

STORM WATER MANAGEMENT ANNUAL REPORT
2004

Prepared by:
Robbie Krejci, E.I.T.
City of Chippewa Falls Engineering Office

**STORM WATER MANGAGEMENT PROGRAM ANNUAL REPORT
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Appendix

- Financial Analysis
- Monitoring Data
- Public Education Documentation
- Municipal storm water system map
- Other related storm water information

SUMMARIES

A. Storm Water Management Plan Status

In 2004 the City of Chippewa Falls continued the process of completing its storm water management program. A 2004 - 2005 grant is being utilized to retain a consultant (S.E.H.) to help draft the storm water management plan. The storm water management plan is to be completed in 2005. Along with the development of the management plan S.E.H. is also continuing work on developing the baseline loading conditions. Once the baseline conditions are established, further development of the SLAMM model can commence to determine the removal efficiencies of currently installed BMP's. Once the load calculations are completed, further progress can be made determining problematic areas within the city and possible solutions can be determined.

In November of 2004 the Common Council of the City of Chippewa Falls enacted Chapter 30, and Chapter 31 of the Code of Ordinances. These ordinances pertain to construction site erosion control (Chapter 30), and storm water management (Chapter 31), and are important parts of the storm water management program. The ordinances provide authority to the City of Chippewa Falls to enact measures that will help meet various requirements of the WPDES Storm Water Management Permit.

Along with other activities, the City of Chippewa Falls has purchased software that will help to better manage its storm water program in the future. As more activities are completed on a yearly basis this information can be better managed to help make the program more efficient and organized.

B. Enforcement actions, inspections, and other activities

1. Enforcement Actions:

There are no enforcement actions to report at this time.

2. Inspections:

The City of Chippewa Falls Engineering staff inspected all the major outfalls in Zone 1 of the monitoring section of the Storm Water Management Permit. Three major outfalls (C4, C8, and D22) were chemically analyzed and the results are in the appendix of this report. The other major outfalls in Zone 1 were analyzed qualitatively and nothing of significance was found to report.

The other outfalls of the City of Chippewa Falls Storm Water Conveyance system were checked under low flow conditions problems that may exist. Any erosion, or other structural issues were remedied.

3. Other Activities:

The City of Chippewa Falls has implemented catch basin cleaning, street sweeping, and other activities required by the WPDES permit. As required by the permit, the city is performing said activities, cleaning reports, and other reporting activities are still being worked out with the Engineering Department regarding the best way to itemize activities. In 2005, the Engineering Staff will begin to record cleaning activities within a new software program that will allow the record keeping data to be submitted with this report. A separate report for the 2004 activities can be prepared upon request of the Wisconsin Department of Natural Resources, and said reports will be included in the 2005 annual report.

C. Program revisions

No activities to report

D. Monitoring data summary

Monitoring data was collected for three outfalls (C4, C8, and D22) and is included in the appendix of this report. The samples were collected in conformance to the monitoring program proposal and were chemically analyzed for the following contaminants: Ammonia-Nitrogen, BOD (5-day), Chloride, COD, Kjeldahl-Nitrogen, Nitrate+Nitrite-N, and Organic-Nitrogen. The results from each outfall varied, and no conclusions can be determined from the collected data because of the limited storm water data that is available for normal values of contaminants in the Chippewa Valley.

E. Monitoring program revisions (PROPOSED)

The City of Chippewa Falls would like to suspend the chemical analysis portion of its Storm Water Management Program. The data that is collected seems to be of little value, and the money spent on the chemical analysis may be better spent in other areas of the Storm Water Management Program. The suspension of the chemical analysis portion of the program would be consistent with other communities that were affected by Phase II of the WPDES Storm Water Management Program.

F. Pollutant loading summary

The consultant retained (S.E.H.) by the City of Chippewa Falls is currently establishing the base line model, and completion of the base line model is expected to occur sometime in April of 2005. After completion, and acceptance of the base line the consultant will continue to refine the model adding the BMP's the city currently has in place to determine what amount of total suspended solids (TSS) removal is currently being achieved. From these results, the Engineering office will determine what additional BMP's will be needed to meet the removal requirements of the WPDES Storm Water Management Program.

G. Pollution control assessment

The City of Chippewa Falls has actively attempted to reduce sediment loading into its municipal storm water collection system. During this past year catch basins were cleaned, and streets were swept according to the plans submitted under WPDES permit. All existing outfalls were examined and checked for illicit discharges or unusual sediment problems. Any problems that were detected during examination were corrected upon discovery.

Additions to the municipal system include extensions on First Avenue, Coleman Street, and Linden Street. Existing storm sewers were re-built on "A" Street, and maintenance was performed as required throughout the city.

H. Effluent limitation compliance

Compliance with effluent limitations will be measurable after the storm water model is completed for the City of Chippewa Falls. Once the baseline for contamination levels has been determined the number and effectiveness of the existing BMP's can be measured.

I. Fiscal analysis

See the appendix for a cost breakdown for 2004, and estimated data for 2005.

J. Water quality improvements or degradation

No information to report.