1.3	6.13	1.65
Johnson	4503.086	2y6hSCS	2.1	302.06	302.33	302.39	302.55	0.075211	2.06	1.02	5.79	1.57
Johnson	4503.086	100y4hChicago	5.1	302.06	302.46	302.58	302.87	0.079886	2.83	1.8	6.65	1.74
Johnson	4503.086	2yrFlow100yrLake	2.1	302.06	302.33	302.39	302.55	0.075211	2.06	1.02	5.79	1.57
Johnson	4498	Timmins	10.9	301.66	302.61	302.72	302.99	0.029172	2.78	4.86	20.25	1.16
Johnson	4498	100y6hSCS	5.9	301.66	302.43	302.43	302.68	0.024431	2.19	2.69	5.72	1.02
Johnson	4498	50y6hSCS	5.3	301.66	302.39	302.4	302.63	0.025038	2.14	2.47	5.58	1.03
Johnson	4498	25y6hSCS	4.7	301.66	302.35	302.36	302.57	0.026591	2.11	2.22	5.36	1.05
Johnson	4498	10y6hSCS	3.8	301.66	302.28	302.3	302.49	0.027856	2	1.9	5.16	1.05
Johnson	4498	5y6hSCS	3.1	301.66	302.23	302.24	302.42	0.029656	1.93	1.6	4.83	1.07
Johnson	4498	2y6hSCS	2.1	301.66	302.13	302.15	302.3	0.034546	1.82	1.16	4.3	1.12
Johnson	4498	100y4hChicago	5.1	301.66	302.38	302.39	302.61	0.02527	2.12	2.4	5.53	1.03
Johnson	4498	2yrFlow100yrLake	2.1	301.66	302.13	302.15	302.3	0.034546	1.82	1.16	4.3	1.12
Johnson	4492	Timmins	10.9	301.36	302.32	302.46	302.79	0.038301	3.16	4.97	22.64	1.31
Johnson	4492	100y6hSCS	5.9	301.36	302.11	302.26	302.49	0.035855	2.73	2.18	5.9	1.24
Johnson	4492	50y6hSCS	5.3	301.36	302.06	302.2	302.43	0.03767	2.69	1.97	4.23	1.26
Johnson	4492	25y6hSCS	4.7	301.36	302.02	302.1	302.37	0.039382	2.64	1.78	4.09	1.28
Johnson	4492	10y6hSCS	3.8	301.36	301.95	302.03	302.28	0.042154	2.54	1.5	3.85	1.3
Johnson	4492	5y6hSCS	3.1	301.36	301.88	301.96	302.19	0.044913	2.45	1.27	3.64	1.32
Johnson	4492	2y6hSCS	2.1	301.36	301.79	301.86	302.05	0.048559	2.26	0.93	3.21	1.34
Johnson	4492	100y4hChicago	5.1	301.36	302.05	302.16	302.41	0.038199	2.68	1.91	4.19	1.27
Johnson	4492	2yrFlow100yrLake	2.1	301.36	301.79	301.86	302.05	0.048559	2.26	0.93	3.21	1.34
Johnson	4487	Timmins	10.9	300.81	301.85	302.19	302.54	0.046619	3.69	2.99	4.83	1.42
Johnson	4487	100y6hSCS	5.9	300.81	301.5	301.72	302.19	0.074256	3.68	1.6	3.34	1.69
Johnson	4487	50y6hSCS	5.3	300.81	301.46	301.68	302.13	0.077209	3.61	1.47	3.25	1.72
Johnson	4487	25y6hSCS	4.7	300.81	301.42	301.63	302.06	0.080656	3.54	1.33	3.16	1.74

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4487	10y6hSCS	3.8	300.81	301.35	301.53	301.94	0.087135	3.4	1.12	3.02	1.78
Johnson	4487	5y6hSCS	3.1	300.81	301.29	301.46	301.84	0.09359	3.26	0.95	2.93	1.82
Johnson	4487	2y6hSCS	2.1	300.81	301.21	301.34	301.66	0.105415	2.99	0.7	2.72	1.88
Johnson	4487	100y4hChicago	5.1	300.81	301.45	301.67	302.1	0.078297	3.59	1.42	3.22	1.72
Johnson	4487	2yrFlow100yrLake	2.1	300.81	301.21	301.34	301.66	0.105415	2.99	0.7	2.72	1.88
Johnson	4482	Timmins	10.9	300.62	301.45	301.9	302.27	0.058205	4.03	2.86	5.39	1.65
Johnson	4482	100y6hSCS	5.9	300.62	301.24	301.41	301.81	0.064756	3.35	1.8	4.68	1.65
Johnson	4482	50y6hSCS	5.3	300.62	301.22	301.37	301.74	0.063453	3.2	1.69	4.6	1.62
Johnson	4482	25y6hSCS	4.7	300.62	301.19	301.33	301.65	0.060282	3.01	1.58	4.52	1.57
Johnson	4482	10y6hSCS	3.8	300.62	301.15	301.26	301.53	0.056146	2.73	1.41	4.39	1.49
Johnson	4482	5y6hSCS	3.1	300.62	301.12	301.2	301.43	0.051166	2.46	1.27	4.24	1.41
Johnson	4482	2y6hSCS	2.1	300.62	301.07	301.11	301.27	0.041759	2	1.05	4	1.24
Johnson	4482	100y4hChicago	5.1	300.62	301.21	301.36	301.71	0.062453	3.14	1.65	4.57	1.61
Johnson	4482	2yrFlow100yrLake	2.1	300.62	301.07	301.11	301.27	0.041759	2	1.05	4	1.24
Johnson	4477	Timmins	10.9	300.28	301.24	301.53	301.95	0.052343	4.01	3.48	7.71	1.58
Johnson	4477	100y6hSCS	5.9	300.28	301	301.14	301.49	0.048991	3.31	2.23	4.72	1.48
Johnson	4477	50y6hSCS	5.3	300.28	300.97	301.1	301.43	0.048668	3.21	2.06	4.59	1.46
Johnson	4477	25y6hSCS	4.7	300.28	300.93	301.05	301.36	0.049045	3.12	1.88	4.43	1.46
Johnson	4477	10y6hSCS	3.8	300.28	300.86	300.97	301.25	0.049096	2.95	1.6	4.17	1.44
Johnson	4477	5y6hSCS	3.1	300.28	300.8	300.9	301.16	0.048939	2.79	1.37	3.96	1.42
Johnson	4477	2y6hSCS	2.1	300.28	300.7	300.79	301.01	0.05475	2.57	0.99	3.57	1.45
Johnson	4477	100y4hChicago	5.1	300.28	300.95	301.08	301.4	0.048621	3.17	2.01	4.54	1.46
Johnson	4477	2yrFlow100yrLake	2.1	300.28	300.7	300.79	301.01	0.05475	2.57	0.99	3.57	1.45
Johnson	4473	Timmins	10.9	299.85	300.49	300.75	301.52	0.291958	5.8	2.57	5.11	3.22
Johnson	4473	100y6hSCS	5.9	299.85	300.29	300.51	301.07	0.329088	5.4	1.62	4.17	3.23
Johnson	4473	50y6hSCS	5.3	299.85	300.27	300.47	301.02	0.31624	5.42	1.52	4.02	3.16
Johnson	4473	25y6hSCS	4.7	299.85	300.23	300.43	300.95	0.328449	5.33	1.39	3.95	3.22
Johnson	4473	10y6hSCS	3.8	299.85	300.18	300.36	300.83	0.363844	5.13	1.17	3.86	3.37
Johnson	4473	5y6hSCS	3.1	299.85	300.13	300.33	300.73	0.396911	4.94	1	3.76	3.47
Johnson	4473	2y6hSCS	2.1	299.85	300.07	300.21	300.54	0.435253	4.46	0.76	3.6	3.54
Johnson	4473	100y4hChicago	5.1	299.85	300.26	300.46	301	0.313503	5.41	1.48	3.98	3.14
Johnson	4473	2yrFlow100yrLake	2.1	299.85	300.07	300.21	300.54	0.435253	4.46	0.76	3.6	3.54
Johnson	4469	Timmins	10.9	299.62	300.27	300.37	300.69	0.08898	3.63	4.38	9.91	1.92
Johnson	4469	100y6hSCS	5.9	299.62	300.15	300.16	300.36	0.063646	2.61	3.25	8.94	1.56
Johnson	4469	50y6hSCS	5.3	299.62	300.13	300.13	300.32	0.062685	2.51	3.04	8.7	1.53
Johnson	4469	25y6hSCS	4.7	299.62	300.07	300.1	300.28	0.079373	2.63	2.57	7.99	1.69
Johnson	4469	10y6hSCS	3.8	299.62	300.05	300.05	300.21	0.062059	2.26	2.42	7.8	1.49
Johnson	4469	5y6hSCS	3.1	299.62	300.01	300.01	300.15	0.06091	2.12	2.12	7.41	1.45
Johnson	4469	2y6hSCS	2.1	299.62	299.95	299.95	300.06	0.04475	1.98	1.73	6.35	1.26
Johnson	4469	100y4hChicago	5.1	299.62	300.12	300.12	300.31	0.061942	2.47	2.97	8.61	1.52
Johnson	4469	2yrFlow100yrLake	2.1	299.62	299.95	299.95	300.06	0.04475	1.98	1.73	6.35	1.26
Johnson	4464	Timmins	10.9	298.99	299.69	299.9	300.34	0.054181	4.04	4.16	9.08	1.64
Johnson	4464	100y6hSCS	5.9	298.99	299.46	299.62	300	0.079454	3.59	2.31	7.02	1.84
Johnson	4464	50y6hSCS	5.3	298.99	299.43	299.6	299.95	0.085408	3.52	2.09	6.79	1.88
Johnson	4464	25y6hSCS	4.7	298.99	299.41	299.56	299.87	0.083775	3.34	1.94	6.61	1.84
Johnson	4464	10y6hSCS	3.8	298.99	299.35	299.49	299.8	0.105685	3.29	1.56	6.24	2
Johnson	4464	5y6hSCS	3.1	298.99	299.31	299.43	299.73	0.120131	3.15	1.31	6.02	2.08
Johnson	4464	2y6hSCS	2.1	298.99	299.23	299.35	299.65	0.200634	3.13	0.86	5.52	2.51
Johnson	4464	100y4hChicago	5.1	298.99	299.42	299.59	299.93	0.08826	3.5	2.01	6.7	1.9
Johnson	4464	2yrFlow100yrLake	2.1	298.99	299.23	299.35	299.65	0.200634	3.13	0.86	5.52	2.51
Johnson	4459	Timmins	10.9	298.24	298.82	299.11	299.86	0.230582	5.82	3.29	11.82	3.1
Johnson	4459	100y6hSCS	5.9	298.24	298.71	298.9	299.41	0.240173	4.64	2.06	10.2	2.97
Johnson	4459	50y6hSCS	5.3	298.24	298.69	298.88	299.33	0.23771	4.43	1.91	9.95	2.93
Johnson	4459	25y6hSCS	4.7	298.24	298.68	298.84	299.27	0.239537	4.23	1.75	9.63	2.9
Johnson	4459	10y6hSCS	3.8	298.24	298.65	298.79	299.13	0.223569	3.79	1.53	9.03	2.75
Johnson	4459	5y6hSCS	3.1	298.24	298.63	298.75	299.02	0.207671	3.39	1.35	8.53	2.6
Johnson	4459	2y6hSCS	2.1	298.24	298.61	298.68	298.83	0.142588	2.55	1.16	7.91	2.11
Johnson	4459	100y4hChicago	5.1	298.24	298.69	298.87	299.31	0.236521	4.36	1.86	9.85	2.91
Johnson	4459	2yrFlow100yrLake	2.1	298.24	298.61	298.68	298.83	0.142588	2.55	1.16	7.91	2.11
Johnson	4454	Timmins	10.9	297.8	298.05	298.14	298.41	0.222309	3.57	4.21	12.89	2.7

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4454	100y6hSCS	5.9	297.8	297.96	297.99	298.15	0.169641	2.01	3.09	12.05	2.11
Johnson	4454	50y6hSCS	5.3	297.8	297.95	297.98	298.12	0.163265	1.88	2.92	11.74	2.05
Johnson	4454	25y6hSCS	4.7	297.8	297.93	297.95	298.08	0.155356	1.72	2.73	11.43	1.97
Johnson	4454	10y6hSCS	3.8	297.8	297.9	297.91	298.03	0.149563	1.52	2.4	10.81	1.88
Johnson	4454	5y6hSCS	3.1	297.8	297.87	297.88	297.99	0.146458	1.24	2.1	10.3	1.77
Johnson	4454	2y6hSCS	2.1	297.8	297.8	297.82	297.92	0.182306	0.1	1.42	7.79	1.04
Johnson	4454	100y4hChicago	5.1	297.8	297.94	297.96	298.11	0.161496	1.84	2.85	11.62	2.03
Johnson	4454	2yrFlow100yrLake	2.1	297.8	297.8	297.82	297.92	0.182306	0.1	1.42	7.79	1.04
Johnson	4448.117	Timmins	10.9	296.63	297.43	297.54	297.82	0.060704	3.89	6.09	17.06	1.63
Johnson	4448.117	100y6hSCS	5.9	296.63	297.29	297.39	297.61	0.060281	3.26	3.81	16.23	1.55
Johnson	4448.117	50y6hSCS	5.3	296.63	297.27	297.37	297.57	0.061638	3.17	3.43	14.99	1.55
Johnson	4448.117	25y6hSCS	4.7	296.63	297.24	297.34	297.54	0.063323	3.09	3.07	14.07	1.56
Johnson	4448.117	10y6hSCS	3.8	296.63	297.2	297.29	297.49	0.063492	2.98	2.51	12.57	1.54
Johnson	4448.117	5y6hSCS	3.1	296.63	297.16	297.25	297.45	0.064516	2.86	2.07	11.16	1.54
Johnson	4448.117	2y6hSCS	2.1	296.63	297.1	297.19	297.35	0.062395	2.57	1.47	8.6	1.48
Johnson	4448.117	100y4hChicago	5.1	296.63	297.26	297.36	297.56	0.062097	3.15	3.31	14.67	1.55
Johnson	4448.117	2yrFlow100yrLake	2.1	296.63	297.1	297.19	297.35	0.062395	2.57	1.47	8.6	1.48
Johnson	4444	Timmins	10.9	296.25	296.8	297	297.46	0.1083	4.88	4.79	15.75	2.24
Johnson	4444	100y6hSCS	5.9	296.25	296.65	296.84	297.22	0.133384	4.27	2.72	12.86	2.34
Johnson	4444	50y6hSCS	5.3	296.25	296.63	296.79	297.18	0.135247	4.14	2.48	12.55	2.33
Johnson	4444	25y6hSCS	4.7	296.25	296.61	296.76	297.14	0.13946	4.03	2.23	12.09	2.34
Johnson	4444	10y6hSCS	3.8	296.25	296.57	296.7	297.08	0.154602	3.86	1.78	11.02	2.41
Johnson	4444	5y6hSCS	3.1	296.25	296.54	296.68	297.02	0.165258	3.68	1.45	10.51	2.44
Johnson	4444	2y6hSCS	2.1	296.25	296.49	296.62	296.9	0.204459	3.39	0.98	6.83	2.59
Johnson	4444	100y4hChicago	5.1	296.25	296.63	296.78	297.17	0.136334	4.1	2.4	12.43	2.34
Johnson	4444	2yrFlow100yrLake	2.1	296.25	296.49	296.62	296.9	0.204459	3.39	0.98	6.83	2.59
Johnson	4439	Timmins	10.9	295.7	296.26	296.43	296.84	0.113535	4.42	4.03	9.4	2.22
Johnson	4439	100y6hSCS	5.9	295.7	296.11	296.2	296.46	0.124977	3.43	2.67	8.95	2.16
Johnson	4439	50y6hSCS	5.3	295.7	296.09	296.17	296.41	0.12599	3.26	2.5	8.9	2.14
Johnson	4439	25y6hSCS	4.7	295.7	296.07	296.14	296.35	0.124598	3.07	2.33	8.84	2.1
Johnson	4439	10y6hSCS	3.8	295.7	296.04	296.09	296.27	0.11854	2.72	2.07	8.76	2
Johnson	4439	5y6hSCS	3.1	295.7	296.02	296.04	296.2	0.11359	2.42	1.85	8.69	1.91
Johnson	4439	2y6hSCS	2.1	295.7	295.98	295.99	296.09	0.092319	1.9	1.54	8.49	1.66
Johnson	4439	100y4hChicago	5.1	295.7	296.08	296.16	296.39	0.126134	3.2	2.44	8.88	2.13
Johnson	4439	2yrFlow100yrLake	2.1	295.7	295.98	295.99	296.09	0.092319	1.9	1.54	8.49	1.66
Johnson	4434	Timmins	10.9	295.26	295.76	295.86	296.19	0.145896	3.05	3.76	7.19	2.15
Johnson	4434	100y6hSCS	5.9	295.26	295.6	295.62	295.85	0.121705	2.11	2.65	6.07	1.83
Johnson	4434	50y6hSCS	5.3	295.26	295.56	295.58	295.8	0.121703	2.36	2.45	5.72	1.86
Johnson	4434	25y6hSCS	4.7	295.26	295.53	295.54	295.75	0.124058	2.2	2.26	5.61	1.84
Johnson	4434	10y6hSCS	3.8	295.26	295.47	295.48	295.67	0.133698	1.9	1.92	5.41	1.84
Johnson	4434	5y6hSCS	3.1	295.26	295.42	295.43	295.6	0.143943	1.59	1.65	5.24	1.82
Johnson	4434	2y6hSCS	2.1	295.26	295.32	295.35	295.49	0.190007	0.98	1.16	4.75	1.78
Johnson	4434	100y4hChicago	5.1	295.26	295.55	295.57	295.79	0.121841	2.31	2.39	5.69	1.85
Johnson	4434	2yrFlow100yrLake	2.1	295.26	295.32	295.35	295.49	0.190007	0.98	1.16	4.75	1.78
Johnson	4429	Timmins	10.9	294.51	295.4	295.27	295.62	0.042706	2.76	5.69	8.95	1.33
Johnson	4429	100y6hSCS	5.9	294.51	295.17	295.04	295.31	0.04104	2.11	3.77	7.4	1.23
Johnson	4429	50y6hSCS	5.3	294.51	295.17	295.01	295.28	0.03387	1.92	3.74	7.35	1.12
Johnson	4429	25y6hSCS	4.7	294.51	295.12	294.96	295.22	0.03576	1.91	3.37	6.91	1.14
Johnson	4429	10y6hSCS	3.8	294.51	295.02	294.9	295.13	0.040559	1.9	2.76	6.17	1.18
Johnson	4429	5y6hSCS	3.1	294.51	294.97	294.85	295.06	0.037762	1.76	2.45	5.82	1.13
Johnson	4429	2y6hSCS	2.1	294.51	294.89	294.77	294.95	0.034615	1.5	1.97	5.53	1.05
Johnson	4429	100y4hChicago	5.1	294.51	295.16	294.99	295.26	0.033838	1.91	3.64	7.21	1.11
Johnson	4429	2yrFlow100yrLake	2.1	294.51	294.89	294.77	294.95	0.034615	1.5	1.97	5.53	1.05
Johnson	4424	Timmins	10.9	294.24	295.16	295.16	295.46	0.021928	2.71	5.65	9.46	1.04
Johnson	4424	100y6hSCS	5.9	294.24	294.91	294.91	295.14	0.025519	2.33	3.42	7.89	1.07
Johnson	4424	50y6hSCS	5.3	294.24	294.82	294.82	295.09	0.036289	2.51	2.78	7.02	1.25
Johnson	4424	25y6hSCS	4.7	294.24	294.79	294.79	295.03	0.036989	2.4	2.52	6.56	1.24
Johnson	4424	10y6hSCS	3.8	294.24	294.75	294.75	294.94	0.031399	2.11	2.32	6.44	1.13
Johnson	4424	5y6hSCS	3.1	294.24	294.7	294.7	294.87	0.035156	2.02	1.96	6.23	1.17
Johnson	4424	2y6hSCS	2.1	294.24	294.62	294.62	294.75	0.040347	1.8	1.47	5.95	1.2
Johnson	4424	100y4hChicago	5.1	294.24	294.81	294.81	295.07	0.037877	2.5	2.66	6.79	1.27

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4424	2yrFlow100yrLake	2.1	294.24	294.62	294.62	294.75	0.040347	1.8	1.47	5.95	1.2
Johnson	4419	Timmins	10.9	293.56	294.02	294.33	295.16	0.155708	4.74	2.35	7.41	2.51
Johnson	4419	100y6hSCS	5.9	293.56	293.86	294.11	294.81	0.211942	4.3	1.37	5.54	2.76
Johnson	4419	50y6hSCS	5.3	293.56	293.85	294.08	294.7	0.202179	4.08	1.3	5.49	2.68
Johnson	4419	25y6hSCS	4.7	293.56	293.83	294.05	294.63	0.211238	3.97	1.19	5.4	2.7
Johnson	4419	10y6hSCS	3.8	293.56	293.79	293.98	294.56	0.252354	3.89	0.98	5.24	2.88
Johnson	4419	5y6hSCS	3.1	293.56	293.76	293.93	294.46	0.277235	3.71	0.84	5.21	2.96
Johnson	4419	2y6hSCS	2.1	293.56	293.72	293.86	294.3	0.32331	3.38	0.62	5.04	3.07
Johnson	4419	100y4hChicago	5.1	293.56	293.84	294.07	294.67	0.202339	4.03	1.27	5.46	2.67
Johnson	4419	2yrFlow100yrLake	2.1	293.56	293.72	293.86	294.3	0.32331	3.38	0.62	5.04	3.07
Johnson	4414	Timmins	10.9	293.54	294.04	294.2	294.56	0.059517	3.23	3.76	10.92	1.6
Johnson	4414	100y6hSCS	5.9	293.54	293.94	294.01	294.22	0.045358	2.36	2.67	9.6	1.34
Johnson	4414	50y6hSCS	5.3	293.54	293.93	293.98	294.17	0.03935	2.17	2.61	9.58	1.24
Johnson	4414	25y6hSCS	4.7	293.54	293.92	293.96	294.12	0.0355	2.01	2.49	9.53	1.17
Johnson	4414	10y6hSCS	3.8	293.54	293.89	293.91	294.06	0.032594	1.81	2.22	9.39	1.11
Johnson	4414	5y6hSCS	3.1	293.54	293.87	293.88	294	0.027526	1.59	2.05	9.31	1.01
Johnson	4414	2y6hSCS	2.1	293.54	293.81	293.81	293.91	0.028632	1.44	1.47	7.51	1
Johnson	4414	100y4hChicago	5.1	293.54	293.93	293.97	294.15	0.037416	2.11	2.59	9.57	1.21
Johnson	4414	2yrFlow100yrLake	2.1	293.54	293.81	293.81	293.91	0.028632	1.44	1.47	7.51	1
Johnson	4409	Timmins	10.9	293.06	293.59	293.77	294.18	0.08366	3.56	3.49	10.12	1.84
Johnson	4409	100y6hSCS	5.9	293.06	293.45	293.58	293.86	0.101962	2.97	2.21	8.68	1.91
Johnson	4409	50y6hSCS	5.3	293.06	293.42	293.55	293.83	0.105505	2.95	2	8.18	1.93
Johnson	4409	25y6hSCS	4.7	293.06	293.4	293.52	293.8	0.111142	2.93	1.79	7.7	1.96
Johnson	4409	10y6hSCS	3.8	293.06	293.36	293.47	293.74	0.121924	2.85	1.49	7.2	2.02
Johnson	4409	5y6hSCS	3.1	293.06	293.32	293.44	293.7	0.147639	2.84	1.22	6.86	2.17
Johnson	4409	2y6hSCS	2.1	293.06	293.26	293.36	293.6	0.151344	2.67	0.89	5.75	2.16
Johnson	4409	100y4hChicago	5.1	293.06	293.41	293.54	293.83	0.107218	2.96	1.92	7.93	1.94
Johnson	4409	2yrFlow100yrLake	2.1	293.06	293.26	293.36	293.6	0.151344	2.67	0.89	5.75	2.16
Johnson	4403	Timmins	10.9	292.55	293.02	293.19	293.58	0.098875	3.35	3.44	12.42	1.97
Johnson	4403	100y6hSCS	5.9	292.55	292.93	293.03	293.27	0.076347	2.6	2.37	10	1.67
Johnson	4403	50y6hSCS	5.3	292.55	292.92	293.01	293.23	0.07557	2.49	2.21	9.86	1.65
Johnson	4403	25y6hSCS	4.7	292.55	292.9	292.99	293.18	0.073599	2.37	2.06	9.75	1.61
Johnson	4403	10y6hSCS	3.8	292.55	292.88	292.95	293.11	0.06908	2.15	1.83	9.57	1.54
Johnson	4403	5y6hSCS	3.1	292.55	292.86	292.91	293.05	0.061634	1.92	1.67	9.44	1.43
Johnson	4403	2y6hSCS	2.1	292.55	292.82	292.85	292.96	0.059296	1.65	1.31	9.13	1.36
Johnson	4403	100y4hChicago	5.1	292.55	292.91	293.01	293.21	0.075548	2.46	2.16	9.82	1.64
Johnson	4403	2yrFlow100yrLake	2.1	292.55	292.82	292.85	292.96	0.059296	1.65	1.31	9.13	1.36
Johnson	4398	Timmins	10.9	292.11	292.64	292.79	293.16	0.082463	3.2	3.43	10.74	1.78
Johnson	4398	100y6hSCS	5.9	292.11	292.51	292.63	292.89	0.087603	2.74	2.16	8.79	1.76
Johnson	4398	50y6hSCS	5.3	292.11	292.49	292.6	292.85	0.087103	2.67	1.99	8.41	1.75
Johnson	4398	25y6hSCS	4.7	292.11	292.47	292.58	292.81	0.087675	2.58	1.82	8.14	1.74
Johnson	4398	10y6hSCS	3.8	292.11	292.43	292.53	292.74	0.089038	2.47	1.54	7.49	1.74
Johnson	4398	5y6hSCS	3.1	292.11	292.4	292.49	292.69	0.094615	2.38	1.3	7.04	1.76
Johnson	4398	2y6hSCS	2.1	292.11	292.33	292.42	292.61	0.094024	2.3	0.91	5.14	1.75
Johnson	4398	100y4hChicago	5.1	292.11	292.48	292.59	292.84	0.087137	2.64	1.94	8.33	1.75
Johnson	4398	2yrFlow100yrLake	2.1	292.11	292.33	292.42	292.61	0.094024	2.3	0.91	5.14	1.75
Johnson	4392	Timmins	10.9	291.81	292.29	292.4	292.69	0.064256	2.8	3.95	13.14	1.6
Johnson	4392	100y6hSCS	5.9	291.81	292.19	292.26	292.44	0.054817	2.19	2.71	11.6	1.42
Johnson	4392	50y6hSCS	5.3	291.81	292.17	292.24	292.4	0.054216	2.13	2.5	11.03	1.4
Johnson	4392	25y6hSCS	4.7	291.81	292.16	292.22	292.36	0.053059	2.02	2.33	10.86	1.38
Johnson	4392	10y6hSCS	3.8	291.81	292.13	292.17	292.31	0.051236	1.87	2.03	10.11	1.33
Johnson	4392	5y6hSCS	3.1	291.81	292.11	292.14	292.25	0.047769	1.7	1.82	9.91	1.27
Johnson	4392	2y6hSCS	2.1	291.81	292.07	292.09	292.18	0.045177	1.45	1.45	9.57	1.19
Johnson	4392	100y4hChicago	5.1	291.81	292.17	292.23	292.39	0.053751	2.09	2.44	10.95	1.39
Johnson	4392	2yrFlow100yrLake	2.1	291.81	292.07	292.09	292.18	0.045177	1.45	1.45	9.57	1.19
Johnson	4385.703	Timmins	10.9	291.6	292.12	292.15	292.4	0.027991	2.33	4.69	10.46	1.11
Johnson	4385.703	100y6hSCS	5.9	291.6	291.95	291.98	292.15	0.034212	1.98	2.98	9.92	1.15
Johnson	4385.703	50y6hSCS	5.3	291.6	291.93	291.96	292.12	0.035899	1.93	2.75	9.86	1.17
Johnson	4385.703	25y6hSCS	4.7	291.6	291.91	291.94	292.08	0.036708	1.86	2.53	9.8	1.17
Johnson	4385.703	10y6hSCS	3.8	291.6	291.87	291.9	292.03	0.038297	1.74	2.19	9.7	1.17

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4385.703	5y6hSCS	3.1	291.6	291.84	291.87	291.98	0.040978	1.64	1.89	9.59	1.18
Johnson	4385.703	2y6hSCS	2.1	291.6	291.8	291.81	291.9	0.043375	1.45	1.45	9.26	1.17
Johnson	4385.703	100y4hChicago	5.1	291.6	291.92	291.95	292.11	0.036202	1.91	2.67	9.84	1.17
Johnson	4385.703	2yrFlow100yrLake	2.1	291.6	291.8	291.81	291.9	0.043375	1.45	1.45	9.26	1.17
Johnson	4381	Timmins	10.9	291.3	291.95	292.01	292.26	0.034963	2.45	4.45	10.78	1.22
Johnson	4381	100y6hSCS	5.9	291.3	291.83	291.85	292.01	0.029393	1.85	3.19	10.43	1.07
Johnson	4381	50y6hSCS	5.3	291.3	291.82	291.83	291.98	0.027364	1.74	3.05	10.38	1.02
Johnson	4381	25y6hSCS	4.7	291.3	291.79	291.8	291.94	0.029447	1.7	2.77	10.28	1.05
Johnson	4381	10y6hSCS	3.8	291.3	291.75	291.75	291.88	0.030238	1.65	2.31	9.19	1.05
Johnson	4381	5y6hSCS	3.1	291.3	291.71	291.72	291.83	0.031478	1.58	1.97	8.59	1.05
Johnson	4381	2y6hSCS	2.1	291.3	291.64	291.64	291.75	0.030101	1.44	1.46	7.09	1.01
Johnson	4381	100y4hChicago	5.1	291.3	291.82	291.82	291.96	0.027148	1.71	2.99	10.35	1.02
Johnson	4381	2yrFlow100yrLake	2.1	291.3	291.64	291.64	291.75	0.030101	1.44	1.46	7.09	1.01
Johnson	4377	Timmins	10.9	291.13	291.87	291.89	292.14	0.024014	2.28	4.78	9.83	1.04
Johnson	4377	100y6hSCS	5.9	291.13	291.67	291.69	291.88	0.029902	2.05	2.88	8.22	1.11
Johnson	4377	50y6hSCS	5.3	291.13	291.63	291.66	291.84	0.03206	2.04	2.59	7.82	1.13
Johnson	4377	25y6hSCS	4.7	291.13	291.6	291.63	291.8	0.033286	2.02	2.33	7.38	1.15
Johnson	4377	10y6hSCS	3.8	291.13	291.53	291.57	291.74	0.036047	2.02	1.88	6.3	1.18
Johnson	4377	5y6hSCS	3.1	291.13	291.48	291.52	291.68	0.040194	1.96	1.58	6	1.22
Johnson	4377	2y6hSCS	2.1	291.13	291.4	291.44	291.58	0.0499	1.84	1.14	5.67	1.31
Johnson	4377	100y4hChicago	5.1	291.13	291.62	291.65	291.83	0.033415	2.06	2.48	7.66	1.15
Johnson	4377	2yrFlow100yrLake	2.1	291.13	291.4	291.44	291.58	0.0499	1.84	1.14	5.67	1.31
Johnson	4372	Timmins	10.9	290.3	290.95	291.24	291.85	0.108946	4.21	2.59	6.39	2.11
Johnson	4372	100y6hSCS	5.9	290.3	290.78	290.98	291.53	0.160458	3.85	1.53	5.87	2.4
Johnson	4372	50y6hSCS	5.3	290.3	290.75	290.95	291.48	0.168592	3.77	1.41	5.78	2.44
Johnson	4372	25y6hSCS	4.7	290.3	290.73	290.92	291.43	0.180033	3.69	1.27	5.69	2.49
Johnson	4372	10y6hSCS	3.8	290.3	290.7	290.87	291.34	0.200662	3.54	1.07	5.54	2.57
Johnson	4372	5y6hSCS	3.1	290.3	290.67	290.82	291.25	0.215147	3.36	0.92	5.42	2.61
Johnson	4372	2y6hSCS	2.1	290.3	290.63	290.75	291.08	0.232404	2.99	0.7	5.25	2.61
Johnson	4372	100y4hChicago	5.1	290.3	290.75	290.94	291.46	0.170743	3.73	1.37	5.76	2.45
Johnson	4372	2yrFlow100yrLake	2.1	290.3	290.63	290.75	291.08	0.232404	2.99	0.7	5.25	2.61
Johnson	4366	Timmins	10.9	289.45	290.05	290.38	291.18	0.127474	4.72	2.38	6.55	2.33
Johnson	4366	100y6hSCS	5.9	289.45	289.9	290.14	290.7	0.139397	3.98	1.48	4.98	2.31
Johnson	4366	50y6hSCS	5.3	289.45	289.87	290.1	290.63	0.140682	3.85	1.38	4.83	2.3
Johnson	4366	25y6hSCS	4.7	289.45	289.85	290.06	290.55	0.140261	3.71	1.27	4.68	2.28
Johnson	4366	10y6hSCS	3.8	289.45	289.81	289.99	290.42	0.137409	3.45	1.1	4.48	2.22
Johnson	4366	5y6hSCS	3.1	289.45	289.78	289.94	290.31	0.134506	3.2	0.97	4.36	2.17
Johnson	4366	2y6hSCS	2.1	289.45	289.74	289.85	290.13	0.130139	2.77	0.76	4.17	2.07
Johnson	4366	100y4hChicago	5.1	289.45	289.87	290.09	290.6	0.140547	3.81	1.34	4.78	2.3
Johnson	4366	2yrFlow100yrLake	2.1	289.45	289.74	289.85	290.13	0.130139	2.77	0.76	4.17	2.07
Johnson	4360	Timmins	10.9	288.82	289.37	289.64	290.23	0.168376	4.48	3.05	9.63	2.56
Johnson	4360	100y6hSCS	5.9	288.82	289.28	289.42	289.75	0.143129	3.35	2.2	9.29	2.25
Johnson	4360	50y6hSCS	5.3	288.82	289.27	289.39	289.69	0.138134	3.17	2.08	9.24	2.19
Johnson	4360	25y6hSCS	4.7	288.82	289.25	289.37	289.63	0.133481	3	1.96	9.18	2.13
Johnson	4360	10y6hSCS	3.8	288.82	289.23	289.32	289.56	0.123432	2.81	1.71	8.52	2.04
Johnson	4360	5y6hSCS	3.1	288.82	289.21	289.28	289.48	0.117035	2.56	1.53	8.37	1.95
Johnson	4360	2y6hSCS	2.1	288.82	289.16	289.23	289.39	0.102332	2.31	1.18	7.26	1.81
Johnson	4360	100y4hChicago	5.1	288.82	289.26	289.39	289.67	0.136848	3.12	2.04	9.22	2.17
Johnson	4360	2yrFlow100yrLake	2.1	288.82	289.16	289.23	289.39	0.102332	2.31	1.18	7.26	1.81
Johnson	4355	Timmins	10.9	288.38	289.24	289.37	289.73	0.045271	3.53	4.36	7.81	1.46
Johnson	4355	100y6hSCS	5.9	288.38	289.06	289.13	289.37	0.039982	2.77	3.01	7.51	1.32
Johnson	4355	50y6hSCS	5.3	288.38	289.03	289.1	289.32	0.039854	2.67	2.8	7.45	1.31
Johnson	4355	25y6hSCS	4.7	288.38	289	289.06	289.27	0.039985	2.57	2.58	7.38	1.3
Johnson	4355	10y6hSCS	3.8	288.38	288.95	289	289.2	0.043862	2.47	2.16	7.28	1.33
Johnson	4355	5y6hSCS	3.1	288.38	288.91	288.96	289.13	0.044804	2.32	1.87	7.2	1.33
Johnson	4355	2y6hSCS	2.1	288.38	288.79	288.82	289.02	0.057706	2.32	1.16	4.94	1.46
Johnson	4355	100y4hChicago	5.1	288.38	289.02	289.08	289.31	0.039866	2.64	2.73	7.43	1.3
Johnson	4355	2yrFlow100yrLake	2.1	288.38	288.79	288.82	289.02	0.057706	2.32	1.16	4.94	1.46
Johnson	4350	Timmins	10.9	288	288.79	288.99	289.37	0.117157	3.86	3.75	11.49	2.16
Johnson	4350	100y6hSCS	5.9	288	288.62	288.79	289.08	0.073953	3.47	2.33	5.54	1.75

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4350	50y6hSCS	5.3	288	288.58	288.63	289.02	0.079021	3.42	2.12	5.36	1.79
Johnson	4350	25y6hSCS	4.7	288	288.54	288.61	288.97	0.083916	3.35	1.92	5.21	1.83
Johnson	4350	10y6hSCS	3.8	288	288.48	288.6	288.87	0.090671	3.19	1.63	4.99	1.86
Johnson	4350	5y6hSCS	3.1	288	288.43	288.54	288.78	0.101679	3.06	1.37	4.73	1.93
Johnson	4350	2y6hSCS	2.1	288	288.36	288.42	288.63	0.099455	2.71	1.04	4.07	1.85
Johnson	4350	100y4hChicago	5.1	288	288.57	288.62	289.01	0.080541	3.4	2.05	5.31	1.8
Johnson	4350	2yrFlow100yrLake	2.1	288	288.36	288.42	288.63	0.099455	2.71	1.04	4.07	1.85
Johnson	4343	Timmins	10.9	287.41	288.07	288.16	288.42	0.126887	2.8	4.19	14.34	2.07
Johnson	4343	100y6hSCS	5.9	287.41	287.86	287.98	288.26	0.185101	3.76	2.21	6.22	2.53
Johnson	4343	50y6hSCS	5.3	287.41	287.84	287.96	288.19	0.169124	3.51	2.13	6.16	2.41
Johnson	4343	25y6hSCS	4.7	287.41	287.82	287.92	288.13	0.154977	3.26	2.03	6.07	2.29
Johnson	4343	10y6hSCS	3.8	287.41	287.79	287.84	288.03	0.137016	2.87	1.83	5.84	2.12
Johnson	4343	5y6hSCS	3.1	287.41	287.8	287.77	287.95	0.087323	2.31	1.86	5.89	1.69
Johnson	4343	2y6hSCS	2.1	287.41	287.71	287.7	287.83	0.09062	1.95	1.4	5.16	1.65
Johnson	4343	100y4hChicago	5.1	287.41	287.84	287.94	288.17	0.164473	3.43	2.1	6.14	2.37
Johnson	4343	2yrFlow100yrLake	2.1	287.41	287.71	287.7	287.83	0.09062	1.95	1.4	5.16	1.65
Johnson	4337	Timmins	10.9	286.95	287.56	287.65	287.91	0.067454	3.15	5.26	15.45	1.67
Johnson	4337	100y6hSCS	5.9	286.95	287.45	287.48	287.65	0.058832	2.35	3.69	14.74	1.47
Johnson	4337	50y6hSCS	5.3	286.95	287.44	287.46	287.62	0.057559	2.23	3.47	14.64	1.44
Johnson	4337	25y6hSCS	4.7	286.95	287.42	287.44	287.58	0.05765	2.12	3.2	14.49	1.43
Johnson	4337	10y6hSCS	3.8	286.95	287.39	287.4	287.52	0.056518	1.94	2.79	13.68	1.38
Johnson	4337	5y6hSCS	3.1	286.95	287.34	287.34	287.47	0.077833	1.92	2.11	11.96	1.56
Johnson	4337	2y6hSCS	2.1	286.95	287.3	287.3	287.39	0.064109	1.54	1.72	11.09	1.37
Johnson	4337	100y4hChicago	5.1	286.95	287.43	287.46	287.6	0.057764	2.2	3.38	14.6	1.44
Johnson	4337	2yrFlow100yrLake	2.1	286.95	287.3	287.3	287.39	0.064109	1.54	1.72	11.09	1.37
Johnson	4329	Timmins	10.9	286.53	287.09	287.15	287.38	0.059576	3.1	6.02	17.2	1.59
Johnson	4329	100y6hSCS	5.9	286.53	286.97	287.01	287.16	0.062724	2.49	4.01	16.76	1.53
Johnson	4329	50y6hSCS	5.3	286.53	286.95	286.99	287.13	0.062693	2.39	3.74	16.66	1.52
Johnson	4329	25y6hSCS	4.7	286.53	286.94	286.97	287.1	0.060935	2.29	3.48	16.46	1.49
Johnson	4329	10y6hSCS	3.8	286.53	286.91	286.94	287.06	0.059288	2.16	3.02	16.06	1.45
Johnson	4329	5y6hSCS	3.1	286.53	286.89	286.92	287.02	0.053007	1.97	2.71	15.79	1.36
Johnson	4329	2y6hSCS	2.1	286.53	286.85	286.87	286.95	0.047437	1.72	2.11	15.25	1.26
Johnson	4329	100y4hChicago	5.1	286.53	286.95	286.99	287.12	0.062143	2.36	3.66	16.61	1.51
Johnson	4329	2yrFlow100yrLake	2.1	286.53	286.85	286.87	286.95	0.047437	1.72	2.11	15.25	1.26
Johnson	4321.43	Timmins	10.9	285.96	286.81	286.84	287.09	0.024038	2.72	6.8	16.76	1.07
Johnson	4321.43	100y6hSCS	5.9	285.96	286.62	286.67	286.85	0.026028	2.33	3.87	13.85	1.06
Johnson	4321.43	50y6hSCS	5.3	285.96	286.59	286.64	286.82	0.02669	2.29	3.46	13.36	1.07
Johnson	4321.43	25y6hSCS	4.7	285.96	286.56	286.61	286.78	0.027786	2.25	3.02	12.65	1.08
Johnson	4321.43	10y6hSCS	3.8	285.96	286.5	286.56	286.72	0.030843	2.19	2.34	10.29	1.12
Johnson	4321.43	5y6hSCS	3.1	285.96	286.45	286.51	286.67	0.035101	2.14	1.83	8.81	1.17
Johnson	4321.43	2y6hSCS	2.1	285.96	286.35	286.42	286.57	0.043754	2.09	1.08	6.9	1.27
Johnson	4321.43	100y4hChicago	5.1	285.96	286.58	286.63	286.81	0.026964	2.27	3.32	13.17	1.07
Johnson	4321.43	2yrFlow100yrLake	2.1	285.96	286.35	286.42	286.57	0.043754	2.09	1.08	6.9	1.27
Johnson	4312	Timmins	10.9	285.67	286.47	286.53	286.82	0.040572	3.01	5.68	14.19	1.33
Johnson	4312	100y6hSCS	5.9	285.67	286.33	286.38	286.56	0.040678	2.43	3.68	13.32	1.26
Johnson	4312	50y6hSCS	5.3	285.67	286.31	286.36	286.53	0.040757	2.35	3.4	13.2	1.25
Johnson	4312	25y6hSCS	4.7	285.67	286.29	286.33	286.49	0.037551	2.19	3.21	13.11	1.19
Johnson	4312	10y6hSCS	3.8	285.67	286.27	286.3	286.42	0.030909	1.91	2.96	13	1.07
Johnson	4312	5y6hSCS	3.1	285.67	286.24	286.25	286.37	0.030646	1.77	2.54	12.27	1.05
Johnson	4312	2y6hSCS	2.1	285.67	286.16	286.19	286.3	0.032873	1.73	1.66	9.86	1.06
Johnson	4312	100y4hChicago	5.1	285.67	286.3	286.35	286.52	0.039965	2.3	3.33	13.17	1.23
Johnson	4312	2yrFlow100yrLake	2.1	285.67	286.16	286.19	286.3	0.032873	1.73	1.66	9.86	1.06
Johnson	4304	Timmins	10.9	285.06	285.63	285.78	286.22	0.148335	4.45	4.43	16.84	2.44
Johnson	4304	100y6hSCS	5.9	285.06	285.52	285.67	285.99	0.133519	3.79	2.81	14.41	2.25
Johnson	4304	50y6hSCS	5.3	285.06	285.46	285.66	285.91	0.168847	3.73	2.07	8.42	2.45
Johnson	4304	25y6hSCS	4.7	285.06	285.42	285.48	285.87	0.19868	3.71	1.79	6.88	2.61
Johnson	4304	10y6hSCS	3.8	285.06	285.36	285.48	285.83	0.267268	3.84	1.4	6.23	2.94
Johnson	4304	5y6hSCS	3.1	285.06	285.33	285.45	285.78	0.273086	3.83	1.19	5.63	2.96
Johnson	4304	2y6hSCS	2.1	285.06	285.27	285.38	285.67	0.288786	3.68	0.89	5.02	3
Johnson	4304	100y4hChicago	5.1	285.06	285.45	285.65	285.9	0.177041	3.71	1.98	8.06	2.5
Johnson	4304	2yrFlow100yrLake	2.1	285.06	285.27	285.38	285.67	0.288786	3.68	0.89	5.02	3

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4293	Timmins	10.9	285.16	285.39	285.3	285.49	0.052841	1.57	8.02	20.27	1.29
Johnson	4293	100y6hSCS	5.9	285.16	285.23	285.14	285.31	0.063755	0.76	4.91	16.91	1.15
Johnson	4293	50y6hSCS	5.3	285.16	285.21	285.11	285.28	0.065005	0.54	4.49	15.92	1.07
Johnson	4293	25y6hSCS	4.7	285.16	285.18	285.09	285.25	0.066187	0.33	4.12	15.33	0.95
Johnson	4293	10y6hSCS	3.8	285.16	285.11	285.04	285.18	0.054135		3.17	11.39	0
Johnson	4293	5y6hSCS	3.1	285.16	285.07	284.92	285.14	0.050091		2.71	10.51	0
Johnson	4293	2y6hSCS	2.1	285.16	284.98	284.83	285.04	0.039372		1.98	5.89	0
Johnson	4293	100y4hChicago	5.1	285.16	285.2	285.1	285.27	0.065547	0.46	4.37	15.81	1.03
Johnson	4293	2yrFlow100yrLake	2.1	285.16	284.98	284.83	285.04	0.039372		1.98	5.89	0
Johnson	4287	Timmins	10.9	285.62	285.15		285.24	0.036984		8.38	16.03	0
Johnson	4287	100y6hSCS	5.9	285.62	284.98		285.03	0.036691		5.68	15.14	0
Johnson	4287	50y6hSCS	5.3	285.62	284.96		285.01	0.034716		5.4	15.06	0
Johnson	4287	25y6hSCS	4.7	285.62	284.93		284.98	0.034517		5.01	14.94	0
Johnson	4287	10y6hSCS	3.8	285.62	284.89		284.93	0.035144		4.36	14.69	0
Johnson	4287	5y6hSCS	3.1	285.62	284.85		284.89	0.035905		3.81	14.43	0
Johnson	4287	2y6hSCS	2.1	285.62	284.79		284.82	0.03522		2.99	14.01	0
Johnson	4287	100y4hChicago	5.1	285.62	284.95		285	0.03392		5.31	15.03	0
Johnson	4287	2yrFlow100yrLake	2.1	285.62	284.79		284.82	0.03522		2.99	14.01	0
Johnson	4279	Timmins	10.9	285.32	284.55	284.55	284.72	0.133363		5.91	17.23	0
Johnson	4279	100y6hSCS	5.9	285.32	284.42	284.42	284.54	0.117378		3.84	15.98	0
Johnson	4279	50y6hSCS	5.3	285.32	284.39	284.39	284.52	0.128246		3.35	13.28	0
Johnson	4279	25y6hSCS	4.7	285.32	284.37	284.37	284.49	0.129305		3.06	13	0
Johnson	4279	10y6hSCS	3.8	285.32	284.34	284.34	284.44	0.124399		2.66	12.59	0
Johnson	4279	5y6hSCS	3.1	285.32	284.31	284.31	284.4	0.118004		2.3	11.99	0
Johnson	4279	2y6hSCS	2.1	285.32	284.24	284.24	284.33	0.128489		1.6	9.21	0
Johnson	4279	100y4hChicago	5.1	285.32	284.38	284.38	284.51	0.135607		3.19	13.12	0
Johnson	4279	2yrFlow100yrLake	2.1	285.32	284.24	284.24	284.33	0.128489		1.6	9.21	0
Johnson	4271	Timmins	10.9	284.43	284.34	283.89	284.39	0.014278		11.51	17.26	0
Johnson	4271	100y6hSCS	5.9	284.43	283.96	283.72	284.01	0.024187		5.96	12.46	0
Johnson	4271	50y6hSCS	5.3	284.43	283.93	283.69	283.97	0.02398		5.51	11.92	0
Johnson	4271	25y6hSCS	4.7	284.43	283.89	283.67	283.93	0.023667		5.07	11.48	0
Johnson	4271	10y6hSCS	3.8	284.43	283.83	283.63	283.87	0.023364		4.43	11.21	0
Johnson	4271	5y6hSCS	3.1	284.43	283.79	283.6	283.82	0.022751		3.92	10.99	0
Johnson	4271	2y6hSCS	2.1	284.43	283.69	283.54	283.71	0.022884		2.93	9.56	0
Johnson	4271	100y4hChicago	5.1	284.43	283.91	283.69	283.96	0.023698		5.34	11.6	0
Johnson	4271	2yrFlow100yrLake	2.1	284.43	283.69	283.54	283.71	0.022884		2.93	9.56	0
Johnson	4263	Timmins	10.9	284.04	284.25	283.72	284.3	0.010512	0.59	11.55	16.34	0.55
Johnson	4263	100y6hSCS	5.9	284.04	283.69		283.77	0.04222		4.68	10.33	0
Johnson	4263	50y6hSCS	5.3	284.04	283.69	283.52	283.75	0.035962		4.6	10.28	0
Johnson	4263	25y6hSCS	4.7	284.04	283.63	283.49	283.7	0.040779		4.07	9.98	0
Johnson	4263	10y6hSCS	3.8	284.04	283.57	283.45	283.63	0.044524		3.44	9.66	0
Johnson	4263	5y6hSCS	3.1	284.04	283.5		283.56	0.053372		2.82	9.15	0
Johnson	4263	2y6hSCS	2.1	284.04	283.39		283.45	0.057286		1.92	6.54	0
Johnson	4263	100y4hChicago	5.1	284.04	283.67	283.51	283.74	0.037195		4.43	10.18	0
Johnson	4263	2yrFlow100yrLake	2.1	284.04	283.39		283.45	0.057286		1.92	6.54	0
Johnson	4257	Timmins	10.9	282.56	283.19	283.19	284.04	0.236568	5.12	2.95	7.36	2.94
Johnson	4257	100y6hSCS	5.9	282.56	283.2	283.2	283.44	0.065543	2.73	3.01	7.66	1.55
Johnson	4257	50y6hSCS	5.3	282.56	283.12	283.12	283.39	0.096467	2.84	2.46	6.81	1.82
Johnson	4257	25y6hSCS	4.7	282.56	283.11	283.11	283.33	0.086371	2.59	2.36	6.71	1.71
Johnson	4257	10y6hSCS	3.8	282.56	283.06	283.06	283.25	0.086794	2.3	2.07	6.51	1.66
Johnson	4257	5y6hSCS	3.1	282.56	283.04	283.04	283.18	0.071535	1.95	1.93	6.42	1.48
Johnson	4257	2y6hSCS	2.1	282.56	282.96	282.96	283.1	0.054595	2.29	1.49	4.77	1.36
Johnson	4257	100y4hChicago	5.1	282.56	283.12	283.12	283.37	0.09426	2.76	2.42	6.74	1.79
Johnson	4257	2yrFlow100yrLake	2.1	282.56	282.96	282.96	283.1	0.054595	2.29	1.49	4.77	1.36
Johnson	4249	Timmins	10.9	282.11	282.95	283.13	283.48	0.040322	3.74	5.52	15.84	1.42
Johnson	4249	100y6hSCS	5.9	282.11	282.84	282.93	283.13	0.024944	2.63	3.86	14.07	1.09
Johnson	4249	50y6hSCS	5.3	282.11	282.84	282.87	283.07	0.020721	2.39	3.81	14.02	0.99
Johnson	4249	25y6hSCS	4.7	282.11	282.8	282.84	283.03	0.021496	2.32	3.28	12.21	1
Johnson	4249	10y6hSCS	3.8	282.11	282.74	282.74	282.94	0.020735	2.12	2.67	10.2	0.96
Johnson	4249	5y6hSCS	3.1	282.11	282.68	282.68	282.86	0.02322	2.04	2.06	8.08	1

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4249	2y6hSCS	2.1	282.11	282.55	282.58	282.74	0.035985	2.02	1.29	4.81	1.17
Johnson	4249	100y4hChicago	5.1	282.11	282.83	282.85	283.06	0.020159	2.34	3.71	13.92	0.98
Johnson	4249	2yrFlow100yrLake	2.1	282.11	282.55	282.58	282.74	0.035985	2.02	1.29	4.81	1.17
Johnson	4237.645	Timmins	10.9	282.04	282.73	282.54	282.79	0.010402	1.79	13.16	25.35	0.72
Johnson	4237.645	100y6hSCS	5.9	282.04	282.5	282.41	282.56	0.017435	1.7	7.47	23.61	0.87
Johnson	4237.645	50y6hSCS	5.3	282.04	282.47	282.4	282.53	0.018531	1.67	6.84	23.42	0.88
Johnson	4237.645	25y6hSCS	4.7	282.04	282.45	282.38	282.5	0.019674	1.63	6.21	23.25	0.9
Johnson	4237.645	10y6hSCS	3.8	282.04	282.41	282.35	282.46	0.020824	1.55	5.29	22.81	0.91
Johnson	4237.645	5y6hSCS	3.1	282.04	282.37	282.32	282.42	0.021663	1.46	4.54	22.23	0.91
Johnson	4237.645	2y6hSCS	2.1	282.04	282.32	282.28	282.36	0.024375	1.32	3.34	20.8	0.92
Johnson	4237.645	100y4hChicago	5.1	282.04	282.46	282.39	282.52	0.018873	1.66	6.63	23.36	0.89
Johnson	4237.645	2yrFlow100yrLake	2.1	282.04	282.32	282.28	282.36	0.024375	1.32	3.34	20.8	0.92
Johnson	4230	Timmins	10.9	281.56	282.56		282.7	0.013328	2.23	9.66	16.47	0.83
Johnson	4230	100y6hSCS	5.9	281.56	282.32		282.42	0.016674	1.9	5.92	14.87	0.87
Johnson	4230	50y6hSCS	5.3	281.56	282.29		282.39	0.017977	1.88	5.39	14.77	0.89
Johnson	4230	25y6hSCS	4.7	281.56	282.25		282.35	0.0193	1.84	4.86	14.68	0.91
Johnson	4230	10y6hSCS	3.8	281.56	282.2	282.15	282.29	0.021731	1.78	4.06	14.54	0.94
Johnson	4230	5y6hSCS	3.1	281.56	282.15	282.11	282.23	0.024986	1.73	3.35	14.03	0.99
Johnson	4230	2y6hSCS	2.1	281.56	282.08	282.06	282.15	0.027765	1.55	2.43	12.78	1
Johnson	4230	100y4hChicago	5.1	281.56	282.27		282.37	0.018528	1.87	5.2	14.74	0.9
Johnson	4230	2yrFlow100yrLake	2.1	281.56	282.08	282.06	282.15	0.027765	1.55	2.43	12.78	1
Johnson	4225	Timmins	10.9	281.44	282.29	282.29	282.58	0.032303	3.02	6.19	11.21	1.2
Johnson	4225	100y6hSCS	5.9	281.44	282.08	282.08	282.29	0.03787	2.52	3.9	10.6	1.22
Johnson	4225	50y6hSCS	5.3	281.44	282.05	282.05	282.24	0.037836	2.42	3.62	10.41	1.2
Johnson	4225	25y6hSCS	4.7	281.44	282.02	282.02	282.2	0.038753	2.32	3.31	10.2	1.2
Johnson	4225	10y6hSCS	3.8	281.44	281.97	281.97	282.13	0.040591	2.17	2.82	9.86	1.2
Johnson	4225	5y6hSCS	3.1	281.44	281.94	281.94	282.07	0.037604	1.99	2.5	9.47	1.15
Johnson	4225	2y6hSCS	2.1	281.44	281.86	281.86	281.98	0.039945	1.8	1.83	8.58	1.15
Johnson	4225	100y4hChicago	5.1	281.44	282.04	282.04	282.23	0.037647	2.38	3.53	10.35	1.2
Johnson	4225	2yrFlow100yrLake	2.1	281.44	281.86	281.86	281.98	0.039945	1.8	1.83	8.58	1.15
Johnson	4219	Timmins	10.9	280.93	281.66	281.83	282.25	0.075748	4.06	4.06	8.6	1.81
Johnson	4219	100y6hSCS	5.9	280.93	281.47	281.6	281.9	0.106813	3.5	2.46	7.69	1.98
Johnson	4219	50y6hSCS	5.3	280.93	281.44	281.56	281.85	0.110031	3.38	2.28	7.59	1.99
Johnson	4219	25y6hSCS	4.7	280.93	281.42	281.53	281.8	0.11298	3.27	2.1	7.41	1.99
Johnson	4219	10y6hSCS	3.8	280.93	281.38	281.47	281.73	0.109288	3.15	1.8	6.95	1.95
Johnson	4219	5y6hSCS	3.1	280.93	281.34	281.43	281.69	0.105424	3.09	1.55	6.51	1.91
Johnson	4219	2y6hSCS	2.1	280.93	281.28	281.38	281.59	0.100508	2.85	1.16	6.1	1.84
Johnson	4219	100y4hChicago	5.1	280.93	281.44	281.55	281.83	0.11292	3.35	2.21	7.55	2
Johnson	4219	2yrFlow100yrLake	2.1	280.93	281.28	281.38	281.59	0.100508	2.85	1.16	6.1	1.84
Johnson	4213	Timmins	10.9	280.5	281.11	281.31	281.74	0.096198	4.24	3.63	7.56	2.05
Johnson	4213	100y6hSCS	5.9	280.5	281.1	281.06	281.29	0.02942	2.32	3.59	7.53	1.13
Johnson	4213	50y6hSCS	5.3	280.5	281.11	281.03	281.26	0.021871	2.04	3.68	7.59	0.98
Johnson	4213	25y6hSCS	4.7	280.5	281.07	280.99	281.21	0.023034	1.96	3.36	7.38	0.99
Johnson	4213	10y6hSCS	3.8	280.5	281.01	280.93	281.13	0.023123	1.83	2.92	7.06	0.97
Johnson	4213	5y6hSCS	3.1	280.5	280.96	280.88	281.06	0.022021	1.69	2.59	6.81	0.94
Johnson	4213	2y6hSCS	2.1	280.5	280.87	280.79	280.95	0.021848	1.51	2	6.27	0.91
Johnson	4213	100y4hChicago	5.1	280.5	281.1	281.01	281.24	0.022955	2.03	3.54	7.5	1
Johnson	4213	2yrFlow100yrLake	2.1	280.5	280.87	280.79	280.95	0.021848	1.51	2	6.27	0.91
Johnson	4207	Timmins	10.9	280.06	281.12	281.12	281.39	0.031122	2.85	6.1	11.91	1.2
Johnson	4207	100y6hSCS	5.9	280.06	280.92	280.92	281.11	0.033811	2.35	3.93	10.45	1.18
Johnson	4207	50y6hSCS	5.3	280.06	280.82	280.82	281.06	0.056774	2.67	2.94	8.4	1.47
Johnson	4207	25y6hSCS	4.7	280.06	280.8	280.8	281.01	0.052058	2.48	2.78	8.19	1.4
Johnson	4207	10y6hSCS	3.8	280.06	280.75	280.75	280.93	0.052751	2.31	2.39	7.63	1.38
Johnson	4207	5y6hSCS	3.1	280.06	280.7	280.7	280.86	0.06012	2.21	1.98	7.02	1.44
Johnson	4207	2y6hSCS	2.1	280.06	280.62	280.62	280.75	0.061514	1.96	1.5	6.18	1.4
Johnson	4207	100y4hChicago	5.1	280.06	280.82	280.82	281.04	0.052491	2.56	2.94	8.4	1.42
Johnson	4207	2yrFlow100yrLake	2.1	280.06	280.62	280.62	280.75	0.061514	1.96	1.5	6.18	1.4
Johnson	4200	Timmins	10.9	279.65	280.4	280.59	281.03	0.069825	3.88	4.09	11.09	1.78
Johnson	4200	100y6hSCS	5.9	279.65	280.26	280.4	280.72	0.079037	3.25	2.51	10.14	1.78
Johnson	4200	50y6hSCS	5.3	279.65	280.26	280.37	280.62	0.060594	2.87	2.56	10.19	1.57

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4200	25y6hSCS	4.7	279.65	280.24	280.34	280.58	0.062459	2.79	2.3	9.9	1.57
Johnson	4200	10y6hSCS	3.8	279.65	280.2	280.29	280.51	0.06097	2.59	1.96	9.51	1.53
Johnson	4200	5y6hSCS	3.1	279.65	280.17	280.25	280.44	0.052338	2.38	1.72	8.91	1.42
Johnson	4200	2y6hSCS	2.1	279.65	280.11	280.18	280.33	0.052103	2.14	1.2	6.99	1.38
Johnson	4200	100y4hChicago	5.1	279.65	280.25	280.36	280.61	0.062631	2.87	2.45	10.07	1.59
Johnson	4200	2yrFlow100yrLake	2.1	279.65	280.11	280.18	280.33	0.052103	2.14	1.2	6.99	1.38
Johnson	4190	Timmins	10.9	279.29	279.75	279.9	280.25	0.082155	3.64	4.09	10.01	1.87
Johnson	4190	100y6hSCS	5.9	279.29	279.62	279.68	279.9	0.077144	2.72	2.87	9.4	1.7
Johnson	4190	50y6hSCS	5.3	279.29	279.59	279.65	279.86	0.09481	2.73	2.53	9.17	1.84
Johnson	4190	25y6hSCS	4.7	279.29	279.57	279.62	279.81	0.092909	2.56	2.37	9.06	1.79
Johnson	4190	10y6hSCS	3.8	279.29	279.54	279.57	279.73	0.095466	2.31	2.07	8.85	1.77
Johnson	4190	5y6hSCS	3.1	279.29	279.5	279.53	279.68	0.114942	2.25	1.72	8.26	1.88
Johnson	4190	2y6hSCS	2.1	279.29	279.45	279.47	279.58	0.110999	1.84	1.36	7.82	1.76
Johnson	4190	100y4hChicago	5.1	279.29	279.58	279.64	279.84	0.092073	2.66	2.49	9.15	1.8
Johnson	4190	2yrFlow100yrLake	2.1	279.29	279.45	279.47	279.58	0.110999	1.84	1.36	7.82	1.76
Johnson	4183	Timmins	10.9	278.5	279.07	279.25	279.61	0.09517	3.75	3.8	9.94	1.99
Johnson	4183	100y6hSCS	5.9	278.5	278.92	279.01	279.27	0.096397	3.07	2.52	7.93	1.9
Johnson	4183	50y6hSCS	5.3	278.5	278.91	278.99	279.21	0.085094	2.84	2.44	7.84	1.78
Johnson	4183	25y6hSCS	4.7	278.5	278.89	278.97	279.17	0.08503	2.75	2.26	7.63	1.76
Johnson	4183	10y6hSCS	3.8	278.5	278.85	278.92	279.09	0.082677	2.57	1.98	7.29	1.72
Johnson	4183	5y6hSCS	3.1	278.5	278.82	278.87	279.02	0.075273	2.32	1.79	7.18	1.61
Johnson	4183	2y6hSCS	2.1	278.5	278.8	278.78	278.91	0.047954	1.72	1.62	7.08	1.27
Johnson	4183	100y4hChicago	5.1	278.5	278.9	278.99	279.2	0.086134	2.83	2.37	7.76	1.79
Johnson	4183	2yrFlow100yrLake	2.1	278.5	278.8	278.78	278.91	0.047954	1.72	1.62	7.08	1.27
Johnson	4173	Timmins	10.9	277.93	278.79	278.86	279.07	0.029452	2.59	6.7	26.4	1.17
Johnson	4173	100y6hSCS	5.9	277.93	278.64	278.67	278.84	0.032099	2.14	3.55	14.86	1.15
Johnson	4173	50y6hSCS	5.3	277.93	278.64	278.64	278.8	0.026295	1.93	3.53	14.75	1.04
Johnson	4173	25y6hSCS	4.7	277.93	278.6	278.6	278.76	0.02897	1.9	3.09	11.56	1.07
Johnson	4173	10y6hSCS	3.8	277.93	278.56	278.56	278.7	0.02816	1.76	2.68	9.64	1.04
Johnson	4173	5y6hSCS	3.1	277.93	278.52	278.52	278.65	0.028593	1.68	2.3	9.16	1.03
Johnson	4173	2y6hSCS	2.1	277.93	278.46	278.46	278.56	0.028238	1.53	1.71	8.29	1
Johnson	4173	100y4hChicago	5.1	277.93	278.63	278.63	278.79	0.026737	1.91	3.39	14.09	1.04
Johnson	4173	2yrFlow100yrLake	2.1	277.93	278.46	278.46	278.56	0.028238	1.53	1.71	8.29	1
Johnson	4162	Timmins	10.9	277.23	277.7	277.88	278.4	0.173	4.96	4.4	19.09	2.61
Johnson	4162	100y6hSCS	5.9	277.23	277.59	277.75	278.14	0.176709	4.2	2.58	13.48	2.53
Johnson	4162	50y6hSCS	5.3	277.23	277.56	277.73	278.15	0.214139	4.32	2.18	11.55	2.75
Johnson	4162	25y6hSCS	4.7	277.23	277.54	277.71	278.08	0.20429	4.09	2.04	11.21	2.66
Johnson	4162	10y6hSCS	3.8	277.23	277.51	277.63	278.02	0.221274	3.92	1.7	10.59	2.72
Johnson	4162	5y6hSCS	3.1	277.23	277.48	277.62	277.94	0.247258	3.74	1.36	8.96	2.81
Johnson	4162	2y6hSCS	2.1	277.23	277.43	277.55	277.83	0.304088	3.44	0.96	7.83	2.98
Johnson	4162	100y4hChicago	5.1	277.23	277.55	277.73	278.13	0.213382	4.26	2.13	11.42	2.74
Johnson	4162	2yrFlow100yrLake	2.1	277.23	277.43	277.55	277.83	0.304088	3.44	0.96	7.83	2.98
Johnson	4154.567	Timmins	10.9	276.71	277.18	277.24	277.43	0.070726	2.95	6.71	24.99	1.65
Johnson	4154.567	100y6hSCS	5.9	276.71	277.08	277.11	277.24	0.063039	2.32	4.47	20.9	1.49
Johnson	4154.567	50y6hSCS	5.3	276.71	277.07	277.1	277.21	0.059012	2.19	4.25	20.63	1.44
Johnson	4154.567	25y6hSCS	4.7	276.71	277.06	277.09	277.19	0.05718	2.08	3.96	20.29	1.4
Johnson	4154.567	10y6hSCS	3.8	276.71	277.03	277.05	277.14	0.053258	1.9	3.51	19.75	1.34
Johnson	4154.567	5y6hSCS	3.1	276.71	277.02	277.02	277.11	0.047575	1.71	3.17	19.26	1.25
Johnson	4154.567	2y6hSCS	2.1	276.71	276.97	276.97	277.04	0.050526	1.49	2.3	15.94	1.24
Johnson	4154.567	100y4hChicago	5.1	276.71	277.07	277.1	277.2	0.05828	2.16	4.16	20.52	1.43
Johnson	4154.567	2yrFlow100yrLake	2.1	276.71	276.97	276.97	277.04	0.050526	1.49	2.3	15.94	1.24
Johnson	4150	Timmins	10.9	276.49	276.82	276.83	277.01	0.124905	3.09	5.88	18.47	2.06
Johnson	4150	100y6hSCS	5.9	276.49	276.66	276.68	276.82	0.163242	2.25	3.3	13.16	2.14
Johnson	4150	50y6hSCS	5.3	276.49	276.63	276.66	276.79	0.179054	2.08	2.97	12.54	2.17
Johnson	4150	25y6hSCS	4.7	276.49	276.61	276.63	276.76	0.187692	1.84	2.69	12.1	2.15
Johnson	4150	10y6hSCS	3.8	276.49	276.57	276.6	276.72	0.217663	1.42	2.2	11.11	2.14
Johnson	4150	5y6hSCS	3.1	276.49	276.53	276.57	276.68	0.271628	0.91	1.78	10.45	2.08
Johnson	4150	2y6hSCS	2.1	276.49	276.49	276.51	276.6	0.25977		1.4	9.59	0
Johnson	4150	100y4hChicago	5.1	276.49	276.62	276.65	276.78	0.182136	2	2.87	12.39	2.17
Johnson	4150	2yrFlow100yrLake	2.1	276.49	276.49	276.51	276.6	0.25977		1.4	9.59	0

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4146	Timmins	10.9	276.49	276.56	276.27	276.61	0.021286	0.33	10.44	18.65	0.62
Johnson	4146	100y6hSCS	5.9	276.49	276.35	276.09	276.39	0.020987		6.88	16.44	0
Johnson	4146	50y6hSCS	5.3	276.49	276.32	276.07	276.35	0.019777		6.3	15.59	0
Johnson	4146	25y6hSCS	4.7	276.49	276.28	276.04	276.32	0.019467		5.78	14.73	0
Johnson	4146	10y6hSCS	3.8	276.49	276.22	276	276.25	0.018324		4.82	13.5	0
Johnson	4146	5y6hSCS	3.1	276.49	276.16	275.96	276.19	0.019036		4.07	12.27	0
Johnson	4146	2y6hSCS	2.1	276.49	276.06	275.88	276.09	0.019346		3.03	10.31	0
Johnson	4146	100y4hChicago	5.1	276.49	276.31	276.06	276.34	0.019504		6.14	15.22	0
Johnson	4146	2yrFlow100yrLake	2.1	276.49	276.06	275.88	276.09	0.019346		3.03	10.31	0
Johnson	4140	Timmins	10.9	278.22	276.11	276.11	276.32	0.1232		5.34	12.96	0
Johnson	4140	100y6hSCS	5.9	278.22	275.96	275.96	276.1	0.131235		3.47	11.64	0
Johnson	4140	50y6hSCS	5.3	278.22	275.93	275.93	276.07	0.140385		3.15	11.3	0
Johnson	4140	25y6hSCS	4.7	278.22	275.91	275.91	276.04	0.137504		2.93	11.08	0
Johnson	4140	10y6hSCS	3.8	278.22	275.84	275.83	275.98	0.13662		2.26	7.92	0
Johnson	4140	5y6hSCS	3.1	278.22	275.8	275.79	275.93	0.119718		2.01	7.24	0
Johnson	4140	2y6hSCS	2.1	278.22	275.74	275.72	275.83	0.113342		1.55	6.56	0
Johnson	4140	100y4hChicago	5.1	278.22	275.92	275.92	276.06	0.141553		3.06	11.2	0
Johnson	4140	2yrFlow100yrLake	2.1	278.22	275.74	275.72	275.83	0.113342		1.55	6.56	0
Johnson	4133	Timmins	10.9	277.79	275.64	275.47	275.79	0.050058		6.46	9.97	0
Johnson	4133	100y6hSCS	5.9	277.79	275.41	275.28	275.51	0.05428		4.19	9.08	0
Johnson	4133	50y6hSCS	5.3	277.79	275.37	275.26	275.46	0.056058		3.86	8.94	0
Johnson	4133	25y6hSCS	4.7	277.79	275.33	275.23	275.42	0.058237		3.53	8.82	0
Johnson	4133	10y6hSCS	3.8	277.79	275.27		275.35	0.063925		2.99	8.61	0
Johnson	4133	5y6hSCS	3.1	277.79	275.22		275.29	0.071651		2.54	8.44	0
Johnson	4133	2y6hSCS	2.1	277.79	275.11		275.19	0.078425		1.73	7.14	0
Johnson	4133	100y4hChicago	5.1	277.79	275.36	275.25	275.45	0.05665		3.76	8.9	0
Johnson	4133	2yrFlow100yrLake	2.1	277.79	275.11		275.19	0.078425		1.73	7.14	0
Johnson	4127	Timmins	10.9	276.2	275.5		275.57	0.023074		8.92	13.15	0
Johnson	4127	100y6hSCS	5.9	276.2	275.28		275.32	0.016701		6.25	11.6	0
Johnson	4127	50y6hSCS	5.3	276.2	275.24		275.28	0.016209		5.84	11.16	0
Johnson	4127	25y6hSCS	4.7	276.2	275.21		275.24	0.015488		5.45	10.74	0
Johnson	4127	10y6hSCS	3.8	276.2	275.15		275.18	0.014507		4.83	9.65	0
Johnson	4127	5y6hSCS	3.1	276.2	275.09		275.12	0.013521		4.33	9.5	0
Johnson	4127	2y6hSCS	2.1	276.2	275.01		275.03	0.011595		3.55	9.25	0
Johnson	4127	100y4hChicago	5.1	276.2	275.23		275.27	0.015892		5.72	11.02	0
Johnson	4127	2yrFlow100yrLake	2.1	276.2	275.01		275.03	0.011595		3.55	9.25	0
Johnson	4120	Timmins	10.9	274.59	275.1	275.1	275.31	0.06921	3.17	6.18	14.34	1.62
Johnson	4120	100y6hSCS	5.9	274.59	274.93	274.93	275.09	0.096413	2.78	3.76	13.66	1.81
Johnson	4120	50y6hSCS	5.3	274.59	274.91	274.91	275.06	0.094147	2.64	3.53	13.53	1.77
Johnson	4120	25y6hSCS	4.7	274.59	274.89	274.89	275.03	0.09603	2.52	3.25	13.35	1.77
Johnson	4120	10y6hSCS	3.8	274.59	274.86	274.84	274.97	0.09694	2.27	2.79	12.46	1.74
Johnson	4120	5y6hSCS	3.1	274.59	274.83	274.81	274.92	0.096445	2.05	2.46	12.13	1.69
Johnson	4120	2y6hSCS	2.1	274.59	274.78	274.76	274.85	0.097047	1.65	1.92	11.67	1.62
Johnson	4120	100y4hChicago	5.1	274.59	274.9	274.9	275.05	0.096791	2.61	3.41	13.46	1.79
Johnson	4120	2yrFlow100yrLake	2.1	274.59	274.78	274.76	274.85	0.097047	1.65	1.92	11.67	1.62
Johnson	4113	Timmins	10.9	273.9	274.81	274.81	275.06	0.020994	2.4	6.71	18.2	0.96
Johnson	4113	100y6hSCS	5.9	273.9	274.61	274.62	274.8	0.021622	1.99	3.82	12.37	0.93
Johnson	4113	50y6hSCS	5.3	273.9	274.58	274.58	274.76	0.0228	1.95	3.42	11.78	0.95
Johnson	4113	25y6hSCS	4.7	273.9	274.55	274.55	274.72	0.023091	1.89	3.07	11.15	0.94
Johnson	4113	10y6hSCS	3.8	273.9	274.5	274.5	274.65	0.024272	1.79	2.51	10.07	0.95
Johnson	4113	5y6hSCS	3.1	273.9	274.45	274.45	274.59	0.025688	1.7	2.07	9.1	0.96
Johnson	4113	2y6hSCS	2.1	273.9	274.37	274.37	274.49	0.029144	1.57	1.42	6.14	0.98
Johnson	4113	100y4hChicago	5.1	273.9	274.57	274.58	274.75	0.022635	1.93	3.32	11.62	0.94
Johnson	4113	2yrFlow100yrLake	2.1	273.9	274.37	274.37	274.49	0.029144	1.57	1.42	6.14	0.98
Johnson	4104	Timmins	10.9	273.18	273.89	274.14	274.68	0.077603	3.98	3.07	9.73	1.81
Johnson	4104	100y6hSCS	5.9	273.18	273.68	273.92	274.37	0.119067	3.67	1.61	5.32	2.1
Johnson	4104	50y6hSCS	5.3	273.18	273.66	273.86	274.32	0.12633	3.59	1.48	5.18	2.13
Johnson	4104	25y6hSCS	4.7	273.18	273.63	273.82	274.27	0.135792	3.53	1.33	4.99	2.18
Johnson	4104	10y6hSCS	3.8	273.18	273.59	273.76	274.17	0.147114	3.4	1.12	4.72	2.23
Johnson	4104	5y6hSCS	3.1	273.18	273.55	273.7	274.09	0.160879	3.25	0.95	4.61	2.29
Johnson	4104	2y6hSCS	2.1	273.18	273.49	273.62	273.95	0.16753	2.98	0.7	4.04	2.28

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4104	100y4hChicago	5.1	273.18	273.65	273.85	274.3	0.130737	3.58	1.43	5.12	2.16
Johnson	4104	2yrFlow100yrLake	2.1	273.18	273.49	273.62	273.95	0.16753	2.98	0.7	4.04	2.28
Johnson	4094	Timmins	10.9	272.6	273.12	273.32	273.73	0.10739	4.15	3.82	9.1	2.13
Johnson	4094	100y6hSCS	5.9	272.6	273.01	273.09	273.32	0.077164	2.99	2.85	8.4	1.74
Johnson	4094	50y6hSCS	5.3	272.6	272.99	273.07	273.27	0.072822	2.82	2.71	8.29	1.67
Johnson	4094	25y6hSCS	4.7	272.6	272.97	273.02	273.22	0.068999	2.65	2.55	8.18	1.62
Johnson	4094	10y6hSCS	3.8	272.6	272.94	272.97	273.14	0.064065	2.39	2.29	7.97	1.53
Johnson	4094	5y6hSCS	3.1	272.6	272.91	272.92	273.07	0.059035	2.15	2.07	7.79	1.45
Johnson	4094	2y6hSCS	2.1	272.6	272.85	272.85	272.97	0.06609	1.89	1.58	7.49	1.46
Johnson	4094	100y4hChicago	5.1	272.6	272.99	273.05	273.25	0.070991	2.76	2.67	8.26	1.65
Johnson	4094	2yrFlow100yrLake	2.1	272.6	272.85	272.85	272.97	0.06609	1.89	1.58	7.49	1.46
Johnson	4084	Timmins	10.9	271.78	272.68	272.79	273.13	0.029508	3.07	4.03	6.56	1.19
Johnson	4084	100y6hSCS	5.9	271.78	272.39	272.47	272.76	0.036436	2.76	2.35	5.27	1.25
Johnson	4084	50y6hSCS	5.3	271.78	272.35	272.43	272.71	0.037866	2.69	2.15	5.14	1.26
Johnson	4084	25y6hSCS	4.7	271.78	272.31	272.39	272.65	0.039887	2.63	1.94	4.99	1.28
Johnson	4084	10y6hSCS	3.8	271.78	272.24	272.32	272.56	0.043553	2.52	1.62	4.76	1.31
Johnson	4084	5y6hSCS	3.1	271.78	272.19	272.26	272.48	0.048148	2.42	1.36	4.56	1.35
Johnson	4084	2y6hSCS	2.1	271.78	272.11	272.17	272.34	0.049638	2.13	1.03	4.23	1.32
Johnson	4084	100y4hChicago	5.1	271.78	272.34	272.42	272.69	0.038506	2.67	2.08	5.09	1.27
Johnson	4084	2yrFlow100yrLake	2.1	271.78	272.11	272.17	272.34	0.049638	2.13	1.03	4.23	1.32
Johnson	4077	Timmins	10.9	271.47	272.17	272.36	272.83	0.056787	3.75	3.49	7.16	1.64
Johnson	4077	100y6hSCS	5.9	271.47	271.99	272.12	272.44	0.053745	3.06	2.27	6.52	1.53
Johnson	4077	50y6hSCS	5.3	271.47	271.97	272.09	272.38	0.052609	2.94	2.11	6.43	1.5
Johnson	4077	25y6hSCS	4.7	271.47	271.94	272.05	272.32	0.051447	2.81	1.94	6.27	1.47
Johnson	4077	10y6hSCS	3.8	271.47	271.9	271.99	272.22	0.049461	2.59	1.67	5.92	1.42
Johnson	4077	5y6hSCS	3.1	271.47	271.86	271.94	272.14	0.045682	2.36	1.48	5.64	1.35
Johnson	4077	2y6hSCS	2.1	271.47	271.89	271.85	272	0.015321	1.44	1.66	5.91	0.79
Johnson	4077	100y4hChicago	5.1	271.47	271.96	272.08	272.36	0.052218	2.9	2.05	6.39	1.49
Johnson	4077	2yrFlow100yrLake	2.1	271.47	271.89	271.85	272	0.015321	1.44	1.66	5.91	0.79
Johnson	4071	Timmins	10.9	271.55	272.15	272.15	272.48	0.047136	2.98	4.8	8.37	1.43
Johnson	4071	100y6hSCS	5.9	271.55	271.91	271.91	272.14	0.074459	2.5	2.9	7.71	1.64
Johnson	4071	50y6hSCS	5.3	271.55	271.89	271.89	272.1	0.074485	2.35	2.72	7.64	1.62
Johnson	4071	25y6hSCS	4.7	271.55	271.86	271.86	272.05	0.079024	2.21	2.49	7.56	1.63
Johnson	4071	10y6hSCS	3.8	271.55	271.81	271.81	271.98	0.083754	1.93	2.15	7.41	1.61
Johnson	4071	5y6hSCS	3.1	271.55	271.78	271.78	271.92	0.083071	1.63	1.9	7.24	1.54
Johnson	4071	2y6hSCS	2.1	271.55	271.72	271.72	271.82	0.081904	1.15	1.45	6.34	1.41
Johnson	4071	100y4hChicago	5.1	271.55	271.88	271.88	272.08	0.07715	2.31	2.63	7.61	1.63
Johnson	4071	2yrFlow100yrLake	2.1	271.55	271.72	271.72	271.82	0.081904	1.15	1.45	6.34	1.41
Johnson	4065	Timmins	10.9	270.73	271.44	271.63	272.06	0.077681	3.96	3.7	7.66	1.84
Johnson	4065	100y6hSCS	5.9	270.73	271.28	271.39	271.68	0.065265	3.16	2.55	6.88	1.63
Johnson	4065	50y6hSCS	5.3	270.73	271.25	271.37	271.63	0.066409	3.06	2.37	6.81	1.63
Johnson	4065	25y6hSCS	4.7	270.73	271.23	271.33	271.57	0.065557	2.93	2.19	6.73	1.6
Johnson	4065	10y6hSCS	3.8	270.73	271.18	271.27	271.49	0.065513	2.73	1.91	6.61	1.57
Johnson	4065	5y6hSCS	3.1	270.73	271.14	271.22	271.42	0.068725	2.59	1.64	6.49	1.58
Johnson	4065	2y6hSCS	2.1	270.73	271.08	271.14	271.31	0.075922	2.35	1.22	6.3	1.6
Johnson	4065	100y4hChicago	5.1	270.73	271.25	271.37	271.61	0.065847	3.02	2.31	6.78	1.61
Johnson	4065	2yrFlow100yrLake	2.1	270.73	271.08	271.14	271.31	0.075922	2.35	1.22	6.3	1.6
Johnson	4057	Timmins	10.9	270.14	270.99	271.13	271.47	0.060473	3.49	4.49	10.75	1.6
Johnson	4057	100y6hSCS	5.9	270.14	270.85	270.92	271.16	0.05961	2.77	2.99	9.99	1.51
Johnson	4057	50y6hSCS	5.3	270.14	270.83	270.9	271.11	0.056818	2.66	2.8	9.73	1.46
Johnson	4057	25y6hSCS	4.7	270.14	270.8	270.87	271.07	0.055028	2.57	2.57	9.44	1.43
Johnson	4057	10y6hSCS	3.8	270.14	270.77	270.83	271.01	0.051842	2.4	2.23	9.05	1.37
Johnson	4057	5y6hSCS	3.1	270.14	270.73	270.79	270.94	0.047744	2.22	1.95	8.73	1.3
Johnson	4057	2y6hSCS	2.1	270.14	270.67	270.72	270.83	0.044587	1.94	1.41	6.67	1.23
Johnson	4057	100y4hChicago	5.1	270.14	270.82	270.89	271.1	0.056369	2.63	2.72	9.63	1.45
Johnson	4057	2yrFlow100yrLake	2.1	270.14	270.67	270.72	270.83	0.044587	1.94	1.41	6.67	1.23
Johnson	4047.476	Timmins	10.9	269.46	270.19	270.41	270.91	0.059732	3.83	3.33	10.13	1.63
Johnson	4047.476	100y6hSCS	5.9	269.46	269.99	270.18	270.54	0.075408	3.29	1.81	5.61	1.72
Johnson	4047.476	50y6hSCS	5.3	269.46	269.95	270.12	270.49	0.081681	3.24	1.64	4.79	1.76
Johnson	4047.476	25y6hSCS	4.7	269.46	269.92	270.08	270.44	0.088629	3.18	1.48	4.69	1.81

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4047.476	10y6hSCS	3.8	269.46	269.87	270.02	270.35	0.101468	3.08	1.23	4.59	1.9
Johnson	4047.476	5y6hSCS	3.1	269.46	269.82	269.96	270.28	0.118491	3	1.03	4.51	2.01
Johnson	4047.476	2y6hSCS	2.1	269.46	269.76	269.87	270.16	0.139873	2.8	0.75	4.17	2.11
Johnson	4047.476	100y4hChicago	5.1	269.46	269.94	270.11	270.47	0.083544	3.22	1.59	4.76	1.78
Johnson	4047.476	2yrFlow100yrLake	2.1	269.46	269.76	269.87	270.16	0.139873	2.8	0.75	4.17	2.11
Johnson	4044	Timmins	10.9	269.25	269.73	269.97	270.55	0.156678	4.59	3.24	9.66	2.52
Johnson	4044	100y6hSCS	5.9	269.25	269.62	269.76	270.13	0.141418	3.64	2.23	8.56	2.29
Johnson	4044	50y6hSCS	5.3	269.25	269.6	269.74	270.06	0.134435	3.45	2.11	8.49	2.22
Johnson	4044	25y6hSCS	4.7	269.25	269.59	269.71	269.99	0.126062	3.23	2	8.42	2.13
Johnson	4044	10y6hSCS	3.8	269.25	269.57	269.66	269.89	0.111642	2.87	1.82	8.32	1.98
Johnson	4044	5y6hSCS	3.1	269.25	269.55	269.63	269.8	0.098903	2.56	1.66	8.19	1.84
Johnson	4044	2y6hSCS	2.1	269.25	269.51	269.56	269.68	0.081286	2.07	1.38	7.9	1.62
Johnson	4044	100y4hChicago	5.1	269.25	269.6	269.73	270.04	0.131849	3.38	2.08	8.47	2.19
Johnson	4044	2yrFlow100yrLake	2.1	269.25	269.51	269.56	269.68	0.081286	2.07	1.38	7.9	1.62
Johnson	4039	Timmins	10.9	269.06	269.76	269.76	270.07	0.046698	2.99	4.93	8.48	1.44
Johnson	4039	100y6hSCS	5.9	269.06	269.52	269.52	269.75	0.064704	2.63	3.03	7.52	1.58
Johnson	4039	50y6hSCS	5.3	269.06	269.48	269.48	269.7	0.06941	2.54	2.78	7.44	1.61
Johnson	4039	25y6hSCS	4.7	269.06	269.45	269.45	269.65	0.070756	2.42	2.57	7.33	1.6
Johnson	4039	10y6hSCS	3.8	269.06	269.4	269.4	269.57	0.080123	2.28	2.17	7.04	1.65
Johnson	4039	5y6hSCS	3.1	269.06	269.35	269.35	269.51	0.090777	2.13	1.84	6.8	1.7
Johnson	4039	2y6hSCS	2.1	269.06	269.29	269.29	269.4	0.09624	1.74	1.43	6.4	1.66
Johnson	4039	100y4hChicago	5.1	269.06	269.47	269.47	269.68	0.071643	2.52	2.69	7.41	1.62
Johnson	4039	2yrFlow100yrLake	2.1	269.06	269.29	269.29	269.4	0.09624	1.74	1.43	6.4	1.66
Johnson	4033	Timmins	10.9	268.2	268.93	269.12	269.62	0.123679	4.28	3.55	9.45	2.24
Johnson	4033	100y6hSCS	5.9	268.2	269.26	268.95	269.32	0.004225	1.16	7.2	12.28	0.46
Johnson	4033	50y6hSCS	5.3	268.2	269.07	268.94	269.15	0.010512	1.45	5.03	10.63	0.68
Johnson	4033	25y6hSCS	4.7	268.2	268.75	268.91	269.19	0.08172	3.32	2.09	7.53	1.79
Johnson	4033	10y6hSCS	3.8	268.2	268.71	268.83	269.1	0.076765	3.09	1.81	7.31	1.72
Johnson	4033	5y6hSCS	3.1	268.2	268.68	268.79	269.02	0.07314	2.87	1.58	7.16	1.65
Johnson	4033	2y6hSCS	2.1	268.2	268.61	268.71	268.9	0.074989	2.56	1.14	6.43	1.63
Johnson	4033	100y4hChicago	5.1	268.2	269.03	268.93	269.12	0.012693	1.51	4.63	10.51	0.74
Johnson	4033	2yrFlow100yrLake	2.1	268.2	268.61	268.71	268.9	0.074989	2.56	1.14	6.43	1.63
Johnson	4027	Timmins	10.9	267.83	268.63	268.66	268.92	0.082358	3.03	4.88	10.3	1.74
Johnson	4027	100y6hSCS	5.9	267.83	268.24	268.24	269.15	0.331934	5.91	1.69	5.83	3.4
Johnson	4027	50y6hSCS	5.3	267.83	268.26	268.26	268.92	0.232626	5.07	1.8	6.42	2.86
Johnson	4027	25y6hSCS	4.7	267.83	268.26	268.26	268.78	0.184811	4.51	1.79	6.38	2.55
Johnson	4027	10y6hSCS	3.8	267.83	268.25	268.25	268.61	0.126869	3.7	1.75	6.18	2.11
Johnson	4027	5y6hSCS	3.1	267.83	268.23	268.25	268.5	0.103188	3.24	1.62	5.43	1.89
Johnson	4027	2y6hSCS	2.1	267.83	268.15	268.21	268.37	0.105746	2.91	1.23	4.79	1.87
Johnson	4027	100y4hChicago	5.1	267.83	268.26	268.26	268.88	0.216057	4.89	1.8	6.41	2.75
Johnson	4027	2yrFlow100yrLake	2.1	267.83	268.15	268.21	268.37	0.105746	2.91	1.23	4.79	1.87
Johnson	4022	Timmins	10.9	267.47	268.06	268.18	268.48	0.069458	3.42	4.98	14.64	1.73
Johnson	4022	100y6hSCS	5.9	267.47	267.92	267.96	268.18	0.075508	2.69	3.1	11.91	1.68
Johnson	4022	50y6hSCS	5.3	267.47	267.9	267.93	268.14	0.070937	2.52	2.94	11.66	1.61
Johnson	4022	25y6hSCS	4.7	267.47	267.89	267.92	268.09	0.069264	2.37	2.74	11.4	1.57
Johnson	4022	10y6hSCS	3.8	267.47	267.85	267.88	268.02	0.073578	2.19	2.35	10.92	1.58
Johnson	4022	5y6hSCS	3.1	267.47	267.82	267.84	267.97	0.076411	2.01	2.04	10.6	1.57
Johnson	4022	2y6hSCS	2.1	267.47	267.77	267.79	267.89	0.093978	1.78	1.49	9.97	1.65
Johnson	4022	100y4hChicago	5.1	267.47	267.9	267.92	268.12	0.069991	2.47	2.88	11.57	1.6
Johnson	4022	2yrFlow100yrLake	2.1	267.47	267.77	267.79	267.89	0.093978	1.78	1.49	9.97	1.65
Johnson	4017	Timmins	10.9	267.04	267.46	267.59	267.89	0.283141	3.66	3.91	15.82	2.99
Johnson	4017	100y6hSCS	5.9	267.04	267.39	267.44	267.61	0.202147	2.5	2.95	14.03	2.4
Johnson	4017	50y6hSCS	5.3	267.04	267.37	267.42	267.58	0.212015	2.55	2.69	13.24	2.45
Johnson	4017	25y6hSCS	4.7	267.04	267.36	267.41	267.55	0.208782	2.48	2.48	12.6	2.42
Johnson	4017	10y6hSCS	3.8	267.04	267.34	267.38	267.49	0.180397	2.27	2.25	11.88	2.24
Johnson	4017	5y6hSCS	3.1	267.04	267.32	267.34	267.47	0.149455	2.67	2.01	10.45	2.17
Johnson	4017	2y6hSCS	2.1	267.04	267.29	267.33	267.39	0.113081	2.18	1.7	9.99	1.86
Johnson	4017	100y4hChicago	5.1	267.04	267.37	267.42	267.57	0.21247	2.55	2.61	13.01	2.45
Johnson	4017	2yrFlow100yrLake	2.1	267.04	267.29	267.33	267.39	0.113081	2.18	1.7	9.99	1.86
Johnson	4010	Timmins	10.9	266.17	266.91	267.01	267.27	0.04075	2.91	5.51	16.99	1.35

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	4010	100y6hSCS	5.9	266.17	266.77	266.84	267.03	0.045289	2.4	3.25	13.97	1.34
Johnson	4010	50y6hSCS	5.3	266.17	266.75	266.81	266.99	0.045728	2.32	2.98	13.44	1.33
Johnson	4010	25y6hSCS	4.7	266.17	266.73	266.79	266.95	0.046322	2.23	2.71	12.88	1.32
Johnson	4010	10y6hSCS	3.8	266.17	266.66	266.74	266.93	0.045735	2.35	1.99	9.04	1.33
Johnson	4010	5y6hSCS	3.1	266.17	266.61	266.72	266.88	0.054055	2.35	1.54	8.03	1.41
Johnson	4010	2y6hSCS	2.1	266.17	266.54	266.61	266.78	0.067605	2.19	1.02	6.71	1.51
Johnson	4010	100y4hChicago	5.1	266.17	266.74	266.8	266.98	0.046134	2.29	2.89	13.25	1.33
Johnson	4010	2yrFlow100yrLake	2.1	266.17	266.54	266.61	266.78	0.067605	2.19	1.02	6.71	1.51
Johnson	4001	Timmins	10.9	265.7	266.4	266.53	266.84	0.060662	3.22	4.31	13.31	1.62
Johnson	4001	100y6hSCS	5.9	265.7	266.21	266.31	266.57	0.060627	2.87	2.52	7.17	1.57
Johnson	4001	50y6hSCS	5.3	265.7	266.18	266.28	266.52	0.063678	2.81	2.31	7.05	1.59
Johnson	4001	25y6hSCS	4.7	265.7	266.15	266.24	266.48	0.064535	2.74	2.11	6.78	1.59
Johnson	4001	10y6hSCS	3.8	265.7	266.09	266.18	266.41	0.079001	2.73	1.71	6.49	1.71
Johnson	4001	5y6hSCS	3.1	265.7	266.06	266.14	266.35	0.069536	2.6	1.49	5.8	1.61
Johnson	4001	2y6hSCS	2.1	265.7	266	266.07	266.21	0.061987	2.18	1.2	5.6	1.48
Johnson	4001	100y4hChicago	5.1	265.7	266.17	266.27	266.51	0.063407	2.78	2.25	6.95	1.58
Johnson	4001	2yrFlow100yrLake	2.1	265.7	266	266.07	266.21	0.061987	2.18	1.2	5.6	1.48
Johnson	3993	Timmins	10.9	265.44	266.11	266.17	266.39	0.040139	2.71	6.36	19.57	1.31
Johnson	3993	100y6hSCS	5.9	265.44	266.02	266.04	266.18	0.028978	1.96	4.59	18.88	1.07
Johnson	3993	50y6hSCS	5.3	265.44	266.01	266.02	266.15	0.025467	1.81	4.45	18.84	1
Johnson	3993	25y6hSCS	4.7	265.44	265.99	266	266.12	0.025555	1.74	4.06	18.75	0.99
Johnson	3993	10y6hSCS	3.8	265.44	265.96	265.96	266.07	0.025657	1.62	3.45	18.61	0.98
Johnson	3993	5y6hSCS	3.1	265.44	265.93	265.93	266.03	0.025968	1.51	2.93	16.49	0.96
Johnson	3993	2y6hSCS	2.1	265.44	265.88	265.88	265.96	0.02802	1.35	2.12	15.13	0.96
Johnson	3993	100y4hChicago	5.1	265.44	266.01	266.01	266.14	0.024884	1.78	4.36	18.82	0.99
Johnson	3993	2yrFlow100yrLake	2.1	265.44	265.88	265.88	265.96	0.02802	1.35	2.12	15.13	0.96
Johnson	3986	Timmins	10.9	265.12	265.74	265.84	266.09	0.042004	2.97	5.79	18.55	1.39
Johnson	3986	100y6hSCS	5.9	265.12	265.59	265.68	265.88	0.054227	2.61	3.26	15.17	1.48
Johnson	3986	50y6hSCS	5.3	265.12	265.56	265.66	265.86	0.060126	2.6	2.88	14.79	1.54
Johnson	3986	25y6hSCS	4.7	265.12	265.54	265.62	265.83	0.063358	2.53	2.55	14.26	1.56
Johnson	3986	10y6hSCS	3.8	265.12	265.5	265.59	265.77	0.068993	2.41	2.08	13.14	1.59
Johnson	3986	5y6hSCS	3.1	265.12	265.47	265.54	265.72	0.074915	2.29	1.69	11.88	1.62
Johnson	3986	2y6hSCS	2.1	265.12	265.41	265.49	265.65	0.06742	2.23	1.06	6.97	1.54
Johnson	3986	100y4hChicago	5.1	265.12	265.55	265.65	265.85	0.061833	2.59	2.76	14.7	1.55
Johnson	3986	2yrFlow100yrLake	2.1	265.12	265.41	265.49	265.65	0.06742	2.23	1.06	6.97	1.54
Johnson	3978.521	Timmins	10.9	264.51	265.22	265.38	265.75	0.043257	3.28	3.96	10.57	1.39
Johnson	3978.521	100y6hSCS	5.9	264.51	265.02	265.16	265.44	0.057738	2.89	2.09	7.15	1.51
Johnson	3978.521	50y6hSCS	5.3	264.51	264.99	265.12	265.39	0.059544	2.82	1.89	6.16	1.52
Johnson	3978.521	25y6hSCS	4.7	264.51	264.96	265.07	265.34	0.061726	2.74	1.72	5.36	1.53
Johnson	3978.521	10y6hSCS	3.8	264.51	264.91	265.02	265.25	0.065212	2.58	1.47	5.16	1.54
Johnson	3978.521	5y6hSCS	3.1	264.51	264.87	264.96	265.17	0.067918	2.43	1.28	5.07	1.55
Johnson	3978.521	2y6hSCS	2.1	264.51	264.8	264.88	265.07	0.086698	2.28	0.92	4.91	1.68
Johnson	3978.521	100y4hChicago	5.1	264.51	264.98	265.1	265.38	0.060262	2.8	1.83	5.89	1.52
Johnson	3978.521	2yrFlow100yrLake	2.1	264.51	264.8	264.88	265.07	0.086698	2.28	0.92	4.91	1.68
Johnson	3974	Timmins	10.9	264.1	264.74	264.98	265.44	0.082929	3.94	3.53	9.79	1.91
Johnson	3974	100y6hSCS	5.9	264.1	264.6	264.75	265.09	0.090443	3.21	2.24	9.37	1.88
Johnson	3974	50y6hSCS	5.3	264.1	264.59	264.72	265.03	0.090678	3.09	2.08	9.31	1.86
Johnson	3974	25y6hSCS	4.7	264.1	264.57	264.69	264.98	0.088757	2.93	1.92	9.26	1.82
Johnson	3974	10y6hSCS	3.8	264.1	264.54	264.64	264.89	0.086232	2.68	1.66	9.18	1.76
Johnson	3974	5y6hSCS	3.1	264.1	264.52	264.6	264.81	0.081394	2.45	1.45	8.92	1.69
Johnson	3974	2y6hSCS	2.1	264.1	264.46	264.54	264.7	0.062743	2.21	1.05	5.29	1.49
Johnson	3974	100y4hChicago	5.1	264.1	264.58	264.71	265.02	0.089934	3.03	2.03	9.29	1.85
Johnson	3974	2yrFlow100yrLake	2.1	264.1	264.46	264.54	264.7	0.062743	2.21	1.05	5.29	1.49
Johnson	3964	Timmins	10.9	263.35	264.01	264.13	264.56	0.091782	3.86	3.98	10.09	1.94
Johnson	3964	100y6hSCS	5.9	263.35	263.86	263.91	264.18	0.088572	2.96	2.64	7.73	1.79
Johnson	3964	50y6hSCS	5.3	263.35	263.84	263.9	264.13	0.088272	2.84	2.45	7.42	1.77
Johnson	3964	25y6hSCS	4.7	263.35	263.79	263.87	264.13	0.083623	3.11	2.12	5.94	1.77
Johnson	3964	10y6hSCS	3.8	263.35	263.74	263.82	264.03	0.087984	2.92	1.83	5.82	1.77
Johnson	3964	5y6hSCS	3.1	263.35	263.7	263.75	263.96	0.094365	2.75	1.58	5.71	1.8
Johnson	3964	2y6hSCS	2.1	263.35	263.61	263.68	263.84	0.13567	2.6	1.12	5.51	2.04
Johnson	3964	100y4hChicago	5.1	263.35	263.82	263.9	264.12	0.088528	2.87	2.34	7	1.78

Creek	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson	3964	2yrFlow100yrLake	2.1	263.35	263.61	263.68	263.84	0.13567	2.6	1.12	5.51	2.04
Johnson	3958	Timmins	10.9	263.1	263.53	263.58	263.83	0.119588	3.17	4.65	10.38	2.07
Johnson	3958	100y6hSCS	5.9	263.1	263.42	263.38	263.57	0.083742	2.21	3.52	9.6	1.65
Johnson	3958	50y6hSCS	5.3	263.1	263.39	263.36	263.53	0.083344	2.11	3.3	9.47	1.63
Johnson	3958	25y6hSCS	4.7	263.1	263.36	263.33	263.49	0.088419	2	3.01	9.34	1.64
Johnson	3958	10y6hSCS	3.8	263.1	263.32	263.29	263.43	0.091814	1.74	2.61	9.17	1.61
Johnson	3958	5y6hSCS	3.1	263.1	263.28	263.26	263.38	0.097542	1.48	2.26	9.01	1.59
Johnson	3958	2y6hSCS	2.1	263.1	263.22	263.2	263.3	0.11362	0.92	1.7	8.71	1.49
Johnson	3958	100y4hChicago	5.1	263.1	263.39	263.35	263.52	0.082965	2.07	3.22	9.43	1.62
Johnson	3958	2yrFlow100yrLake	2.1	263.1	263.22	263.2	263.3	0.11362	0.92	1.7	8.71	1.49
Johnson	3951	Timmins	10.9	263.56	263.1	263.03	263.25	0.080099		6.32	13.88	0
Johnson	3951	100y6hSCS	5.9	263.56	262.96	262.89	263.05	0.074665		4.38	13.24	0
Johnson	3951	50y6hSCS	5.3	263.56	262.94	262.86	263.02	0.073525		4.12	13.19	0
Johnson	3951	25y6hSCS	4.7	263.56	262.89	262.83	262.98	0.071213		3.44	12.04	0
Johnson	3951	10y6hSCS	3.8	263.56	262.84	262.76	262.93	0.068248		2.95	10.65	0
Johnson	3951	5y6hSCS	3.1	263.56	262.8	262.71	262.87	0.065215		2.51	9.04	0
Johnson	3951	2y6hSCS	2.1	263.56	262.71	262.63	262.78	0.061912		1.87	6.86	0
Johnson	3951	100y4hChicago	5.1	263.56	262.93	262.85	263.01	0.073265		4.02	13.16	0
Johnson	3951	2yrFlow100yrLake	2.1	263.56	262.71	262.63	262.78	0.061912		1.87	6.86	0
Johnson	3945	Timmins	10.9	263.23	262.45	262.45	262.66	0.123754		5.36	12.72	0
Johnson	3945	100y6hSCS	5.9	263.23	262.29	262.29	262.44	0.141531		3.48	12	0
Johnson	3945	50y6hSCS	5.3	263.23	262.27	262.27	262.41	0.147912		3.2	11.86	0
Johnson	3945	25y6hSCS	4.7	263.23	262.25	262.25	262.38	0.14832		2.94	11.51	0
Johnson	3945	10y6hSCS	3.8	263.23	262.21	262.21	262.33	0.156882		2.49	10.86	0
Johnson	3945	5y6hSCS	3.1	263.23	262.18	262.18	262.28	0.163853		2.14	10.53	0
Johnson	3945	2y6hSCS	2.1	263.23	262.12	262.12	262.21	0.160283		1.6	9.24	0
Johnson	3945	100y4hChicago	5.1	263.23	262.26	262.26	262.4	0.149267		3.11	11.81	0
Johnson	3945	2yrFlow100yrLake	2.1	263.23	262.12	262.12	262.21	0.160283		1.6	9.24	0
Johnson	3938	Timmins	10.9	262.45	261.77	261.6	261.91	0.046238		6.69	10.51	0
Johnson	3938	100y6hSCS	5.9	262.45	261.58	261.4	261.66	0.0382		4.72	9.6	0
Johnson	3938	50y6hSCS	5.3	262.45	261.55	261.37	261.62	0.037754		4.41	9.44	0
Johnson	3938	25y6hSCS	4.7	262.45	261.51	261.31	261.58	0.036875		4.1	9.26	0
Johnson	3938	10y6hSCS	3.8	262.45	261.46	261.25	261.51	0.035386		3.61	8.97	0
Johnson	3938	5y6hSCS	3.1	262.45	261.4	261.21	261.45	0.03595		3.14	8.68	0
Johnson	3938	2y6hSCS	2.1	262.45	261.28	261.13	261.33	0.034188		2.2	6.15	0
Johnson	3938	100y4hChicago	5.1	262.45	261.53	261.36	261.61	0.037316		4.32	9.38	0
Johnson	3938	2yrFlow100yrLake	2.1	262.45	261.28	261.13	261.33	0.034188		2.2	6.15	0
Johnson	3931	Timmins	10.9	262.09	261.24	261.2	261.45	0.094413		5.38	10.47	0
Johnson	3931	100y6hSCS	5.9	262.09	261.02	261.01	261.19	0.133261		3.18	9.23	0
Johnson	3931	50y6hSCS	5.3	262.09	260.99	260.99	261.16	0.138657		2.93	9.14	0
Johnson	3931	25y6hSCS	4.7	262.09	260.96	260.96	261.12	0.141787		2.7	9.06	0
Johnson	3931	10y6hSCS	3.8	262.09	260.92	260.92	261.06	0.149199		2.32	8.92	0
Johnson	3931	5y6hSCS	3.1	262.09	260.83	260.83	261	0.135824		1.7	5.12	0
Johnson	3931	2y6hSCS	2.1	262.09	260.75	260.75	260.88	0.144095		1.28	4.74	0
Johnson	3931	100y4hChicago	5.1	262.09	260.98	260.98	261.14	0.139867		2.86	9.11	0
Johnson	3931	2yrFlow100yrLake	2.1	262.09	260.75	260.75	260.88	0.144095		1.28	4.74	0
Johnson	3926	Timmins	10.9	261.3	261.04		261.15	0.035669		7.31	10.78	0
Johnson	3926	100y6hSCS	5.9	261.3	260.79		260.87	0.032746		4.89	9.3	0
Johnson	3926	50y6hSCS	5.3	261.3	260.76	260.56	260.83	0.032128		4.58	9.15	0
Johnson	3926	25y6hSCS	4.7	261.3	260.72	260.53	260.79	0.031978		4.24	9	0
Johnson	3926	10y6hSCS	3.8	261.3	260.66	260.48	260.72	0.031199		3.7	8.64	0
Johnson	3926	5y6hSCS	3.1	261.3	260.61	260.44	260.66	0.03026		3.25	8.32	0
Johnson	3926	2y6hSCS	2.1	261.3	260.51	260.37	260.55	0.031338		2.47	7.73	0
Johnson	3926	100y4hChicago	5.1	261.3	260.75	260.55	260.81	0.032341		4.45	9.1	0
Johnson	3926	2yrFlow100yrLake	2.1	261.3	260.51	260.37	260.55	0.031338		2.47	7.73	0
Johnson	3919	Timmins	10.9	260.69	260.44	260.44	260.7	0.118786		4.79	9.3	0
Johnson	3919	100y6hSCS	5.9	260.69	260.24	260.24	260.43	0.130598		3.02	7.93	0
Johnson	3919	50y6hSCS	5.3	260.69	260.21	260.21	260.39	0.13526		2.79	7.85	0
Johnson	3919	25y6hSCS	4.7	260.69	260.18	260.18	260.35	0.136794		2.57	7.77	0
Johnson	3919	10y6hSCS	3.8	260.69	260.13	260.13	260.28	0.142602		2.22	7.61	0

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3919	5y6hSCS	3.1	260.69	260.09	260.09	260.23	0.149219		1.92	7.45	0
Johnson	3919	2y6hSCS	2.1	260.69	260.02	260.02	260.13	0.124933		1.38	5.87	0
Johnson	3919	100y4hChicago	5.1	260.69	260.2	260.2	260.38	0.133596		2.73	7.83	0
Johnson	3919	2yrFlow100yrLake	2.1	260.69	260.02	260.02	260.13	0.124933		1.38	5.87	0
Johnson	3913	Timmins	10.9	259.49	260.02	259.82	260.16	0.041394	1.75	6.67	10.32	1.13
Johnson	3913	100y6hSCS	5.9	259.49	259.82	259.63	259.9	0.033165	1.31	4.77	9.19	0.94
Johnson	3913	50y6hSCS	5.3	259.49	259.79	259.61	259.86	0.031725	1.22	4.5	9.04	0.91
Johnson	3913	25y6hSCS	4.7	259.49	259.76	259.58	259.82	0.031872	1.14	4.17	8.94	0.9
Johnson	3913	10y6hSCS	3.8	259.49	259.71	259.54	259.76	0.028409	0.97	3.77	8.77	0.83
Johnson	3913	5y6hSCS	3.1	259.49	259.66	259.49	259.71	0.027723	0.84	3.35	8.66	0.8
Johnson	3913	2y6hSCS	2.1	259.49	259.59	259.4	259.62	0.023842	0.6	2.76	8.52	0.7
Johnson	3913	100y4hChicago	5.1	259.49	259.78	259.6	259.85	0.031722	1.19	4.39	8.98	0.91
Johnson	3913	2yrFlow100yrLake	2.1	259.49	259.59	259.4	259.62	0.023842	0.6	2.76	8.52	0.7
Johnson	3906.493	Timmins	10.9	259.08	259.64	259.64	259.9	0.035026	2.74	6	13.65	1.26
Johnson	3906.493	100y6hSCS	5.9	259.08	259.45	259.45	259.63	0.049153	2.31	3.68	11.48	1.38
Johnson	3906.493	50y6hSCS	5.3	259.08	259.42	259.42	259.59	0.052838	2.25	3.37	11.28	1.4
Johnson	3906.493	25y6hSCS	4.7	259.08	259.4	259.4	259.55	0.051068	2.11	3.17	11.22	1.37
Johnson	3906.493	10y6hSCS	3.8	259.08	259.36	259.36	259.49	0.060672	2.02	2.66	11.08	1.45
Johnson	3906.493	5y6hSCS	3.1	259.08	259.33	259.33	259.44	0.06159	1.86	2.34	10.89	1.43
Johnson	3906.493	2y6hSCS	2.1	259.08	259.27	259.27	259.36	0.079024	1.68	1.72	10.47	1.53
Johnson	3906.493	100y4hChicago	5.1	259.08	259.41	259.41	259.58	0.052309	2.2	3.31	11.26	1.39
Johnson	3906.493	2yrFlow100yrLake	2.1	259.08	259.27	259.27	259.36	0.079024	1.68	1.72	10.47	1.53
Johnson	3902	Timmins	10.9	258.3	258.96	259.15	259.61	0.088744	4.07	3.61	7.8	1.94
Johnson	3902	100y6hSCS	5.9	258.3	258.77	258.94	259.28	0.106491	3.58	2.25	7	2.02
Johnson	3902	50y6hSCS	5.3	258.3	258.75	258.9	259.22	0.109325	3.46	2.08	6.94	2.03
Johnson	3902	25y6hSCS	4.7	258.3	258.72	258.86	259.18	0.120392	3.41	1.87	6.87	2.1
Johnson	3902	10y6hSCS	3.8	258.3	258.68	258.8	259.08	0.125563	3.19	1.62	6.78	2.1
Johnson	3902	5y6hSCS	3.1	258.3	258.64	258.75	259.01	0.138174	3.04	1.39	6.7	2.15
Johnson	3902	2y6hSCS	2.1	258.3	258.6	258.68	258.87	0.137679	2.64	1.07	6.33	2.08
Johnson	3902	100y4hChicago	5.1	258.3	258.74	258.87	259.21	0.112819	3.45	2.01	6.91	2.05
Johnson	3902	2yrFlow100yrLake	2.1	258.3	258.6	258.68	258.87	0.137679	2.64	1.07	6.33	2.08
Johnson	3895	Timmins	10.9	257.81	258.43	258.65	259.09	0.07054	3.82	3.55	8.89	1.79
Johnson	3895	100y6hSCS	5.9	257.81	258.3	258.41	258.7	0.06641	2.96	2.41	8.27	1.64
Johnson	3895	50y6hSCS	5.3	257.81	258.28	258.38	258.65	0.064329	2.81	2.27	8.2	1.6
Johnson	3895	25y6hSCS	4.7	257.81	258.26	258.35	258.59	0.060401	2.64	2.13	8.13	1.54
Johnson	3895	10y6hSCS	3.8	257.81	258.23	258.3	258.51	0.057453	2.44	1.86	7.9	1.48
Johnson	3895	5y6hSCS	3.1	257.81	258.2	258.27	258.44	0.052866	2.24	1.64	7.64	1.41
Johnson	3895	2y6hSCS	2.1	257.81	258.15	258.2	258.33	0.050042	1.93	1.25	7.08	1.33
Johnson	3895	100y4hChicago	5.1	257.81	258.27	258.37	258.63	0.06315	2.76	2.22	8.18	1.58
Johnson	3895	2yrFlow100yrLake	2.1	257.81	258.15	258.2	258.33	0.050042	1.93	1.25	7.08	1.33
Johnson	3890	Timmins	10.9	257.46	258.19	258.35	258.77	0.050225	3.45	3.57	8.42	1.52
Johnson	3890	100y6hSCS	5.9	257.46	258.03	258.13	258.4	0.052132	2.74	2.32	7.11	1.45
Johnson	3890	50y6hSCS	5.3	257.46	258	258.09	258.35	0.053084	2.64	2.15	7.02	1.45
Johnson	3890	25y6hSCS	4.7	257.46	257.97	258.06	258.3	0.055518	2.55	1.96	6.91	1.46
Johnson	3890	10y6hSCS	3.8	257.46	257.93	258.01	258.22	0.058472	2.39	1.68	6.74	1.47
Johnson	3890	5y6hSCS	3.1	257.46	257.9	257.97	258.15	0.062352	2.25	1.44	6.59	1.48
Johnson	3890	2y6hSCS	2.1	257.46	257.85	257.9	258.04	0.066354	1.96	1.11	6.38	1.46
Johnson	3890	100y4hChicago	5.1	257.46	257.99	258.08	258.33	0.053682	2.61	2.09	6.99	1.45
Johnson	3890	2yrFlow100yrLake	2.1	257.46	257.85	257.9	258.04	0.066354	1.96	1.11	6.38	1.46
Johnson	3884	Timmins	10.9	257.23	257.92	258.05	258.38	0.072999	3.39	4.25	11.98	1.74
Johnson	3884	100y6hSCS	5.9	257.23	257.8	257.85	258.05	0.053232	2.52	3.01	9.12	1.44
Johnson	3884	50y6hSCS	5.3	257.23	257.78	257.83	258.01	0.049818	2.42	2.83	8.74	1.39
Johnson	3884	25y6hSCS	4.7	257.23	257.76	257.81	257.97	0.046152	2.28	2.66	8.51	1.33
Johnson	3884	10y6hSCS	3.8	257.23	257.72	257.74	257.9	0.04186	2.08	2.37	8.06	1.25
Johnson	3884	5y6hSCS	3.1	257.23	257.69	257.7	257.84	0.037982	1.91	2.12	7.49	1.18
Johnson	3884	2y6hSCS	2.1	257.23	257.61	257.61	257.74	0.03603	1.8	1.58	6.27	1.14
Johnson	3884	100y4hChicago	5.1	257.23	257.77	257.83	258	0.048874	2.38	2.77	8.66	1.37
Johnson	3884	2yrFlow100yrLake	2.1	257.23	257.61	257.61	257.74	0.03603	1.8	1.58	6.27	1.14
Johnson	3877	Timmins	10.9	257.03	257.52	257.57	257.84	0.065533	3	4.85	11.48	1.63
Johnson	3877	100y6hSCS	5.9	257.03	257.37	257.39	257.57	0.079837	2.39	3.19	10.96	1.66

Creek	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson	3877	50y6hSCS	5.3	257.03	257.34	257.37	257.54	0.086399	2.31	2.92	10.83	1.7
Johnson	3877	25y6hSCS	4.7	257.03	257.32	257.34	257.5	0.094639	2.22	2.65	10.63	1.74
Johnson	3877	10y6hSCS	3.8	257.03	257.27	257.3	257.44	0.106616	2.13	2.21	9.78	1.8
Johnson	3877	5y6hSCS	3.1	257.03	257.24	257.26	257.39	0.12174	2.01	1.85	9.08	1.87
Johnson	3877	2y6hSCS	2.1	257.03	257.19	257.2	257.3	0.122782	1.59	1.42	8.04	1.77
Johnson	3877	100y4hChicago	5.1	257.03	257.34	257.36	257.52	0.088376	2.28	2.84	10.78	1.71
Johnson	3877	2yrFlow100yrLake	2.1	257.03	257.19	257.2	257.3	0.122782	1.59	1.42	8.04	1.77
Johnson	3871	Timmins	10.9	256.07	256.8	257.01	257.46	0.052532	3.67	3.49	8.54	1.53
Johnson	3871	100y6hSCS	5.9	256.07	256.59	256.75	257.1	0.067288	3.2	1.93	5.38	1.63
Johnson	3871	50y6hSCS	5.3	256.07	256.56	256.72	257.04	0.069033	3.1	1.78	5.27	1.64
Johnson	3871	25y6hSCS	4.7	256.07	256.53	256.68	256.98	0.070669	2.99	1.63	5.13	1.64
Johnson	3871	10y6hSCS	3.8	256.07	256.48	256.59	256.88	0.07544	2.82	1.39	4.95	1.66
Johnson	3871	5y6hSCS	3.1	256.07	256.45	256.55	256.79	0.076418	2.62	1.21	4.83	1.64
Johnson	3871	2y6hSCS	2.1	256.07	256.38	256.46	256.66	0.087291	2.36	0.9	4.6	1.68
Johnson	3871	100y4hChicago	5.1	256.07	256.55	256.7	257.02	0.069765	3.07	1.73	5.23	1.64
Johnson	3871	2yrFlow100yrLake	2.1	256.07	256.38	256.46	256.66	0.087291	2.36	0.9	4.6	1.68
Johnson	3863	Timmins	10.9	255.79	256.44	256.59	256.97	0.05588	3.22	3.4	8.09	1.55
Johnson	3863	100y6hSCS	5.9	255.79	256.31	256.39	256.61	0.040461	2.42	2.44	6.75	1.28
Johnson	3863	50y6hSCS	5.3	255.79	256.3	256.36	256.56	0.038098	2.29	2.31	6.62	1.24
Johnson	3863	25y6hSCS	4.7	255.79	256.27	256.32	256.51	0.035644	2.16	2.18	6.48	1.19
Johnson	3863	10y6hSCS	3.8	255.79	256.24	256.26	256.43	0.031973	1.95	1.95	6.24	1.11
Johnson	3863	5y6hSCS	3.1	255.79	256.2	256.22	256.37	0.029525	1.78	1.74	6.04	1.06
Johnson	3863	2y6hSCS	2.1	255.79	256.11	256.14	256.27	0.041721	1.74	1.2	5.62	1.2
Johnson	3863	100y4hChicago	5.1	255.79	256.29	256.35	256.55	0.037411	2.25	2.27	6.57	1.22
Johnson	3863	2yrFlow100yrLake	2.1	255.79	256.11	256.14	256.27	0.041721	1.74	1.2	5.62	1.2
Johnson	3857	Timmins	10.9	255.35	256.03	256.21	256.62	0.068713	3.38	3.22	7.94	1.69
Johnson	3857	100y6hSCS	5.9	255.35	255.87	256.01	256.3	0.070483	2.92	2.02	6.25	1.64
Johnson	3857	50y6hSCS	5.3	255.35	255.84	255.98	256.26	0.069852	2.89	1.83	5.7	1.63
Johnson	3857	25y6hSCS	4.7	255.35	255.81	255.95	256.21	0.073855	2.82	1.66	5.61	1.66
Johnson	3857	10y6hSCS	3.8	255.35	255.76	255.89	256.14	0.084841	2.73	1.39	5.5	1.73
Johnson	3857	5y6hSCS	3.1	255.35	255.72	255.82	256.07	0.095792	2.63	1.18	5.41	1.8
Johnson	3857	2y6hSCS	2.1	255.35	255.68	255.75	255.93	0.089294	2.24	0.94	5.25	1.69
Johnson	3857	100y4hChicago	5.1	255.35	255.83	255.97	256.25	0.071244	2.87	1.78	5.67	1.64
Johnson	3857	2yrFlow100yrLake	2.1	255.35	255.68	255.75	255.93	0.089294	2.24	0.94	5.25	1.69
Johnson	3852	Timmins	10.9	254.94	255.54	255.75	256.25	0.082435	3.74	2.91	7.11	1.87
Johnson	3852	100y6hSCS	5.9	254.94	255.37	255.54	255.91	0.095069	3.26	1.81	6.09	1.91
Johnson	3852	50y6hSCS	5.3	254.94	255.35	255.51	255.87	0.100041	3.19	1.66	5.98	1.93
Johnson	3852	25y6hSCS	4.7	254.94	255.32	255.47	255.8	0.100779	3.07	1.53	5.89	1.92
Johnson	3852	10y6hSCS	3.8	254.94	255.29	255.42	255.71	0.094344	2.9	1.31	5.21	1.85
Johnson	3852	5y6hSCS	3.1	254.94	255.25	255.37	255.63	0.094072	2.7	1.15	5.08	1.82
Johnson	3852	2y6hSCS	2.1	254.94	255.2	255.29	255.49	0.096986	2.38	0.88	4.88	1.78
Johnson	3852	100y4hChicago	5.1	254.94	255.34	255.5	255.85	0.100306	3.15	1.62	5.95	1.93
Johnson	3852	2yrFlow100yrLake	2.1	254.94	255.2	255.29	255.49	0.096986	2.38	0.88	4.88	1.78
Johnson	3846.215	Timmins	10.9	254.64	255.34	255.46	255.81	0.044026	3.03	3.61	7.83	1.39
Johnson	3846.215	100y6hSCS	5.9	254.64	255.19	255.25	255.47	0.038425	2.35	2.51	6.88	1.24
Johnson	3846.215	50y6hSCS	5.3	254.64	255.17	255.22	255.43	0.037169	2.24	2.36	6.78	1.21
Johnson	3846.215	25y6hSCS	4.7	254.64	255.15	255.19	255.38	0.03565	2.13	2.21	6.68	1.18
Johnson	3846.215	10y6hSCS	3.8	254.64	255.1	255.13	255.3	0.035601	1.98	1.92	6.48	1.16
Johnson	3846.215	5y6hSCS	3.1	254.64	255.07	255.09	255.24	0.033075	1.8	1.72	6.34	1.1
Johnson	3846.215	2y6hSCS	2.1	254.64	255.01	255.02	255.14	0.032461	1.56	1.35	6.07	1.06
Johnson	3846.215	100y4hChicago	5.1	254.64	255.16	255.21	255.41	0.036682	2.21	2.31	6.75	1.2
Johnson	3846.215	2yrFlow100yrLake	2.1	254.64	255.01	255.02	255.14	0.032461	1.56	1.35	6.07	1.06
Johnson	3841	Timmins	10.9	254.46	255.04	255.19	255.54	0.055643	3.13	3.61	10.2	1.56
Johnson	3841	100y6hSCS	5.9	254.46	254.9	255	255.23	0.050548	2.53	2.35	7.67	1.42
Johnson	3841	50y6hSCS	5.3	254.46	254.88	254.97	255.18	0.050559	2.45	2.17	7.29	1.41
Johnson	3841	25y6hSCS	4.7	254.46	254.85	254.94	255.14	0.051146	2.36	1.99	6.95	1.4
Johnson	3841	10y6hSCS	3.8	254.46	254.81	254.88	255.06	0.051915	2.22	1.71	6.6	1.39
Johnson	3841	5y6hSCS	3.1	254.46	254.78	254.84	255	0.05361	2.1	1.48	6.38	1.39
Johnson	3841	2y6hSCS	2.1	254.46	254.72	254.77	254.9	0.057079	1.87	1.12	6.02	1.38
Johnson	3841	100y4hChicago	5.1	254.46	254.87	254.96	255.17	0.051273	2.43	2.1	7.17	1.42
Johnson	3841	2yrFlow100yrLake	2.1	254.46	254.72	254.77	254.9	0.057079	1.87	1.12	6.02	1.38

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3836	Timmins	10.9	253.88	254.58	254.77	255.17	0.075054	3.41	3.31	10.32	1.77
Johnson	3836	100y6hSCS	5.9	253.88	254.41	254.57	254.87	0.077921	3	1.97	6.44	1.73
Johnson	3836	50y6hSCS	5.3	253.88	254.39	254.55	254.83	0.07867	2.94	1.81	6.14	1.73
Johnson	3836	25y6hSCS	4.7	253.88	254.36	254.49	254.78	0.079351	2.86	1.64	5.85	1.72
Johnson	3836	10y6hSCS	3.8	253.88	254.32	254.44	254.7	0.080153	2.74	1.39	5.31	1.71
Johnson	3836	5y6hSCS	3.1	253.88	254.27	254.39	254.63	0.081825	2.63	1.18	4.87	1.7
Johnson	3836	2y6hSCS	2.1	253.88	254.21	254.3	254.5	0.088835	2.36	0.89	4.61	1.71
Johnson	3836	100y4hChicago	5.1	253.88	254.38	254.52	254.81	0.078284	2.9	1.76	6.04	1.72
Johnson	3836	2yrFlow100yrLake	2.1	253.88	254.21	254.3	254.5	0.088835	2.36	0.89	4.61	1.71
Johnson	3832	Timmins	10.9	253.41	254.21	254.43	254.86	0.074964	3.8	3.77	10.49	1.76
Johnson	3832	100y6hSCS	5.9	253.41	254.04	254.22	254.55	0.077736	3.26	2.17	8.01	1.72
Johnson	3832	50y6hSCS	5.3	253.41	254.02	254.18	254.5	0.079599	3.16	1.98	7.48	1.72
Johnson	3832	25y6hSCS	4.7	253.41	253.99	254.14	254.44	0.082214	3.06	1.79	7.22	1.73
Johnson	3832	10y6hSCS	3.8	253.41	253.95	254.08	254.35	0.086227	2.88	1.5	6.81	1.74
Johnson	3832	5y6hSCS	3.1	253.41	253.92	254.02	254.27	0.088897	2.7	1.27	6.47	1.73
Johnson	3832	2y6hSCS	2.1	253.41	253.86	253.94	254.14	0.083515	2.35	0.95	5.7	1.64
Johnson	3832	100y4hChicago	5.1	253.41	254.01	254.16	254.48	0.080782	3.13	1.91	7.39	1.73
Johnson	3832	2yrFlow100yrLake	2.1	253.41	253.86	253.94	254.14	0.083515	2.35	0.95	5.7	1.64
Johnson	3827	Timmins	10.9	253.08	253.57	253.8	254.41	0.124964	4.1	2.95	11.88	2.24
Johnson	3827	100y6hSCS	5.9	253.08	253.44	253.63	254.08	0.133614	3.56	1.66	6.45	2.22
Johnson	3827	50y6hSCS	5.3	253.08	253.42	253.61	254.02	0.136673	3.45	1.54	6.26	2.22
Johnson	3827	25y6hSCS	4.7	253.08	253.4	253.58	253.96	0.139161	3.32	1.41	6.19	2.22
Johnson	3827	10y6hSCS	3.8	253.08	253.37	253.53	253.85	0.141962	3.09	1.23	6.09	2.2
Johnson	3827	5y6hSCS	3.1	253.08	253.34	253.46	253.77	0.144749	2.89	1.07	6.01	2.18
Johnson	3827	2y6hSCS	2.1	253.08	253.3	253.39	253.63	0.156656	2.56	0.82	5.87	2.18
Johnson	3827	100y4hChicago	5.1	253.08	253.41	253.6	254	0.137503	3.41	1.5	6.24	2.22
Johnson	3827	2yrFlow100yrLake	2.1	253.08	253.3	253.39	253.63	0.156656	2.56	0.82	5.87	2.18
Johnson	3822	Timmins	10.9	252.52	253.29	253.47	253.88	0.074497	3.44	3.44	10.95	1.76
Johnson	3822	100y6hSCS	5.9	252.52	253.12	253.28	253.6	0.064261	3.07	1.98	6.35	1.62
Johnson	3822	50y6hSCS	5.3	252.52	253.1	253.25	253.55	0.06342	2.98	1.82	5.98	1.6
Johnson	3822	25y6hSCS	4.7	252.52	253.07	253.22	253.49	0.062033	2.87	1.66	5.58	1.57
Johnson	3822	10y6hSCS	3.8	252.52	253.02	253.17	253.39	0.061132	2.7	1.41	4.47	1.54
Johnson	3822	5y6hSCS	3.1	252.52	252.97	253.08	253.31	0.060945	2.56	1.21	4.15	1.52
Johnson	3822	2y6hSCS	2.1	252.52	252.9	252.98	253.17	0.061201	2.29	0.92	3.74	1.48
Johnson	3822	100y4hChicago	5.1	252.52	253.09	253.24	253.53	0.062643	2.94	1.77	5.86	1.58
Johnson	3822	2yrFlow100yrLake	2.1	252.52	252.9	252.98	253.17	0.061201	2.29	0.92	3.74	1.48
Johnson	3816	Timmins	10.9	252.14	252.61	252.85	253.38	0.106207	3.89	2.8	8.03	2.09
Johnson	3816	100y6hSCS	5.9	252.14	252.46	252.64	253.09	0.141948	3.51	1.68	6.92	2.28
Johnson	3816	50y6hSCS	5.3	252.14	252.44	252.62	253.03	0.145203	3.41	1.55	6.83	2.28
Johnson	3816	25y6hSCS	4.7	252.14	252.42	252.59	252.98	0.149244	3.3	1.43	6.73	2.29
Johnson	3816	10y6hSCS	3.8	252.14	252.39	252.53	252.88	0.15535	3.09	1.23	6.6	2.29
Johnson	3816	5y6hSCS	3.1	252.14	252.37	252.49	252.8	0.159603	2.89	1.07	6.49	2.27
Johnson	3816	2y6hSCS	2.1	252.14	252.33	252.43	252.66	0.16181	2.51	0.84	6.33	2.21
Johnson	3816	100y4hChicago	5.1	252.14	252.44	252.61	253.02	0.146569	3.37	1.51	6.8	2.28
Johnson	3816	2yrFlow100yrLake	2.1	252.14	252.33	252.43	252.66	0.16181	2.51	0.84	6.33	2.21
Johnson	3812	Timmins	10.9	251.8	252.58	252.69	252.99	0.048561	2.9	4.18	12.66	1.44
Johnson	3812	100y6hSCS	5.9	251.8	252.46	252.52	252.71	0.037694	2.19	2.81	11.58	1.22
Johnson	3812	50y6hSCS	5.3	251.8	252.45	252.49	252.66	0.03502	2.06	2.65	11.02	1.17
Johnson	3812	25y6hSCS	4.7	251.8	252.43	252.46	252.62	0.032524	1.93	2.47	10.13	1.12
Johnson	3812	10y6hSCS	3.8	251.8	252.37	252.39	252.55	0.029865	1.92	1.98	6.1	1.08
Johnson	3812	5y6hSCS	3.1	251.8	252.32	252.33	252.49	0.028427	1.81	1.71	5.53	1.04
Johnson	3812	2y6hSCS	2.1	251.8	252.2	252.21	252.37	0.030387	1.81	1.16	3.92	1.06
Johnson	3812	100y4hChicago	5.1	251.8	252.44	252.48	252.65	0.033675	2	2.61	10.83	1.14
Johnson	3812	2yrFlow100yrLake	2.1	251.8	252.2	252.21	252.37	0.030387	1.81	1.16	3.92	1.06
Johnson	3808	Timmins	10.9	251.53	252.24	252.39	252.74	0.073099	3.23	3.93	12.98	1.72
Johnson	3808	100y6hSCS	5.9	251.53	252.09	252.22	252.47	0.077859	2.81	2.34	9	1.7
Johnson	3808	50y6hSCS	5.3	251.53	252.07	252.17	252.44	0.077703	2.76	2.13	8.53	1.69
Johnson	3808	25y6hSCS	4.7	251.53	252.04	252.15	252.41	0.073146	2.75	1.9	7.54	1.65
Johnson	3808	10y6hSCS	3.8	251.53	251.98	252.11	252.35	0.06809	2.73	1.52	6.25	1.6
Johnson	3808	5y6hSCS	3.1	251.53	251.94	252.07	252.29	0.07042	2.65	1.25	5.78	1.61

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3808	2y6hSCS	2.1	251.53	251.86	251.96	252.16	0.073029	2.42	0.87	4.19	1.6
Johnson	3808	100y4hChicago	5.1	251.53	252.06	252.17	252.43	0.078324	2.75	2.06	8.38	1.7
Johnson	3808	2yrFlow100yrLake	2.1	251.53	251.86	251.96	252.16	0.073029	2.42	0.87	4.19	1.6
Johnson	3802	Timmins	10.9	251.11	251.47	251.63	252.03	0.249054	3.77	3.37	12.53	2.87
Johnson	3802	100y6hSCS	5.9	251.11	251.38	251.47	251.72	0.263074	2.54	2.3	12.21	2.66
Johnson	3802	50y6hSCS	5.3	251.11	251.37	251.45	251.68	0.261313	2.32	2.15	12.18	2.59
Johnson	3802	25y6hSCS	4.7	251.11	251.35	251.43	251.66	0.283224	2.06	1.94	12.12	2.6
Johnson	3802	10y6hSCS	3.8	251.11	251.31	251.4	251.61	0.308714	2.44	1.56	8.27	2.8
Johnson	3802	5y6hSCS	3.1	251.11	251.29	251.38	251.55	0.279138	2.71	1.37	6.74	2.77
Johnson	3802	2y6hSCS	2.1	251.11	251.25	251.31	251.43	0.242137	2.25	1.12	6.22	2.5
Johnson	3802	100y4hChicago	5.1	251.11	251.37	251.45	251.66	0.258337	2.23	2.11	12.17	2.56
Johnson	3802	2yrFlow100yrLake	2.1	251.11	251.25	251.31	251.43	0.242137	2.25	1.12	6.22	2.5
Johnson	3797	Timmins	10.9	250.73	251.41	251.41	251.6	0.035496	2.24	6.53	16.2	1.2
Johnson	3797	100y6hSCS	5.9	250.73	251.22	251.22	251.39	0.039204	2.14	3.9	12.38	1.23
Johnson	3797	50y6hSCS	5.3	250.73	251.19	251.19	251.36	0.041809	2.1	3.55	11.91	1.25
Johnson	3797	25y6hSCS	4.7	250.73	251.18	251.16	251.32	0.034311	1.92	3.46	11.61	1.14
Johnson	3797	10y6hSCS	3.8	250.73	251.1	251.1	251.25	0.042132	2.04	2.6	8.98	1.25
Johnson	3797	5y6hSCS	3.1	250.73	251.05	251.05	251.19	0.044944	1.94	2.22	8.55	1.26
Johnson	3797	2y6hSCS	2.1	250.73	250.98	250.98	251.1	0.054421	1.78	1.62	7.83	1.33
Johnson	3797	100y4hChicago	5.1	250.73	251.2	251.2	251.34	0.037574	2	3.58	11.96	1.19
Johnson	3797	2yrFlow100yrLake	2.1	250.73	250.98	250.98	251.1	0.054421	1.78	1.62	7.83	1.33
Johnson	3792	Timmins	10.9	250.13	250.78	250.92	251.3	0.080428	3.49	4.06	11.82	1.81
Johnson	3792	100y6hSCS	5.9	250.13	250.62	250.78	251.09	0.077765	3.21	2.37	8.99	1.75
Johnson	3792	50y6hSCS	5.3	250.13	250.6	250.73	251.04	0.077268	3.12	2.17	8.75	1.73
Johnson	3792	25y6hSCS	4.7	250.13	250.56	250.71	251.02	0.08386	3.12	1.9	8.27	1.79
Johnson	3792	10y6hSCS	3.8	250.13	250.52	250.67	250.93	0.081741	2.93	1.59	7.69	1.74
Johnson	3792	5y6hSCS	3.1	250.13	250.49	250.61	250.86	0.082375	2.78	1.33	7.27	1.73
Johnson	3792	2y6hSCS	2.1	250.13	250.43	250.53	250.74	0.081127	2.47	0.93	6.61	1.67
Johnson	3792	100y4hChicago	5.1	250.13	250.58	250.72	251.04	0.081206	3.15	2.06	8.56	1.77
Johnson	3792	2yrFlow100yrLake	2.1	250.13	250.43	250.53	250.74	0.081127	2.47	0.93	6.61	1.67
Johnson	3785.005	Timmins	10.9	249.91	250.47	250.57	250.81	0.053417	2.79	5.22	16.41	1.48
Johnson	3785.005	100y6hSCS	5.9	249.91	250.37	250.42	250.59	0.051073	2.24	3.48	15.8	1.38
Johnson	3785.005	50y6hSCS	5.3	249.91	250.35	250.4	250.56	0.049116	2.13	3.27	15.73	1.35
Johnson	3785.005	25y6hSCS	4.7	249.91	250.34	250.38	250.52	0.046266	2.01	3.07	15.66	1.3
Johnson	3785.005	10y6hSCS	3.8	249.91	250.32	250.35	250.47	0.042419	1.81	2.7	15.36	1.22
Johnson	3785.005	5y6hSCS	3.1	249.91	250.3	250.32	250.42	0.038125	1.63	2.42	15.03	1.14
Johnson	3785.005	2y6hSCS	2.1	249.91	250.26	250.27	250.35	0.031154	1.34	1.94	13.66	1.01
Johnson	3785.005	100y4hChicago	5.1	249.91	250.35	250.4	250.54	0.048065	2.09	3.21	15.71	1.33
Johnson	3785.005	2yrFlow100yrLake	2.1	249.91	250.26	250.27	250.35	0.031154	1.34	1.94	13.66	1.01
Johnson	3780	Timmins	10.9	249.16	249.78	249.99	250.44	0.084422	3.57	3.06	8.54	1.87
Johnson	3780	100y6hSCS	5.9	249.16	249.62	249.79	250.17	0.122138	3.28	1.8	7.24	2.1
Johnson	3780	50y6hSCS	5.3	249.16	249.6	249.76	250.13	0.132859	3.24	1.63	7.16	2.17
Johnson	3780	25y6hSCS	4.7	249.16	249.57	249.73	250.1	0.14744	3.21	1.47	7.08	2.25
Johnson	3780	10y6hSCS	3.8	249.16	249.54	249.68	250.04	0.176633	3.14	1.21	6.94	2.4
Johnson	3780	5y6hSCS	3.1	249.16	249.51	249.64	250	0.20925	3.11	1	6.55	2.55
Johnson	3780	2y6hSCS	2.1	249.16	249.45	249.57	249.95	0.265629	3.13	0.67	5.25	2.79
Johnson	3780	100y4hChicago	5.1	249.16	249.59	249.75	250.12	0.137362	3.23	1.58	7.13	2.19
Johnson	3780	2yrFlow100yrLake	2.1	249.16	249.45	249.57	249.95	0.265629	3.13	0.67	5.25	2.79
Johnson	3775	Timmins	10.9	248.95	249.53	249.66	249.97	0.082695	3.35	4.87	18.57	1.84
Johnson	3775	100y6hSCS	5.9	248.95	249.42	249.53	249.74	0.051249	2.71	3.15	13.73	1.46
Johnson	3775	50y6hSCS	5.3	248.95	249.4	249.5	249.7	0.048519	2.61	2.91	12.88	1.41
Johnson	3775	25y6hSCS	4.7	248.95	249.38	249.48	249.66	0.04624	2.52	2.64	12.08	1.38
Johnson	3775	10y6hSCS	3.8	248.95	249.35	249.43	249.59	0.042735	2.32	2.25	11.44	1.31
Johnson	3775	5y6hSCS	3.1	248.95	249.31	249.39	249.53	0.043079	2.17	1.84	10.02	1.29
Johnson	3775	2y6hSCS	2.1	248.95	249.25	249.29	249.42	0.045211	1.92	1.29	7.15	1.28
Johnson	3775	100y4hChicago	5.1	248.95	249.4	249.5	249.69	0.047942	2.58	2.82	12.55	1.4
Johnson	3775	2yrFlow100yrLake	2.1	248.95	249.25	249.29	249.42	0.045211	1.92	1.29	7.15	1.28
Johnson	3770	Timmins	10.9	248.86	249.5	249.36	249.61	0.018673	1.8	8.26	17.97	0.9
Johnson	3770	100y6hSCS	5.9	248.86	249.35	249.23	249.41	0.018297	1.32	5.68	17.08	0.83
Johnson	3770	50y6hSCS	5.3	248.86	249.32	249.2	249.38	0.019791	1.27	5.19	16.92	0.84

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3770	25y6hSCS	4.7	248.86	249.3	249.19	249.35	0.018902	1.17	4.88	16.79	0.81
Johnson	3770	10y6hSCS	3.8	248.86	249.26	249.12	249.31	0.018753	1.03	4.27	16.05	0.79
Johnson	3770	5y6hSCS	3.1	248.86	249.23	249.08	249.27	0.017644	0.93	3.76	14.72	0.75
Johnson	3770	2y6hSCS	2.1	248.86	249.16	249.01	249.19	0.015814	0.96	2.81	10.38	0.72
Johnson	3770	100y4hChicago	5.1	248.86	249.31	249.2	249.37	0.019914	1.24	5.05	16.87	0.84
Johnson	3770	2yrFlow100yrLake	2.1	248.86	249.16	249.01	249.19	0.015814	0.96	2.81	10.38	0.72
Johnson	3766	Timmins	10.9	248.65	249.3	249.3	249.5	0.025562	2.23	6.91	17.91	1.07
Johnson	3766	100y6hSCS	5.9	248.65	249.14	249.14	249.29	0.034606	1.91	4.08	15.85	1.16
Johnson	3766	50y6hSCS	5.3	248.65	249.13	249.13	249.26	0.030378	1.76	3.97	15.67	1.08
Johnson	3766	25y6hSCS	4.7	248.65	249.1	249.1	249.23	0.035841	1.76	3.49	14.88	1.15
Johnson	3766	10y6hSCS	3.8	248.65	249.07	249.07	249.18	0.038146	1.64	3	14.72	1.15
Johnson	3766	5y6hSCS	3.1	248.65	249.03	249.03	249.13	0.04426	1.57	2.51	14.46	1.21
Johnson	3766	2y6hSCS	2.1	248.65	248.98	248.98	249.07	0.038135	1.46	1.85	11.6	1.12
Johnson	3766	100y4hChicago	5.1	248.65	249.12	249.12	249.25	0.030373	1.73	3.87	15.51	1.07
Johnson	3766	2yrFlow100yrLake	2.1	248.65	248.98	248.98	249.07	0.038135	1.46	1.85	11.6	1.12
Johnson	3760	Timmins	10.9	248.2	248.8	248.96	249.27	0.053853	3.07	3.88	12.52	1.53
Johnson	3760	100y6hSCS	5.9	248.2	248.65	248.74	248.99	0.0739	2.65	2.38	9.11	1.66
Johnson	3760	50y6hSCS	5.3	248.2	248.62	248.72	248.96	0.080736	2.61	2.17	9.04	1.71
Johnson	3760	25y6hSCS	4.7	248.2	248.6	248.69	248.92	0.090349	2.59	1.94	8.93	1.78
Johnson	3760	10y6hSCS	3.8	248.2	248.57	248.65	248.84	0.081714	2.36	1.72	8.42	1.67
Johnson	3760	5y6hSCS	3.1	248.2	248.54	248.62	248.79	0.076033	2.24	1.48	7.49	1.61
Johnson	3760	2y6hSCS	2.1	248.2	248.48	248.55	248.72	0.100902	2.22	1.01	6.52	1.79
Johnson	3760	100y4hChicago	5.1	248.2	248.62	248.71	248.94	0.082249	2.59	2.1	9.02	1.72
Johnson	3760	2yrFlow100yrLake	2.1	248.2	248.48	248.55	248.72	0.100902	2.22	1.01	6.52	1.79
Johnson	3756	Timmins	10.9	248.01	248.47	248.61	248.98	0.092352	3.45	4.08	13.28	1.93
Johnson	3756	100y6hSCS	5.9	248.01	248.38	248.47	248.67	0.076503	2.59	2.92	12.62	1.68
Johnson	3756	50y6hSCS	5.3	248.01	248.37	248.45	248.63	0.072037	2.44	2.77	12.51	1.62
Johnson	3756	25y6hSCS	4.7	248.01	248.36	248.42	248.58	0.066632	2.27	2.63	12.39	1.54
Johnson	3756	10y6hSCS	3.8	248.01	248.32	248.38	248.51	0.072581	2.11	2.15	11.18	1.57
Johnson	3756	5y6hSCS	3.1	248.01	248.3	248.32	248.46	0.074667	1.97	1.87	10.07	1.55
Johnson	3756	2y6hSCS	2.1	248.01	248.27	248.28	248.37	0.060095	1.58	1.58	9.81	1.36
Johnson	3756	100y4hChicago	5.1	248.01	248.37	248.44	248.62	0.071433	2.39	2.71	12.46	1.6
Johnson	3756	2yrFlow100yrLake	2.1	248.01	248.27	248.28	248.37	0.060095	1.58	1.58	9.81	1.36
Johnson	3750	Timmins	10.9	247.84	248.4	248.32	248.52	0.023807	1.86	8.47	22.53	0.99
Johnson	3750	100y6hSCS	5.9	247.84	248.24	248.14	248.32	0.028282	1.5	4.95	20.07	1.01
Johnson	3750	50y6hSCS	5.3	247.84	248.23	248.13	248.3	0.026292	1.39	4.67	19.35	0.96
Johnson	3750	25y6hSCS	4.7	247.84	248.2	248.11	248.27	0.026927	1.31	4.23	15.71	0.95
Johnson	3750	10y6hSCS	3.8	247.84	248.16	248.05	248.21	0.028294	1.14	3.61	12.88	0.94
Johnson	3750	5y6hSCS	3.1	247.84	248.12	248.01	248.17	0.029707	0.99	3.13	12.24	0.92
Johnson	3750	2y6hSCS	2.1	247.84	248.04	247.94	248.08	0.030379	0.89	2.35	9.63	0.91
Johnson	3750	100y4hChicago	5.1	247.84	248.22	248.12	248.29	0.026634	1.37	4.5	17.92	0.96
Johnson	3750	2yrFlow100yrLake	2.1	247.84	248.04	247.94	248.08	0.030379	0.89	2.35	9.63	0.91
Johnson	3743.018	Timmins	10.9	247.55	248.04	248.04	248.27	0.063008	2.52	5.41	14.51	1.54
Johnson	3743.018	100y6hSCS	5.9	247.55	247.86	247.86	248.03	0.074052	2.19	3.34	9.89	1.58
Johnson	3743.018	50y6hSCS	5.3	247.55	247.81	247.81	247.99	0.09128	2.24	2.89	9.21	1.71
Johnson	3743.018	25y6hSCS	4.7	247.55	247.79	247.79	247.95	0.095369	2.12	2.64	8.95	1.72
Johnson	3743.018	10y6hSCS	3.8	247.55	247.75	247.75	247.89	0.098126	1.86	2.29	8.67	1.68
Johnson	3743.018	5y6hSCS	3.1	247.55	247.71	247.71	247.83	0.09927	1.57	2.01	8.45	1.62
Johnson	3743.018	2y6hSCS	2.1	247.55	247.66	247.66	247.75	0.093159	0.96	1.58	8.1	1.41
Johnson	3743.018	100y4hChicago	5.1	247.55	247.81	247.81	247.98	0.091737	2.2	2.82	9.13	1.71
Johnson	3743.018	2yrFlow100yrLake	2.1	247.55	247.66	247.66	247.75	0.093159	0.96	1.58	8.1	1.41
Johnson	3739	Timmins	10.9	247.01	247.68	247.77	248.02	0.041648	2.84	4.85	10.57	1.33
Johnson	3739	100y6hSCS	5.9	247.01	247.48	247.54	247.74	0.049681	2.51	2.96	8.52	1.38
Johnson	3739	50y6hSCS	5.3	247.01	247.46	247.51	247.7	0.046164	2.37	2.83	8.43	1.32
Johnson	3739	25y6hSCS	4.7	247.01	247.44	247.48	247.66	0.045879	2.28	2.61	8.28	1.31
Johnson	3739	10y6hSCS	3.8	247.01	247.4	247.43	247.59	0.044847	2.11	2.29	8.07	1.28
Johnson	3739	5y6hSCS	3.1	247.01	247.39	247.39	247.52	0.033912	1.8	2.19	8.01	1.11
Johnson	3739	2y6hSCS	2.1	247.01	247.33	247.32	247.43	0.029202	1.51	1.78	7.72	1
Johnson	3739	100y4hChicago	5.1	247.01	247.46	247.5	247.69	0.046266	2.35	2.75	8.38	1.32
Johnson	3739	2yrFlow100yrLake	2.1	247.01	247.33	247.32	247.43	0.029202	1.51	1.78	7.72	1

Creek	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson	3733	Timmins	10.9	246.78	247.42	247.48	247.75	0.041195	2.72	4.85	11.47	1.33
Johnson	3733	100y6hSCS	5.9	246.78	247.3	247.31	247.48	0.035552	2.05	3.45	10.94	1.18
Johnson	3733	50y6hSCS	5.3	246.78	247.27	247.28	247.45	0.038503	2.01	3.15	10.81	1.21
Johnson	3733	25y6hSCS	4.7	246.78	247.23	247.26	247.41	0.046049	2.03	2.77	10.69	1.3
Johnson	3733	10y6hSCS	3.8	246.78	247.22	247.22	247.35	0.035746	1.73	2.63	10.64	1.13
Johnson	3733	5y6hSCS	3.1	246.78	247.19	247.19	247.3	0.032571	1.59	2.34	10.07	1.07
Johnson	3733	2y6hSCS	2.1	246.78	247.12	247.12	247.22	0.036907	1.52	1.67	8.5	1.11
Johnson	3733	100y4hChicago	5.1	246.78	247.26	247.27	247.44	0.040883	2.02	3.02	10.76	1.24
Johnson	3733	2yrFlow100yrLake	2.1	246.78	247.12	247.12	247.22	0.036907	1.52	1.67	8.5	1.11
Johnson	3726	Timmins	10.9	246.44	247.35	247.12	247.48	0.006972	1.64	8.1	13.91	0.6
Johnson	3726	100y6hSCS	5.9	246.44	247.11	246.93	247.19	0.00666	1.3	5.22	10.42	0.56
Johnson	3726	50y6hSCS	5.3	246.44	247.07	246.9	247.14	0.006914	1.27	4.79	10.22	0.56
Johnson	3726	25y6hSCS	4.7	246.44	247.02	246.88	247.1	0.007245	1.23	4.35	10.04	0.57
Johnson	3726	10y6hSCS	3.8	246.44	246.95	246.83	247.02	0.008154	1.18	3.63	9.78	0.59
Johnson	3726	5y6hSCS	3.1	246.44	246.89	246.8	246.95	0.009258	1.14	3.05	9.57	0.62
Johnson	3726	2y6hSCS	2.1	246.44	246.8	246.74	246.85	0.012318	1.08	2.15	9.23	0.68
Johnson	3726	100y4hChicago	5.1	246.44	247.05	246.89	247.13	0.007	1.26	4.64	10.15	0.57
Johnson	3726	2yrFlow100yrLake	2.1	246.44	246.8	246.74	246.85	0.012318	1.08	2.15	9.23	0.68
Johnson	3721	Timmins	10.9	246.24	247.19	247.19	247.42	0.015616	2.18	6.16	19.33	0.86
Johnson	3721	100y6hSCS	5.9	246.24	246.9	246.9	247.13	0.02353	2.09	2.82	6.31	1
Johnson	3721	50y6hSCS	5.3	246.24	246.87	246.87	247.08	0.024142	2.05	2.59	6.11	1
Johnson	3721	25y6hSCS	4.7	246.24	246.83	246.83	247.03	0.024811	2	2.36	5.89	1.01
Johnson	3721	10y6hSCS	3.8	246.24	246.77	246.77	246.95	0.025507	1.89	2.01	5.62	1.01
Johnson	3721	5y6hSCS	3.1	246.24	246.71	246.71	246.88	0.026635	1.8	1.72	5.34	1.01
Johnson	3721	2y6hSCS	2.1	246.24	246.63	246.63	246.77	0.02839	1.61	1.3	5.04	1.01
Johnson	3721	100y4hChicago	5.1	246.24	246.85	246.85	247.06	0.024493	2.03	2.51	6.03	1.01
Johnson	3721	2yrFlow100yrLake	2.1	246.24	246.63	246.63	246.77	0.02839	1.61	1.3	5.04	1.01
Johnson	3716	Timmins	10.9	246.04	246.74	246.95	247.25	0.085691	3.87	4.43	11.26	1.85
Johnson	3716	100y6hSCS	5.9	246.04	246.61	246.7	246.94	0.06841	3.08	3.05	9.88	1.61
Johnson	3716	50y6hSCS	5.3	246.04	246.59	246.68	246.9	0.065299	2.95	2.86	9.68	1.57
Johnson	3716	25y6hSCS	4.7	246.04	246.56	246.65	246.85	0.063148	2.83	2.64	9.42	1.53
Johnson	3716	10y6hSCS	3.8	246.04	246.53	246.6	246.77	0.058524	2.6	2.31	8.95	1.46
Johnson	3716	5y6hSCS	3.1	246.04	246.5	246.55	246.7	0.053277	2.37	2.04	8.36	1.38
Johnson	3716	2y6hSCS	2.1	246.04	246.43	246.46	246.59	0.04986	2.06	1.55	7.38	1.31
Johnson	3716	100y4hChicago	5.1	246.04	246.58	246.67	246.88	0.064995	2.92	2.78	9.6	1.56
Johnson	3716	2yrFlow100yrLake	2.1	246.04	246.43	246.46	246.59	0.04986	2.06	1.55	7.38	1.31
Johnson	3709	Timmins	10.9	245.54	245.87	246.06	246.37	0.180204	4.11	3.88	10.8	2.52
Johnson	3709	100y6hSCS	5.9	245.54	245.73	245.82	246.07	0.260386	3.27	2.38	10.04	2.79
Johnson	3709	50y6hSCS	5.3	245.54	245.71	245.8	246.03	0.281903	3.1	2.18	9.93	2.84
Johnson	3709	25y6hSCS	4.7	245.54	245.69	245.77	245.99	0.295722	2.96	1.98	9.65	2.86
Johnson	3709	10y6hSCS	3.8	245.54	245.66	245.73	245.93	0.329191	2.78	1.67	9.1	2.94
Johnson	3709	5y6hSCS	3.1	245.54	245.63	245.7	245.87	0.381889	2.45	1.41	8.83	3.02
Johnson	3709	2y6hSCS	2.1	245.54	245.59	245.64	245.79	0.417834	1.59	1.07	8.41	2.81
Johnson	3709	100y4hChicago	5.1	245.54	245.7	245.79	246.01	0.285597	3.03	2.12	9.9	2.84
Johnson	3709	2yrFlow100yrLake	2.1	245.54	245.59	245.64	245.79	0.417834	1.59	1.07	8.41	2.81
Johnson	3700.77	Timmins	10.9	244.68	245.17	245.17	245.33	0.075699	2.59	6.59	18.3	1.57
Johnson	3700.77	100y6hSCS	5.9	244.68	244.89	244.89	245.27	0.297104	3.69	2.24	11.42	2.96
Johnson	3700.77	50y6hSCS	5.3	244.68	244.89	244.89	245.2	0.246288	3.31	2.2	11.16	2.69
Johnson	3700.77	25y6hSCS	4.7	244.68	244.88	244.88	245.14	0.202444	2.93	2.12	10.69	2.43
Johnson	3700.77	10y6hSCS	3.8	244.68	244.89	244.89	245.05	0.123909	2.37	2.23	11.36	1.91
Johnson	3700.77	5y6hSCS	3.1	244.68	244.88	244.88	245	0.086995	1.93	2.14	10.83	1.59
Johnson	3700.77	2y6hSCS	2.1	244.68	244.79	244.79	244.9	0.111219	1.43	1.42	6.07	1.64
Johnson	3700.77	100y4hChicago	5.1	244.68	244.88	244.88	245.19	0.232803	3.19	2.16	10.95	2.61
Johnson	3700.77	2yrFlow100yrLake	2.1	244.68	244.79	244.79	244.9	0.111219	1.43	1.42	6.07	1.64
Johnson	3698	Timmins	10.9	244.29	245.03	244.85	245.11	0.03809	1.77	8.63	21.05	1.07
Johnson	3698	100y6hSCS	5.9	244.29	244.66	244.64	244.82	0.087262	1.86	3.36	9.76	1.47
Johnson	3698	50y6hSCS	5.3	244.29	244.63	244.59	244.78	0.087417	1.73	3.09	8.41	1.46
Johnson	3698	25y6hSCS	4.7	244.29	244.61	244.56	244.74	0.084375	1.57	2.87	7.89	1.41
Johnson	3698	10y6hSCS	3.8	244.29	244.57	244.5	244.68	0.07234	1.3	2.61	7.52	1.28
Johnson	3698	5y6hSCS	3.1	244.29	244.54	244.46	244.63	0.062265	1.19	2.38	7.02	1.17
Johnson	3698	2y6hSCS	2.1	244.29	244.47	244.38	244.53	0.056257	1.07	1.89	6.36	1.09

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3698	100y4hChicago	5.1	244.29	244.62	244.59	244.77	0.087674	1.68	3	8.04	1.45
Johnson	3698	2yrFlow100yrLake	2.1	244.29	244.47	244.38	244.53	0.056257	1.07	1.89	6.36	1.09
Johnson	3695	Timmins	10.9	244.09	244.46	244.46	244.89	0.168053	3.6	4.09	12.61	2.37
Johnson	3695	100y6hSCS	5.9	244.09	244.4	244.4	244.57	0.08982	2.23	3.35	11.75	1.67
Johnson	3695	50y6hSCS	5.3	244.09	244.38	244.38	244.54	0.088919	2.1	3.15	11.57	1.64
Johnson	3695	25y6hSCS	4.7	244.09	244.36	244.36	244.5	0.087975	1.99	2.91	11.2	1.61
Johnson	3695	10y6hSCS	3.8	244.09	244.32	244.32	244.44	0.097843	1.86	2.44	10.39	1.65
Johnson	3695	5y6hSCS	3.1	244.09	244.28	244.28	244.4	0.109588	1.72	2.06	9.76	1.7
Johnson	3695	2y6hSCS	2.1	244.09	244.23	244.23	244.32	0.104191	1.31	1.63	9.09	1.57
Johnson	3695	100y4hChicago	5.1	244.09	244.38	244.38	244.52	0.087308	2.05	3.08	11.47	1.62
Johnson	3695	2yrFlow100yrLake	2.1	244.09	244.23	244.23	244.32	0.104191	1.31	1.63	9.09	1.57
Johnson	3691	Timmins	10.9	243.52	243.96	244.15	244.47	0.275503	3.99	3.57	11.48	2.96
Johnson	3691	100y6hSCS	5.9	243.52	243.88	243.95	244.14	0.167216	2.91	2.7	9.31	2.26
Johnson	3691	50y6hSCS	5.3	243.52	243.86	243.94	244.1	0.170298	2.77	2.47	8.84	2.24
Johnson	3691	25y6hSCS	4.7	243.52	243.83	243.88	244.07	0.180072	2.77	2.23	8.29	2.28
Johnson	3691	10y6hSCS	3.8	243.52	243.79	243.84	244	0.163017	2.77	1.97	7.61	2.18
Johnson	3691	5y6hSCS	3.1	243.52	243.76	243.81	243.94	0.156582	2.5	1.75	7.36	2.1
Johnson	3691	2y6hSCS	2.1	243.52	243.7	243.72	243.84	0.181982	2.11	1.29	6.8	2.15
Johnson	3691	100y4hChicago	5.1	243.52	243.84	243.93	244.09	0.178234	2.75	2.37	8.65	2.28
Johnson	3691	2yrFlow100yrLake	2.1	243.52	243.7	243.72	243.84	0.181982	2.11	1.29	6.8	2.15
Johnson	3688	Timmins	10.9	243.09	243.54	243.54	243.99	0.121928	3.65	4.37	14.36	2.14
Johnson	3688	100y6hSCS	5.9	243.09	243.41	243.47	243.68	0.124162	2.87	2.81	10.7	2.04
Johnson	3688	50y6hSCS	5.3	243.09	243.39	243.44	243.64	0.124445	2.74	2.63	10.56	2.02
Johnson	3688	25y6hSCS	4.7	243.09	243.37	243.42	243.59	0.120167	2.56	2.47	10.42	1.96
Johnson	3688	10y6hSCS	3.8	243.09	243.34	243.38	243.53	0.131782	2.37	2.11	10.11	1.99
Johnson	3688	5y6hSCS	3.1	243.09	243.31	243.34	243.47	0.133151	2.13	1.86	9.89	1.95
Johnson	3688	2y6hSCS	2.1	243.09	243.28	243.29	243.38	0.110657	1.63	1.55	9.61	1.7
Johnson	3688	100y4hChicago	5.1	243.09	243.39	243.44	243.62	0.120199	2.66	2.6	10.53	1.98
Johnson	3688	2yrFlow100yrLake	2.1	243.09	243.28	243.29	243.38	0.110657	1.63	1.55	9.61	1.7
Johnson	3685	Timmins	10.9	242.58	242.81	242.98	243.4	0.450772	3.71	3.21	11.36	3.52
Johnson	3685	100y6hSCS	5.9	242.58	242.69	242.83	243.13	0.361384	1.64	2.02	7.5	2.67
Johnson	3685	50y6hSCS	5.3	242.58	242.67	242.81	243.09	0.357215	1.74	1.85	6.32	2.68
Johnson	3685	25y6hSCS	4.7	242.58	242.63	242.78	243.05	0.36671	1.28	1.65	5.69	2.51
Johnson	3685	10y6hSCS	3.8	242.58	242.59	242.73	242.96	0.355148	0.31	1.41	4.82	1.74
Johnson	3685	5y6hSCS	3.1	242.58	242.54	242.66	242.88	0.378457		1.2	4.55	0
Johnson	3685	2y6hSCS	2.1	242.58	242.45	242.56	242.79	0.532111		0.82	4.07	0
Johnson	3685	100y4hChicago	5.1	242.58	242.65	242.8	243.08	0.364663	1.59	1.77	6.09	2.64
Johnson	3685	2yrFlow100yrLake	2.1	242.58	242.45	242.56	242.79	0.532111		0.82	4.07	0
Johnson	3682	Timmins	10.9	241.74	242.5	242.65	242.98	0.049316	3.36	4.75	13.31	1.48
Johnson	3682	100y6hSCS	5.9	241.74	242.3	242.41	242.67	0.063725	2.89	2.65	8.8	1.58
Johnson	3682	50y6hSCS	5.3	241.74	242.28	242.39	242.62	0.064674	2.79	2.45	8.6	1.58
Johnson	3682	25y6hSCS	4.7	241.74	242.26	242.33	242.57	0.064501	2.67	2.26	8.41	1.56
Johnson	3682	10y6hSCS	3.8	241.74	242.22	242.29	242.49	0.063681	2.45	1.97	8.14	1.52
Johnson	3682	5y6hSCS	3.1	241.74	242.19	242.25	242.41	0.060732	2.23	1.75	7.95	1.47
Johnson	3682	2y6hSCS	2.1	241.74	242.15	242.18	242.3	0.053913	1.85	1.41	7.64	1.34
Johnson	3682	100y4hChicago	5.1	241.74	242.27	242.37	242.6	0.064436	2.75	2.39	8.54	1.57
Johnson	3682	2yrFlow100yrLake	2.1	241.74	242.15	242.18	242.3	0.053913	1.85	1.41	7.64	1.34
Johnson	3678	Timmins	10.9	240.86	241.34	241.63	242.51	0.22901	5.14	2.57	8.37	2.91
Johnson	3678	100y6hSCS	5.9	240.86	241.22	241.43	242.12	0.274728	4.47	1.59	7.6	3.04
Johnson	3678	50y6hSCS	5.3	240.86	241.2	241.41	242.06	0.285916	4.36	1.46	7.5	3.07
Johnson	3678	25y6hSCS	4.7	240.86	241.18	241.38	242	0.300834	4.26	1.33	7.4	3.12
Johnson	3678	10y6hSCS	3.8	240.86	241.15	241.33	241.91	0.331027	4.08	1.12	7.24	3.21
Johnson	3678	5y6hSCS	3.1	240.86	241.13	241.28	241.83	0.368984	3.93	0.94	7.1	3.32
Johnson	3678	2y6hSCS	2.1	240.86	241.09	241.22	241.75	0.41137	3.77	0.67	6.27	3.44
Johnson	3678	100y4hChicago	5.1	240.86	241.19	241.4	242.04	0.2909	4.33	1.42	7.47	3.09
Johnson	3678	2yrFlow100yrLake	2.1	240.86	241.09	241.22	241.75	0.41137	3.77	0.67	6.27	3.44
Johnson	3674	Timmins	10.9	239.75	240.27	240.56	241.51	0.322294	6.13	2.41	5.32	3.44
Johnson	3674	100y6hSCS	5.9	239.75	240.09	240.36	241.03	0.315336	5.55	1.57	4.44	3.35
Johnson	3674	50y6hSCS	5.3	239.75	240.07	240.33	240.93	0.325115	5.35	1.46	4.4	3.37
Johnson	3674	25y6hSCS	4.7	239.75	240.04	240.3	240.83	0.329489	5.11	1.35	4.35	3.35

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3674	10y6hSCS	3.8	239.75	240	240.2	240.65	0.330696	4.65	1.18	4.27	3.3
Johnson	3674	5y6hSCS	3.1	239.75	239.97	240.13	240.5	0.324949	4.2	1.05	4.2	3.2
Johnson	3674	2y6hSCS	2.1	239.75	239.92	240.03	240.29	0.337923	3.45	0.82	4.08	3.12
Johnson	3674	100y4hChicago	5.1	239.75	240.06	240.32	240.9	0.326647	5.28	1.42	4.38	3.36
Johnson	3674	2yrFlow100yrLake	2.1	239.75	239.92	240.03	240.29	0.337923	3.45	0.82	4.08	3.12
Johnson	3671	Timmins	10.9	238.78	239.31	239.67	240.68	0.23078	5.67	2.46	6.98	2.99
Johnson	3671	100y6hSCS	5.9	238.78	239.18	239.42	240.15	0.270589	4.73	1.58	6.65	3.05
Johnson	3671	50y6hSCS	5.3	238.78	239.17	239.39	240.05	0.266815	4.53	1.48	6.6	3
Johnson	3671	25y6hSCS	4.7	238.78	239.15	239.36	239.95	0.260925	4.3	1.38	6.55	2.94
Johnson	3671	10y6hSCS	3.8	238.78	239.13	239.3	239.79	0.250179	3.92	1.22	6.47	2.83
Johnson	3671	5y6hSCS	3.1	238.78	239.11	239.26	239.66	0.241225	3.59	1.09	6.4	2.73
Johnson	3671	2y6hSCS	2.1	238.78	239.08	239.18	239.47	0.222802	3.02	0.87	6.28	2.54
Johnson	3671	100y4hChicago	5.1	238.78	239.16	239.38	240.02	0.264961	4.45	1.45	6.59	2.98
Johnson	3671	2yrFlow100yrLake	2.1	238.78	239.08	239.18	239.47	0.222802	3.02	0.87	6.28	2.54
Johnson	3667	Timmins	10.9	237.38	237.76	238.12	239.44	0.468983	6.48	2.23	8.55	4.1
Johnson	3667	100y6hSCS	5.9	237.38	237.67	237.91	238.77	0.498841	5.24	1.49	8.25	3.99
Johnson	3667	50y6hSCS	5.3	237.38	237.66	237.88	238.68	0.505848	5.05	1.39	8.22	3.97
Johnson	3667	25y6hSCS	4.7	237.38	237.65	237.85	238.58	0.515445	4.85	1.29	8.18	3.96
Johnson	3667	10y6hSCS	3.8	237.38	237.63	237.8	238.44	0.537093	4.51	1.12	8.13	3.95
Johnson	3667	5y6hSCS	3.1	237.38	237.61	237.76	238.31	0.559767	4.22	0.98	8.08	3.95
Johnson	3667	2y6hSCS	2.1	237.38	237.58	237.7	238.13	0.617889	3.74	0.75	7.93	3.98
Johnson	3667	100y4hChicago	5.1	237.38	237.66	237.87	238.65	0.508765	4.98	1.36	8.21	3.97
Johnson	3667	2yrFlow100yrLake	2.1	237.38	237.58	237.7	238.13	0.617889	3.74	0.75	7.93	3.98
Johnson	3663	Timmins	10.9	236.35	236.88	237.16	238.06	0.226743	4.97	2.54	10.13	2.93
Johnson	3663	100y6hSCS	5.9	236.35	236.75	236.98	237.67	0.167885	4.25	1.49	7.34	2.51
Johnson	3663	50y6hSCS	5.3	236.35	236.74	236.95	237.58	0.166401	4.08	1.37	6.37	2.48
Johnson	3663	25y6hSCS	4.7	236.35	236.72	236.92	237.49	0.164572	3.89	1.25	6.08	2.44
Johnson	3663	10y6hSCS	3.8	236.35	236.69	236.88	237.34	0.161596	3.57	1.08	5.48	2.38
Johnson	3663	5y6hSCS	3.1	236.35	236.66	236.85	237.21	0.158869	3.29	0.95	4.79	2.32
Johnson	3663	2y6hSCS	2.1	236.35	236.61	236.74	237.04	0.150879	2.9	0.72	4.08	2.2
Johnson	3663	100y4hChicago	5.1	236.35	236.73	236.94	237.55	0.165827	4.02	1.33	6.28	2.47
Johnson	3663	2yrFlow100yrLake	2.1	236.35	236.61	236.74	237.04	0.150879	2.9	0.72	4.08	2.2
Johnson	3657.491	Timmins	10.9	235.14	235.61	235.93	236.84	0.177665	4.91	2.22	6.42	2.67
Johnson	3657.491	100y6hSCS	5.9	235.14	235.46	235.71	236.45	0.236662	4.41	1.34	5.69	2.9
Johnson	3657.491	50y6hSCS	5.3	235.14	235.44	235.67	236.37	0.23753	4.25	1.25	5.61	2.88
Johnson	3657.491	25y6hSCS	4.7	235.14	235.43	235.64	236.28	0.239306	4.08	1.15	5.56	2.86
Johnson	3657.491	10y6hSCS	3.8	235.14	235.4	235.59	236.13	0.242532	3.8	1	5.46	2.83
Johnson	3657.491	5y6hSCS	3.1	235.14	235.38	235.54	236.01	0.245498	3.53	0.88	5.38	2.8
Johnson	3657.491	2y6hSCS	2.1	235.14	235.34	235.46	235.84	0.265375	3.13	0.67	5.25	2.8
Johnson	3657.491	100y4hChicago	5.1	235.14	235.44	235.66	236.34	0.237448	4.2	1.22	5.6	2.87
Johnson	3657.491	2yrFlow100yrLake	2.1	235.14	235.34	235.46	235.84	0.265375	3.13	0.67	5.25	2.8
Johnson	3655	Timmins	10.9	234.41	235.19	235.57	236.43	0.126417	4.94	2.21	4.7	2.3
Johnson	3655	100y6hSCS	5.9	234.41	234.99	235.27	235.95	0.144377	4.33	1.36	3.95	2.35
Johnson	3655	50y6hSCS	5.3	234.41	234.97	235.23	235.87	0.143313	4.21	1.26	3.78	2.33
Johnson	3655	25y6hSCS	4.7	234.41	234.94	235.18	235.8	0.137944	4.1	1.15	3.46	2.28
Johnson	3655	10y6hSCS	3.8	234.41	234.88	235.11	235.66	0.130518	3.91	0.97	3.03	2.2
Johnson	3655	5y6hSCS	3.1	234.41	234.84	235.05	235.53	0.131573	3.69	0.84	2.87	2.18
Johnson	3655	2y6hSCS	2.1	234.41	234.76	234.94	235.33	0.137233	3.34	0.63	2.6	2.17
Johnson	3655	100y4hChicago	5.1	234.41	234.96	235.21	235.85	0.141701	4.18	1.22	3.68	2.31
Johnson	3655	2yrFlow100yrLake	2.1	234.41	234.76	234.94	235.33	0.137233	3.34	0.63	2.6	2.17
Johnson	3650	Timmins	10.9	233.49	234.07	234.51	235.72	0.164272	5.71	1.99	4.3	2.62
Johnson	3650	100y6hSCS	5.9	233.49	233.89	234.2	235.11	0.208195	4.91	1.24	4.08	2.79
Johnson	3650	50y6hSCS	5.3	233.49	233.87	234.16	235.02	0.217113	4.77	1.14	4.04	2.82
Johnson	3650	25y6hSCS	4.7	233.49	233.84	234.11	234.94	0.232174	4.66	1.03	4	2.88
Johnson	3650	10y6hSCS	3.8	233.49	233.8	234.04	234.8	0.256586	4.43	0.87	3.94	2.96
Johnson	3650	5y6hSCS	3.1	233.49	233.77	233.98	234.65	0.270225	4.17	0.76	3.89	2.98
Johnson	3650	2y6hSCS	2.1	233.49	233.73	233.89	234.41	0.290946	3.67	0.58	3.82	2.98
Johnson	3650	100y4hChicago	5.1	233.49	233.86	234.14	235	0.221759	4.74	1.1	4.03	2.84
Johnson	3650	2yrFlow100yrLake	2.1	233.49	233.73	233.89	234.41	0.290946	3.67	0.58	3.82	2.98
Johnson	3644	Timmins	10.9	232.38	232.9	233.26	234.39	0.233793	5.52	2.17	6.83	3.03

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3644	100y6hSCS	5.9	232.38	232.81	233.07	233.66	0.198303	4.19	1.53	6.34	2.66
Johnson	3644	50y6hSCS	5.3	232.38	232.79	233	233.57	0.19096	3.98	1.44	6.26	2.59
Johnson	3644	25y6hSCS	4.7	232.38	232.78	232.97	233.47	0.181849	3.76	1.35	6.16	2.51
Johnson	3644	10y6hSCS	3.8	232.38	232.75	232.91	233.32	0.167646	3.4	1.21	6.03	2.37
Johnson	3644	5y6hSCS	3.1	232.38	232.73	232.87	233.21	0.155433	3.12	1.07	5.74	2.26
Johnson	3644	2y6hSCS	2.1	232.38	232.69	232.79	233.04	0.137349	2.66	0.84	5.24	2.08
Johnson	3644	100y4hChicago	5.1	232.38	232.79	232.99	233.54	0.188019	3.91	1.41	6.22	2.56
Johnson	3644	2yrFlow100yrLake	2.1	232.38	232.69	232.79	233.04	0.137349	2.66	0.84	5.24	2.08
Johnson	3637	Timmins	10.9	231.02	231.72	232	232.88	0.191028	5.66	2.85	7.19	2.84
Johnson	3637	100y6hSCS	5.9	231.02	231.56	231.86	232.3	0.199434	4.58	1.79	5.47	2.75
Johnson	3637	50y6hSCS	5.3	231.02	231.53	231.77	232.22	0.20537	4.42	1.64	5.16	2.76
Johnson	3637	25y6hSCS	4.7	231.02	231.49	231.71	232.13	0.214957	4.25	1.47	4.8	2.78
Johnson	3637	10y6hSCS	3.8	231.02	231.44	231.63	232	0.233723	3.96	1.24	4.46	2.82
Johnson	3637	5y6hSCS	3.1	231.02	231.4	231.56	231.92	0.24096	3.9	1.05	3.95	2.84
Johnson	3637	2y6hSCS	2.1	231.02	231.32	231.46	231.78	0.269127	3.73	0.76	3.28	2.93
Johnson	3637	100y4hChicago	5.1	231.02	231.52	231.75	232.19	0.208205	4.37	1.58	5.04	2.77
Johnson	3637	2yrFlow100yrLake	2.1	231.02	231.32	231.46	231.78	0.269127	3.73	0.76	3.28	2.93
Johnson	3632	Timmins	10.9	230.17	230.72	231.04	231.87	0.187103	5.18	2.66	7.53	2.79
Johnson	3632	100y6hSCS	5.9	230.17	230.61	230.82	231.3	0.173904	4.05	1.81	6.69	2.55
Johnson	3632	50y6hSCS	5.3	230.17	230.59	230.79	231.21	0.168019	3.85	1.71	6.58	2.49
Johnson	3632	25y6hSCS	4.7	230.17	230.57	230.77	231.13	0.160905	3.62	1.6	6.46	2.41
Johnson	3632	10y6hSCS	3.8	230.17	230.55	230.68	230.99	0.148839	3.26	1.43	6.28	2.28
Johnson	3632	5y6hSCS	3.1	230.17	230.51	230.64	230.94	0.140004	3.21	1.22	5.41	2.22
Johnson	3632	2y6hSCS	2.1	230.17	230.46	230.55	230.77	0.130199	2.74	0.97	5.11	2.08
Johnson	3632	100y4hChicago	5.1	230.17	230.58	230.78	231.18	0.166086	3.78	1.67	6.54	2.47
Johnson	3632	2yrFlow100yrLake	2.1	230.17	230.46	230.55	230.77	0.130199	2.74	0.97	5.11	2.08
Johnson	3626	Timmins	10.9	229.39	230.01	230.25	230.86	0.124312	4.41	3.1	8.67	2.29
Johnson	3626	100y6hSCS	5.9	229.39	229.89	230.05	230.41	0.11129	3.43	2.13	7.91	2.07
Johnson	3626	50y6hSCS	5.3	229.39	229.87	230.02	230.35	0.110206	3.29	1.99	7.79	2.04
Johnson	3626	25y6hSCS	4.7	229.39	229.86	229.99	230.29	0.109585	3.14	1.85	7.66	2.01
Johnson	3626	10y6hSCS	3.8	229.39	229.82	229.94	230.2	0.108861	2.92	1.6	7.4	1.97
Johnson	3626	5y6hSCS	3.1	229.39	229.79	229.89	230.14	0.115805	2.82	1.36	7.05	2
Johnson	3626	2y6hSCS	2.1	229.39	229.74	229.83	230.02	0.113976	2.5	1.04	6.57	1.93
Johnson	3626	100y4hChicago	5.1	229.39	229.87	230.01	230.33	0.109869	3.24	1.95	7.75	2.03
Johnson	3626	2yrFlow100yrLake	2.1	229.39	229.74	229.83	230.02	0.113976	2.5	1.04	6.57	1.93
Johnson	3618	Timmins	10.9	228.2	228.79	229.06	229.78	0.151103	4.41	2.47	7.5	2.46
Johnson	3618	100y6hSCS	5.9	228.2	228.65	228.86	229.38	0.153643	3.77	1.57	6.12	2.38
Johnson	3618	50y6hSCS	5.3	228.2	228.63	228.83	229.31	0.157088	3.65	1.45	6.06	2.38
Johnson	3618	25y6hSCS	4.7	228.2	228.61	228.8	229.25	0.157851	3.54	1.33	5.83	2.37
Johnson	3618	10y6hSCS	3.8	228.2	228.58	228.74	229.16	0.161683	3.38	1.13	5.41	2.36
Johnson	3618	5y6hSCS	3.1	228.2	228.55	228.69	229.06	0.16088	3.19	0.97	5.07	2.33
Johnson	3618	2y6hSCS	2.1	228.2	228.49	228.62	228.92	0.17346	2.9	0.72	4.63	2.34
Johnson	3618	100y4hChicago	5.1	228.2	228.63	228.82	229.29	0.157594	3.62	1.41	6	2.38
Johnson	3618	2yrFlow100yrLake	2.1	228.2	228.49	228.62	228.92	0.17346	2.9	0.72	4.63	2.34
Johnson	3612	Timmins	10.9	227.33	228.09	228.36	228.95	0.106728	4.1	2.66	6.64	2.07
Johnson	3612	100y6hSCS	5.9	227.33	227.92	228.13	228.58	0.100341	3.61	1.64	4.78	1.97
Johnson	3612	50y6hSCS	5.3	227.33	227.88	228.09	228.55	0.095308	3.64	1.46	4.02	1.93
Johnson	3612	25y6hSCS	4.7	227.33	227.85	228.05	228.48	0.097029	3.53	1.33	3.91	1.93
Johnson	3612	10y6hSCS	3.8	227.33	227.8	228	228.36	0.099875	3.33	1.14	3.74	1.93
Johnson	3612	5y6hSCS	3.1	227.33	227.75	227.94	228.27	0.102043	3.19	0.97	3.47	1.92
Johnson	3612	2y6hSCS	2.1	227.33	227.68	227.81	228.1	0.102445	2.87	0.73	3.09	1.88
Johnson	3612	100y4hChicago	5.1	227.33	227.87	228.08	228.53	0.095756	3.6	1.42	3.98	1.93
Johnson	3612	2yrFlow100yrLake	2.1	227.33	227.68	227.81	228.1	0.102445	2.87	0.73	3.09	1.88
Johnson	3608	Timmins	10.9	227.1	227.62	227.91	228.55	0.112365	4.27	2.56	6.52	2.18
Johnson	3608	100y6hSCS	5.9	227.1	227.47	227.67	228.16	0.136751	3.68	1.6	5.98	2.27
Johnson	3608	50y6hSCS	5.3	227.1	227.44	227.64	228.13	0.150989	3.66	1.45	5.85	2.35
Johnson	3608	25y6hSCS	4.7	227.1	227.43	227.6	228.05	0.149237	3.5	1.34	5.77	2.32
Johnson	3608	10y6hSCS	3.8	227.1	227.4	227.55	227.92	0.14345	3.21	1.18	5.64	2.24
Johnson	3608	5y6hSCS	3.1	227.1	227.37	227.5	227.82	0.138859	2.96	1.05	5.53	2.17
Johnson	3608	2y6hSCS	2.1	227.1	227.34	227.43	227.65	0.127295	2.5	0.84	5.35	2.01
Johnson	3608	100y4hChicago	5.1	227.1	227.44	227.62	228.1	0.151071	3.62	1.41	5.82	2.35

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3608	2yrFlow100yrLake	2.1	227.1	227.34	227.43	227.65	0.127295	2.5	0.84	5.35	2.01
Johnson	3602	Timmins	10.9	226.19	226.83	227.12	227.82	0.139593	4.41	2.47	6.8	2.33
Johnson	3602	100y6hSCS	5.9	226.19	226.71	226.89	227.34	0.138272	3.52	1.67	6.45	2.21
Johnson	3602	50y6hSCS	5.3	226.19	226.69	226.86	227.27	0.134247	3.36	1.58	6.4	2.16
Johnson	3602	25y6hSCS	4.7	226.19	226.68	226.83	227.2	0.133564	3.21	1.46	6.34	2.13
Johnson	3602	10y6hSCS	3.8	226.19	226.65	226.78	227.1	0.133604	2.97	1.28	6.23	2.09
Johnson	3602	5y6hSCS	3.1	226.19	226.62	226.74	227.01	0.134338	2.76	1.12	6.15	2.06
Johnson	3602	2y6hSCS	2.1	226.19	226.56	226.67	226.91	0.125914	2.64	0.8	4.41	1.98
Johnson	3602	100y4hChicago	5.1	226.19	226.69	226.85	227.25	0.13386	3.31	1.54	6.38	2.15
Johnson	3602	2yrFlow100yrLake	2.1	226.19	226.56	226.67	226.91	0.125914	2.64	0.8	4.41	1.98
Johnson	3596	Timmins	10.9	225.8	226.44	226.62	227.04	0.084502	3.45	3.24	9.7	1.84
Johnson	3596	100y6hSCS	5.9	225.8	226.34	226.44	226.68	0.066852	2.56	2.33	8.97	1.57
Johnson	3596	50y6hSCS	5.3	225.8	226.33	226.42	226.63	0.064118	2.45	2.18	8.61	1.53
Johnson	3596	25y6hSCS	4.7	225.8	226.31	226.39	226.59	0.061461	2.35	2.01	8.22	1.49
Johnson	3596	10y6hSCS	3.8	225.8	226.27	226.35	226.51	0.057485	2.17	1.75	7.54	1.42
Johnson	3596	5y6hSCS	3.1	225.8	226.23	226.3	226.47	0.053789	2.16	1.43	5.76	1.39
Johnson	3596	2y6hSCS	2.1	225.8	226.13	226.2	226.37	0.058849	2.14	0.98	4.33	1.43
Johnson	3596	100y4hChicago	5.1	225.8	226.32	226.4	226.62	0.063253	2.42	2.12	8.49	1.52
Johnson	3596	2yrFlow100yrLake	2.1	225.8	226.13	226.2	226.37	0.058849	2.14	0.98	4.33	1.43
Johnson	3589.279	Timmins	10.9	225.34	225.87	226.06	226.49	0.083398	3.49	3.12	8.6	1.85
Johnson	3589.279	100y6hSCS	5.9	225.34	225.74	225.86	226.16	0.08819	2.89	2.04	7.85	1.81
Johnson	3589.279	50y6hSCS	5.3	225.34	225.71	225.84	226.13	0.088657	2.85	1.86	7.37	1.81
Johnson	3589.279	25y6hSCS	4.7	225.34	225.69	225.81	226.08	0.092412	2.78	1.69	7.17	1.83
Johnson	3589.279	10y6hSCS	3.8	225.34	225.65	225.77	226.01	0.101031	2.64	1.44	7.03	1.87
Johnson	3589.279	5y6hSCS	3.1	225.34	225.62	225.72	225.96	0.115888	2.56	1.21	6.9	1.95
Johnson	3589.279	2y6hSCS	2.1	225.34	225.58	225.66	225.83	0.115956	2.22	0.95	6.72	1.89
Johnson	3589.279	100y4hChicago	5.1	225.34	225.7	225.83	226.11	0.08945	2.83	1.8	7.23	1.81
Johnson	3589.279	2yrFlow100yrLake	2.1	225.34	225.58	225.66	225.83	0.115956	2.22	0.95	6.72	1.89
Johnson	3579	Timmins	10.9	224.04	224.6	224.86	225.46	0.102817	4.11	2.65	6.52	2.06
Johnson	3579	100y6hSCS	5.9	224.04	224.46	224.63	225.05	0.11686	3.43	1.72	6.21	2.08
Johnson	3579	50y6hSCS	5.3	224.04	224.43	224.6	225	0.120388	3.33	1.59	6.16	2.09
Johnson	3579	25y6hSCS	4.7	224.04	224.42	224.57	224.93	0.120665	3.18	1.48	6.12	2.07
Johnson	3579	10y6hSCS	3.8	224.04	224.39	224.52	224.82	0.118164	2.92	1.3	6.06	2.01
Johnson	3579	5y6hSCS	3.1	224.04	224.36	224.47	224.72	0.11144	2.66	1.17	6.01	1.93
Johnson	3579	2y6hSCS	2.1	224.04	224.32	224.4	224.59	0.113317	2.31	0.91	5.92	1.88
Johnson	3579	100y4hChicago	5.1	224.04	224.43	224.59	224.98	0.121241	3.29	1.55	6.15	2.09
Johnson	3579	2yrFlow100yrLake	2.1	224.04	224.32	224.4	224.59	0.113317	2.31	0.91	5.92	1.88
Johnson	3569	Timmins	10.9	223.37	224.14	224.3	224.71	0.048068	3.35	3.26	6.13	1.46
Johnson	3569	100y6hSCS	5.9	223.37	223.97	224.06	224.32	0.043422	2.64	2.24	5.65	1.34
Johnson	3569	50y6hSCS	5.3	223.37	223.94	224.02	224.27	0.042657	2.53	2.1	5.59	1.32
Johnson	3569	25y6hSCS	4.7	223.37	223.92	223.99	224.21	0.042062	2.41	1.95	5.52	1.3
Johnson	3569	10y6hSCS	3.8	223.37	223.87	223.93	224.13	0.041447	2.23	1.71	5.41	1.27
Johnson	3569	5y6hSCS	3.1	223.37	223.83	223.88	224.05	0.041904	2.08	1.49	5.31	1.25
Johnson	3569	2y6hSCS	2.1	223.37	223.77	223.8	223.94	0.040779	1.8	1.17	5.07	1.2
Johnson	3569	100y4hChicago	5.1	223.37	223.94	224.01	224.25	0.042409	2.49	2.05	5.57	1.31
Johnson	3569	2yrFlow100yrLake	2.1	223.37	223.77	223.8	223.94	0.040779	1.8	1.17	5.07	1.2
Johnson	3562	Timmins	10.9	223.06	223.48	223.7	224.21	0.101901	3.77	2.89	8.27	2.04
Johnson	3562	100y6hSCS	5.9	223.06	223.36	223.51	223.85	0.105697	3.09	1.91	7.64	1.97
Johnson	3562	50y6hSCS	5.3	223.06	223.34	223.48	223.8	0.106666	2.98	1.78	7.54	1.96
Johnson	3562	25y6hSCS	4.7	223.06	223.32	223.45	223.74	0.107363	2.87	1.64	7.43	1.95
Johnson	3562	10y6hSCS	3.8	223.06	223.3	223.4	223.66	0.109685	2.67	1.43	7.32	1.93
Johnson	3562	5y6hSCS	3.1	223.06	223.27	223.37	223.58	0.109894	2.47	1.25	7.25	1.9
Johnson	3562	2y6hSCS	2.1	223.06	223.23	223.3	223.47	0.113531	2.16	0.97	7.08	1.86
Johnson	3562	100y4hChicago	5.1	223.06	223.34	223.47	223.78	0.107701	2.95	1.73	7.5	1.96
Johnson	3562	2yrFlow100yrLake	2.1	223.06	223.23	223.3	223.47	0.113531	2.16	0.97	7.08	1.86
Johnson	3556	Timmins	10.9	222.91	223.6	223.6	223.87	0.022164	2.27	4.82	9.47	1.01
Johnson	3556	100y6hSCS	5.9	222.91	223.41	223.41	223.6	0.024876	1.92	3.07	8.33	1.01
Johnson	3556	50y6hSCS	5.3	222.91	223.38	223.38	223.56	0.02495	1.85	2.86	8.26	1
Johnson	3556	25y6hSCS	4.7	222.91	223.36	223.36	223.52	0.025847	1.79	2.62	8.17	1.01
Johnson	3556	10y6hSCS	3.8	222.91	223.31	223.31	223.45	0.026944	1.68	2.26	8	1.01

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3556	5y6hSCS	3.1	222.91	223.27	223.27	223.4	0.028049	1.58	1.96	7.89	1.01
Johnson	3556	2y6hSCS	2.1	222.91	223.21	223.21	223.31	0.030342	1.4	1.5	7.73	1.01
Johnson	3556	100y4hChicago	5.1	222.91	223.37	223.38	223.55	0.025471	1.84	2.78	8.23	1.01
Johnson	3556	2yrFlow100yrLake	2.1	222.91	223.21	223.21	223.31	0.030342	1.4	1.5	7.73	1.01
Johnson	3550	Timmins	10.9	222.33	223.41	223.41	223.71	0.020909	2.54	5.06	8.33	1.01
Johnson	3550	100y6hSCS	5.9	222.33	223.01	223.14	223.41	0.034358	2.87	2.36	5.14	1.25
Johnson	3550	50y6hSCS	5.3	222.33	222.96	223.07	223.36	0.037804	2.88	2.08	4.83	1.3
Johnson	3550	25y6hSCS	4.7	222.33	222.9	223.02	223.31	0.042218	2.87	1.83	4.61	1.35
Johnson	3550	10y6hSCS	3.8	222.33	222.82	222.94	223.22	0.052186	2.86	1.45	4.1	1.47
Johnson	3550	5y6hSCS	3.1	222.33	222.75	222.87	223.14	0.06198	2.82	1.19	3.83	1.56
Johnson	3550	2y6hSCS	2.1	222.33	222.65	222.76	223.02	0.083627	2.71	0.83	3.5	1.74
Johnson	3550	100y4hChicago	5.1	222.33	222.94	223.05	223.35	0.03916	2.88	2	4.76	1.31
Johnson	3550	2yrFlow100yrLake	2.1	222.33	222.65	222.76	223.02	0.083627	2.71	0.83	3.5	1.74
Johnson	3543	Timmins	10.9	221.94	223.2	223.2	223.55	0.022266	2.81	4.82	6.88	1.04
Johnson	3543	100y6hSCS	5.9	221.94	222.89	222.89	223.17	0.026083	2.49	2.9	5.56	1.08
Johnson	3543	50y6hSCS	5.3	221.94	222.84	222.85	223.11	0.027828	2.47	2.62	5.31	1.1
Johnson	3543	25y6hSCS	4.7	221.94	222.78	222.81	223.06	0.029775	2.45	2.33	5.02	1.13
Johnson	3543	10y6hSCS	3.8	221.94	222.73	222.73	222.95	0.02724	2.24	2.06	4.72	1.06
Johnson	3543	5y6hSCS	3.1	221.94	222.66	222.66	222.87	0.028243	2.15	1.75	4.36	1.07
Johnson	3543	2y6hSCS	2.1	221.94	222.54	222.54	222.72	0.030773	1.98	1.27	3.74	1.08
Johnson	3543	100y4hChicago	5.1	221.94	222.82	222.84	223.1	0.027925	2.45	2.54	5.23	1.1
Johnson	3543	2yrFlow100yrLake	2.1	221.94	222.54	222.54	222.72	0.030773	1.98	1.27	3.74	1.08
Johnson	3536	Timmins	10.9	221.38	222.39	222.66	223.22	0.105823	4.73	3.17	5	2.02
Johnson	3536	100y6hSCS	5.9	221.38	222.1	222.39	222.79	0.124187	4.37	1.91	3.91	2.1
Johnson	3536	50y6hSCS	5.3	221.38	222.06	222.26	222.72	0.130911	4.28	1.75	3.82	2.14
Johnson	3536	25y6hSCS	4.7	221.38	222.02	222.21	222.64	0.139281	4.17	1.58	3.73	2.18
Johnson	3536	10y6hSCS	3.8	221.38	221.94	222.12	222.54	0.17247	4.11	1.29	3.57	2.36
Johnson	3536	5y6hSCS	3.1	221.38	221.88	222.05	222.43	0.199366	3.96	1.09	3.45	2.48
Johnson	3536	2y6hSCS	2.1	221.38	221.79	221.93	222.23	0.250164	3.57	0.8	3.3	2.65
Johnson	3536	100y4hChicago	5.1	221.38	222.05	222.25	222.7	0.133973	4.25	1.69	3.79	2.15
Johnson	3536	2yrFlow100yrLake	2.1	221.38	221.79	221.93	222.23	0.250164	3.57	0.8	3.3	2.65
Johnson	3530	Timmins	10.9	220.77	222.32	222.36	222.74	0.033676	3.27	4.63	6.32	1.18
Johnson	3530	100y6hSCS	5.9	220.77	222.06	222.06	222.33	0.027436	2.62	3.13	5.26	1.02
Johnson	3530	50y6hSCS	5.3	220.77	222.01	222.02	222.28	0.027178	2.58	2.87	5.06	1
Johnson	3530	25y6hSCS	4.7	220.77	221.94	221.97	222.23	0.023425	2.65	2.54	4.35	0.92
Johnson	3530	10y6hSCS	3.8	220.77	221.85	221.85	222.12	0.022596	2.5	2.15	4.2	0.9
Johnson	3530	5y6hSCS	3.1	220.77	221.77	221.77	222.01	0.021839	2.36	1.82	4.07	0.88
Johnson	3530	2y6hSCS	2.1	220.77	221.59	221.61	221.83	0.024652	2.26	1.15	3.2	0.92
Johnson	3530	100y4hChicago	5.1	220.77	221.96	222	222.28	0.024832	2.76	2.66	4.4	0.95
Johnson	3530	2yrFlow100yrLake	2.1	220.77	221.59	221.61	221.83	0.024652	2.26	1.15	3.2	0.92
Johnson	3524	Timmins	10.9	220.43	221.28	221.57	222.23	0.247249	5.49	2.63	4.38	2.92
Johnson	3524	100y6hSCS	5.9	220.43	220.99	221.25	221.85	0.381405	5.52	1.5	3.4	3.31
Johnson	3524	50y6hSCS	5.3	220.43	220.95	221.19	221.8	0.407609	5.56	1.36	3.28	3.37
Johnson	3524	25y6hSCS	4.7	220.43	220.89	221.17	221.78	0.484968	5.82	1.19	3.14	3.61
Johnson	3524	10y6hSCS	3.8	220.43	220.83	221.07	221.67	0.560111	5.75	0.99	3.02	3.81
Johnson	3524	5y6hSCS	3.1	220.43	220.77	221	221.57	0.641862	5.67	0.82	2.89	4.01
Johnson	3524	2y6hSCS	2.1	220.43	220.7	220.88	221.36	0.718501	5.26	0.62	2.73	4.13
Johnson	3524	100y4hChicago	5.1	220.43	220.92	221.19	221.82	0.452251	5.78	1.28	3.21	3.52
Johnson	3524	2yrFlow100yrLake	2.1	220.43	220.7	220.88	221.36	0.718501	5.26	0.62	2.73	4.13
Johnson	3517	Timmins	10.9	219.98	221.49	221.08	221.62	0.009658	1.88	7.64	8.28	0.69
Johnson	3517	100y6hSCS	5.9	219.98	220.75	220.75	221.06	0.047855	3.04	2.79	4.88	1.41
Johnson	3517	50y6hSCS	5.3	219.98	220.71	220.71	220.99	0.049574	2.96	2.58	4.8	1.43
Johnson	3517	25y6hSCS	4.7	219.98	220.78	220.66	220.96	0.026031	2.31	2.93	4.94	1.05
Johnson	3517	10y6hSCS	3.8	219.98	220.64	220.59	220.83	0.038955	2.42	2.25	4.68	1.24
Johnson	3517	5y6hSCS	3.1	219.98	220.61	220.53	220.75	0.030597	2.09	2.14	4.62	1.1
Johnson	3517	2y6hSCS	2.1	219.98	220.46	220.46	220.6	0.045292	2.11	1.46	4.19	1.28
Johnson	3517	100y4hChicago	5.1	219.98	220.69	220.69	220.97	0.050185	2.93	2.5	4.77	1.43
Johnson	3517	2yrFlow100yrLake	2.1	219.98	220.46	220.46	220.6	0.045292	2.11	1.46	4.19	1.28
Johnson	3511	Timmins	10.9	219.66	221.49		221.59	0.002284	1.46	9.57	8.43	0.38
Johnson	3511	100y6hSCS	5.9	219.66	220.71	220.46	220.85	0.007986	1.7	3.88	5.78	0.63

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3511	50y6hSCS	5.3	219.66	220.74	220.41	220.84	0.0056	1.46	4.07	5.93	0.53
Johnson	3511	25y6hSCS	4.7	219.66	220.82		220.88	0.003217	1.18	4.53	6.29	0.41
Johnson	3511	10y6hSCS	3.8	219.66	220.68		220.74	0.00371	1.14	3.71	5.55	0.42
Johnson	3511	5y6hSCS	3.1	219.66	220.64		220.69	0.002739	0.98	3.51	5.27	0.36
Johnson	3511	2y6hSCS	2.1	219.66	220.29	220.13	220.36	0.007542	1.22	1.85	4.19	0.57
Johnson	3511	100y4hChicago	5.1	219.66	220.72	220.4	220.82	0.005769	1.45	3.93	5.82	0.53
Johnson	3511	2yrFlow100yrLake	2.1	219.66	220.29	220.13	220.36	0.007542	1.22	1.85	4.19	0.57
Johnson	3503.421	Timmins	10.9	219.4	221.53		221.56	0.000638	0.95	27.76	47.36	0.21
Johnson	3503.421	100y6hSCS	5.9	219.4	220.74		220.8	0.001627	1.09	6.61	7.4	0.31
Johnson	3503.421	50y6hSCS	5.3	219.4	220.76		220.81	0.001237	0.96	6.77	7.51	0.27
Johnson	3503.421	25y6hSCS	4.7	219.4	220.83		220.86	0.000813	0.81	7.27	7.84	0.22
Johnson	3503.421	10y6hSCS	3.8	219.4	220.69		220.72	0.000784	0.73	6.24	7.21	0.22
Johnson	3503.421	5y6hSCS	3.1	219.4	220.65		220.67	0.00059	0.62	5.94	7.06	0.19
Johnson	3503.421	2y6hSCS	2.1	219.4	220.31		220.33	0.000931	0.62	3.78	5.78	0.22
Johnson	3503.421	100y4hChicago	5.1	219.4	220.74		220.78	0.001226	0.94	6.59	7.39	0.27
Johnson	3503.421	2yrFlow100yrLake	2.1	219.4	220.31		220.33	0.000931	0.62	3.78	5.78	0.22
Johnson	3501.112	Timmins	10.9	219.19	221.55	220.6	221.55	0.000185	0.5	66.01	83.25	0.11
Johnson	3501.112	100y6hSCS	5.9	219.19	220.76	220.6	220.79	0.000975	0.84	14.89	37.93	0.23
Johnson	3501.112	50y6hSCS	5.3	219.19	220.78	220.54	220.8	0.000741	0.74	15.58	40.52	0.21
Johnson	3501.112	25y6hSCS	4.7	219.19	220.84	220.44	220.85	0.000444	0.59	18.16	41.59	0.16
Johnson	3501.112	10y6hSCS	3.8	219.19	220.7	220.27	220.71	0.000514	0.59	12.84	31.21	0.17
Johnson	3501.112	5y6hSCS	3.1	219.19	220.66	220.14	220.67	0.000414	0.52	11.51	29.91	0.15
Johnson	3501.112	2y6hSCS	2.1	219.19	219.93	219.93	220.29	0.018658	2.65	0.79	4.08	1
Johnson	3501.112	100y4hChicago	5.1	219.19	220.75	220.51	220.77	0.000739	0.73	14.62	35.81	0.2
Johnson	3501.112	2yrFlow100yrLake	2.1	219.19	219.93	219.93	220.29	0.018658	2.65	0.79	4.08	1
Johnson	3494.642	Culvert										
Johnson	3484.142	Timmins	10.9	218.3	220.47	220.47	221.55	0.012939	4.59	2.37	49.4	1
Johnson	3484.142	100y6hSCS	5.9	218.3	219.75	219.75	220.46	0.014908	3.75	1.57	13.16	1
Johnson	3484.142	50y6hSCS	5.3	218.3	219.65	219.65	220.32	0.015278	3.62	1.46	12	1
Johnson	3484.142	25y6hSCS	4.7	218.3	219.55	219.55	220.16	0.015566	3.47	1.36	9.69	1
Johnson	3484.142	10y6hSCS	3.8	218.3	219.39	219.39	219.92	0.016269	3.23	1.18	8.58	1
Johnson	3484.142	5y6hSCS	3.1	218.3	219.25	219.25	219.72	0.017426	3.04	1.02	7.67	1.01
Johnson	3484.142	2y6hSCS	2.1	218.3	219.04	219.04	219.4	0.018722	2.66	0.79	6.9	1
Johnson	3484.142	100y4hChicago	5.1	218.3	219.62	219.62	220.27	0.015347	3.57	1.43	11.07	1
Johnson	3484.142	2yrFlow100yrLake	2.1	218.3	219.04	219.04	219.4	0.018722	2.66	0.79	6.9	1
Johnson	3478.732	Timmins	10.9	218.09	218.48	218.88	220.93	0.59511	6.92	1.57	6.86	4.62
Johnson	3478.732	100y6hSCS	5.9	218.09	218.4	218.68	219.97	0.53197	5.55	1.06	5.95	4.19
Johnson	3478.732	50y6hSCS	5.3	218.09	218.39	218.65	219.84	0.477395	5.34	0.99	5.42	3.98
Johnson	3478.732	25y6hSCS	4.7	218.09	218.38	218.62	219.71	0.427165	5.11	0.92	4.92	3.78
Johnson	3478.732	10y6hSCS	3.8	218.09	218.35	218.57	219.49	0.404126	4.73	0.8	4.64	3.63
Johnson	3478.732	5y6hSCS	3.1	218.09	218.33	218.53	219.31	0.388729	4.38	0.71	4.47	3.51
Johnson	3478.732	2y6hSCS	2.1	218.09	218.3	218.46	219.02	0.374657	3.76	0.56	4.32	3.34
Johnson	3478.732	100y4hChicago	5.1	218.09	218.38	218.64	219.8	0.4552	5.27	0.97	5.21	3.9
Johnson	3478.732	2yrFlow100yrLake	2.1	218.09	218.3	218.46	219.02	0.374657	3.76	0.56	4.32	3.34
Johnson	3475	Timmins	10.9	217.66	218.22	218.6	219.56	0.167605	5.13	2.12	5.43	2.62
Johnson	3475	100y6hSCS	5.9	217.66	218.1	218.33	218.88	0.133643	3.91	1.51	4.95	2.26
Johnson	3475	50y6hSCS	5.3	217.66	218.08	218.29	218.8	0.132536	3.76	1.41	4.86	2.23
Johnson	3475	25y6hSCS	4.7	217.66	218.06	218.26	218.73	0.130598	3.62	1.3	4.67	2.2
Johnson	3475	10y6hSCS	3.8	217.66	218.02	218.19	218.6	0.120012	3.35	1.13	4.3	2.09
Johnson	3475	5y6hSCS	3.1	217.66	217.99	218.14	218.48	0.11168	3.09	1	4.1	1.99
Johnson	3475	2y6hSCS	2.1	217.66	217.94	218.05	218.29	0.096866	2.62	0.8	3.76	1.81
Johnson	3475	100y4hChicago	5.1	217.66	218.07	218.28	218.78	0.132498	3.72	1.37	4.81	2.22
Johnson	3475	2yrFlow100yrLake	2.1	217.66	217.94	218.05	218.29	0.096866	2.62	0.8	3.76	1.81
Johnson	3471	Timmins	10.9	217.43	218.02	218.27	218.88	0.111017	4.12	2.71	7.77	2.14
Johnson	3471	100y6hSCS	5.9	217.43	217.93	218.06	218.37	0.080528	2.96	2.02	7.38	1.75
Johnson	3471	50y6hSCS	5.3	217.43	217.91	218.03	218.31	0.076982	2.8	1.91	7.32	1.7
Johnson	3471	25y6hSCS	4.7	217.43	217.9	218	218.25	0.072618	2.62	1.8	7.27	1.64
Johnson	3471	10y6hSCS	3.8	217.43	217.87	217.95	218.16	0.067337	2.36	1.61	6.9	1.55
Johnson	3471	5y6hSCS	3.1	217.43	217.83	217.91	218.09	0.059121	2.26	1.37	5.61	1.46
Johnson	3471	2y6hSCS	2.1	217.43	217.79	217.83	217.97	0.050634	1.89	1.11	5.32	1.32

Creek	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson	3471	100y4hChicago	5.1	217.43	217.91	218.02	218.29	0.075862	2.74	1.87	7.3	1.68
Johnson	3471	2yrFlow100yrLake	2.1	217.43	217.79	217.83	217.97	0.050634	1.89	1.11	5.32	1.32
Johnson	3467	Timmins	10.9	217.07	217.82	218.03	218.48	0.07413	3.64	3.25	9.72	1.76
Johnson	3467	100y6hSCS	5.9	217.07	217.69	217.81	218.08	0.064741	2.77	2.18	7.51	1.57
Johnson	3467	50y6hSCS	5.3	217.07	217.67	217.78	218.03	0.064669	2.66	2.03	7.36	1.55
Johnson	3467	25y6hSCS	4.7	217.07	217.65	217.74	217.98	0.065179	2.55	1.87	7.2	1.54
Johnson	3467	10y6hSCS	3.8	217.07	217.62	217.69	217.9	0.067205	2.37	1.61	6.93	1.53
Johnson	3467	5y6hSCS	3.1	217.07	217.56	217.65	217.86	0.063751	2.42	1.28	4.87	1.5
Johnson	3467	2y6hSCS	2.1	217.07	217.49	217.56	217.73	0.070498	2.21	0.95	4.41	1.52
Johnson	3467	100y4hChicago	5.1	217.07	217.67	217.77	218.02	0.064711	2.62	1.98	7.31	1.54
Johnson	3467	2yrFlow100yrLake	2.1	217.07	217.49	217.56	217.73	0.070498	2.21	0.95	4.41	1.52
Johnson	3463	Timmins	10.9	216.81	217.45	217.63	218.12	0.131437	3.73	3.4	15.17	2.24
Johnson	3463	100y6hSCS	5.9	216.81	217.35	217.5	217.81	0.082896	3.03	2.1	10.22	1.78
Johnson	3463	50y6hSCS	5.3	216.81	217.32	217.48	217.76	0.079006	2.94	1.89	9.04	1.73
Johnson	3463	25y6hSCS	4.7	216.81	217.3	217.46	217.72	0.071129	2.88	1.67	6.91	1.66
Johnson	3463	10y6hSCS	3.8	216.81	217.24	217.4	217.64	0.06923	2.79	1.36	4.54	1.63
Johnson	3463	5y6hSCS	3.1	216.81	217.18	217.34	217.58	0.081189	2.79	1.11	4.18	1.73
Johnson	3463	2y6hSCS	2.1	216.81	217.11	217.21	217.44	0.084323	2.55	0.82	3.67	1.72
Johnson	3463	100y4hChicago	5.1	216.81	217.32	217.47	217.75	0.078177	2.91	1.82	8.24	1.72
Johnson	3463	2yrFlow100yrLake	2.1	216.81	217.11	217.21	217.44	0.084323	2.55	0.82	3.67	1.72
Johnson	3459	Timmins	10.9	216.46	216.9	217.07	217.49	0.137354	3.41	3.26	14.11	2.24
Johnson	3459	100y6hSCS	5.9	216.46	216.81	216.93	217.29	0.169293	3.08	1.94	11.53	2.36
Johnson	3459	50y6hSCS	5.3	216.46	216.79	216.92	217.25	0.173894	3	1.78	11.21	2.37
Johnson	3459	25y6hSCS	4.7	216.46	216.78	216.89	217.23	0.188898	2.97	1.59	10.82	2.44
Johnson	3459	10y6hSCS	3.8	216.46	216.75	216.86	217.15	0.190889	2.79	1.37	10.34	2.41
Johnson	3459	5y6hSCS	3.1	216.46	216.74	216.84	217.05	0.161238	2.46	1.26	10.1	2.2
Johnson	3459	2y6hSCS	2.1	216.46	216.72	216.78	216.94	0.132294	2.08	1.01	8.77	1.95
Johnson	3459	100y4hChicago	5.1	216.46	216.79	216.91	217.24	0.17452	2.97	1.73	11.11	2.37
Johnson	3459	2yrFlow100yrLake	2.1	216.46	216.72	216.78	216.94	0.132294	2.08	1.01	8.77	1.95
Johnson	3449.587	Timmins	10.9	215.69	214.86	214.8	214.95	0.071287		8.02	25.63	0
Johnson	3449.587	100y6hSCS	5.9	215.69	214.75	214.67	214.81	0.056518		5.54	20.73	0
Johnson	3449.587	50y6hSCS	5.3	215.69	214.74	214.65	214.79	0.053226		5.24	20.14	0
Johnson	3449.587	25y6hSCS	4.7	215.69	214.72	214.63	214.77	0.048635		4.89	19.04	0
Johnson	3449.587	10y6hSCS	3.8	215.69	214.69	214.6	214.73	0.04339		4.39	18.48	0
Johnson	3449.587	5y6hSCS	3.1	215.69	214.67	214.57	214.7	0.038999		3.95	17.55	0
Johnson	3449.587	2y6hSCS	2.1	215.69	214.62	214.52	214.65	0.032989		3.21	15.98	0
Johnson	3449.587	100y4hChicago	5.1	215.69	214.73	214.64	214.78	0.050581		5.1	19.74	0
Johnson	3449.587	2yrFlow100yrLake	2.1	215.69	214.62	214.52	214.65	0.032989		3.21	15.98	0
Johnson	3444.999	Timmins	10.9	215.41	214.65	214.55	214.7	0.041166		11.18	36.94	0
Johnson	3444.999	100y6hSCS	5.9	215.41	214.54	214.47	214.58	0.045327		7.28	34.56	0
Johnson	3444.999	50y6hSCS	5.3	215.41	214.53	214.46	214.56	0.049306		6.63	34.23	0
Johnson	3444.999	25y6hSCS	4.7	215.41	214.51	214.45	214.54	0.05016		6.11	33.9	0
Johnson	3444.999	10y6hSCS	3.8	215.41	214.48	214.44	214.51	0.054917		5.2	33.15	0
Johnson	3444.999	5y6hSCS	3.1	215.41	214.46	214.42	214.49	0.059701		4.48	32.2	0
Johnson	3444.999	2y6hSCS	2.1	215.41	214.43	214.4	214.45	0.061588		3.5	32.1	0
Johnson	3444.999	100y4hChicago	5.1	215.41	214.52	214.46	214.55	0.049637		6.45	34.12	0
Johnson	3444.999	2yrFlow100yrLake	2.1	215.41	214.43	214.4	214.45	0.061588		3.5	32.1	0
Johnson	3438.548		Culvert									
Johnson	3433.468	Timmins	10.9	214.65	214.63	214.43	214.65	0.013072		17.4	62.69	0
Johnson	3433.468	100y6hSCS	5.9	214.65	214.53	214.35	214.54	0.010373		12.9	61.3	0
Johnson	3433.468	50y6hSCS	5.3	214.65	214.51	214.33	214.52	0.010207		12.15	59.88	0
Johnson	3433.468	25y6hSCS	4.7	214.65	214.5	214.32	214.51	0.00972		11.47	58.61	0
Johnson	3433.468	10y6hSCS	3.8	214.65	214.47	214.29	214.48	0.009474		10.17	57.25	0
Johnson	3433.468	5y6hSCS	3.1	214.65	214.44	214.27	214.45	0.009711		8.91	55.82	0
Johnson	3433.468	2y6hSCS	2.1	214.65	214.39	214.23	214.4	0.010205		6.7	49.87	0
Johnson	3433.468	100y4hChicago	5.1	214.65	214.51	214.33	214.52	0.010061		11.92	59.21	0
Johnson	3433.468	2yrFlow100yrLake	2.1	214.65	214.39	214.23	214.4	0.010205		6.7	49.87	0
Johnson	3426.149	Timmins	10.9	214.37	214.56		214.57	0.011458	0.61	21.47	74.62	0.57
Johnson	3426.149	100y6hSCS	5.9	214.37	214.47		214.47	0.012006	0.26	14.56	73.11	0.47

Creek	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson	3426.149	50y6hSCS	5.3	214.37	214.45		214.45	0.013426	0.35	13.17	70.9	0.53
Johnson	3426.149	25y6hSCS	4.7	214.37	214.43		214.44	0.01343	0.31	12.24	70.63	0.52
Johnson	3426.149	10y6hSCS	3.8	214.37	214.4		214.41	0.015018	0.22	10.08	68.46	0.49
Johnson	3426.149	5y6hSCS	3.1	214.37	214.37		214.38	0.01488	0.04	8.28	58.38	0.32
Johnson	3426.149	2y6hSCS	2.1	214.37	214.31		214.32	0.01755		5.43	40.27	0
Johnson	3426.149	100y4hChicago	5.1	214.37	214.44		214.45	0.013515	0.34	12.84	70.8	0.53
Johnson	3426.149	2yrFlow100yrLake	2.1	214.37	214.31		214.32	0.01755		5.43	40.27	0
Johnson	3416	Timmins	10.9	214.04	214.4		214.42	0.017659	1.32	17.95	73.87	0.8
Johnson	3416	100y6hSCS	5.9	214.04	214.3		214.31	0.019641	1.13	11.24	58.27	0.81
Johnson	3416	50y6hSCS	5.3	214.04	214.27		214.29	0.019133	1.05	9.91	49	0.78
Johnson	3416	25y6hSCS	4.7	214.04	214.25		214.27	0.020835	1.03	8.89	46.67	0.81
Johnson	3416	10y6hSCS	3.8	214.04	214.22		214.23	0.019689	0.9	7.39	42.85	0.77
Johnson	3416	5y6hSCS	3.1	214.04	214.19		214.2	0.019975	0.82	6.31	38.21	0.75
Johnson	3416	2y6hSCS	2.1	214.04	214.11		214.13	0.020223	0.51	4.15	22.15	0.68
Johnson	3416	100y4hChicago	5.1	214.04	214.26		214.28	0.020809	1.06	9.38	47.77	0.81
Johnson	3416	2yrFlow100yrLake	2.1	214.04	214.11		214.13	0.020223	0.51	4.15	22.15	0.68
Johnson	3406	Timmins	10.9	213.64	214.23		214.27	0.014474	1.6	18.94	74.63	0.79
Johnson	3406	100y6hSCS	5.9	213.64	214.13	213.95	214.16	0.013515	1.4	11.77	56.71	0.74
Johnson	3406	50y6hSCS	5.3	213.64	214.11	213.94	214.13	0.013375	1.35	10.64	53.8	0.73
Johnson	3406	25y6hSCS	4.7	213.64	214.09	213.93	214.11	0.012014	1.25	9.77	47.18	0.69
Johnson	3406	10y6hSCS	3.8	213.64	214.05	213.88	214.08	0.012664	1.22	8.19	43.53	0.7
Johnson	3406	5y6hSCS	3.1	213.64	214.02	213.85	214.05	0.012918	1.18	6.96	40.31	0.7
Johnson	3406	2y6hSCS	2.1	213.64	213.95	213.78	213.97	0.012956	1.04	4.49	27.7	0.68
Johnson	3406	100y4hChicago	5.1	213.64	214.1	213.93	214.12	0.012917	1.31	10.09	49.76	0.72
Johnson	3406	2yrFlow100yrLake	2.1	213.64	213.95	213.78	213.97	0.012956	1.04	4.49	27.7	0.68
Johnson	3393	Timmins	10.9	213.41	213.84	213.78	213.93	0.056962	2.24	11.17	60.89	1.45
Johnson	3393	100y6hSCS	5.9	213.41	213.71	213.71	213.79	0.086358	1.75	4.87	37.63	1.59
Johnson	3393	50y6hSCS	5.3	213.41	213.7	213.7	213.78	0.086535	1.61	4.33	32.56	1.56
Johnson	3393	25y6hSCS	4.7	213.41	213.65	213.65	213.75	0.112478	1.58	3.31	15.86	1.72
Johnson	3393	10y6hSCS	3.8	213.41	213.61	213.61	213.71	0.107757	1.33	2.69	12.88	1.62
Johnson	3393	5y6hSCS	3.1	213.41	213.56	213.56	213.67	0.110917	1.18	2.19	10.38	1.59
Johnson	3393	2y6hSCS	2.1	213.41	213.49	213.49	213.59	0.117897	0.9	1.52	7.62	1.51
Johnson	3393	100y4hChicago	5.1	213.41	213.69	213.69	213.77	0.087722	1.56	4.12	28.94	1.56
Johnson	3393	2yrFlow100yrLake	2.1	213.41	213.49	213.49	213.59	0.117897	0.9	1.52	7.62	1.51
Johnson	3382	Timmins	10.9	212.87	213.75		213.78	0.005168	1.3	24.12	86.5	0.49
Johnson	3382	100y6hSCS	5.9	212.87	213.63	213.38	213.65	0.003068	0.9	15.84	50.98	0.37
Johnson	3382	50y6hSCS	5.3	212.87	213.61	213.36	213.63	0.002717	0.84	14.97	47.09	0.35
Johnson	3382	25y6hSCS	4.7	212.87	213.58	213.34	213.6	0.002528	0.79	13.85	43.43	0.33
Johnson	3382	10y6hSCS	3.8	212.87	213.5	213.31	213.51	0.003345	0.82	10.38	35.51	0.38
Johnson	3382	5y6hSCS	3.1	212.87	213.47	213.28	213.48	0.002804	0.72	9.38	32.81	0.34
Johnson	3382	2y6hSCS	2.1	212.87	213.38	213.23	213.39	0.003188	0.68	6.6	29.12	0.36
Johnson	3382	100y4hChicago	5.1	212.87	213.6	213.35	213.62	0.00262	0.82	14.69	46.2	0.34
Johnson	3382	2yrFlow100yrLake	2.1	212.87	213.38	213.23	213.39	0.003188	0.68	6.6	29.12	0.36
Johnson	3369	Timmins	10.9	212.74	213.68		213.7	0.007253	1.15	28.29	148.45	0.54
Johnson	3369	100y6hSCS	5.9	212.74	213.58		213.59	0.005313	0.91	15.59	103.89	0.46
Johnson	3369	50y6hSCS	5.3	212.74	213.56		213.58	0.004992	0.87	14.12	97.91	0.44
Johnson	3369	25y6hSCS	4.7	212.74	213.54		213.55	0.004917	0.84	12.05	76.28	0.43
Johnson	3369	10y6hSCS	3.8	212.74	213.42		213.44	0.009034	1.1	7.07	28.29	0.58
Johnson	3369	5y6hSCS	3.1	212.74	213.41		213.43	0.006713	0.94	6.73	27.79	0.5
Johnson	3369	2y6hSCS	2.1	212.74	213.32		213.34	0.005867	0.81	4.67	18.6	0.45
Johnson	3369	100y4hChicago	5.1	212.74	213.56		213.57	0.004852	0.85	13.65	94.25	0.43
Johnson	3369	2yrFlow100yrLake	2.1	212.74	213.32		213.34	0.005867	0.81	4.67	18.6	0.45
Johnson	3349.752	Timmins	19.3	212.24	213.63		213.64	0.001756	1.05	73.82	223.79	0.32
Johnson	3349.752	100y6hSCS	9.5	212.24	213.56		213.57	0.000756	0.66	58.61	212.21	0.21
Johnson	3349.752	50y6hSCS	8.3	212.24	213.55		213.55	0.000639	0.6	56.25	210.59	0.19
Johnson	3349.752	25y6hSCS	7	212.24	213.53		213.53	0.000511	0.53	52.16	203.17	0.17
Johnson	3349.752	10y6hSCS	6	212.24	213.38		213.39	0.001436	0.81	27.42	133.1	0.28
Johnson	3349.752	5y6hSCS	4.9	212.24	213.1	213.1	213.23	0.012037	1.8	5.08	30.46	0.75
Johnson	3349.752	2y6hSCS	3.3	212.24	212.94	212.94	213.1	0.020086	1.88	2.32	9.18	0.91
Johnson	3349.752	100y4hChicago	8	212.24	213.54		213.55	0.000617	0.59	55.36	209.94	0.19
Johnson	3349.752	2yrFlow100yrLake	3.3	212.24	212.94	212.94	213.1	0.020086	1.88	2.32	9.18	0.91

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	3345.376	Timmins	19.3	211.56	213.62	213.5	213.64	0.001792	1.02	71.9	242.91	0.28
Johnson	3345.376	100y6hSCS	9.5	211.56	213.55	213.09	213.56	0.000681	0.61	57.59	221.88	0.17
Johnson	3345.376	50y6hSCS	8.3	211.56	213.54	212.99	213.55	0.00057	0.56	55.3	219.76	0.15
Johnson	3345.376	25y6hSCS	7	211.56	213.52	212.87	213.53	0.000473	0.5	51.07	215.53	0.14
Johnson	3345.376	10y6hSCS	6	211.56	213.15	212.78	213.36	0.006784	2.02	2.97	26.08	0.58
Johnson	3345.376	5y6hSCS	4.9	211.56	212.53	212.67	213.1	0.046562	3.33	1.47	3.62	1.36
Johnson	3345.376	2y6hSCS	3.3	211.56	212.33	212.5	212.9	0.081699	3.36	0.98	3.26	1.68
Johnson	3345.376	100y4hChicago	8	211.56	213.54	212.96	213.55	0.000549	0.54	54.4	219.32	0.15
Johnson	3345.376	2yrFlow100yrLake	3.3	211.56	212.33	212.5	212.9	0.081699	3.36	0.98	3.26	1.68
Johnson	3163.811	Culvert										
Johnson	2982.311	Timmins	19.3	210.02	212.16	212.04	212.99	0.012709	4.04	4.78	227.84	0.91
Johnson	2982.311	100y6hSCS	9.5	210.02	212.04	211.34	212.27	0.003738	2.11	4.51	212.15	0.49
Johnson	2982.311	50y6hSCS	8.3	210.02	211.98	211.23	212.17	0.003204	1.9	4.36	198.21	0.45
Johnson	2982.311	25y6hSCS	7	210.02	211.69	211.11	211.88	0.004078	1.91	3.66	112.8	0.49
Johnson	2982.311	10y6hSCS	6	210.02	211.37	211.02	211.59	0.006508	2.07	2.9	39.51	0.6
Johnson	2982.311	5y6hSCS	4.9	210.02	211.18	210.92	211.39	0.007725	2.01	2.44	22.37	0.64
Johnson	2982.311	2y6hSCS	3.3	210.02	211.13	210.74	211.23	0.004229	1.43	2.31	18	0.47
Johnson	2982.311	100y4hChicago	8	210.02	211.96	211.21	212.13	0.003103	1.86	4.3	191.64	0.44
Johnson	2982.311	2yrFlow100yrLake	3.3	210.02	211.13	210.74	211.23	0.004229	1.43	2.31	18	0.47
Johnson	2974.876	Timmins	19.3	210.06	212.57		212.57	0.000152	0.41	168	277.01	0.09
Johnson	2974.876	100y6hSCS	9.5	210.06	212.15		212.15	0.00021	0.41	72.76	165.83	0.1
Johnson	2974.876	50y6hSCS	8.3	210.06	212.07		212.07	0.000235	0.42	59.61	139.16	0.11
Johnson	2974.876	25y6hSCS	7	210.06	211.77		211.78	0.000566	0.58	31.4	52.1	0.16
Johnson	2974.876	10y6hSCS	6	210.06	211.44		211.47	0.002568	1.02	16.08	45.48	0.32
Johnson	2974.876	5y6hSCS	4.9	210.06	211.15	211.13	211.27	0.013977	1.9	5.34	22.15	0.71
Johnson	2974.876	2y6hSCS	3.3	210.06	211.02	211.02	211.16	0.017092	1.9	3	12.96	0.77
Johnson	2974.876	100y4hChicago	8	210.06	212.04		212.04	0.000247	0.43	55.98	129.44	0.11
Johnson	2974.876	2yrFlow100yrLake	3.3	210.06	211.02	211.02	211.16	0.017092	1.9	3	12.96	0.77
Johnson	2885.705	Timmins	19.3	209.89	212.54		212.55	0.000213	0.46	47.98	70.46	0.12
Johnson	2885.705	100y6hSCS	9.5	209.89	212.14		212.14	0.000117	0.3	31.17	23.6	0.08
Johnson	2885.705	50y6hSCS	8.3	209.89	212.05		212.06	0.000103	0.28	29.24	22.35	0.08
Johnson	2885.705	25y6hSCS	7	209.89	211.75		211.76	0.000147	0.31	22.83	20.27	0.09
Johnson	2885.705	10y6hSCS	6	209.89	211.4		211.41	0.000283	0.37	16.17	17.61	0.12
Johnson	2885.705	5y6hSCS	4.9	209.89	211.09		211.1	0.000571	0.45	10.98	15.34	0.17
Johnson	2885.705	2y6hSCS	3.3	209.89	210.76	210.38	210.77	0.00126	0.52	6.35	12.76	0.24
Johnson	2885.705	100y4hChicago	8	209.89	212.03		212.03	0.000101	0.28	28.65	21.97	0.08
Johnson	2885.705	2yrFlow100yrLake	3.3	209.89	210.76	210.38	210.77	0.00126	0.52	6.35	12.76	0.24
Johnson	2780.736	Timmins	19.3	209.82	212.51		212.53	0.000262	0.6	53.03	112.59	0.13
Johnson	2780.736	100y6hSCS	9.5	209.82	212.12		212.13	0.000151	0.39	25.79	29.98	0.1
Johnson	2780.736	50y6hSCS	8.3	209.82	212.04		212.05	0.000138	0.36	23.54	23.56	0.09
Johnson	2780.736	25y6hSCS	7	209.82	211.73		211.74	0.000183	0.38	18.47	13.72	0.1
Johnson	2780.736	10y6hSCS	6	209.82	211.37		211.38	0.000302	0.44	13.8	12.17	0.13
Johnson	2780.736	5y6hSCS	4.9	209.82	211.03		211.04	0.000568	0.5	9.8	11.21	0.17
Johnson	2780.736	2y6hSCS	3.3	209.82	210.6		210.62	0.001631	0.62	5.34	9.97	0.27
Johnson	2780.736	100y4hChicago	8	209.82	212.01		212.02	0.000136	0.36	22.93	22.47	0.09
Johnson	2780.736	2yrFlow100yrLake	3.3	209.82	210.6		210.62	0.001631	0.62	5.34	9.97	0.27
Johnson	2767.571	Timmins	19.3	209.62	212.52	211.43	212.53	0.000142	0.47	66.31	87.49	0.1
Johnson	2767.571	100y6hSCS	9.5	209.62	212.12	210.75	212.13	0.00008	0.31	34.95	66.88	0.07
Johnson	2767.571	50y6hSCS	8.3	209.62	212.04	210.66	212.04	0.000072	0.28	30.93	27.73	0.07
Johnson	2767.571	25y6hSCS	7	209.62	211.63	210.55	211.73	0.001265	1.36	5.16	17.73	0.31
Johnson	2767.571	10y6hSCS	6	209.62	211.25	210.46	211.36	0.001875	1.43	4.18	14.44	0.36
Johnson	2767.571	5y6hSCS	4.9	209.62	210.9	210.36	211.01	0.002877	1.5	3.26	13.48	0.43
Johnson	2767.571	2y6hSCS	3.3	209.62	210.44	210.19	210.57	0.005907	1.59	2.07	11.34	0.57
Johnson	2767.571	100y4hChicago	8	209.62	212.01	210.64	212.02	0.000071	0.28	30.22	25.96	0.07
Johnson	2767.571	2yrFlow100yrLake	3.3	209.62	210.44	210.19	210.57	0.005907	1.59	2.07	11.34	0.57
Johnson	2756.221	Culvert										
Johnson	2730.169	Timmins	19.3	209.23	211.28	211.28	212.17	0.014802	4.17	4.63	16.4	1
Johnson	2730.169	100y6hSCS	9.5	209.23	210.69	210.61	211.17	0.013712	3.07	3.1	12.35	0.9

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	2730.169	50y6hSCS	8.3	209.23	210.52	210.52	211.02	0.017898	3.15	2.64	11.75	1
Johnson	2730.169	25y6hSCS	7	209.23	210.41	210.41	210.86	0.018528	2.97	2.36	11.01	1
Johnson	2730.169	10y6hSCS	6	209.23	210.4	210.32	210.74	0.014074	2.57	2.33	10.96	0.87
Johnson	2730.169	5y6hSCS	4.9	209.23	210.36	210.21	210.6	0.010983	2.2	2.22	10.74	0.76
Johnson	2730.169	2y6hSCS	3.3	209.23	210.05	210.05	210.32	0.021989	2.32	1.42	7.53	1
Johnson	2730.169	100y4hChicago	8	209.23	210.49	210.49	210.98	0.017893	3.1	2.58	11.6	0.99
Johnson	2730.169	2yrFlow100yrLake	3.3	209.23	210.05	210.05	210.32	0.021989	2.32	1.42	7.53	1
Johnson	2721.879	Timmins	19.3	208.82	210.85	210.08	210.89	0.001355	0.89	21.67	20.67	0.28
Johnson	2721.879	100y6hSCS	9.5	208.82	210.92		210.93	0.000269	0.41	23.19	21.09	0.12
Johnson	2721.879	50y6hSCS	8.3	208.82	210.74	209.78	210.75	0.000339	0.42	19.56	20.06	0.14
Johnson	2721.879	25y6hSCS	7	208.82	210.58	209.74	210.59	0.000376	0.43	16.42	18.05	0.14
Johnson	2721.879	10y6hSCS	6	208.82	210.56		210.56	0.000296	0.37	16.03	17.9	0.13
Johnson	2721.879	5y6hSCS	4.9	208.82	210.47		210.48	0.000263	0.34	14.52	17.34	0.12
Johnson	2721.879	2y6hSCS	3.3	208.82	210.15	209.51	210.16	0.000432	0.35	9.37	15.24	0.14
Johnson	2721.879	100y4hChicago	8	208.82	210.7	209.77	210.71	0.000349	0.43	18.6	19.12	0.14
Johnson	2721.879	2yrFlow100yrLake	3.3	208.82	210.15	209.51	210.16	0.000432	0.35	9.37	15.24	0.14
Johnson	2602.666	Timmins	19.3	208.48	210.74		210.77	0.000735	0.81	26.26	27.57	0.22
Johnson	2602.666	100y6hSCS	9.5	208.48	210.9		210.91	0.000121	0.35	31.2	32.43	0.09
Johnson	2602.666	50y6hSCS	8.3	208.48	210.72		210.73	0.000141	0.35	25.83	27.22	0.09
Johnson	2602.666	25y6hSCS	7	208.48	210.55		210.56	0.000156	0.34	21.75	21.89	0.1
Johnson	2602.666	10y6hSCS	6	208.48	210.54		210.54	0.00012	0.29	21.4	21.77	0.08
Johnson	2602.666	5y6hSCS	4.9	208.48	210.45		210.46	0.000101	0.26	19.62	21.14	0.08
Johnson	2602.666	2y6hSCS	3.3	208.48	210.13		210.13	0.000128	0.24	13.58	16.02	0.08
Johnson	2602.666	100y4hChicago	8	208.48	210.67		210.68	0.000149	0.35	24.51	25.54	0.1
Johnson	2602.666	2yrFlow100yrLake	3.3	208.48	210.13		210.13	0.000128	0.24	13.58	16.02	0.08
Johnson	2470.182	Timmins	19.3	208.27	210.61		210.66	0.000932	1.06	26.07	29.02	0.25
Johnson	2470.182	100y6hSCS	9.5	208.27	210.88		210.89	0.000124	0.42	42.67	77.91	0.09
Johnson	2470.182	50y6hSCS	8.3	208.27	210.7		210.71	0.000144	0.43	29.8	55.05	0.1
Johnson	2470.182	25y6hSCS	7	208.27	210.53		210.54	0.000144	0.41	24.2	23.21	0.1
Johnson	2470.182	10y6hSCS	6	208.27	210.52		210.53	0.000109	0.35	23.95	23.03	0.08
Johnson	2470.182	5y6hSCS	4.9	208.27	210.44		210.44	0.000086	0.3	22.16	22.04	0.07
Johnson	2470.182	2y6hSCS	3.3	208.27	210.12		210.12	0.000087	0.27	15.59	19.2	0.07
Johnson	2470.182	100y4hChicago	8	208.27	210.65		210.66	0.000146	0.43	27.52	37.53	0.1
Johnson	2470.182	2yrFlow100yrLake	3.3	208.27	210.12		210.12	0.000087	0.27	15.59	19.2	0.07
Johnson	2424.088	Timmins	19.3	208.11	210.53		210.6	0.001649	1.23	22.15	37.25	0.31
Johnson	2424.088	100y6hSCS	9.5	208.11	210.88		210.89	0.000151	0.43	43.46	69.39	0.1
Johnson	2424.088	50y6hSCS	8.3	208.11	210.69		210.7	0.000198	0.46	30.96	63.61	0.11
Johnson	2424.088	25y6hSCS	7	208.11	210.52		210.53	0.000222	0.45	21.86	36.83	0.11
Johnson	2424.088	10y6hSCS	6	208.11	210.51		210.52	0.000167	0.39	21.56	35.9	0.1
Johnson	2424.088	5y6hSCS	4.9	208.11	210.43		210.44	0.000137	0.34	18.91	32.34	0.09
Johnson	2424.088	2y6hSCS	3.3	208.11	210.11		210.11	0.000154	0.31	10.82	13.41	0.09
Johnson	2424.088	100y4hChicago	8	208.11	210.64		210.65	0.000214	0.46	27.75	60.54	0.11
Johnson	2424.088	2yrFlow100yrLake	3.3	208.11	210.11		210.11	0.000154	0.31	10.82	13.41	0.09
Johnson	2421.543	Timmins	19.3	208.09	210.52	209.93	210.6	0.001749	1.26	23.95	59.67	0.32
Johnson	2421.543	100y6hSCS	9.5	208.09	210.88	209.49	210.88	0.000139	0.41	49.34	77.73	0.09
Johnson	2421.543	50y6hSCS	8.3	208.09	210.69	209.39	210.7	0.000189	0.44	35.37	71.53	0.11
Johnson	2421.543	25y6hSCS	7	208.09	210.52	209.27	210.53	0.000226	0.45	23.86	58.92	0.12
Johnson	2421.543	10y6hSCS	6	208.09	210.51	209.18	210.52	0.00017	0.39	23.4	54.77	0.1
Johnson	2421.543	5y6hSCS	4.9	208.09	210.43	209.06	210.44	0.000142	0.34	19.84	40.61	0.09
Johnson	2421.543	2y6hSCS	3.3	208.09	210.11	208.88	210.11	0.000162	0.32	10.8	17.28	0.09
Johnson	2421.543	100y4hChicago	8	208.09	210.64	209.37	210.65	0.000206	0.45	31.74	69.2	0.11
Johnson	2421.543	2yrFlow100yrLake	3.3	208.09	210.11	208.88	210.11	0.000162	0.32	10.8	17.28	0.09
Johnson	2409.157	Culvert										
Johnson	2395.953	Timmins	19.3	208.26	210.51	209.93	210.53	0.000474	0.73	54.87	76.07	0.18
Johnson	2395.953	100y6hSCS	9.5	208.26	210.88	209.62	210.88	0.000047	0.26	86.69	96.95	0.06
Johnson	2395.953	50y6hSCS	8.3	208.26	210.69	209.52	210.7	0.000052	0.26	69.82	84.21	0.06
Johnson	2395.953	25y6hSCS	7	208.26	210.52	209.4	210.52	0.00006	0.26	55.76	76.98	0.06
Johnson	2395.953	10y6hSCS	6	208.26	210.51	209.31	210.52	0.000045	0.23	55.34	76.74	0.05
Johnson	2395.953	5y6hSCS	4.9	208.26	210.43	209.2	210.43	0.000038	0.2	49.27	71.47	0.05
Johnson	2395.953	2y6hSCS	3.3	208.26	209.93	209.01	209.94	0.000096	0.25	21.19	52.36	0.07

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	2395.953	100y4hChicago	8	208.26	210.64	209.49	210.65	0.000055	0.26	65.78	81.82	0.06
Johnson	2395.953	2yrFlow100yrLake	3.3	208.26	209.93	209.01	209.94	0.000096	0.25	21.19	52.36	0.07
Johnson	2391.541	Timmins	19.3	208.12	210.51		210.52	0.000275	0.63	75.88	83.93	0.14
Johnson	2391.541	100y6hSCS	9.5	208.12	210.88		210.88	0.000027	0.22	109.37	95.34	0.05
Johnson	2391.541	50y6hSCS	8.3	208.12	210.69		210.69	0.000032	0.23	91.93	89.95	0.05
Johnson	2391.541	25y6hSCS	7	208.12	210.52		210.52	0.000035	0.23	76.72	84.03	0.05
Johnson	2391.541	10y6hSCS	6	208.12	210.51		210.51	0.000026	0.2	76.26	83.98	0.04
Johnson	2391.541	5y6hSCS	4.9	208.12	210.43		210.43	0.000022	0.17	69.47	82.31	0.04
Johnson	2391.541	2y6hSCS	3.3	208.12	209.94		209.94	0.000043	0.2	33.87	58.43	0.05
Johnson	2391.541	100y4hChicago	8	208.12	210.64		210.65	0.000034	0.23	87.58	88.7	0.05
Johnson	2391.541	2yrFlow100yrLake	3.3	208.12	209.94		209.94	0.000043	0.2	33.87	58.43	0.05
Johnson	2370	Timmins	19.3	208.08	210.51		210.51	0.000129	0.45	113.38	109.09	0.1
Johnson	2370	100y6hSCS	9.5	208.08	210.88		210.88	0.000013	0.16	155.65	118.49	0.03
Johnson	2370	50y6hSCS	8.3	208.08	210.69		210.69	0.000015	0.16	133.81	113.05	0.03
Johnson	2370	25y6hSCS	7	208.08	210.52		210.52	0.000017	0.16	114.4	109.28	0.04
Johnson	2370	10y6hSCS	6	208.08	210.51		210.51	0.000012	0.14	113.8	109.17	0.03
Johnson	2370	5y6hSCS	4.9	208.08	210.43		210.43	0.00001	0.12	104.93	107.1	0.03
Johnson	2370	2y6hSCS	3.3	208.08	209.94		209.94	0.00002	0.14	54.34	83.36	0.04
Johnson	2370	100y4hChicago	8	208.08	210.64		210.65	0.000016	0.16	128.33	111.92	0.03
Johnson	2370	2yrFlow100yrLake	3.3	208.08	209.94		209.94	0.00002	0.14	54.34	83.36	0.04
Johnson	2338.491	Timmins	19.3	208	210.51		210.51	0.000096	0.37	159.98	212.54	0.08
Johnson	2338.491	100y6hSCS	9.5	208	210.88		210.88	0.000008	0.12	253.32	284.1	0.02
Johnson	2338.491	50y6hSCS	8.3	208	210.69		210.69	0.000011	0.13	202.52	250.24	0.03
Johnson	2338.491	25y6hSCS	7	208	210.52		210.52	0.000012	0.13	162.41	214.44	0.03
Johnson	2338.491	10y6hSCS	6	208	210.51		210.51	0.000009	0.11	161.25	213.63	0.03
Johnson	2338.491	5y6hSCS	4.9	208	210.43		210.43	0.000008	0.1	144.11	206.87	0.02
Johnson	2338.491	2y6hSCS	3.3	208	209.93		209.93	0.000023	0.14	54.38	129.5	0.04
Johnson	2338.491	100y4hChicago	8	208	210.64		210.65	0.000011	0.13	190.59	237.76	0.03
Johnson	2338.491	2yrFlow100yrLake	3.3	208	209.93		209.93	0.000023	0.14	54.38	129.5	0.04
Johnson	2299.574	Timmins	19.3	207.93	210.5		210.51	0.000171	0.51	120.47	185.6	0.11
Johnson	2299.574	100y6hSCS	9.5	207.93	210.88		210.88	0.000014	0.16	210.13	264.65	0.03
Johnson	2299.574	50y6hSCS	8.3	207.93	210.69		210.69	0.000019	0.18	161.99	239.7	0.04
Johnson	2299.574	25y6hSCS	7	207.93	210.52		210.52	0.000021	0.18	123.87	186.19	0.04
Johnson	2299.574	10y6hSCS	6	207.93	210.51		210.51	0.000016	0.15	122.91	186.04	0.03
Johnson	2299.574	5y6hSCS	4.9	207.93	210.43		210.43	0.000014	0.14	107.81	183.14	0.03
Johnson	2299.574	2y6hSCS	3.3	207.93	209.93		209.93	0.000042	0.21	32.6	109.98	0.05
Johnson	2299.574	100y4hChicago	8	207.93	210.64		210.64	0.000021	0.19	150.36	236.73	0.04
Johnson	2299.574	2yrFlow100yrLake	3.3	207.93	209.93		209.93	0.000042	0.21	32.6	109.98	0.05
Johnson	2296.756	Timmins	19.3	207.95	210.5	210.5	210.5	0.000172	0.48	128.84	188.41	0.11
Johnson	2296.756	100y6hSCS	9.5	207.95	210.88	209.65	210.88	0.000014	0.15	220.51	266.05	0.03
Johnson	2296.756	50y6hSCS	8.3	207.95	210.69	209.53	210.69	0.000019	0.17	171.41	249.03	0.04
Johnson	2296.756	25y6hSCS	7	207.95	210.31	209.38	210.5	0.002837	1.93	3.72	179.55	0.42
Johnson	2296.756	10y6hSCS	6	207.95	210.37	209.26	210.5	0.001893	1.61	3.93	184.08	0.35
Johnson	2296.756	5y6hSCS	4.9	207.95	210.33	209.13	210.42	0.001342	1.34	3.79	181.9	0.29
Johnson	2296.756	2y6hSCS	3.3	207.95	209.86	208.91	209.93	0.001397	1.16	2.85	76.16	0.29
Johnson	2296.756	100y4hChicago	8	207.95	210.64	209.49	210.64	0.000022	0.18	159.39	244.19	0.04
Johnson	2296.756	2yrFlow100yrLake	3.3	207.95	209.86	208.91	209.93	0.001397	1.16	2.85	76.16	0.29
Johnson	2290.768	Culvert										
Johnson	2283.861	Timmins	19.3	208.61	210.5	210.5	210.5	0.000174	0.38	134.84	193.24	0.1
Johnson	2283.861	100y6hSCS	9.5	208.61	210.18	210.18	210.88	0.014057	3.71	2.61	161.43	0.97
Johnson	2283.861	50y6hSCS	8.3	208.61	210.02	210.02	210.69	0.015614	3.63	2.29	141.53	1
Johnson	2283.861	25y6hSCS	7	208.61	209.88	209.88	210.48	0.016271	3.43	2.04	116.11	1
Johnson	2283.861	10y6hSCS	6	208.61	209.76	209.76	210.3	0.016726	3.26	1.84	71.92	1
Johnson	2283.861	5y6hSCS	4.9	208.61	209.63	209.63	210.1	0.017371	3.04	1.61	63.11	1
Johnson	2283.861	2y6hSCS	3.3	208.61	209.4	209.4	209.77	0.019686	2.69	1.23	27.98	1.01
Johnson	2283.861	100y4hChicago	8	208.61	209.99	209.99	210.64	0.015743	3.59	2.23	138.35	1
Johnson	2283.861	2yrFlow100yrLake	3.3	208.61	209.4	209.4	209.77	0.019686	2.69	1.23	27.98	1.01
Johnson	2278.452	Timmins	19.3	207.95	208.83	209.2	210.12	0.10635	5.01	3.85	7.1	2.17
Johnson	2278.452	100y6hSCS	9.5	207.95	208.49	208.86	210.33	0.402718	6	1.58	6.23	3.8

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	2278.452	50y6hSCS	8.3	207.95	208.47	208.81	210.15	0.407866	5.75	1.44	6.12	3.78
Johnson	2278.452	25y6hSCS	7	207.95	208.45	208.75	209.96	0.416768	5.45	1.28	6	3.76
Johnson	2278.452	10y6hSCS	6	207.95	208.42	208.7	209.8	0.42523	5.19	1.16	5.89	3.75
Johnson	2278.452	5y6hSCS	4.9	207.95	208.4	208.64	209.61	0.438907	4.88	1	5.77	3.74
Johnson	2278.452	2y6hSCS	3.3	207.95	208.35	208.54	209.31	0.41748	4.32	0.76	5.07	3.55
Johnson	2278.452	100y4hChicago	8	207.95	208.47	208.79	210.11	0.409587	5.68	1.41	6.09	3.77
Johnson	2278.452	2yrFlow100yrLake	3.3	207.95	208.35	208.54	209.31	0.41748	4.32	0.76	5.07	3.55
Johnson	2232.269	Timmins	19.3	207.75	208.64	208.64	208.97	0.032824	3.14	9.67	14.45	1.22
Johnson	2232.269	100y6hSCS	9.5	207.75	208.17	208.16	208.49	0.07443	3.08	4.03	7.84	1.69
Johnson	2232.269	50y6hSCS	8.3	207.75	208.09	208.09	208.41	0.092204	2.98	3.45	6.98	1.83
Johnson	2232.269	25y6hSCS	7	207.75	208.03	208.03	208.31	0.09377	2.67	3.08	6.8	1.8
Johnson	2232.269	10y6hSCS	6	207.75	207.99	207.99	208.23	0.092485	2.37	2.81	6.69	1.75
Johnson	2232.269	5y6hSCS	4.9	207.75	207.94	207.94	208.14	0.092666	1.97	2.47	6.53	1.68
Johnson	2232.269	2y6hSCS	3.3	207.75	207.86	207.86	208.01	0.079548	1.18	1.96	6.11	1.4
Johnson	2232.269	100y4hChicago	8	207.75	208.07	208.07	208.38	0.094009	2.92	3.35	6.92	1.84
Johnson	2232.269	2yrFlow100yrLake	3.3	207.75	207.86	207.86	208.01	0.079548	1.18	1.96	6.11	1.4
Johnson	2048.833	Timmins	19.3	205.76	208.2	206.96	208.27	0.001387	1.14	17.03	15.18	0.28
Johnson	2048.833	100y6hSCS	9.5	205.76	207.96	206.57	207.98	0.000483	0.65	14.64	8.92	0.16
Johnson	2048.833	50y6hSCS	8.3	205.76	207.96	206.51	207.98	0.000367	0.57	14.67	8.93	0.14
Johnson	2048.833	25y6hSCS	7	205.76	207.97	206.44	207.98	0.00026	0.48	14.7	8.94	0.12
Johnson	2048.833	10y6hSCS	6	205.76	207.97	206.39	207.98	0.00019	0.41	14.72	8.95	0.1
Johnson	2048.833	5y6hSCS	4.9	205.76	207.97	206.32	207.98	0.000127	0.33	14.74	8.96	0.08
Johnson	2048.833	2y6hSCS	3.3	205.76	206.5		206.55	0.003769	0.96	3.43	6.12	0.41
Johnson	2048.833	100y4hChicago	8	205.76	207.96	206.49	207.98	0.000341	0.54	14.68	8.93	0.14
Johnson	2048.833	2yrFlow100yrLake	3.3	205.76	206.5		206.55	0.003769	0.96	3.43	6.12	0.41
Johnson	1770.458	Timmins	19.3	204.66	208.25		208.25	0	0.02	1175.5	404.5	0
Johnson	1770.458	100y6hSCS	9.5	204.66	207.97		207.97	0	0.01	1067.31	393.22	0
Johnson	1770.458	50y6hSCS	8.3	204.66	207.97		207.97	0	0.01	1067.23	393.21	0
Johnson	1770.458	25y6hSCS	7	204.66	207.97		207.97	0	0.01	1067.17	393.21	0
Johnson	1770.458	10y6hSCS	6	204.66	207.97		207.97	0	0.01	1067.12	393.2	0
Johnson	1770.458	5y6hSCS	4.9	204.66	207.97		207.97	0	0.01	1067.13	393.2	0
Johnson	1770.458	2y6hSCS	3.3	204.66	206.53		206.53	0	0.01	526.47	361.25	0
Johnson	1770.458	100y4hChicago	8	204.66	207.97		207.97	0	0.01	1067.22	393.21	0
Johnson	1770.458	2yrFlow100yrLake	3.3	204.66	206.53		206.53	0	0.01	526.47	361.25	0
Johnson	1636.795	Timmins	19.3	204.77	208.25		208.25	0	0.02	1578.11	510.64	0
Johnson	1636.795	100y6hSCS	9.5	204.77	207.97		207.97	0	0.01	1440.08	506.55	0
Johnson	1636.795	50y6hSCS	8.3	204.77	207.97		207.97	0	0.01	1439.98	506.55	0
Johnson	1636.795	25y6hSCS	7	204.77	207.97		207.97	0	0.01	1439.9	506.55	0
Johnson	1636.795	10y6hSCS	6	204.77	207.97		207.97	0	0.01	1439.85	506.54	0
Johnson	1636.795	5y6hSCS	4.9	204.77	207.97		207.97	0	0	1439.86	506.54	0
Johnson	1636.795	2y6hSCS	3.3	204.77	206.53		206.53	0	0.01	734.41	471.01	0
Johnson	1636.795	100y4hChicago	8	204.77	207.97		207.97	0	0.01	1439.97	506.55	0
Johnson	1636.795	2yrFlow100yrLake	3.3	204.77	206.53		206.53	0	0.01	734.41	471.01	0
Johnson	1560.34	Timmins	19.3	204.74	208.25	204.88	208.25	0	0.02	1710.67	597.27	0
Johnson	1560.34	100y6hSCS	9.5	204.74	207.97	204.84	207.97	0	0.01	1566.26	580.06	0
Johnson	1560.34	50y6hSCS	8.3	204.74	207.97	204.84	207.97	0	0.01	1566.16	580.05	0
Johnson	1560.34	25y6hSCS	7	204.74	207.97	204.83	207.97	0	0.01	1566.08	580.05	0
Johnson	1560.34	10y6hSCS	6	204.74	207.97	204.83	207.97	0	0.01	1566.02	580.04	0
Johnson	1560.34	5y6hSCS	4.9	204.74	207.97	204.82	207.97	0	0	1566.03	580.04	0
Johnson	1560.34	2y6hSCS	3.3	204.74	206.53	204.82	206.53	0	0.01	808.96	514.98	0
Johnson	1560.34	100y4hChicago	8	204.74	207.97	204.84	207.97	0	0.01	1566.15	580.05	0
Johnson	1560.34	2yrFlow100yrLake	3.3	204.74	206.53	204.82	206.53	0	0.01	808.96	514.98	0
Johnson	1541.292	Timmins	19.3	204.75	208.25	205.02	208.25	0	0.03	1603.13	606.27	0
Johnson	1541.292	100y6hSCS	9.5	204.75	207.97	204.96	207.97	0	0.02	1438.95	603.36	0
Johnson	1541.292	50y6hSCS	8.3	204.75	207.97	204.95	207.97	0	0.01	1438.83	603.35	0
Johnson	1541.292	25y6hSCS	7	204.75	207.97	204.94	207.97	0	0.01	1438.74	603.34	0
Johnson	1541.292	10y6hSCS	6	204.75	207.97	204.93	207.97	0	0.01	1438.67	603.34	0
Johnson	1541.292	5y6hSCS	4.9	204.75	207.97	204.92	207.97	0	0.01	1438.69	603.34	0
Johnson	1541.292	2y6hSCS	3.3	204.75	206.53	204.89	206.53	0	0.01	684.57	479.16	0
Johnson	1541.292	100y4hChicago	8	204.75	207.97	204.95	207.97	0	0.01	1438.82	603.35	0
Johnson	1541.292	2yrFlow100yrLake	3.3	204.75	206.53	204.89	206.53	0	0.01	684.57	479.16	0

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	1482.765	Timmins	19.3	204.77	208.25	205.03	208.25	0	0.03	1648.39	696.65	0.01
Johnson	1482.765	100y6hSCS	9.5	204.77	207.97	204.99	207.97	0	0.02	1459.45	695.85	0
Johnson	1482.765	50y6hSCS	8.3	204.77	207.97	204.98	207.97	0	0.02	1459.31	695.85	0
Johnson	1482.765	25y6hSCS	7	204.77	207.97	204.96	207.97	0	0.01	1459.2	695.85	0
Johnson	1482.765	10y6hSCS	6	204.77	207.97	204.95	207.97	0	0.01	1459.13	695.85	0
Johnson	1482.765	5y6hSCS	4.9	204.77	207.97	204.94	207.97	0	0.01	1459.14	695.85	0
Johnson	1482.765	2y6hSCS	3.3	204.77	206.53	204.93	206.53	0	0.02	514.43	491.58	0
Johnson	1482.765	100y4hChicago	8	204.77	207.97	204.97	207.97	0	0.02	1459.29	695.85	0
Johnson	1482.765	2yrFlow100yrLake	3.3	204.77	206.53	204.93	206.53	0	0.02	514.43	491.58	0
Johnson	1427.489	Timmins	19.3	204.73	208.25	204.9	208.25	0	0.02	1824.16	744.76	0
Johnson	1427.489	100y6hSCS	9.5	204.73	207.97	204.85	207.97	0	0.01	1622.11	744.58	0
Johnson	1427.489	50y6hSCS	8.3	204.73	207.97	204.85	207.97	0	0.01	1621.96	744.58	0
Johnson	1427.489	25y6hSCS	7	204.73	207.97	204.84	207.97	0	0.01	1621.85	744.58	0
Johnson	1427.489	10y6hSCS	6	204.73	207.97	204.84	207.97	0	0.01	1621.76	744.58	0
Johnson	1427.489	5y6hSCS	4.9	204.73	207.97	204.83	207.97	0	0.01	1621.78	744.58	0
Johnson	1427.489	2y6hSCS	3.3	204.73	206.53	204.82	206.53	0	0.01	482.76	600.94	0
Johnson	1427.489	100y4hChicago	8	204.73	207.97	204.85	207.97	0	0.01	1621.94	744.58	0
Johnson	1427.489	2yrFlow100yrLake	3.3	204.73	206.53	204.82	206.53	0	0.01	482.76	600.94	0
Johnson	1347.835	Timmins	19.3	204.71	208.25	204.89	208.25	0	0.02	2034.89	695.95	0
Johnson	1347.835	100y6hSCS	9.5	204.71	207.97	204.85	207.97	0	0.01	1846.11	695.57	0
Johnson	1347.835	50y6hSCS	8.3	204.71	207.97	204.84	207.97	0	0.01	1845.97	695.57	0
Johnson	1347.835	25y6hSCS	7	204.71	207.97	204.83	207.97	0	0.01	1845.87	695.57	0
Johnson	1347.835	10y6hSCS	6	204.71	207.97	204.83	207.97	0	0.01	1845.79	695.57	0
Johnson	1347.835	5y6hSCS	4.9	204.71	207.97	204.82	207.97	0	0	1845.8	695.57	0
Johnson	1347.835	2y6hSCS	3.3	204.71	206.53	204.81	206.53	0	0.01	847.37	678.09	0
Johnson	1347.835	100y4hChicago	8	204.71	207.97	204.84	207.97	0	0.01	1845.96	695.57	0
Johnson	1347.835	2yrFlow100yrLake	3.3	204.71	206.53	204.81	206.53	0	0.01	847.37	678.09	0
Johnson	1249.306	Timmins	19.3	204.75	208.25		208.25	0	0.02	2137.93	762.24	0
Johnson	1249.306	100y6hSCS	9.5	204.75	207.97		207.97	0	0.01	1931.32	760.93	0
Johnson	1249.306	50y6hSCS	8.3	204.75	207.97		207.97	0	0.01	1931.17	760.93	0
Johnson	1249.306	25y6hSCS	7	204.75	207.97		207.97	0	0.01	1931.05	760.93	0
Johnson	1249.306	10y6hSCS	6	204.75	207.97		207.97	0	0.01	1930.97	760.93	0
Johnson	1249.306	5y6hSCS	4.9	204.75	207.97		207.97	0	0	1930.98	760.93	0
Johnson	1249.306	2y6hSCS	3.3	204.75	206.53		206.53	0	0.01	876.25	651.26	0
Johnson	1249.306	100y4hChicago	8	204.75	207.97		207.97	0	0.01	1931.15	760.93	0
Johnson	1249.306	2yrFlow100yrLake	3.3	204.75	206.53		206.53	0	0.01	876.25	651.26	0
Johnson	1119.792	Timmins	19.3	204.8	208.25		208.25	0	0.03	1038.32	576.48	0.01
Johnson	1119.792	100y6hSCS	9.5	204.8	207.97		207.97	0	0.02	884.77	554.4	0
Johnson	1119.792	50y6hSCS	8.3	204.8	207.97		207.97	0	0.02	884.66	554.38	0
Johnson	1119.792	25y6hSCS	7	204.8	207.97		207.97	0	0.01	884.59	554.37	0
Johnson	1119.792	10y6hSCS	6	204.8	207.97		207.97	0	0.01	884.52	554.36	0
Johnson	1119.792	5y6hSCS	4.9	204.8	207.97		207.97	0	0.01	884.53	554.36	0
Johnson	1119.792	2y6hSCS	3.3	204.8	206.53		206.53	0	0.01	286.17	268.2	0
Johnson	1119.792	100y4hChicago	8	204.8	207.97		207.97	0	0.02	884.65	554.38	0
Johnson	1119.792	2yrFlow100yrLake	3.3	204.8	206.53		206.53	0	0.01	286.17	268.2	0
Johnson	982.5439	Timmins	19.3	204.78	208.24		208.24	0.000001	0.07	427.44	287.95	0.01
Johnson	982.5439	100y6hSCS	9.5	204.78	207.97		207.97	0	0.04	356.49	222.12	0.01
Johnson	982.5439	50y6hSCS	8.3	204.78	207.97		207.97	0	0.03	356.45	222.06	0.01
Johnson	982.5439	25y6hSCS	7	204.78	207.97		207.97	0	0.03	356.42	222	0
Johnson	982.5439	10y6hSCS	6	204.78	207.97		207.97	0	0.02	356.4	221.97	0
Johnson	982.5439	5y6hSCS	4.9	204.78	207.97		207.97	0	0.02	356.4	221.98	0
Johnson	982.5439	2y6hSCS	3.3	204.78	206.53		206.53	0.000001	0.02	151.08	110.19	0.01
Johnson	982.5439	100y4hChicago	8	204.78	207.97		207.97	0	0.03	356.44	222.05	0.01
Johnson	982.5439	2yrFlow100yrLake	3.3	204.78	206.53		206.53	0.000001	0.02	151.08	110.19	0.01
Johnson	887.877	Timmins	19.3	204.8	208.24		208.24	0.000003	0.09	255.63	96.45	0.02
Johnson	887.877	100y6hSCS	9.5	204.8	207.97		207.97	0.000001	0.05	229.91	93.76	0.01
Johnson	887.877	50y6hSCS	8.3	204.8	207.97		207.97	0.000001	0.04	229.89	93.76	0.01
Johnson	887.877	25y6hSCS	7	204.8	207.97		207.97	0	0.03	229.88	93.76	0.01
Johnson	887.877	10y6hSCS	6	204.8	207.97		207.97	0	0.03	229.88	93.76	0.01
Johnson	887.877	5y6hSCS	4.9	204.8	207.97		207.97	0	0.02	229.88	93.76	0

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	887.877	2y6hSCS	3.3	204.8	206.53		206.53	0.000001	0.03	102.58	77.57	0.01
Johnson	887.877	100y4hChicago	8	204.8	207.97		207.97	0.000001	0.04	229.89	93.76	0.01
Johnson	887.877	2yrFlow100yrLake	3.3	204.8	206.53		206.53	0.000001	0.03	102.58	77.57	0.01
Johnson	724.8068	Timmins	19.3	204.79	208.24		208.24	0.000001	0.05	886.56	467.84	0.01
Johnson	724.8068	100y6hSCS	9.5	204.79	207.97		207.97	0	0.03	764.29	432.32	0.01
Johnson	724.8068	50y6hSCS	8.3	204.79	207.97		207.97	0	0.03	764.24	432.31	0
Johnson	724.8068	25y6hSCS	7	204.79	207.97		207.97	0	0.02	764.19	432.31	0
Johnson	724.8068	10y6hSCS	6	204.79	207.97		207.97	0	0.02	764.16	432.31	0
Johnson	724.8068	5y6hSCS	4.9	204.79	207.97		207.97	0	0.02	764.18	432.31	0
Johnson	724.8068	2y6hSCS	3.3	204.79	206.53		206.53	0	0.02	280.27	263.29	0.01
Johnson	724.8068	100y4hChicago	8	204.79	207.97		207.97	0	0.02	764.23	432.31	0
Johnson	724.8068	2yrFlow100yrLake	3.3	204.79	206.53		206.53	0	0.02	280.27	263.29	0.01
Johnson	720.3074	Timmins	19.3	204.79	208.24	205.78	208.24	0.000002	0.07	799.54	446.84	0.01
Johnson	720.3074	100y6hSCS	9.5	204.79	207.97	205.78	207.97	0.000001	0.04	682.76	417.9	0.01
Johnson	720.3074	50y6hSCS	8.3	204.79	207.97	205.78	207.97	0	0.03	682.71	417.89	0.01
Johnson	720.3074	25y6hSCS	7	204.79	207.97	205.78	207.97	0	0.03	682.66	417.87	0.01
Johnson	720.3074	10y6hSCS	6	204.79	207.97	205.78	207.97	0	0.02	682.64	417.87	0
Johnson	720.3074	5y6hSCS	4.9	204.79	207.97	205.78	207.97	0	0.02	682.66	417.87	0
Johnson	720.3074	2y6hSCS	3.3	204.79	206.53	205.58	206.53	0.000001	0.03	248.41	203.63	0.01
Johnson	720.3074	100y4hChicago	8	204.79	207.97	205.78	207.97	0	0.03	682.7	417.88	0.01
Johnson	720.3074	2yrFlow100yrLake	3.3	204.79	206.53	205.58	206.53	0.000001	0.03	248.41	203.63	0.01
Johnson	706.6135	Culvert										
Johnson	692.6135	Timmins	19.3	204.4	208.24	205.78	208.24	0.000002	0.08	697.98	371.27	0.01
Johnson	692.6135	100y6hSCS	9.5	204.4	207.97	205.78	207.97	0.000001	0.05	600.69	344.67	0.01
Johnson	692.6135	50y6hSCS	8.3	204.4	207.97	205.78	207.97	0.000001	0.04	600.67	344.66	0.01
Johnson	692.6135	25y6hSCS	7	204.4	207.97	205.78	207.97	0	0.03	600.66	344.66	0.01
Johnson	692.6135	10y6hSCS	6	204.4	207.97	205.65	207.97	0	0.03	600.65	344.66	0.01
Johnson	692.6135	5y6hSCS	4.9	204.4	207.97	205.51	207.97	0	0.02	600.64	344.65	0
Johnson	692.6135	2y6hSCS	3.3	204.4	206.53	205.28	206.53	0.000001	0.04	233.7	222.29	0.01
Johnson	692.6135	100y4hChicago	8	204.4	207.97	205.78	207.97	0.000001	0.04	600.67	344.66	0.01
Johnson	692.6135	2yrFlow100yrLake	3.3	204.4	206.53	205.28	206.53	0.000001	0.04	233.7	222.29	0.01
Johnson	682.7532	Timmins	19.3	204.51	208.24		208.24	0.000002	0.08	651.82	319.83	0.01
Johnson	682.7532	100y6hSCS	9.5	204.51	207.97		207.97	0.000001	0.04	568.97	287.2	0.01
Johnson	682.7532	50y6hSCS	8.3	204.51	207.97		207.97	0.000001	0.04	568.96	287.2	0.01
Johnson	682.7532	25y6hSCS	7	204.51	207.97		207.97	0	0.03	568.95	287.19	0.01
Johnson	682.7532	10y6hSCS	6	204.51	207.97		207.97	0	0.03	568.94	287.19	0
Johnson	682.7532	5y6hSCS	4.9	204.51	207.97		207.97	0	0.02	568.93	287.18	0
Johnson	682.7532	2y6hSCS	3.3	204.51	206.53		206.53	0.000001	0.04	225.04	216.07	0.01
Johnson	682.7532	100y4hChicago	8	204.51	207.97		207.97	0	0.04	568.96	287.2	0.01
Johnson	682.7532	2yrFlow100yrLake	3.3	204.51	206.53		206.53	0.000001	0.04	225.04	216.07	0.01
Johnson	607.846	Timmins	19.3	204.23	208.24		208.24	0.000003	0.09	527.09	280.6	0.02
Johnson	607.846	100y6hSCS	9.5	204.23	207.97		207.97	0.000001	0.05	452.38	275.56	0.01
Johnson	607.846	50y6hSCS	8.3	204.23	207.97		207.97	0.000001	0.05	452.38	275.56	0.01
Johnson	607.846	25y6hSCS	7	204.23	207.97		207.97	0.000001	0.04	452.38	275.56	0.01
Johnson	607.846	10y6hSCS	6	204.23	207.97		207.97	0.000001	0.03	452.38	275.56	0.01
Johnson	607.846	5y6hSCS	4.9	204.23	207.97		207.97	0	0.03	452.37	275.56	0.01
Johnson	607.846	2y6hSCS	3.3	204.23	206.53		206.53	0.000003	0.05	139.54	147.94	0.01
Johnson	607.846	100y4hChicago	8	204.23	207.97		207.97	0.000001	0.04	452.38	275.56	0.01
Johnson	607.846	2yrFlow100yrLake	3.3	204.23	206.53		206.53	0.000003	0.05	139.54	147.94	0.01
Johnson	528.6843	Timmins	19.3	204.16	208.24		208.24	0.000002	0.07	702.8	405.91	0.01
Johnson	528.6843	100y6hSCS	9.5	204.16	207.97		207.97	0	0.04	603.77	324.82	0.01
Johnson	528.6843	50y6hSCS	8.3	204.16	207.97		207.97	0	0.03	603.77	324.82	0.01
Johnson	528.6843	25y6hSCS	7	204.16	207.97		207.97	0	0.03	603.77	324.82	0
Johnson	528.6843	10y6hSCS	6	204.16	207.97		207.97	0	0.02	603.77	324.82	0
Johnson	528.6843	5y6hSCS	4.9	204.16	207.97		207.97	0	0.02	603.77	324.82	0
Johnson	528.6843	2y6hSCS	3.3	204.16	206.53		206.53	0.000001	0.03	255.16	209.59	0.01
Johnson	528.6843	100y4hChicago	8	204.16	207.97		207.97	0	0.03	603.77	324.82	0.01
Johnson	528.6843	2yrFlow100yrLake	3.3	204.16	206.53		206.53	0.000001	0.03	255.16	209.59	0.01
Johnson	525.2311	Timmins	19.3	204.17	208.24	207.22	208.24	0.000001	0.05	700.72	457.39	0.01

Creek	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Johnson	525.2311	100y6hSCS	9.5	204.17	207.97	206.09	207.97	0	0.03	596.97	313.24	0.01
Johnson	525.2311	50y6hSCS	8.3	204.17	207.97	205.92	207.97	0	0.02	596.97	313.25	0
Johnson	525.2311	25y6hSCS	7	204.17	207.97	205.74	207.97	0	0.02	596.97	313.25	0
Johnson	525.2311	10y6hSCS	6	204.17	207.97	205.59	207.97	0	0.02	596.97	313.25	0
Johnson	525.2311	5y6hSCS	4.9	204.17	207.97	205.42	207.97	0	0.01	596.97	313.24	0
Johnson	525.2311	2y6hSCS	3.3	204.17	206.44	205.14	206.52	0.000943	1.25	2.63	199.38	0.27
Johnson	525.2311	100y4hChicago	8	204.17	207.97	205.88	207.97	0	0.02	596.97	313.25	0
Johnson	525.2311	2yrFlow100yrLake	3.3	204.17	206.44	205.14	206.52	0.000943	1.25	2.63	199.38	0.27
Johnson	505.4535	Culvert										
Johnson	493.4535	Timmins	19.3	203.68	206.74	206.74	208.24	0.011532	5.42	3.56	318.18	1
Johnson	493.4535	100y6hSCS	9.5	203.68	205.79	205.61	206.56	0.009946	3.91	2.43	188.73	0.87
Johnson	493.4535	50y6hSCS	8.3	203.68	205.86	205.44	206.41	0.00673	3.29	2.52	192.56	0.72
Johnson	493.4535	25y6hSCS	7	203.68	205.82	205.26	206.23	0.005072	2.83	2.48	190.47	0.62
Johnson	493.4535	10y6hSCS	6	203.68	205.25	205.11	205.82	0.010858	3.34	1.8	118.36	0.86
Johnson	493.4535	5y6hSCS	4.9	203.68	204.93	204.93	205.54	0.015721	3.44	1.42	79.26	1
Johnson	493.4535	2y6hSCS	3.3	203.68	204.65	204.65	205.12	0.017113	3.01	1.1	55.09	1
Johnson	493.4535	100y4hChicago	8	203.68	205.86	205.4	206.37	0.006246	3.17	2.52	192.59	0.69
Johnson	493.4535	2yrFlow100yrLake	3.3	203.68	204.65	204.65	205.12	0.017113	3.01	1.1	55.09	1
Johnson	487.68	Timmins	19.3	203.75	206.38	204.43	206.38	0.000007	0.11	513.88	350.36	0.02
Johnson	487.68	100y6hSCS	9.5	203.75	206.17		206.17	0.000003	0.07	442.61	345.53	0.01
Johnson	487.68	50y6hSCS	8.3	203.75	206.14		206.14	0.000002	0.06	429.92	344.92	0.01
Johnson	487.68	25y6hSCS	7	203.75	206.03		206.03	0.000002	0.06	392.11	342.08	0.01
Johnson	487.68	10y6hSCS	6	203.75	205.53		205.53	0.000006	0.08	229.64	304.48	0.02
Johnson	487.68	5y6hSCS	4.9	203.75	205	204.18	205.01	0.000047	0.18	86.29	236.7	0.05
Johnson	487.68	2y6hSCS	3.3	203.75	204.62	204.09	204.63	0.00018	0.26	26.37	64.59	0.1
Johnson	487.68	100y4hChicago	8	203.75	206.12		206.12	0.000002	0.06	423.34	344.61	0.01
Johnson	487.68	2yrFlow100yrLake	3.3	203.75	204.62	204.09	204.63	0.00018	0.26	26.37	64.59	0.1
Johnson	412.3536	Timmins	19.3	203.68	206.38		206.38	0.000018	0.18	276.41	173.33	0.04
Johnson	412.3536	100y6hSCS	9.5	203.68	206.17		206.17	0.000007	0.1	241.36	170.28	0.02
Johnson	412.3536	50y6hSCS	8.3	203.68	206.14		206.14	0.000006	0.09	235.12	170.13	0.02
Johnson	412.3536	25y6hSCS	7	203.68	206.03		206.03	0.000005	0.08	216.44	169.68	0.02
Johnson	412.3536	10y6hSCS	6	203.68	205.53		205.53	0.000014	0.12	134.17	161.71	0.03
Johnson	412.3536	5y6hSCS	4.9	203.68	205		205	0.000062	0.18	61.19	98.94	0.06
Johnson	412.3536	2y6hSCS	3.3	203.68	204.61		204.61	0.000197	0.24	27.8	67.1	0.1
Johnson	412.3536	100y4hChicago	8	203.68	206.12		206.12	0.000005	0.09	231.87	170.05	0.02
Johnson	412.3536	2yrFlow100yrLake	3.3	203.68	204.61		204.61	0.000197	0.24	27.8	67.1	0.1
Johnson	309.6899	Timmins	19.3	203.65	206.38		206.38	0.00002	0.19	301.09	291.93	0.04
Johnson	309.6899	100y6hSCS	9.5	203.65	206.17		206.17	0.000008	0.11	248.55	238.95	0.02
Johnson	309.6899	50y6hSCS	8.3	203.65	206.14		206.14	0.000007	0.1	239.94	232.02	0.02
Johnson	309.6899	25y6hSCS	7	203.65	206.03		206.03	0.000007	0.1	215.12	222.65	0.02
Johnson	309.6899	10y6hSCS	6	203.65	205.53		205.53	0.00003	0.17	107.9	208.56	0.04
Johnson	309.6899	5y6hSCS	4.9	203.65	204.98		204.99	0.000261	0.39	29.62	95.86	0.12
Johnson	309.6899	2y6hSCS	3.3	203.65	204.54		204.56	0.001387	0.63	5.25	8.52	0.26
Johnson	309.6899	100y4hChicago	8	203.65	206.12		206.12	0.000007	0.1	235.55	228.87	0.02
Johnson	309.6899	2yrFlow100yrLake	3.3	203.65	204.54		204.56	0.001387	0.63	5.25	8.52	0.26
Johnson	308.3116	Timmins	19.3	203.61	206.38	205.17	206.38	0.000019	0.19	311.77	323.79	0.04
Johnson	308.3116	100y6hSCS	9.5	203.61	206.17	204.83	206.17	0.000008	0.11	254.13	253.41	0.02
Johnson	308.3116	50y6hSCS	8.3	203.61	206.14	204.73	206.14	0.000007	0.1	245	247.42	0.02
Johnson	308.3116	25y6hSCS	7	203.61	206.03	204.61	206.03	0.000006	0.1	219.17	225.74	0.02
Johnson	308.3116	10y6hSCS	6	203.61	205.53	204.52	205.53	0.000027	0.17	111.93	201.69	0.04
Johnson	308.3116	5y6hSCS	4.9	203.61	204.81	204.41	204.97	0.004483	1.78	2.76	70.44	0.53
Johnson	308.3116	2y6hSCS	3.3	203.61	204.24	204.24	204.53	0.020238	2.38	1.39	6.49	1
Johnson	308.3116	100y4hChicago	8	203.61	206.12	204.71	206.12	0.000007	0.1	240.31	244.02	0.02
Johnson	308.3116	2yrFlow100yrLake	3.3	203.61	204.24	204.24	204.53	0.020238	2.38	1.39	6.49	1
Johnson	163.9316	Culvert										
Johnson	23.93161	Timmins	19.3	203.06	205.7	204.65	205.7	0.000003	0.08	805.48	587.54	0.02
Johnson	23.93161	100y6hSCS	9.5	203.06	205.53	204.32	205.53	0.000001	0.04	705.01	578.54	0.01
Johnson	23.93161	50y6hSCS	8.3	203.06	205.52	204.23	205.52	0.000001	0.04	701.15	578.3	0.01
Johnson	23.93161	25y6hSCS	7	203.06	205.42	204.11	205.42	0.000001	0.04	641.57	571.52	0.01

Creek	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Johnson	23.93161	10y6hSCS	6	203.06	204.95	204.02	204.95	0.000003	0.06	386.7	511.43	0.01
Johnson	23.93161	5y6hSCS	4.9	203.06	204.58	203.9	204.68	0.002342	1.44	3.41	466.64	0.38
Johnson	23.93161	2y6hSCS	3.3	203.06	204.13	203.73	204.23	0.003701	1.41	2.35	197.15	0.45
Johnson	23.93161	100y4hChicago	8	203.06	205.51	204.2	205.51	0.000001	0.04	695.77	577.58	0.01
Johnson	23.93161	2yrFlow100yrLake	3.3	203.06	204.13	203.73	204.23	0.003701	1.41	2.35	197.15	0.45
Johnson	21.02631	Timmins	19.3	203.07	205.7		205.7	0.000003	0.08	807.81	586.39	0.02
Johnson	21.02631	100y6hSCS	9.5	203.07	205.53		205.53	0.000001	0.04	708	569.48	0.01
Johnson	21.02631	50y6hSCS	8.3	203.07	205.52		205.52	0.000001	0.04	704.19	569.2	0.01
Johnson	21.02631	25y6hSCS	7	203.07	205.42		205.42	0.000001	0.03	645.39	565.14	0.01
Johnson	21.02631	10y6hSCS	6	203.07	204.95		204.95	0.000003	0.05	393.39	507.63	0.01
Johnson	21.02631	5y6hSCS	4.9	203.07	204.63		204.63	0.000008	0.08	235.8	470.93	0.02
Johnson	21.02631	2y6hSCS	3.3	203.07	204.18		204.18	0.000168	0.29	50.99	262.59	0.1
Johnson	21.02631	100y4hChicago	8	203.07	205.51		205.51	0.000001	0.04	698.9	568.85	0.01
Johnson	21.02631	2yrFlow100yrLake	3.3	203.07	204.18		204.18	0.000168	0.29	50.99	262.59	0.1
Johnson	5.809449	Timmins	19.3	203.04	205.7		205.7	0.000003	0.07	877.69	621.24	0.01
Johnson	5.809449	100y6hSCS	9.5	203.04	205.53		205.53	0.000001	0.04	772.19	605.46	0.01
Johnson	5.809449	50y6hSCS	8.3	203.04	205.52		205.52	0.000001	0.03	768.14	605.38	0.01
Johnson	5.809449	25y6hSCS	7	203.04	205.42		205.42	0.000001	0.03	705.46	604.27	0.01
Johnson	5.809449	10y6hSCS	6	203.04	204.95		204.95	0.000002	0.05	439.42	526.69	0.01
Johnson	5.809449	5y6hSCS	4.9	203.04	204.63		204.63	0.000005	0.07	276.53	483.25	0.02
Johnson	5.809449	2y6hSCS	3.3	203.04	204.18		204.18	0.000005	0.16	88.21	339.64	0.05
Johnson	5.809449	100y4hChicago	8	203.04	205.51		205.51	0.000001	0.03	762.51	605.27	0.01
Johnson	5.809449	2yrFlow100yrLake	3.3	203.04	204.18		204.18	0.000005	0.16	88.21	339.64	0.05
Johnson	5.809449	100y4hChicago	8	203.04	205.51		205.51	0.000001	0.03	759.78	605.21	0.01
Johnson	5.809449	2yrFlow100yrLake	3.3	203.04	204.17		204.17	0.000055	0.17	85.06	333.48	0.05

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview	Upper	3112.06	Timmins	13.4	218.74	219.52	219.68	219.98	0.039978	3.04	5	15.99	1.36
Eastview	Upper	3112.06	100y6hSCS	7.3	218.74	219.33	219.43	219.67	0.039922	2.61	2.79	6.85	1.31
Eastview	Upper	3112.06	50y6hSCS	6.3	218.74	219.29	219.36	219.6	0.039904	2.49	2.53	6.66	1.29
Eastview	Upper	3112.06	25y6hSCS	5.3	218.74	219.25	219.31	219.53	0.039906	2.35	2.25	6.47	1.27
Eastview	Upper	3112.06	10y6hSCS	4	218.74	219.3	219.23	219.42	0.014313	1.52	2.63	6.73	0.78
Eastview	Upper	3112.06	5y6hSCS	3.1	218.74	219.25	219.18	219.34	0.013504	1.37	2.26	6.47	0.74
Eastview	Upper	3112.06	2y6hSCS	1.9	218.74	219.14	219.08	219.21	0.014352	1.19	1.6	5.98	0.73
Eastview	Upper	3112.06	100y4hChicago	5.7	218.74	219.26	219.33	219.56	0.039907	2.41	2.36	6.55	1.28
Eastview	Upper	3112.06	2yrFlow100yrLake	1.9	218.74	219.14	219.08	219.21	0.014352	1.19	1.6	5.98	0.73
Eastview	Upper	3105	Timmins	13.4	218.6	219.43	219.51	219.72	0.025121	2.58	8.14	28.5	1.09
Eastview	Upper	3105	100y6hSCS	7.3	218.6	219.33	219.33	219.48	0.015813	1.84	5.52	24.38	0.85
Eastview	Upper	3105	50y6hSCS	6.3	218.6	219.28	219.28	219.44	0.017673	1.83	4.4	21.09	0.88
Eastview	Upper	3105	25y6hSCS	5.3	218.6	219.22	219.22	219.38	0.019737	1.82	3.33	14.59	0.92
Eastview	Upper	3105	10y6hSCS	4	218.6	219.13	219.13	219.29	0.022744	1.8	2.33	9.16	0.96
Eastview	Upper	3105	5y6hSCS	3.1	218.6	219.05	219.05	219.21	0.025604	1.76	1.76	5.73	1
Eastview	Upper	3105	2y6hSCS	1.9	218.6	218.94	218.94	219.07	0.027473	1.58	1.21	4.81	1.01
Eastview	Upper	3105	100y4hChicago	5.7	218.6	219.25	219.25	219.41	0.0182	1.79	3.84	18.4	0.89
Eastview	Upper	3105	2yrFlow100yrLake	1.9	218.6	218.94	218.94	219.07	0.027473	1.58	1.21	4.81	1.01
Eastview	Upper	3098	Timmins	13.4	218.47	218.71	218.87	219.24	0.464219	4.71	4.62	22.72	3.83
Eastview	Upper	3098	100y6hSCS	7.3	218.47	218.59	218.73	219.11	0.9892	3.85	2.31	16.48	4.85
Eastview	Upper	3098	50y6hSCS	6.3	218.47	218.58	218.71	219.03	0.96459	3.41	2.12	16.23	4.67
Eastview	Upper	3098	25y6hSCS	5.3	218.47	218.56	218.68	218.95	0.918607	3	1.93	15.82	4.44
Eastview	Upper	3098	10y6hSCS	4	218.47	218.55	218.63	218.83	0.741921	2.44	1.72	15.21	3.89
Eastview	Upper	3098	5y6hSCS	3.1	218.47	218.54	218.6	218.73	0.519442	1.94	1.64	14.96	3.21
Eastview	Upper	3098	2y6hSCS	1.9	218.47	218.61	218.55	218.64	0.037459	0.91	2.77	17.57	0.99
Eastview	Upper	3098	100y4hChicago	5.7	218.47	218.57	218.68	218.99	0.99203	3.18	1.97	15.94	4.63
Eastview	Upper	3098	2yrFlow100yrLake	1.9	218.47	218.61	218.55	218.64	0.037459	0.91	2.77	17.57	0.99
Eastview	Upper	3091	Timmins	13.4	218.35	218.29	218.29	218.41	0.148902		8.7	37.21	0
Eastview	Upper	3091	100y6hSCS	7.3	218.35	218.21	218.21	218.29	0.171304		5.59	34.22	0
Eastview	Upper	3091	50y6hSCS	6.3	218.35	218.19	218.19	218.27	0.168541		5.12	33.98	0
Eastview	Upper	3091	25y6hSCS	5.3	218.35	218.17	218.17	218.24	0.176283		4.48	33.45	0
Eastview	Upper	3091	10y6hSCS	4	218.35	218.15	218.15	218.21	0.161061		3.84	32.53	0
Eastview	Upper	3091	5y6hSCS	3.1	218.35	218.13	218.13	218.18	0.152677		2.99	28.07	0
Eastview	Upper	3091	2y6hSCS	1.9	218.35	218.08	218.08	218.13	0.191085		1.93	19.86	0
Eastview	Upper	3091	100y4hChicago	5.7	218.35	218.18	218.18	218.25	0.178543		4.73	33.78	0
Eastview	Upper	3091	2yrFlow100yrLake	1.9	218.35	218.08	218.08	218.13	0.191085		1.93	19.86	0
Eastview	Upper	3086	Timmins	13.4	218.16	217.95	217.82	218	0.038804		13.5	40.97	0
Eastview	Upper	3086	100y6hSCS	7.3	218.16	217.83	217.73	217.86	0.035861		9.04	35.25	0
Eastview	Upper	3086	50y6hSCS	6.3	218.16	217.81	217.72	217.84	0.034772		8.32	34.97	0
Eastview	Upper	3086	25y6hSCS	5.3	218.16	217.78	217.7	217.81	0.034674		7.49	34.79	0
Eastview	Upper	3086	10y6hSCS	4	218.16	217.75	217.67	217.77	0.033646		6.33	34.47	0
Eastview	Upper	3086	5y6hSCS	3.1	218.16	217.72	217.65	217.74	0.032732		5.42	33.88	0
Eastview	Upper	3086	2y6hSCS	1.9	218.16	217.68	217.61	217.69	0.031047		3.96	31.67	0
Eastview	Upper	3086	100y4hChicago	5.7	218.16	217.79	217.7	217.82	0.034752		7.83	34.84	0
Eastview	Upper	3086	2yrFlow100yrLake	1.9	218.16	217.68	217.61	217.69	0.031047		3.96	31.67	0
Eastview	Upper	3080	Timmins	13.4	217.92	217.58		217.65	0.068872		11.01	40.58	0
Eastview	Upper	3080	100y6hSCS	7.3	217.92	217.48		217.53	0.072126		7.39	36	0
Eastview	Upper	3080	50y6hSCS	6.3	217.92	217.46		217.51	0.075609		6.65	35.71	0
Eastview	Upper	3080	25y6hSCS	5.3	217.92	217.44		217.48	0.074667		5.85	35.3	0
Eastview	Upper	3080	10y6hSCS	4	217.92	217.41		217.44	0.078381		4.8	34.64	0
Eastview	Upper	3080	5y6hSCS	3.1	217.92	217.39		217.42	0.077297		4.07	32.95	0
Eastview	Upper	3080	2y6hSCS	1.9	217.92	217.35		217.37	0.083666		2.88	29.5	0
Eastview	Upper	3080	100y4hChicago	5.7	217.92	217.45		217.49	0.075104		6.12	35.47	0
Eastview	Upper	3080	2yrFlow100yrLake	1.9	217.92	217.35		217.37	0.083666		2.88	29.5	0
Eastview	Upper	3074.643	Timmins	13.4	217.76	217.26		217.32	0.057067		12.97	53.99	0
Eastview	Upper	3074.643	100y6hSCS	7.3	217.76	217.18		217.21	0.048146		8.98	43.36	0
Eastview	Upper	3074.643	50y6hSCS	6.3	217.76	217.17		217.19	0.046198		8.3	43.09	0
Eastview	Upper	3074.643	25y6hSCS	5.3	217.76	217.15		217.17	0.045229		7.51	42.81	0
Eastview	Upper	3074.643	10y6hSCS	4	217.76	217.12		217.14	0.042603		6.44	42.43	0
Eastview	Upper	3074.643	5y6hSCS	3.1	217.76	217.1		217.12	0.04233		5.52	42.11	0
Eastview	Upper	3074.643	2y6hSCS	1.9	217.76	217.06		217.08	0.03925		4.01	39.05	0
Eastview	Upper	3074.643	100y4hChicago	5.7	217.76	217.16		217.18	0.044982		7.87	42.94	0
Eastview	Upper	3074.643	2yrFlow100yrLake	1.9	217.76	217.06		217.08	0.03925		4.01	39.05	0

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview	Upper	3068	Timmins	13.4	217.79	216.88	216.83	216.92	0.072134		14.21	79.22	0
Eastview	Upper	3068	100y6hSCS	7.3	217.79	216.81	216.78	216.84	0.079938		8.98	69.45	0
Eastview	Upper	3068	50y6hSCS	6.3	217.79	216.79	216.77	216.83	0.081541		8.07	67.01	0
Eastview	Upper	3068	25y6hSCS	5.3	217.79	216.78	216.75	216.81	0.081463		7.19	64.55	0
Eastview	Upper	3068	10y6hSCS	4	217.79	216.76	216.73	216.78	0.084744		5.82	60.49	0
Eastview	Upper	3068	5y6hSCS	3.1	217.79	216.74	216.7	216.76	0.08496		4.66	50.39	0
Eastview	Upper	3068	2y6hSCS	1.9	217.79	216.69	216.67	216.71	0.099904		2.71	31.05	0
Eastview	Upper	3068	100y4hChicago	5.7	217.79	216.79	216.76	216.82	0.082842		7.51	65.44	0
Eastview	Upper	3068	2yrFlow100yrLake	1.9	217.79	216.69	216.67	216.71	0.099904		2.71	31.05	0
Eastview	Upper	3057	Timmins	13.4	217.09	216.35		216.38	0.03538		18.55	94.14	0
Eastview	Upper	3057	100y6hSCS	7.3	217.09	216.26		216.29	0.034233		11.02	74.92	0
Eastview	Upper	3057	50y6hSCS	6.3	217.09	216.25		216.27	0.034501		9.68	70.58	0
Eastview	Upper	3057	25y6hSCS	5.3	217.09	216.23		216.25	0.034977		8.26	64.4	0
Eastview	Upper	3057	10y6hSCS	4	217.09	216.19		216.21	0.034617		6.41	53.25	0
Eastview	Upper	3057	5y6hSCS	3.1	217.09	216.17		216.18	0.035403		5.03	41.84	0
Eastview	Upper	3057	2y6hSCS	1.9	217.09	216.11		216.13	0.032612		3.45	23.33	0
Eastview	Upper	3057	100y4hChicago	5.7	217.09	216.24		216.26	0.034079		8.92	67.35	0
Eastview	Upper	3057	2yrFlow100yrLake	1.9	217.09	216.11		216.13	0.032612		3.45	23.33	0
Eastview	Upper	3046	Timmins	13.4	217.08	215.99		216.01	0.029481		21.26	116.34	0
Eastview	Upper	3046	100y6hSCS	7.3	217.08	215.91		215.93	0.028907		13.34	88.86	0
Eastview	Upper	3046	50y6hSCS	6.3	217.08	215.9		215.91	0.028387		11.99	82.82	0
Eastview	Upper	3046	25y6hSCS	5.3	217.08	215.88		215.89	0.027277		10.51	77.04	0
Eastview	Upper	3046	10y6hSCS	4	217.08	215.85	215.78	215.86	0.027238		8.53	67.11	0
Eastview	Upper	3046	5y6hSCS	3.1	217.08	215.83	215.76	215.84	0.026045		7.19	62.7	0
Eastview	Upper	3046	2y6hSCS	1.9	217.08	215.79	215.72	215.8	0.025553		4.85	51.34	0
Eastview	Upper	3046	100y4hChicago	5.7	217.08	215.89		215.9	0.028617		11.11	79.56	0
Eastview	Upper	3046	2yrFlow100yrLake	1.9	217.08	215.79	215.72	215.8	0.025553		4.85	51.34	0
Eastview	Upper	3036	Timmins	13.4	216.85	215.7		215.72	0.029228		20.61	107.74	0
Eastview	Upper	3036	100y6hSCS	7.3	216.85	215.62		215.63	0.030754		12.59	87.96	0
Eastview	Upper	3036	50y6hSCS	6.3	216.85	215.6		215.61	0.03193		11.07	81.49	0
Eastview	Upper	3036	25y6hSCS	5.3	216.85	215.58		215.59	0.032976		9.58	74.67	0
Eastview	Upper	3036	10y6hSCS	4	216.85	215.55		215.56	0.033017		7.53	64.48	0
Eastview	Upper	3036	5y6hSCS	3.1	216.85	215.52		215.54	0.035983		5.96	54.17	0
Eastview	Upper	3036	2y6hSCS	1.9	216.85	215.48		215.5	0.036688		4.11	42.26	0
Eastview	Upper	3036	100y4hChicago	5.7	216.85	215.59		215.6	0.03154		10.3	78.08	0
Eastview	Upper	3036	2yrFlow100yrLake	1.9	216.85	215.48		215.5	0.036688		4.11	42.26	0
Eastview	Upper	3021	Timmins	13.4	216.75	215.4	215.25	215.41	0.013908		26.84	122.4	0
Eastview	Upper	3021	100y6hSCS	7.3	216.75	215.31	215.18	215.32	0.013601		16.89	99.1	0
Eastview	Upper	3021	50y6hSCS	6.3	216.75	215.3	215.17	215.3	0.013392		15.25	92.9	0
Eastview	Upper	3021	25y6hSCS	5.3	216.75	215.28	215.15	215.28	0.013039		13.45	86.59	0
Eastview	Upper	3021	10y6hSCS	4	216.75	215.24	215.12	215.25	0.013248		10.72	76.69	0
Eastview	Upper	3021	5y6hSCS	3.1	216.75	215.22	215.1	215.22	0.012901		8.88	61.6	0
Eastview	Upper	3021	2y6hSCS	1.9	216.75	215.17	215.08	215.18	0.012866		6.38	54.16	0
Eastview	Upper	3021	100y4hChicago	5.7	216.75	215.28	215.16	215.29	0.013762		14.04	88.78	0
Eastview	Upper	3021	2yrFlow100yrLake	1.9	216.75	215.17	215.08	215.18	0.012866		6.38	54.16	0
Eastview	Upper	3009.138	Timmins	13.4	216.65	214.95	214.95	215.04	0.136645		10.49	65.28	0
Eastview	Upper	3009.138	100y6hSCS	7.3	216.65	214.88	214.88	214.95	0.145663		6.4	48.84	0
Eastview	Upper	3009.138	50y6hSCS	6.3	216.65	214.87	214.87	214.93	0.153017		5.59	45.33	0
Eastview	Upper	3009.138	25y6hSCS	5.3	216.65	214.84	214.84	214.91	0.172953		4.55	35.83	0
Eastview	Upper	3009.138	10y6hSCS	4	216.65	214.82	214.82	214.87	0.168694		3.78	33.11	0
Eastview	Upper	3009.138	5y6hSCS	3.1	216.65	214.8	214.8	214.85	0.180463		3.12	30.88	0
Eastview	Upper	3009.138	2y6hSCS	1.9	216.65	214.76	214.76	214.8	0.195039		2.09	25.24	0
Eastview	Upper	3009.138	100y4hChicago	5.7	216.65	214.85	214.85	214.92	0.142728		5.13	40.56	0
Eastview	Upper	3009.138	2yrFlow100yrLake	1.9	216.65	214.76	214.76	214.8	0.195039		2.09	25.24	0
Eastview	Upper	2957.83	Timmins	13.4	215.77	214.83	214.59	214.83	0.001373		84.26	339.74	0
Eastview	Upper	2957.83	100y6hSCS	7.3	215.77	214.75	214.55	214.75	0.001183		59.35	314.05	0
Eastview	Upper	2957.83	50y6hSCS	6.3	215.77	214.74	214.55	214.74	0.001143		54.26	305.78	0
Eastview	Upper	2957.83	25y6hSCS	5.3	215.77	214.72	214.54	214.72	0.001106		48.87	297.28	0
Eastview	Upper	2957.83	10y6hSCS	4	215.77	214.69	214.53	214.69	0.001041		41.28	288.3	0
Eastview	Upper	2957.83	5y6hSCS	3.1	215.77	214.67	214.52	214.67	0.000975		35.1	277.4	0
Eastview	Upper	2957.83	2y6hSCS	1.9	215.77	214.64	214.5	214.64	0.000909		25.65	247.86	0
Eastview	Upper	2957.83	100y4hChicago	5.7	215.77	214.73	214.54	214.73	0.001121		50.98	300.46	0
Eastview	Upper	2957.83	2yrFlow100yrLake	1.9	215.77	214.64	214.5	214.64	0.000909		25.65	247.86	0

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview	Upper	2927.809	Timmins	13.4	215.27	214.77		214.77	0.001929		79.11	375.66	0
Eastview	Upper	2927.809	100y6hSCS	7.3	215.27	214.7		214.7	0.001777		54	342.94	0
Eastview	Upper	2927.809	50y6hSCS	6.3	215.27	214.69		214.69	0.001728		49.05	332.52	0
Eastview	Upper	2927.809	25y6hSCS	5.3	215.27	214.67		214.67	0.001694		43.53	319.9	0
Eastview	Upper	2927.809	10y6hSCS	4	215.27	214.65		214.65	0.001633		36.15	299.3	0
Eastview	Upper	2927.809	5y6hSCS	3.1	215.27	214.62		214.62	0.001684		30.03	279.68	0
Eastview	Upper	2927.809	2y6hSCS	1.9	215.27	214.59		214.59	0.001632		21.54	247.61	0
Eastview	Upper	2927.809	100y4hChicago	5.7	215.27	214.68		214.68	0.001706		45.69	325.23	0
Eastview	Upper	2927.809	2yrFlow100yrLake	1.9	215.27	214.59		214.59	0.001632		21.54	247.61	0
Eastview	Upper	2900.87	Timmins	13.4	214.88	214.66		214.66	0.00358		65.51	389.65	0
Eastview	Upper	2900.87	100y6hSCS	7.3	214.88	214.59		214.59	0.003786		40.8	328.63	0
Eastview	Upper	2900.87	50y6hSCS	6.3	214.88	214.58		214.58	0.003762		36.61	312.75	0
Eastview	Upper	2900.87	25y6hSCS	5.3	214.88	214.56		214.56	0.003856		31.85	292.51	0
Eastview	Upper	2900.87	10y6hSCS	4	214.88	214.54		214.54	0.003973		25.12	258.06	0
Eastview	Upper	2900.87	5y6hSCS	3.1	214.88	214.52		214.52	0.004064		20.31	226.56	0
Eastview	Upper	2900.87	2y6hSCS	1.9	214.88	214.48		214.49	0.003937		13.91	178.14	0
Eastview	Upper	2900.87	100y4hChicago	5.7	214.88	214.57		214.57	0.003817		33.76	300.71	0
Eastview	Upper	2900.87	2yrFlow100yrLake	1.9	214.88	214.48		214.49	0.003937		13.91	178.14	0
Eastview	Upper	2849.897	Timmins	13.4	214.75	214.52		214.53	0.003317		63.05	327.73	0
Eastview	Upper	2849.897	100y6hSCS	7.3	214.75	214.46		214.46	0.00307		43.02	291.34	0
Eastview	Upper	2849.897	50y6hSCS	6.3	214.75	214.45		214.45	0.003012		39.16	283.94	0
Eastview	Upper	2849.897	25y6hSCS	5.3	214.75	214.43		214.43	0.002855		35.41	275.66	0
Eastview	Upper	2849.897	10y6hSCS	4	214.75	214.41		214.41	0.002826		29.22	259.32	0
Eastview	Upper	2849.897	5y6hSCS	3.1	214.75	214.39		214.39	0.002627		25.02	246.01	0
Eastview	Upper	2849.897	2y6hSCS	1.9	214.75	214.36		214.36	0.002535		18.04	221.85	0
Eastview	Upper	2849.897	100y4hChicago	5.7	214.75	214.44		214.44	0.002907		36.99	279.31	0
Eastview	Upper	2849.897	2yrFlow100yrLake	1.9	214.75	214.36		214.36	0.002535		18.04	221.85	0
Eastview	Upper	2651.094	Timmins	13.4	214.16	214.38		214.39	0.006107	0.39	51.66	330.57	0.39
Eastview	Upper	2651.094	100y6hSCS	7.3	214.16	214.32		214.32	0.007358	0.34	31.12	271.53	0.4
Eastview	Upper	2651.094	50y6hSCS	6.3	214.16	214.3		214.3	0.007906	0.34	27.11	257.35	0.41
Eastview	Upper	2651.094	25y6hSCS	5.3	214.16	214.29	214.2	214.29	0.00871	0.33	22.98	241.2	0.43
Eastview	Upper	2651.094	10y6hSCS	4	214.16	214.26	214.19	214.27	0.009771	0.34	17.81	218.01	0.45
Eastview	Upper	2651.094	5y6hSCS	3.1	214.16	214.24	214.18	214.25	0.010667	0.35	14.14	193.71	0.47
Eastview	Upper	2651.094	2y6hSCS	1.9	214.16	214.21		214.22	0.012671	0.3	9	146.61	0.48
Eastview	Upper	2651.094	100y4hChicago	5.7	214.16	214.29		214.29	0.008475	0.34	24.55	247.57	0.42
Eastview	Upper	2651.094	2yrFlow100yrLake	1.9	214.16	214.21		214.22	0.012671	0.3	9	146.61	0.48
Eastview	Upper	2605.043	Timmins	13.4	214.14	214.13		214.15	0.012431		27.22	161.39	0
Eastview	Upper	2605.043	100y6hSCS	7.3	214.14	214.01		214.02	0.014349		13.39	70.94	0
Eastview	Upper	2605.043	50y6hSCS	6.3	214.14	213.97		213.99	0.015297		11.15	55.62	0
Eastview	Upper	2605.043	25y6hSCS	5.3	214.14	213.93		213.95	0.015552		9.2	41.33	0
Eastview	Upper	2605.043	10y6hSCS	4	214.14	213.87		213.89	0.016908		7.13	30.23	0
Eastview	Upper	2605.043	5y6hSCS	3.1	214.14	213.82		213.84	0.018051		5.77	26.36	0
Eastview	Upper	2605.043	2y6hSCS	1.9	214.14	213.73		213.75	0.019879		3.73	19.98	0
Eastview	Upper	2605.043	100y4hChicago	5.7	214.14	213.95		213.97	0.015247		9.9	46.92	0
Eastview	Upper	2605.043	2yrFlow100yrLake	1.9	214.14	213.73		213.75	0.019879		3.73	19.98	0
Eastview	Upper	2581	Timmins	13.4	213.18	213.91		213.93	0.006783	1.45	32.9	185.17	0.58
Eastview	Upper	2581	100y6hSCS	7.3	213.18	213.79		213.82	0.005864	1.19	16.75	88.15	0.52
Eastview	Upper	2581	50y6hSCS	6.3	213.18	213.76		213.78	0.005473	1.1	14.47	65.04	0.5
Eastview	Upper	2581	25y6hSCS	5.3	213.18	213.73		213.75	0.005101	1.02	12.71	50.96	0.47
Eastview	Upper	2581	10y6hSCS	4	213.18	213.68		213.7	0.004666	0.91	10.41	41.78	0.45
Eastview	Upper	2581	5y6hSCS	3.1	213.18	213.64		213.65	0.004332	0.81	8.73	37.84	0.42
Eastview	Upper	2581	2y6hSCS	1.9	213.18	213.56		213.57	0.003778	0.65	6.24	27.1	0.38
Eastview	Upper	2581	100y4hChicago	5.7	213.18	213.75		213.76	0.005296	1.06	13.35	55.6	0.49
Eastview	Upper	2581	2yrFlow100yrLake	1.9	213.18	213.56		213.57	0.003778	0.65	6.24	27.1	0.38
Eastview	Upper	2552.909	Timmins	13.4	213.13	213.67		213.7	0.010546	1.42	28.72	147.67	0.68
Eastview	Upper	2552.909	100y6hSCS	7.3	213.13	213.58		213.6	0.010118	1.19	17.09	106.54	0.64
Eastview	Upper	2552.909	50y6hSCS	6.3	213.13	213.57		213.58	0.009618	1.12	15.34	99.3	0.62
Eastview	Upper	2552.909	25y6hSCS	5.3	213.13	213.55		213.56	0.00905	1.04	13.46	89.08	0.6
Eastview	Upper	2552.909	10y6hSCS	4	213.13	213.51		213.52	0.008976	0.95	10.21	71.97	0.58
Eastview	Upper	2552.909	5y6hSCS	3.1	213.13	213.48		213.49	0.00821	0.84	8.33	61.19	0.55
Eastview	Upper	2552.909	2y6hSCS	1.9	213.13	213.43		213.44	0.005968	0.63	6.19	41.77	0.45
Eastview	Upper	2552.909	100y4hChicago	5.7	213.13	213.55		213.57	0.009257	1.08	14.27	94.51	0.61
Eastview	Upper	2552.909	2yrFlow100yrLake	1.9	213.13	213.43		213.44	0.005968	0.63	6.19	41.77	0.45

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview	Upper	2461.396	Timmins	13.4	212.88	213.37		213.37	0.00359	0.61	48.81	201.06	0.37
Eastview	Upper	2461.396	100y6hSCS	7.3	212.88	213.28		213.28	0.003508	0.53	31.49	175.8	0.36
Eastview	Upper	2461.396	50y6hSCS	6.3	212.88	213.26		213.26	0.003574	0.53	28.13	168.83	0.36
Eastview	Upper	2461.396	25y6hSCS	5.3	212.88	213.23		213.24	0.003664	0.52	24.65	160.39	0.36
Eastview	Upper	2461.396	10y6hSCS	4	212.88	213.21		213.21	0.003333	0.5	20.47	148.34	0.34
Eastview	Upper	2461.396	5y6hSCS	3.1	212.88	213.18		213.18	0.00336	0.5	16.64	136.8	0.34
Eastview	Upper	2461.396	2y6hSCS	1.9	212.88	213.13		213.14	0.004124	0.49	10.49	109.4	0.37
Eastview	Upper	2461.396	100y4hChicago	5.7	212.88	213.24		213.25	0.003638	0.52	26.02	163.54	0.36
Eastview	Upper	2461.396	2yrFlow100yrLake	1.9	212.88	213.13		213.14	0.004124	0.49	10.49	109.4	0.37
Eastview	Upper	2297.958	Timmins	13.4	212.48	213.03		213.03	0.003264	0.88	44.37	140.84	0.39
Eastview	Upper	2297.958	100y6hSCS	7.3	212.48	212.89		212.89	0.004257	0.81	25.86	119.05	0.43
Eastview	Upper	2297.958	50y6hSCS	6.3	212.48	212.86		212.86	0.004353	0.78	22.88	109.58	0.43
Eastview	Upper	2297.958	25y6hSCS	5.3	212.48	212.84		212.84	0.004199	0.73	20.35	103.87	0.41
Eastview	Upper	2297.958	10y6hSCS	4	212.48	212.78		212.79	0.005301	0.73	15.31	91.23	0.45
Eastview	Upper	2297.958	5y6hSCS	3.1	212.48	212.76		212.76	0.00515	0.67	12.87	85.89	0.44
Eastview	Upper	2297.958	2y6hSCS	1.9	212.48	212.72		212.72	0.003712	0.51	10.07	75.02	0.36
Eastview	Upper	2297.958	100y4hChicago	5.7	212.48	212.84		212.85	0.004296	0.75	21.26	106	0.42
Eastview	Upper	2297.958	2yrFlow100yrLake	1.9	212.48	212.72		212.72	0.003712	0.51	10.07	75.02	0.36
Eastview	Upper	2219.658	Timmins	13.4	212.21	212.83		212.84	0.002501	0.81	39.3	87.45	0.35
Eastview	Upper	2219.658	100y6hSCS	7.3	212.21	212.64		212.65	0.003104	0.68	24.25	70.84	0.36
Eastview	Upper	2219.658	50y6hSCS	6.3	212.21	212.6		212.61	0.003408	0.66	21.47	69.56	0.37
Eastview	Upper	2219.658	25y6hSCS	5.3	212.21	212.55		212.56	0.004158	0.65	18.14	67.93	0.4
Eastview	Upper	2219.658	10y6hSCS	4	212.21	212.55		212.55	0.002564	0.5	17.7	67.78	0.31
Eastview	Upper	2219.658	5y6hSCS	3.1	212.21	212.49		212.49	0.003176	0.47	13.85	64.29	0.33
Eastview	Upper	2219.658	2y6hSCS	1.9	212.21	212.39		212.4	0.006328	0.45	8.09	58.92	0.42
Eastview	Upper	2219.658	100y4hChicago	5.7	212.21	212.58		212.58	0.003672	0.64	19.71	68.65	0.38
Eastview	Upper	2219.658	2yrFlow100yrLake	1.9	212.21	212.39		212.4	0.006328	0.45	8.09	58.92	0.42
Eastview	Upper	2070.13	Timmins	13.4	211.63	212.52		212.54	0.002082	0.99	36.45	74.28	0.34
Eastview	Upper	2070.13	100y6hSCS	7.3	211.63	212.39		212.4	0.001255	0.69	27.73	56.91	0.26
Eastview	Upper	2070.13	50y6hSCS	6.3	211.63	212.36		212.37	0.001095	0.62	26.16	54.74	0.24
Eastview	Upper	2070.13	25y6hSCS	5.3	211.63	212.28		212.29	0.001206	0.6	21.84	50.38	0.25
Eastview	Upper	2070.13	10y6hSCS	4	211.63	212.01		212.03	0.006613	0.96	9.93	40.24	0.52
Eastview	Upper	2070.13	5y6hSCS	3.1	211.63	212.02		212.02	0.003821	0.73	10.07	40.6	0.4
Eastview	Upper	2070.13	2y6hSCS	1.9	211.63	212		212.01	0.001663	0.47	9.56	39.27	0.26
Eastview	Upper	2070.13	100y4hChicago	5.7	211.63	212.34		212.35	0.001005	0.59	25.16	54.43	0.23
Eastview	Upper	2070.13	2yrFlow100yrLake	1.9	211.63	212		212.01	0.001663	0.47	9.56	39.27	0.26
Eastview	Upper	1950.924	Timmins	13.4	211.16	212.48		212.49	0.0002	0.37	92.85	116.45	0.11
Eastview	Upper	1950.924	100y6hSCS	7.3	211.16	212.37		212.37	0.000096	0.24	79.61	115.88	0.07
Eastview	Upper	1950.924	50y6hSCS	6.3	211.16	212.35		212.35	0.000081	0.22	76.67	115.67	0.07
Eastview	Upper	1950.924	25y6hSCS	5.3	211.16	212.26		212.26	0.000085	0.21	67.13	114.07	0.07
Eastview	Upper	1950.924	10y6hSCS	4	211.16	211.85		211.85	0.000741	0.42	23.95	81.06	0.18
Eastview	Upper	1950.924	5y6hSCS	3.1	211.16	211.68		211.69	0.002633	0.62	11.78	64.43	0.33
Eastview	Upper	1950.924	2y6hSCS	1.9	211.16	211.49	211.49	211.54	0.026355	1.22	2.86	30	0.92
Eastview	Upper	1950.924	100y4hChicago	5.7	211.16	212.33		212.33	0.000071	0.2	74.78	115.48	0.06
Eastview	Upper	1950.924	2yrFlow100yrLake	1.9	211.16	211.49	211.49	211.54	0.026355	1.22	2.86	30	0.92
Eastview	Upper	1868.878	Timmins	13.4	210.68	212.47		212.47	0.000102	0.34	100.2	95.97	0.08
Eastview	Upper	1868.878	100y6hSCS	7.3	210.68	212.37		212.37	0.000041	0.2	90.14	92.48	0.05
Eastview	Upper	1868.878	50y6hSCS	6.3	210.68	212.34		212.34	0.000032	0.18	87.9	91.54	0.05
Eastview	Upper	1868.878	25y6hSCS	5.3	210.68	212.26		212.26	0.000029	0.16	80.5	83.81	0.04
Eastview	Upper	1868.878	10y6hSCS	4	210.68	211.83		211.83	0.000072	0.2	49.43	70.09	0.06
Eastview	Upper	1868.878	5y6hSCS	3.1	210.68	211.66		211.66	0.0001	0.21	37.65	68.43	0.07
Eastview	Upper	1868.878	2y6hSCS	1.9	210.68	211.42	211.06	211.42	0.000203	0.24	21.05	66.19	0.1
Eastview	Upper	1868.878	100y4hChicago	5.7	210.68	212.32		212.33	0.000028	0.16	86.45	91.17	0.04
Eastview	Upper	1868.878	2yrFlow100yrLake	1.9	210.68	211.42	211.06	211.42	0.000203	0.24	21.05	66.19	0.1
Eastview	Upper	1780.61	Timmins	13.4	210.6	212.46		212.46	0.000112	0.34	97.57	102.78	0.09
Eastview	Upper	1780.61	100y6hSCS	7.3	210.6	212.36		212.36	0.000043	0.2	87.48	97.27	0.05
Eastview	Upper	1780.61	50y6hSCS	6.3	210.6	212.34		212.34	0.000035	0.18	85.2	96.56	0.05
Eastview	Upper	1780.61	25y6hSCS	5.3	210.6	212.25		212.26	0.000033	0.17	77.25	96.03	0.05
Eastview	Upper	1780.61	10y6hSCS	4	210.6	211.82		211.82	0.000115	0.24	38.1	83.22	0.08
Eastview	Upper	1780.61	5y6hSCS	3.1	210.6	211.65		211.65	0.000188	0.27	24.6	67.02	0.1
Eastview	Upper	1780.61	2y6hSCS	1.9	210.6	211.39		211.39	0.000496	0.33	10.32	41.48	0.15
Eastview	Upper	1780.61	100y4hChicago	5.7	210.6	212.32		212.32	0.00003	0.17	83.72	96.5	0.04
Eastview	Upper	1780.61	2yrFlow100yrLake	1.9	210.6	211.39		211.39	0.000496	0.33	10.32	41.48	0.15

Creek	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Eastview	Upper	1779.016	Timmins	13.4	210.54	212.46	212.3	212.46	0.00012	0.35	95.58	103.33	0.09
Eastview	Upper	1779.016	100y6hSCS	7.3	210.54	212.36	211.78	212.36	0.000049	0.22	85.51	97.39	0.06
Eastview	Upper	1779.016	50y6hSCS	6.3	210.54	212.34	211.68	212.34	0.000039	0.19	83.23	97.01	0.05
Eastview	Upper	1779.016	25y6hSCS	5.3	210.54	212.06	211.58	212.24	0.00409	1.88	2.82	92.34	0.52
Eastview	Upper	1779.016	10y6hSCS	4	210.54	211.43	211.43	211.79	0.018993	2.66	1.5	37.05	1
Eastview	Upper	1779.016	5y6hSCS	3.1	210.54	211.32	211.32	211.62	0.019995	2.44	1.27	27.45	1
Eastview	Upper	1779.016	2y6hSCS	1.9	210.54	211.15	211.15	211.37	0.022006	2.07	0.92	13.65	0.99
Eastview	Upper	1779.016	100y4hChicago	5.7	210.54	212.32	211.62	212.32	0.000034	0.18	81.74	96.75	0.05
Eastview	Upper	1779.016	2yrFlow100yrLake	1.9	210.54	211.15	211.15	211.37	0.022006	2.07	0.92	13.65	0.99
Eastview	Upper	1528.804	Culvert										
Eastview	Upper	1278.494	Timmins	13.4	208.68	210.33	210.33	211.13	0.014352	3.97	3.37	14.56	1
Eastview	Upper	1278.494	100y6hSCS	7.3	208.68	209.79	209.79	210.33	0.016519	3.25	2.25	9.08	1
Eastview	Upper	1278.494	50y6hSCS	6.3	208.68	209.7	209.7	210.18	0.016824	3.08	2.04	8.16	1
Eastview	Upper	1278.494	25y6hSCS	5.3	208.68	209.59	209.59	210.02	0.017437	2.91	1.82	7.77	1
Eastview	Upper	1278.494	10y6hSCS	4	208.68	209.53	209.44	209.81	0.012873	2.37	1.69	7.52	0.84
Eastview	Upper	1278.494	5y6hSCS	3.1	208.68	209.6	209.33	209.74	0.005832	1.69	1.84	7.79	0.58
Eastview	Upper	1278.494	2y6hSCS	1.9	208.68	209.81	209.16	209.85	0.001052	0.83	2.29	9.21	0.25
Eastview	Upper	1278.494	100y4hChicago	5.7	208.68	209.63	209.63	210.09	0.017263	2.98	1.91	7.93	1
Eastview	Upper	1278.494	2yrFlow100yrLake	1.9	208.68	209.81	209.16	209.85	0.001052	0.83	2.29	9.21	0.25
Eastview	Upper	1273.532	Timmins	13.4	208.21	208.77	209.25	210.82	0.235095	6.35	2.11	5.04	3.14
Eastview	Upper	1273.532	100y6hSCS	7.3	208.21	209.79	208.96	209.82	0.001072	0.75	9.79	10.05	0.24
Eastview	Upper	1273.532	50y6hSCS	6.3	208.21	209.77	208.9	209.79	0.000852	0.66	9.55	9.91	0.21
Eastview	Upper	1273.532	25y6hSCS	5.3	208.21	209.75	208.84	209.76	0.000642	0.57	9.32	9.78	0.19
Eastview	Upper	1273.532	10y6hSCS	4	208.21	209.71		209.72	0.000401	0.44	9	9.6	0.15
Eastview	Upper	1273.532	5y6hSCS	3.1	208.21	209.69		209.7	0.000257	0.35	8.78	9.47	0.12
Eastview	Upper	1273.532	2y6hSCS	1.9	208.21	209.84		209.84	0.000065	0.19	10.2	10.27	0.06
Eastview	Upper	1273.532	100y4hChicago	5.7	208.21	209.76	208.86	209.78	0.000725	0.61	9.41	9.83	0.2
Eastview	Upper	1273.532	2yrFlow100yrLake	1.9	208.21	209.84		209.84	0.000065	0.19	10.2	10.27	0.06
Eastview	Upper	1220.065	Timmins	13.4	208.02	209.88	208.94	209.92	0.000796	0.93	24.43	35.83	0.23
Eastview	Upper	1220.065	100y6hSCS	7.3	208.02	209.78		209.79	0.00031	0.56	20.96	31.13	0.14
Eastview	Upper	1220.065	50y6hSCS	6.3	208.02	209.76		209.77	0.000244	0.49	20.32	30.7	0.13
Eastview	Upper	1220.065	25y6hSCS	5.3	208.02	209.74		209.74	0.000181	0.42	19.74	29.41	0.11
Eastview	Upper	1220.065	10y6hSCS	4	208.02	209.71		209.71	0.000112	0.32	18.87	28.94	0.09
Eastview	Upper	1220.065	5y6hSCS	3.1	208.02	209.69		209.69	0.000071	0.26	18.28	28.22	0.07
Eastview	Upper	1220.065	2y6hSCS	1.9	208.02	209.83		209.84	0.000018	0.14	22.87	35.2	0.03
Eastview	Upper	1220.065	100y4hChicago	5.7	208.02	209.74		209.75	0.000205	0.45	19.96	29.96	0.12
Eastview	Upper	1220.065	2yrFlow100yrLake	1.9	208.02	209.83		209.84	0.000018	0.14	22.87	35.2	0.03
Eastview	Upper	1152.543	Timmins	13.4	207.82	209.87		209.88	0.000269	0.6	43.5	44.65	0.14
Eastview	Upper	1152.543	100y6hSCS	7.3	207.82	209.77		209.78	0.000096	0.35	39.59	38.33	0.08
Eastview	Upper	1152.543	50y6hSCS	6.3	207.82	209.75		209.76	0.000075	0.3	38.83	37.85	0.07
Eastview	Upper	1152.543	25y6hSCS	5.3	207.82	209.73		209.74	0.000055	0.26	38.13	37.48	0.06
Eastview	Upper	1152.543	10y6hSCS	4	207.82	209.71		209.71	0.000034	0.2	37.06	37.16	0.05
Eastview	Upper	1152.543	5y6hSCS	3.1	207.82	209.69		209.69	0.000021	0.16	36.31	36.97	0.04
Eastview	Upper	1152.543	2y6hSCS	1.9	207.82	209.83		209.83	0.000006	0.09	42.05	42.86	0.02
Eastview	Upper	1152.543	100y4hChicago	5.7	207.82	209.74		209.74	0.000063	0.28	38.4	37.62	0.07
Eastview	Upper	1152.543	2yrFlow100yrLake	1.9	207.82	209.83		209.83	0.000006	0.09	42.05	42.86	0.02
Eastview	Upper	1068.805	Timmins	13.4	207.68	209.83		209.85	0.000412	0.65	37.06	79.47	0.16
Eastview	Upper	1068.805	100y6hSCS	7.3	207.68	209.76		209.77	0.00015	0.38	31.76	65.46	0.1
Eastview	Upper	1068.805	50y6hSCS	6.3	207.68	209.74		209.75	0.000118	0.34	30.66	63.5	0.09
Eastview	Upper	1068.805	25y6hSCS	5.3	207.68	209.73		209.73	0.000087	0.29	29.68	59.18	0.07
Eastview	Upper	1068.805	10y6hSCS	4	207.68	209.7		209.7	0.000053	0.22	28.19	56.08	0.06
Eastview	Upper	1068.805	5y6hSCS	3.1	207.68	209.68		209.68	0.000034	0.18	27.17	53.3	0.05
Eastview	Upper	1068.805	2y6hSCS	1.9	207.68	209.83		209.83	0.000008	0.09	37.1	79.62	0.02
Eastview	Upper	1068.805	100y4hChicago	5.7	207.68	209.73		209.74	0.000099	0.31	30.05	60.46	0.08
Eastview	Upper	1068.805	2yrFlow100yrLake	1.9	207.68	209.83		209.83	0.000008	0.09	37.1	79.62	0.02
Eastview	Upper	1067.513	Timmins	13.4	207.69	209.81	209.38	209.85	0.000734	1	32.67	85.91	0.23
Eastview	Upper	1067.513	100y6hSCS	7.3	207.69	209.75	208.82	209.77	0.000257	0.58	28.13	73.84	0.13
Eastview	Upper	1067.513	50y6hSCS	6.3	207.69	209.74	208.72	209.75	0.0002	0.51	27.04	69.66	0.12
Eastview	Upper	1067.513	25y6hSCS	5.3	207.69	209.72	208.61	209.73	0.000148	0.44	26.06	65.83	0.1
Eastview	Upper	1067.513	10y6hSCS	4	207.69	209.7	208.46	209.7	0.00009	0.34	24.61	56.62	0.08
Eastview	Upper	1067.513	5y6hSCS	3.1	207.69	209.68	208.33	209.68	0.000057	0.27	23.66	52.87	0.06
Eastview	Upper	1067.513	2y6hSCS	1.9	207.69	209.83	208.16	209.83	0.000014	0.14	34.81	92.14	0.03
Eastview	Upper	1067.513	100y4hChicago	5.7	207.69	209.73	208.65	209.74	0.000169	0.47	26.43	67.54	0.11

Creek	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Eastview	Upper	1067.513	2yrFlow100yrLake	1.9	207.69	209.83	208.16	209.83	0.000014	0.14	34.81	92.14	0.03
Eastview	Upper	1058.651	Culvert										
Eastview	Upper	1049.151	Timmins	13.4	208.97	209.63	209.63	209.69	0.013953	1.81	17.68	57.7	0.8
Eastview	Upper	1049.151	100y6hSCS	7.3	208.97	209.63	209.63	209.65	0.004141	0.98	17.68	57.7	0.43
Eastview	Upper	1049.151	50y6hSCS	6.3	208.97	209.63	209.63	209.64	0.003084	0.85	17.68	57.7	0.37
Eastview	Upper	1049.151	25y6hSCS	5.3	208.97	209.63	209.63	209.64	0.002183	0.71	17.68	57.7	0.31
Eastview	Upper	1049.151	10y6hSCS	4	208.97	209.63	209.63	209.64	0.001244	0.54	17.68	57.7	0.24
Eastview	Upper	1049.151	5y6hSCS	3.1	208.97	209.63	209.63	209.63	0.000747	0.42	17.68	57.7	0.18
Eastview	Upper	1049.151	2y6hSCS	1.9	208.97	209.61	209.61	209.83	0.023207	2.09	0.91	55.03	0.99
Eastview	Upper	1049.151	100y4hChicago	5.7	208.97	209.63	209.63	209.64	0.002525	0.77	17.68	57.7	0.34
Eastview	Upper	1049.151	2yrFlow100yrLake	1.9	208.97	209.61	209.61	209.83	0.023207	2.09	0.91	55.03	0.99
Eastview	Upper	1046.922	Timmins	13.4	207.55	209.51	208.79	209.59	0.002436	1.54	21.12	34	0.37
Eastview	Upper	1046.922	100y6hSCS	7.3	207.55	209.25	208.54	209.29	0.001483	1.08	13.44	24.93	0.28
Eastview	Upper	1046.922	50y6hSCS	6.3	207.55	209.04	208.49	209.09	0.002079	1.16	9.81	14.75	0.33
Eastview	Upper	1046.922	25y6hSCS	5.3	207.55	208.84	208.42	208.9	0.002945	1.23	7.2	11.97	0.38
Eastview	Upper	1046.922	10y6hSCS	4	207.55	208.01	208.34	209.48	0.352278	5.37	0.74	2.76	3.31
Eastview	Upper	1046.922	5y6hSCS	3.1	207.55	207.94	208.26	209.48	0.484898	5.49	0.56	2.6	3.76
Eastview	Upper	1046.922	2y6hSCS	1.9	207.55	207.84	208.12	209.53	0.845472	5.76	0.33	2.16	4.71
Eastview	Upper	1046.922	100y4hChicago	5.7	207.55	208.92	208.46	208.98	0.002506	1.19	8.21	12.61	0.35
Eastview	Upper	1046.922	2yrFlow100yrLake	1.9	207.55	207.84	208.12	209.53	0.845472	5.76	0.33	2.16	4.71
Eastview	Upper	978.1509	Timmins	13.4	207.32	209.51		209.53	0.000233	0.56	29.05	28.23	0.13
Eastview	Upper	978.1509	100y6hSCS	7.3	207.32	209.25		209.26	0.000117	0.36	23.28	19.91	0.09
Eastview	Upper	978.1509	50y6hSCS	6.3	207.32	209.05		209.06	0.000138	0.36	19.45	18.25	0.09
Eastview	Upper	978.1509	25y6hSCS	5.3	207.32	208.85		208.86	0.000164	0.35	15.97	16.38	0.1
Eastview	Upper	978.1509	10y6hSCS	4	207.32	208.61	207.72	208.62	0.000193	0.33	12.4	13.84	0.11
Eastview	Upper	978.1509	5y6hSCS	3.1	207.32	208.43	207.67	208.44	0.000223	0.31	10.04	12.92	0.11
Eastview	Upper	978.1509	2y6hSCS	1.9	207.32	208.18	207.6	208.18	0.00026	0.28	6.9	11.34	0.11
Eastview	Upper	978.1509	100y4hChicago	5.7	207.32	208.93		208.94	0.000153	0.35	17.31	17.18	0.1
Eastview	Upper	978.1509	2yrFlow100yrLake	1.9	207.32	208.18	207.6	208.18	0.00026	0.28	6.9	11.34	0.11
Eastview	Upper	932.8052	Timmins	13.4	207.3	209.48		209.51	0.001026	1.06	38.61	67.38	0.24
Eastview	Upper	932.8052	100y6hSCS	7.3	207.3	209.23		209.25	0.000798	0.85	22.95	48.24	0.21
Eastview	Upper	932.8052	50y6hSCS	6.3	207.3	209.01		209.04	0.001374	1.01	14.16	31.71	0.27
Eastview	Upper	932.8052	25y6hSCS	5.3	207.3	208.79		208.83	0.001897	1.07	9.33	15.1	0.31
Eastview	Upper	932.8052	10y6hSCS	4	207.3	208.54		208.59	0.002707	1.1	6.17	10.94	0.35
Eastview	Upper	932.8052	5y6hSCS	3.1	207.3	208.36		208.41	0.003679	1.12	4.36	9.16	0.4
Eastview	Upper	932.8052	2y6hSCS	1.9	207.3	208.07		208.14	0.008166	1.24	2	6.79	0.55
Eastview	Upper	932.8052	100y4hChicago	5.7	207.3	208.88		208.92	0.001646	1.04	10.85	21.09	0.29
Eastview	Upper	932.8052	2yrFlow100yrLake	1.9	207.3	208.07		208.14	0.008166	1.24	2	6.79	0.55
Eastview	Upper	931.6569	Timmins	13.4	207.14	209.49	209.1	209.51	0.001295	0.88	39.32	71.78	0.2
Eastview	Upper	931.6569	100y6hSCS	7.3	207.14	208.88	208.54	209.21	0.013943	2.57	2.84	22.33	0.68
Eastview	Upper	931.6569	50y6hSCS	6.3	207.14	208.66	208.44	209.01	0.017634	2.6	2.43	12.61	0.74
Eastview	Upper	931.6569	25y6hSCS	5.3	207.14	208.43	208.33	208.8	0.024947	2.69	1.97	6.65	0.85
Eastview	Upper	931.6569	10y6hSCS	4	207.14	208.17	208.17	208.55	0.037974	2.73	1.47	2.32	1
Eastview	Upper	931.6569	5y6hSCS	3.1	207.14	208.06	208.06	208.37	0.039207	2.49	1.25	2.23	0.99
Eastview	Upper	931.6569	2y6hSCS	1.9	207.14	207.88	207.88	208.11	0.04362	2.13	0.89	2.07	1
Eastview	Upper	931.6569	100y4hChicago	5.7	207.14	208.53	208.37	208.88	0.021159	2.64	2.16	10.28	0.8
Eastview	Upper	931.6569	2yrFlow100yrLake	1.9	207.14	207.88	207.88	208.11	0.04362	2.13	0.89	2.07	1
Eastview	Upper	921.6902	Culvert										
Eastview	Upper	911.8402	Timmins	13.4	206.8	208.61	208.61	209.45	0.015803	4.07	3.29	13.42	1
Eastview	Upper	911.8402	100y6hSCS	7.3	206.8	208.05	208.05	208.61	0.01805	3.32	2.2	6.73	1
Eastview	Upper	911.8402	50y6hSCS	6.3	206.8	207.94	207.94	208.45	0.018479	3.15	2	6.23	1
Eastview	Upper	911.8402	25y6hSCS	5.3	206.8	207.83	207.83	208.28	0.019287	2.98	1.78	5.87	1
Eastview	Upper	911.8402	10y6hSCS	4	206.8	207.67	207.67	208.05	0.020644	2.72	1.47	5.35	1
Eastview	Upper	911.8402	5y6hSCS	3.1	206.8	207.56	207.56	207.87	0.021956	2.5	1.24	4.79	1
Eastview	Upper	911.8402	2y6hSCS	1.9	206.8	207.38	207.38	207.61	0.024599	2.13	0.89	4.03	1
Eastview	Upper	911.8402	100y4hChicago	5.7	206.8	207.87	207.87	208.35	0.019434	3.08	1.85	5.99	1.01
Eastview	Upper	911.8402	2yrFlow100yrLake	1.9	206.8	207.38	207.38	207.61	0.024599	2.13	0.89	4.03	1
Eastview	Upper	908.3951	Timmins	13.4	206.66	207.32	207.76	209.21	0.215105	6.1	2.2	5.27	3.02
Eastview	Upper	908.3951	100y6hSCS	7.3	206.66	207.99	207.49	208.06	0.002361	1.14	6.87	8.87	0.36
Eastview	Upper	908.3951	50y6hSCS	6.3	206.66	207.96	207.43	208.01	0.001953	1.02	6.6	8.63	0.33
Eastview	Upper	908.3951	25y6hSCS	5.3	206.66	207.94	207.37	207.98	0.001508	0.88	6.39	8.49	0.29

Creek	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Eastview	Upper	908.3951	10y6hSCS	4	206.66	207.66	207.28	207.71	0.002758	0.95	4.26	6.89	0.37
Eastview	Upper	908.3951	5y6hSCS	3.1	206.66	207.02	207.21	207.68	0.163292	3.58	0.87	3.81	2.4
Eastview	Upper	908.3951	2y6hSCS	1.9	206.66	207.32	207.1	207.36	0.004255	0.86	2.21	5.28	0.42
Eastview	Upper	908.3951	100y4hChicago	5.7	206.66	207.95	207.4	207.99	0.001677	0.93	6.49	8.55	0.3
Eastview	Upper	908.3951	2yrFlow100yrLake	1.9	206.66	207.32	207.1	207.36	0.004255	0.86	2.21	5.28	0.42
Eastview	Upper	828.0273	Timmins	13.4	206.43	207.97	207.29	208.03	0.002055	1.09	12.96	21.75	0.34
Eastview	Upper	828.0273	100y6hSCS	7.3	206.43	207.93		207.95	0.000703	0.62	12.1	19.44	0.2
Eastview	Upper	828.0273	50y6hSCS	6.3	206.43	207.91		207.93	0.000558	0.55	11.75	18.53	0.18
Eastview	Upper	828.0273	25y6hSCS	5.3	206.43	207.9		207.91	0.000411	0.47	11.54	17.84	0.15
Eastview	Upper	828.0273	10y6hSCS	4	206.43	207.6		207.61	0.000568	0.49	8.1	9.75	0.17
Eastview	Upper	828.0273	5y6hSCS	3.1	206.43	207.17	206.8	207.2	0.001903	0.71	4.39	7.75	0.3
Eastview	Upper	828.0273	2y6hSCS	1.9	206.43	206.81		206.86	0.009568	1.04	1.82	6.09	0.61
Eastview	Upper	828.0273	100y4hChicago	5.7	206.43	207.91		207.92	0.000465	0.5	11.65	18.22	0.16
Eastview	Upper	828.0273	2yrFlow100yrLake	1.9	206.43	206.81		206.86	0.009568	1.04	1.82	6.09	0.61
Eastview	Upper	719.6296	Timmins	13.4	205.99	208		208	0.000026	0.17	214.93	209.02	0.04
Eastview	Upper	719.6296	100y6hSCS	7.3	205.99	207.94		207.94	0.000009	0.09	202.15	204.34	0.02
Eastview	Upper	719.6296	50y6hSCS	6.3	205.99	207.92		207.92	0.000007	0.08	197.99	204.01	0.02
Eastview	Upper	719.6296	25y6hSCS	5.3	205.99	207.91		207.91	0.000005	0.07	195.21	203.79	0.02
Eastview	Upper	719.6296	10y6hSCS	4	205.99	207.6		207.6	0.000007	0.07	136.2	176.21	0.02
Eastview	Upper	719.6296	5y6hSCS	3.1	205.99	207.18		207.18	0.000025	0.1	71.71	128.19	0.04
Eastview	Upper	719.6296	2y6hSCS	1.9	205.99	206.72		206.73	0.000309	0.25	20.75	103.7	0.12
Eastview	Upper	719.6296	100y4hChicago	5.7	205.99	207.91		207.91	0.000006	0.08	196.66	203.9	0.02
Eastview	Upper	719.6296	2yrFlow100yrLake	1.9	205.99	206.72		206.73	0.000309	0.25	20.75	103.7	0.12
Eastview	Upper	717.2271	Timmins	13.4	205.93	208	207.74	208	0.000027	0.18	219.65	208.66	0.04
Eastview	Upper	717.2271	100y6hSCS	7.3	205.93	207.94	207.16	207.94	0.000009	0.1	206.88	203.7	0.02
Eastview	Upper	717.2271	50y6hSCS	6.3	205.93	207.92	207.05	207.92	0.000007	0.09	202.73	203.03	0.02
Eastview	Upper	717.2271	25y6hSCS	5.3	205.93	207.91	206.93	207.91	0.000005	0.08	199.96	202.72	0.02
Eastview	Upper	717.2271	10y6hSCS	4	205.93	207.48	206.77	207.59	0.002112	1.45	2.75	169.37	0.38
Eastview	Upper	717.2271	5y6hSCS	3.1	205.93	207.03	206.65	207.17	0.004135	1.61	1.93	115.71	0.5
Eastview	Upper	717.2271	2y6hSCS	1.9	205.93	206.46	206.46	206.7	0.021298	2.16	0.88	32.06	1
Eastview	Upper	717.2271	100y4hChicago	5.7	205.93	207.91	206.98	207.91	0.000006	0.08	201.41	202.87	0.02
Eastview	Upper	717.2271	2yrFlow100yrLake	1.9	205.93	206.46	206.46	206.7	0.021298	2.16	0.88	32.06	1
Eastview	Upper	686.5256	Culvert										
Eastview	Upper	660.0256	Timmins	13.4	205.08	206.89	206.89	207.77	0.014128	4.16	3.23	138.72	1
Eastview	Upper	660.0256	100y6hSCS	7.3	205.08	206.31	206.31	206.89	0.016022	3.39	2.16	8.62	1
Eastview	Upper	660.0256	50y6hSCS	6.3	205.08	206.19	206.19	206.73	0.016627	3.23	1.95	8.19	1
Eastview	Upper	660.0256	25y6hSCS	5.3	205.08	206.08	206.08	206.55	0.017235	3.04	1.74	7.77	1
Eastview	Upper	660.0256	10y6hSCS	4	205.08	205.91	205.91	206.31	0.018514	2.78	1.44	6.99	1
Eastview	Upper	660.0256	5y6hSCS	3.1	205.08	205.79	205.79	206.12	0.019514	2.55	1.22	6.2	1
Eastview	Upper	660.0256	2y6hSCS	1.9	205.08	205.61	205.61	205.85	0.021517	2.16	0.88	3.39	0.99
Eastview	Upper	660.0256	100y4hChicago	5.7	205.08	206.13	206.13	206.62	0.017019	3.12	1.83	7.94	1
Eastview	Upper	660.0256	2yrFlow100yrLake	1.9	205.08	205.61	205.61	205.85	0.021517	2.16	0.88	3.39	0.99
Eastview	Upper	656.5312	Timmins	13.4	204.94	205.71	206.17	207.41	0.115684	6.32	3.44	7.89	2.4
Eastview	Upper	656.5312	100y6hSCS	7.3	204.94	205.51	205.85	206.61	0.116136	5.02	2.15	5.39	2.27
Eastview	Upper	656.5312	50y6hSCS	6.3	204.94	205.47	205.78	206.46	0.116387	4.75	1.93	5.21	2.24
Eastview	Upper	656.5312	25y6hSCS	5.3	204.94	205.42	205.69	206.3	0.116949	4.45	1.7	5.02	2.21
Eastview	Upper	656.5312	10y6hSCS	4	204.94	205.36	205.57	206.08	0.119099	4.01	1.39	4.74	2.17
Eastview	Upper	656.5312	5y6hSCS	3.1	204.94	205.3	205.48	205.9	0.122834	3.66	1.15	4.51	2.14
Eastview	Upper	656.5312	2y6hSCS	1.9	204.94	205.21	205.35	205.64	0.134733	3.1	0.81	3.13	2.13
Eastview	Upper	656.5312	100y4hChicago	5.7	204.94	205.44	205.71	206.37	0.116688	4.58	1.8	5.1	2.22
Eastview	Upper	656.5312	2yrFlow100yrLake	1.9	204.94	205.21	205.35	205.64	0.134733	3.1	0.81	3.13	2.13
Eastview	Upper	538.0533	Timmins	13.4	203.63	205.7	204.69	205.71	0.000131	0.35	132.36	259.46	0.09
Eastview	Upper	538.0533	100y6hSCS	7.3	203.63	205.53	204.42	205.53	0.000105	0.29	88.05	247.57	0.08
Eastview	Upper	538.0533	50y6hSCS	6.3	203.63	205.52	204.36	205.52	0.000082	0.26	86.28	247.34	0.07
Eastview	Upper	538.0533	25y6hSCS	5.3	203.63	205.42	204.29	205.42	0.000116	0.29	61.24	231.13	0.08
Eastview	Upper	538.0533	10y6hSCS	4	203.63	204.95	204.2	204.97	0.000735	0.57	7.16	9.2	0.19
Eastview	Upper	538.0533	5y6hSCS	3.1	203.63	204.64	204.13	204.66	0.001476	0.66	4.72	7.01	0.26
Eastview	Upper	538.0533	2y6hSCS	1.9	203.63	204.23	204.04	204.27	0.004958	0.88	2.15	5.18	0.44
Eastview	Upper	538.0533	100y4hChicago	5.7	203.63	205.51	204.32	205.52	0.000072	0.24	83.93	247.06	0.06
Eastview	Upper	538.0533	2yrFlow100yrLake	1.9	203.63	204.23	204.04	204.27	0.004958	0.88	2.15	5.18	0.44
Eastview	Upper	419.4579	Timmins	13.4	202.93	205.7		205.7	0.000025	0.21	222.44	216.82	0.04
Eastview	Upper	419.4579	100y6hSCS	7.3	202.93	205.53		205.53	0.000012	0.14	185.31	212.41	0.03

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview	Upper	419.4579	50y6hSCS	6.3	202.93	205.52		205.52	0.000009	0.12	183.9	212.32	0.03
Eastview	Upper	419.4579	25y6hSCS	5.3	202.93	205.42		205.42	0.000009	0.12	162.16	207.8	0.03
Eastview	Upper	419.4579	10y6hSCS	4	202.93	204.95		204.95	0.000039	0.21	68.49	157.57	0.05
Eastview	Upper	419.4579	5y6hSCS	3.1	202.93	204.63		204.63	0.000074	0.25	32.08	53.87	0.07
Eastview	Upper	419.4579	2y6hSCS	1.9	202.93	204.18		204.18	0.000228	0.33	11.21	30.78	0.11
Eastview	Upper	419.4579	100y4hChicago	5.7	202.93	205.51		205.51	0.000008	0.11	181.93	211.86	0.02
Eastview	Upper	419.4579	2yrFlow100yrLake	1.9	202.93	204.18		204.18	0.000228	0.33	11.21	30.78	0.11
Eastview	Lower	405.6813	Timmins	29.7	203.09	205.7		205.7	0.000079	0.39	242.58	217.78	0.08
Eastview	Lower	405.6813	100y6hSCS	11.5	203.09	205.53		205.53	0.000019	0.18	206.19	210.07	0.04
Eastview	Lower	405.6813	50y6hSCS	10.1	203.09	205.52		205.52	0.000015	0.16	204.82	209.97	0.03
Eastview	Lower	405.6813	25y6hSCS	8.9	203.09	205.42		205.42	0.000016	0.16	183.18	207.17	0.03
Eastview	Lower	405.6813	10y6hSCS	7	203.09	204.95		204.95	0.00006	0.26	87.46	195.93	0.06
Eastview	Lower	405.6813	5y6hSCS	5.8	203.09	204.62		204.63	0.000185	0.4	31.66	128.7	0.11
Eastview	Lower	405.6813	2y6hSCS	3.8	203.09	204.17		204.18	0.000428	0.47	11.6	21.54	0.16
Eastview	Lower	405.6813	100y4hChicago	9.7	203.09	205.51		205.51	0.000014	0.15	202.87	209.83	0.03
Eastview	Lower	405.6813	2yrFlow100yrLake	3.8	203.09	204.17		204.18	0.000428	0.47	11.6	21.54	0.16
Eastview	Lower	325.3824	Timmins	29.7	202.97	205.69		205.69	0.000064	0.35	275.12	206.14	0.07
Eastview	Lower	325.3824	100y6hSCS	11.5	202.97	205.53		205.53	0.000015	0.16	240.83	204.85	0.03
Eastview	Lower	325.3824	50y6hSCS	10.1	202.97	205.52		205.52	0.000011	0.14	239.53	204.65	0.03
Eastview	Lower	325.3824	25y6hSCS	8.9	202.97	205.42		205.42	0.000012	0.14	218.35	203.78	0.03
Eastview	Lower	325.3824	10y6hSCS	7	202.97	204.94		204.94	0.000036	0.21	125.81	183.14	0.05
Eastview	Lower	325.3824	5y6hSCS	5.8	202.97	204.61		204.61	0.000106	0.31	69.27	143.66	0.08
Eastview	Lower	325.3824	2y6hSCS	3.8	202.97	204.13		204.13	0.000671	0.59	18.22	51.03	0.19
Eastview	Lower	325.3824	100y4hChicago	9.7	202.97	205.51		205.51	0.000011	0.13	237.64	204.57	0.03
Eastview	Lower	325.3824	2yrFlow100yrLake	3.8	202.97	204.13		204.13	0.000671	0.59	18.22	51.03	0.19
Eastview	Lower	192.1866	Timmins	29.7	202.78	205.69		205.69	0.000027	0.24	432.67	500.81	0.05
Eastview	Lower	192.1866	100y6hSCS	11.5	202.78	205.52		205.53	0.000006	0.11	355.77	462.54	0.02
Eastview	Lower	192.1866	50y6hSCS	10.1	202.78	205.52		205.52	0.000005	0.1	353.03	461.54	0.02
Eastview	Lower	192.1866	25y6hSCS	8.9	202.78	205.42		205.42	0.000005	0.1	306.92	425.58	0.02
Eastview	Lower	192.1866	10y6hSCS	7	202.78	204.94		204.94	0.000006	0.1	191.74	148.9	0.02
Eastview	Lower	192.1866	5y6hSCS	5.8	202.78	204.61		204.61	0.000011	0.11	142.71	145.61	0.03
Eastview	Lower	192.1866	2y6hSCS	3.8	202.78	204.12		204.12	0.000032	0.15	72.4	140.06	0.04
Eastview	Lower	192.1866	100y4hChicago	9.7	202.78	205.51		205.51	0.000005	0.1	348.81	460	0.02
Eastview	Lower	192.1866	2yrFlow100yrLake	3.8	202.78	204.12		204.12	0.000032	0.15	72.4	140.06	0.04
Eastview	Lower	188.9599	Timmins	29.7	202.73	205.69	205.31	205.69	0.000037	0.28	396.37	493.33	0.05
Eastview	Lower	188.9599	100y6hSCS	11.5	202.73	205.52	204.13	205.53	0.000008	0.13	320.69	452.47	0.03
Eastview	Lower	188.9599	50y6hSCS	10.1	202.73	205.52	204.01	205.52	0.000007	0.12	318.01	449.8	0.02
Eastview	Lower	188.9599	25y6hSCS	8.9	202.73	205.29	203.91	205.4	0.001166	1.51	5.89	241.93	0.3
Eastview	Lower	188.9599	10y6hSCS	7	202.73	204.82	203.75	204.93	0.001427	1.46	4.8	137.2	0.33
Eastview	Lower	188.9599	5y6hSCS	5.8	202.73	204.49	203.63	204.6	0.001761	1.44	4.03	132.55	0.35
Eastview	Lower	188.9599	2y6hSCS	3.8	202.73	204.02	203.43	204.11	0.002206	1.3	2.92	124.6	0.37
Eastview	Lower	188.9599	100y4hChicago	9.7	202.73	205.51	203.98	205.51	0.000006	0.11	313.91	448.16	0.02
Eastview	Lower	188.9599	2yrFlow100yrLake	3.8	202.73	204.02	203.43	204.11	0.002206	1.3	2.92	124.6	0.37
Eastview	Lower	163.2274		Culvert									
Eastview	Lower	134.4274	Timmins	29.7	202.63	205.68	205.19	205.68	0.000007	0.13	791.04	528.47	0.02
Eastview	Lower	134.4274	100y6hSCS	11.5	202.63	204.67	204.01	204.97	0.003993	2.43	4.73	487.02	0.55
Eastview	Lower	134.4274	50y6hSCS	10.1	202.63	204.62	203.9	204.86	0.003376	2.2	4.6	460.86	0.5
Eastview	Lower	134.4274	25y6hSCS	8.9	202.63	204.52	203.79	204.73	0.003098	2.03	4.37	398.79	0.48
Eastview	Lower	134.4274	10y6hSCS	7	202.63	204.39	203.63	204.54	0.00247	1.73	4.05	273.99	0.42
Eastview	Lower	134.4274	5y6hSCS	5.8	202.63	204.23	203.51	204.35	0.002353	1.58	3.67	199.37	0.4
Eastview	Lower	134.4274	2y6hSCS	3.8	202.63	203.95	203.3	204.03	0.001944	1.26	3.02	120.85	0.35
Eastview	Lower	134.4274	100y4hChicago	9.7	202.63	204.61	203.86	204.84	0.003179	2.12	4.57	453.55	0.49
Eastview	Lower	134.4274	2yrFlow100yrLake	3.8	202.63	203.95	203.3	204.03	0.001944	1.26	3.02	120.85	0.35
Eastview	Lower	132.141	Timmins	29.7	202.66	205.68		205.68	0.000007	0.13	772.93	536.92	0.02
Eastview	Lower	132.141	100y6hSCS	11.5	202.66	204.82		204.82	0.000012	0.13	343.9	460.11	0.03
Eastview	Lower	132.141	50y6hSCS	10.1	202.66	204.74		204.74	0.000013	0.13	306.54	447.76	0.03
Eastview	Lower	132.141	25y6hSCS	8.9	202.66	204.63		204.63	0.000013	0.13	257.42	413.5	0.03
Eastview	Lower	132.141	10y6hSCS	7	202.66	204.46		204.46	0.000013	0.12	194.97	318.99	0.03
Eastview	Lower	132.141	5y6hSCS	5.8	202.66	204.29		204.29	0.000014	0.11	148.81	220.87	0.03
Eastview	Lower	132.141	2y6hSCS	3.8	202.66	203.99		203.99	0.000019	0.11	91.81	156.19	0.03
Eastview	Lower	132.141	100y4hChicago	9.7	202.66	204.72		204.72	0.000013	0.13	297.56	444.26	0.03
Eastview	Lower	132.141	2yrFlow100yrLake	3.8	202.66	203.99		203.99	0.000019	0.11	91.81	156.19	0.03

Creek	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Eastview	Lower	47.1762	Timmins	29.7	202.62	205.68		205.68	0.000025	0.21	493.49	491.39	0.04
Eastview	Lower	47.1762	100y6hSCS	11.5	202.62	204.82		204.82	0.000073	0.28	143.56	275.51	0.07
Eastview	Lower	47.1762	50y6hSCS	10.1	202.62	204.74		204.74	0.000082	0.29	121.39	259.46	0.07
Eastview	Lower	47.1762	25y6hSCS	8.9	202.62	204.62		204.62	0.00011	0.32	92.91	239.83	0.08
Eastview	Lower	47.1762	10y6hSCS	7	202.62	204.45		204.46	0.000163	0.36	54.84	191.06	0.1
Eastview	Lower	47.1762	5y6hSCS	5.8	202.62	204.28		204.28	0.000267	0.42	33.84	86.8	0.12
Eastview	Lower	47.1762	2y6hSCS	3.8	202.62	203.97		203.98	0.000628	0.53	11.41	43.82	0.18
Eastview	Lower	47.1762	100y4hChicago	9.7	202.62	204.72		204.72	0.000083	0.29	116.17	256.66	0.07
Eastview	Lower	47.1762	2yrFlow100yrLake	3.8	202.62	203.97		203.98	0.000628	0.53	11.41	43.82	0.18
Eastview	Lower	45.008	Timmins	29.7	202.74	205.68	204.23	205.68	0.00002	0.19	529.13	493.86	0.04
Eastview	Lower	45.008	100y6hSCS	11.5	202.74	204.82	203.72	204.82	0.000067	0.27	166.65	338.3	0.07
Eastview	Lower	45.008	50y6hSCS	10.1	202.74	204.74	203.66	204.74	0.000076	0.28	138.81	333.15	0.07
Eastview	Lower	45.008	25y6hSCS	8.9	202.74	204.62	203.6	204.62	0.000105	0.32	102.59	294.87	0.08
Eastview	Lower	45.008	10y6hSCS	7	202.74	204.45	203.5	204.46	0.00015	0.35	59.24	205.1	0.1
Eastview	Lower	45.008	5y6hSCS	5.8	202.74	204.28	203.42	204.28	0.000249	0.41	36.7	94.16	0.12
Eastview	Lower	45.008	2y6hSCS	3.8	202.74	203.96	203.29	203.98	0.000829	0.62	6.15	59.94	0.21
Eastview	Lower	45.008	100y4hChicago	9.7	202.74	204.72	203.63	204.72	0.000079	0.29	132.1	330.47	0.07
Eastview	Lower	45.008	2yrFlow100yrLake	3.8	202.74	203.96	203.29	203.98	0.000829	0.62	6.15	59.94	0.21
Eastview	Lower	42.5458		Bridge									
Eastview	Lower	39.7458	Timmins	29.7	202.48	205.68	204.12	205.68	0.000014	0.17	592.46	507.93	0.03
Eastview	Lower	39.7458	100y6hSCS	11.5	202.48	204.82	203.51	204.82	0.000031	0.2	221.19	362.79	0.05
Eastview	Lower	39.7458	50y6hSCS	10.1	202.48	204.74	203.44	204.74	0.000035	0.2	191.45	353.38	0.05
Eastview	Lower	39.7458	25y6hSCS	8.9	202.48	204.62	203.38	204.62	0.00005	0.23	151.31	348.59	0.06
Eastview	Lower	39.7458	10y6hSCS	7	202.48	204.45	203.27	204.46	0.000081	0.27	94.53	295.13	0.07
Eastview	Lower	39.7458	5y6hSCS	5.8	202.48	204.28	203.19	204.28	0.000129	0.32	55.34	154.94	0.09
Eastview	Lower	39.7458	2y6hSCS	3.8	202.48	203.94	203.05	203.95	0.000346	0.43	17.68	92.53	0.14
Eastview	Lower	39.7458	100y4hChicago	9.7	202.48	204.72	203.42	204.72	0.000036	0.2	184.32	352.59	0.05
Eastview	Lower	39.7458	2yrFlow100yrLake	3.8	202.48	203.94	203.05	203.95	0.000346	0.43	17.68	92.53	0.14
Eastview	Lower	36.9297	Timmins	29.7	202.44	205.68		205.68	0.000013	0.16	614.56	512.6	0.03
Eastview	Lower	36.9297	100y6hSCS	11.5	202.44	204.82		204.82	0.000023	0.17	240.83	358.84	0.04
Eastview	Lower	36.9297	50y6hSCS	10.1	202.44	204.74		204.74	0.000025	0.17	211.35	353.59	0.04
Eastview	Lower	36.9297	25y6hSCS	8.9	202.44	204.62		204.62	0.000033	0.19	171.09	350.65	0.05
Eastview	Lower	36.9297	10y6hSCS	7	202.44	204.45		204.45	0.000043	0.2	115.27	281.74	0.05
Eastview	Lower	36.9297	5y6hSCS	5.8	202.44	204.28		204.28	0.000061	0.22	76.82	158	0.06
Eastview	Lower	36.9297	2y6hSCS	3.8	202.44	203.95		203.95	0.00014	0.28	35.73	108.31	0.09
Eastview	Lower	36.9297	100y4hChicago	9.7	202.44	204.72		204.72	0.000025	0.17	204.21	353.09	0.04
Eastview	Lower	36.9297	2yrFlow100yrLake	3.8	202.44	203.95		203.95	0.00014	0.28	35.73	108.31	0.09
Eastview	Lower	7.663776	Timmins	29.7	202.59	205.68		205.68	0.00001	0.15	652.24	532.32	0.03
Eastview	Lower	7.663776	100y6hSCS	11.5	202.59	204.82		204.82	0.000017	0.15	260.87	380.66	0.03
Eastview	Lower	7.663776	50y6hSCS	10.1	202.59	204.74		204.74	0.000016	0.14	230.41	357.94	0.03
Eastview	Lower	7.663776	25y6hSCS	8.9	202.59	204.62		204.62	0.000017	0.14	193.71	273.58	0.03
Eastview	Lower	7.663776	10y6hSCS	7	202.59	204.45		204.45	0.00002	0.14	151.29	231.49	0.04
Eastview	Lower	7.663776	5y6hSCS	5.8	202.59	204.28		204.28	0.000028	0.15	112.96	199.76	0.04
Eastview	Lower	7.663776	2y6hSCS	3.8	202.59	203.94		203.95	0.000069	0.2	53.69	161.1	0.06
Eastview	Lower	7.663776	100y4hChicago	9.7	202.59	204.72		204.72	0.000015	0.14	223.23	351.22	0.03
Eastview	Lower	7.663776	2yrFlow100yrLake	3.8	202.59	203.94		203.95	0.000069	0.2	53.69	161.1	0.06