



**VILLAGE OF JACKSON
BOARD OF PUBLIC WORKS MEETING AGENDA**

Tuesday, August 27, 2024 at 6:00 PM

(Or immediately following the Joint Review Board meeting)

Jackson Municipal Complex

Village Board Room

N168W19851 Main Street

Jackson, WI 53037

1. Call to Order and Roll Call
2. Approval of Minutes for the Board of Public Works Meeting of July 30, 2024
3. Pay Request #6 - WWTP Tertiary Filters & Disinfection Project - JH Hassinger in the amount of \$437,380.00
4. 2024 WWTP Project - Clean Water Fund Loan Request #3 in the amount of \$150,523.40
5. 2024 WWTP Project - Clean Water Fund Loan Request #4 in the amount of \$437,380.00
6. Pay Request # 6 (Final) - STH 60 Street Lighting Project - Wil-Surge in the amount of \$9,454.40
7. Change Order #2 - Oaks of Jackson - D.F. Tomasini decreased to the amount of \$106,418.57
8. Pay Request #7 - Oaks of Jackson - D.F. Tomasini in the amount of \$24,000.00
9. Reviewing connection of Village Sanitary Sewer and Water for Oaks of Jackson Addition #1 - Spruce Street
10. Final Review and Approval of Cedar Creek Best Management Practice Report
11. Director of Public Works Report
12. Citizens/Village Staff to address the Board of Public Works
13. Adjourn

Persons with disabilities requiring special accommodations for attendance at the meeting should contact the Administration Department at the Jackson Municipal Complex at least one (1) business day prior to the meeting.

It is possible that members of the Village Board may attend the above meeting. No action will be taken by any governmental body at this meeting other than the governmental body specifically referred to in this meeting notice. This notice is given so that members of the Village Board may attend the meeting without violating the open meeting law.

MINUTES

BOARD OF PUBLIC WORKS MEETING

Tuesday, July 30, 2024 at 6:00 PM

Board of Public Works Meeting

1. Call to Order and Roll Call

The meeting was called to order at 6:00 PM by Pres. Heckendorf.

Members Present: Pres. Heckendorf, Tr. Engelhardt, Tr. Matter, Jeff Mitchell, and Josh Sandleback who arrived at 6:01 PM.

Members Excused: Ethan Hollenberger, and Stephanie Egner

Members Absent: None

Staff Present: Administrator Jen Heidtke, Public Works Director Brian Kober, and Interim Clerk Pam Wolf.

Trustees Present in Audience: None

2. Approval of Minutes for the Board of Public Works Meeting of June 25, 2024.

The motion to approve the minutes for the Board of Public Works Meeting of June 25, 2024, was made by Tr. Matter and seconded by Jeff Mitchell.

Vote: 4 ayes, 0 nays. Motion carried.

3. Pay Request # 6 (Final) - 2023 Utility & Street Improvement Project - Vinton Construction in the amount of \$10,000.00

The motion to recommend to the Budget and Finance Committee and to the Village Board to approve Pay Request #6 for the 2023 Utility and Street Improvement Project to Vinton Construction in the amount of \$10,000.00 was made by Tr. Matter and seconded by Tr. Engelhardt.

Vote: 4 ayes, 0 nays. Motion carried.

4. Pay Request # 5 - WWTP Tertiary Filters & Disinfection Project - JH Hassinger in the amount of \$138,795.00

The motion to recommend to the Budget and Finance Committee and to the Village Board to approve Pay Request #5 for the Wastewater Treatment Plant Tertiary Filters and Disinfection Project to JH Hassinger in the amount of \$138,795.00 was made by Tr. Engelhardt and seconded by Jeff Mitchell.

Vote: 5 ayes, 0 nays. Motion carried.

5. Review of Bids - Ridgeway Dr. & Chestnut Ct. Reconstruction Project 2024

Director Kober provided background regarding the project and the three bids received. The

small gap between the three bids shows they are priced fairly for the market. It was stated Chestnut is the last road to have sidewalks installed since the sidewalk program was established in 1992. Sewer and water main will also be replaced.

The motion to recommend to Budget and Finance and to the Village Board to award the contract base bid to LaLonde Contractors, Inc. in the amount of \$1,212,489.14 for the Reconstruction Project of Ridgeway Dr. & Chestnut Ct. was made by Pres. Heckendorf and seconded by Tr. Engelhardt.

Discussion was had between Director Kober and the Body regarding the amount passed along to the property owners as special assessment and the possibility of cutting down the project scope to just Chestnut Ct.

Vote: 5 ayes, 0 nays. Motion carried.

6. Authorization to Increase Water and Sewer Utility Rates Effective October 1, 2024

Director Kober provided background information. The overall increase is 4.1% for Sewer and Water.

The motion to increase the Water and Sewer Utility Rate Effective October 1, 2024, was made by Tr. Engelhardt and seconded by Jim Mitchell.

Vote: 5 ayes, 0 nays. Motion carried.

7. 2024 WWTP Project - Clean Water Fund Loan Request #2 (\$496,617.80)

Director Kober provided background information. It was stated the Village pays the contractors and requests reimbursement from the Department of Natural Resources.

The motion to recommend approval of the Reimbursement Request for the 2024 Wastewater Treatment Plant Project from the Clean Water Fund Loan was made by Pres. Heckendorf and seconded by Josh Sandalback.

Vote: 5 ayes, 0 nays. Motion carried.

8. Review of 15-year Capital Road Improvement Plan

Discussion ensued regarding the 15-year Capital Road Improvement Plan between the Body and Director Kober. Discussion only, no action was taken.

9. Review of Capital Pathway Improvement Plan

Discussion between Director Kober and the Body reviewing the Capital Pathway Improvement Plan. Discussion only, no action was taken.

10. Director of Public Works Report

Director Kober provided an overview of his submitted monthly report and answered any questions from the Body.

The motion to place the June 2024 Director of Public Works report on file was made by Jeff Mitchell and seconded by Pres. Heckendorf.

Vote: 5 ayes, 0 nays. Motion carried.

11. Citizens/Village Staff to address the Board of Public Works

None.

12. Adjourn

A motion to adjourn the meeting was made by Jeff Mitchell and seconded by Tr. Engelhardt.

Vote: 5 ayes, 0 nays. Motion carried. The meeting was adjourned at 7:01 PM.

Respectfully Submitted,
Pamela Wolf - Village Interim Clerk



AIA Document G702™ - 1992

Application and Certificate for Payment

TO OWNER:	PROJECT:	APPLICATION NO:	Distribution to:
Village of Jackson	Jackson Tertiary Filters	6	OWNER ☐
N168 W19851 Main Street	W194N16658 Eagle Drive	PERIOD TO:	ARCHITECT ☐
Jackson, WI 53037	Jackson, WI 53037	8/15/2024	CONTRACTOR ☐
FROM CONTRACTOR:	VIA ARCHITECT:	CONTRACT FOR:	FIELD ☐
J.H. HASSINGER, INC.		Jackson Tertiary Filters	OTHER ☐
N60 W16289 Kohler Lane		CONTRACT DATE:	
Menomonee Falls, WI 53051		3/11/2024	
		PROJECT NOS:	
		/ /	
		INVOICE NO:	
		12531	

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
AIA Document G703™, Continuation Sheet, is attached.

1. ORIGINAL CONTRACT SUM	\$	4,715,248.00
2. NET CHANGE BY CHANGE ORDERS	\$	0.00
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$	4,715,248.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	1,107,100.00
5. RETAINAGE:		
a. %5 of Completed Work		
(Columns D + E on G703)	\$	47,255.00
b. %5 of Stored Material		
(Column F on G703)	\$	8,100.00
Total Retainage (Lines 5a + 5b, or Total in Column I of G703)	\$	55,355.00
6. TOTAL EARNED LESS RETAINAGE	\$	1,051,745.00
(Line 4 minus Line 5 Total)		
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT	\$	614,365.00
(Line 6 from prior Certificate)		
8. CURRENT PAYMENT DUE	\$	437,380.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE		
(Line 3 minus Line 6)	\$	3,663,503.00

CHANGE ORDER SUMMARY		ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$	0.00	0.00
Total approved this month	\$	0.00	0.00
TOTAL	\$	0.00	0.00
NET CHANGES by Change Order	\$	0.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: J.H. HASSINGER, INC.

By: _____

State of: WI

County of: Waukesha

Subscribed and sworn to before me this _____

Notary Public: Shelly Ritzow

My commission expires: 8/1/2027

Date: 8/9/2024

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ 437,380.00

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT: _____

By: _____

Date: 8/12/2024

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

AIA Document G702™ - 1992. Copyright © 1953, 1963, 1965, 1971, 1978, 1983 and 1992 by The American Institute of Architects. All rights reserved. **WARNING: This AIA® Document is protected by U.S. Copyright Law and International Treaties. Unauthorized reproduction or distribution of this AIA® Document, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.** Purchasers are permitted to reproduce ten (10) copies of this document when completed. To report copyright violations of AIA Contract Documents, e-mail The American Institute of Architects' legal counsel. copyright@aia.org

CONTINUATION SHEET

AIA DOCUMENT G703 (Instructions on reverse side)

PAGE OF PAGES

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT,

containing Contractor's signed Certification, is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO.:

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO.:

6

8/9/2024

8/15/2024

Page 2

ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE (D + E + F)	%(G ÷ C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE) RATE
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD					
1	General Conditions	155,178.00	28,000.00	3,000.00	0.00	31,000.00	20	124,178.00	1,550.00
2	Bonds and Insurance	90,000.00	90,000.00	0.00	0.00	90,000.00	100	0.00	4,500.00
3	Mobilization	20,000.00	16,000.00	2,000.00	0.00	18,000.00	90	2,000.00	900.00
4	Demolition	64,636.00	18,500.00	6,500.00	0.00	25,000.00	39	39,636.00	1,250.00
5	Excavation and Shoring	280,000.00	202,000.00	50,000.00	0.00	252,000.00	90	28,000.00	12,600.00
6	Paving	27,000.00	0.00	0.00	0.00	0.00	0	27,000.00	0.00
7	Landscaping	13,000.00	0.00	0.00	0.00	0.00	0	13,000.00	0.00
8	Concrete Labor	230,000.00	81,000.00	65,000.00	0.00	146,000.00	63	84,000.00	7,300.00
9	Concrete Materials	150,000.00	44,200.00	45,000.00	0.00	89,200.00	59	60,800.00	4,460.00
10	Precast Plank	29,500.00	0.00	0.00	0.00	0.00	0	29,500.00	0.00
11	Masonry	100,000.00	0.00	41,000.00	0.00	41,000.00	41	59,000.00	2,050.00
12	Steel	235,000.00	23,500.00	12,600.00	0.00	36,100.00	15	198,900.00	1,805.00
13	Carpentry	100,000.00	0.00	15,000.00	0.00	15,000.00	15	85,000.00	750.00
14	Air Barrier and Damp Proofing	9,000.00	0.00	3,700.00	0.00	3,700.00	41	5,300.00	185.00
15	Roofing	62,000.00	0.00	0.00	0.00	0.00	0	62,000.00	0.00
16	Caulking	14,000.00	0.00	0.00	0.00	0.00	0	14,000.00	0.00
17	OH and Doors	34,000.00	0.00	0.00	0.00	0.00	0	34,000.00	0.00
18	Painting	100,000.00	0.00	0.00	0.00	0.00	0	100,000.00	0.00
19	Plumbing	117,000.00	28,700.00	17,000.00	25,000.00	70,700.00	60	46,300.00	3,535.00
20	HVAC	300,000.00	0.00	0.00	0.00	0.00	0	300,000.00	0.00
21	Process	600,500.00	61,300.00	38,500.00	25,000.00	124,800.00	21	475,700.00	6,240.00
22	Electrical Materials	107,561.00	2,500.00	5,600.00	0.00	8,100.00	8	99,461.00	405.00



AIA DOCUMENT G703 • CONTINUATION SHEET FOR G702 • 1992 EDITION • AIA® • ©1992 • THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVENUE, N.W., WASHINGTON, D.C. 20006-5292 • WARNING: Unlicensed photocopying violates U.S. copyright laws and will subject the violator to legal prosecution.

G703-1992

CAUTION: You should use an original AIA document which has this caution printed in red. An original assures that changes will not be obscured as may occur when documents are reproduced.

CONTINUATION SHEET

AIA DOCUMENT G703 (Instructions on reverse side)

PAGE OF PAGES

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT,

containing Contractor's signed Certification, is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO.:

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO.:

6

8/9/2024

8/15/2024

Page 3

ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE (D+E+F)		BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE) RATE
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD			% (G ÷ C)		
23	Electrical Labor	175,000.00	1,000.00	8,500.00	0.00	9,500.00	5	165,500.00	475.00
24	Electrical Controls	175,340.00	0.00	0.00	0.00	0.00	0	175,340.00	0.00
25	Excavation Allowance	13,000.00	0.00	0.00	0.00	0.00	0	13,000.00	0.00
26	Trench Excavation Allowance	16,000.00	0.00	0.00	0.00	0.00	0	16,000.00	0.00
27	Structural Fill Allowance	52,000.00	0.00	0.00	0.00	0.00	0	52,000.00	0.00
28	Reinforced Concrete Allowance	60,000.00	0.00	0.00	0.00	0.00	0	60,000.00	0.00
29	Crushed Aggregate Base Allowance	2,200.00	0.00	0.00	0.00	0.00	0	2,200.00	0.00
30	Geo Textile Allowance	1,200.00	0.00	0.00	0.00	0.00	0	1,200.00	0.00
31	Sidewalk Allowance	4,500.00	0.00	0.00	0.00	0.00	0	4,500.00	0.00
32	Soil Testing	10,000.00	0.00	0.00	0.00	0.00	0	10,000.00	0.00
33	Electric Utility	4,000.00	0.00	0.00	0.00	0.00	0	4,000.00	0.00
34	Gas Utility	4,000.00	0.00	0.00	0.00	0.00	0	4,000.00	0.00
35	Polymer Tote	3,000.00	0.00	0.00	0.00	0.00	0	3,000.00	0.00
36	Shop Equipment	10,000.00	0.00	0.00	0.00	0.00	0	10,000.00	0.00
37	Filters	837,000.00	0.00	0.00	0.00	0.00	0	837,000.00	0.00
38	UV Treatment	209,633.00	0.00	0.00	0.00	0.00	0	209,633.00	0.00
39	Site Utilities	300,000.00	0.00	35,000.00	112,000.00	147,000.00	49	153,000.00	7,350.00
		4,715,248.00	596,700.00	348,400.00	162,000.00	1,107,100.00	23	3,608,148.00	55,355.00



AIA DOCUMENT G703 • CONTINUATION SHEET FOR G702 • 1992 EDITION • AIA® • ©1992 • THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVENUE, N.W., WASHINGTON, D.C. 20006-5292 • WARNING: Unlicensed photocopying violates U.S. copyright laws and will subject the violator to legal prosecution.

G703-1992

CAUTION: You should use an original AIA document which has this caution printed in red. An original assures that changes will not be obscured as may occur when documents are reproduced.

Request for Disbursement for Financial Assistance Programs

Form 8700-215 (R 12/22)

Page 1 of 4

☒ Clean Water Fund Program

☐ Safe Drinking Water Loan Program

Notice: This form is authorized by ss. 281.58, 281.59, and 281.61, Wis. Stats. Submittal of a completed form to the Department is mandatory for all applicants seeking payments from the Clean Water Fund Program, the Environmental Improvement Fund or the Safe Drinking Water Loan Program. Failure to submit a completed form to the Department shall be grounds for denial of payment. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Public Records Law [ss. 19.31-19.39, Wis. Stats.]. **See page 2 for instructions and payment cycles.**

1. Municipality Village of Jackson	2. Project Number 4266-04	3. Request Number 3	4. Type of Request ☒ Partial ☐ Final
---------------------------------------	------------------------------	------------------------	--

Disbursement worksheet must be completed and invoices must be attached for all costs.	This Claim	For DNR Use Only	
		Adjustments	Claim Amount Paid
Force Account	\$	\$	\$
Interim Financing			
Preliminary Design/Engineering			
Land or Easement Acquisition			
Engineering / Construction Management	11,728.40		
Construction / Equipment	138,795.00		
Miscellaneous Costs			
EIF Closing Costs			
Total Requested	150,523.40		

Municipal Certification

I certify: (The following boxes must be marked before this request will be processed.)

- ☒ The amounts requested are in accordance with the terms of the Financial Assistance Agreement (FAA) and are for eligible project costs that have been incurred and have not been reimbursed on any previous request.
- ☒ I am the municipal representative authorized to complete this request and that all necessary approvals by consultants and municipal governing officials have been obtained.
- ☒ The Project complies with the Davis-Bacon and Related Acts, which require that all laborers and mechanics employed by the contractors, and subcontractors, were paid wages at rates not less than those listed on the prevailing wage rate contained in the contract documents.
- ☒ The Davis-Bacon poster was posted at all times by the contractor and subcontractors at the work site.
- ☒ All contractors have provided the municipality or engineer with certified weekly payrolls for labor performed for all costs requested with this Request for Disbursement for Financial Assistance Programs Form.

Date Signed _____

Signature of Municipal Representative _____

Title Village President

Telephone Number (262) 423-7282

DO NOT WRITE BELOW THIS LINE - DNR USE ONLY

Received Date	DNR Approval and Date	DOA Approval and Date	Project At %
Comments			

Instructions

Type or print legibly.

1. Enter the official name of the municipality.
2. Enter the project number.
3. Number the Request for Disbursement sequentially starting with 1.
4. Select "Partial" until the final request is submitted. When it is the final request, it is important that it be indicated as final.

The request must be signed by a municipal representative employed by the municipality. This representative is certifying that the requested costs are in accordance with the terms set forth in the FAA. Also, indicate the title of the representative, the date signed, and the telephone number, including area code.

PAYMENT CYCLES

Request for Disbursement forms received by the DNR by the Friday before the first Wednesday of the month are disbursed on the second Wednesday of the month. Forms received by the Friday before the third Wednesday of the month are disbursed on the fourth Wednesday of the month. Changes to this schedule will be made for Federal Holidays.

Page 3 of 4

Instructions

Type or print legibly. Items 1 through 4 are self-explanatory. Specific instructions for each column are as follows:

1. Date of Invoice

2. Payee--Enter name listed on invoice of contractor, consultant, or vendor. Indicate municipality name for all work associated with force account for labor or equipment.

3. Invoice Number

4. Total Invoice Amount--This amount is auto-summed and calculated from what is entered in the Budget Categories (column 5) and the Other Funding Sources (column 6).

5. Budget Categories--The amount of eligible costs being claimed in column 4 must be broken down and entered under the appropriate budget categories. **Only expenditures for budgeted costs approved in the Financial Assistance Agreement (FAA) or amendment may be claimed.**

Force Account--Force Account is the work a municipality performs using its own employees and/or equipment. Documentation must be submitted verifying the personnel who did the work, hours worked, hourly wage and scope of work. For equipment, indicate the type of equipment and the work performed, the dates and hours of use, and the hourly cost. Enter amount to be reimbursed for personnel and equipment costs.

Interim Financing--Interim financing is a debt to temporarily finance a project. Enter the amounts associated with the preparation, approval, issuance, and sale of interim financing (includes bond counsel, financial consultants, and underwriters fees).

Preliminary Design/Engineering--Enter contract costs for preliminary design/engineering services.

Land/Easements--Enter all amounts associated with the acquisition of land and easements for this project.

Engineering/Construction Mgt.--Enter contract costs associated with engineering/construction management for this project.

Construction/Equipment--Enter costs associated with the contracted construction and equipment costs. Costs not included in a construction or equipment contract should be entered on the Miscellaneous line.

Miscellaneous Costs--Enter costs that are outside the scope of the engineering, construction and equipment contracts. These costs can include computers, start-up laboratory equipment, materials, supplies, bid advertising, etc. Construction-related items require prior review and approval by the regional Construction Management Engineer (CME) before seeking reimbursement. The municipality must provide the CME with a copy of the vendor's invoice, procurement method used and applicable bidding and contracting documentation. Once the CME has determined eligibility and given approval, the municipality may request reimbursement.

Closing Costs--Enter the eligible costs for closing purposes, which includes bond counsel and legal fees.

6. Other Funding Sources--(if applicable) Enter costs identified in the FAA as being paid by other sources, i.e., CDBG grant, municipal funds, Rural Development. These costs will not be reimbursed by the EIF.

For more information, visit <https://dnr.wi.gov/Aid/documents/EIF/Guide/pay.html>

Send the Request for Disbursement form, along with supporting invoices by one of these methods:

Email: DNRCFELDisbursements@Wisconsin.gov

Fax: 608-267-0496

U.S. Mail: Environmental Loans - CF/2
Dept of Natural Resources
PO Box 7921
Madison WI 53707-7921

UPS or FedEx: Environmental Loans - CF/2
Dept of Natural Resources
101 S. Webster Street
Madison WI 53703

Request for Disbursement for Financial Assistance Programs

Form 8700-215 (R 12/22)

Page 1 of 4

☒ Clean Water Fund Program

☐ Safe Drinking Water Loan Program

Notice: This form is authorized by ss. 281.58, 281.59, and 281.61, Wis. Stats. Submittal of a completed form to the Department is mandatory for all applicants seeking payments from the Clean Water Fund Program, the Environmental Improvement Fund or the Safe Drinking Water Loan Program. Failure to submit a completed form to the Department shall be grounds for denial of payment. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Public Records Law [ss. 19.31-19.39, Wis. Stats.]. **See page 2 for instructions and payment cycles.**

1. Municipality Village of Jackson	2. Project Number 4266-04	3. Request Number 4	4. Type of Request ☒ Partial ☐ Final
---------------------------------------	------------------------------	------------------------	--

Disbursement worksheet must be completed and invoices must be attached for all costs.	This Claim	For DNR Use Only	
		Adjustments	Claim Amount Paid
Force Account	\$	\$	\$
Interim Financing			
Preliminary Design/Engineering			
Land or Easement Acquisition			
Engineering / Construction Management			
Construction / Equipment	437,380.00		
Miscellaneous Costs			
EIF Closing Costs			
Total Requested	437,380.00		

Municipal Certification

I certify: (The following boxes must be marked before this request will be processed.)

- ☒ The amounts requested are in accordance with the terms of the Financial Assistance Agreement (FAA) and are for eligible project costs that have been incurred and have not been reimbursed on any previous request.
- ☒ I am the municipal representative authorized to complete this request and that all necessary approvals by consultants and municipal governing officials have been obtained.
- ☒ The Project complies with the Davis-Bacon and Related Acts, which require that all laborers and mechanics employed by the contractors, and subcontractors, were paid wages at rates not less than those listed on the prevailing wage rate contained in the contract documents.
- ☒ The Davis-Bacon poster was posted at all times by the contractor and subcontractors at the work site.
- ☒ All contractors have provided the municipality or engineer with certified weekly payrolls for labor performed for all costs requested with this Request for Disbursement for Financial Assistance Programs Form.

Date Signed _____

Signature of Municipal Representative _____

Title Village President

Telephone Number (262) 423-7282

DO NOT WRITE BELOW THIS LINE - DNR USE ONLY

Received Date	DNR Approval and Date	DOA Approval and Date	Project At %
Comments			

Instructions

Type or print legibly.

1. Enter the official name of the municipality.
2. Enter the project number.
3. Number the Request for Disbursement sequentially starting with 1.
4. Select "Partial" until the final request is submitted. When it is the final request, it is important that it be indicated as final.

The request must be signed by a municipal representative employed by the municipality. This representative is certifying that the requested costs are in accordance with the terms set forth in the FAA. Also, indicate the title of the representative, the date signed, and the telephone number, including area code.

PAYMENT CYCLES

Request for Disbursement forms received by the DNR by the Friday before the first Wednesday of the month are disbursed on the second Wednesday of the month. Forms received by the Friday before the third Wednesday of the month are disbursed on the fourth Wednesday of the month. Changes to this schedule will be made for Federal Holidays.

Page 3 of 4

Instructions

Type or print legibly. Items 1 through 4 are self-explanatory. Specific instructions for each column are as follows:

1. Date of Invoice

2. Payee--Enter name listed on invoice of contractor, consultant, or vendor. Indicate municipality name for all work associated with force account for labor or equipment.

3. Invoice Number

4. Total Invoice Amount--This amount is auto-summed and calculated from what is entered in the Budget Categories (column 5) and the Other Funding Sources (column 6).

5. Budget Categories--The amount of eligible costs being claimed in column 4 must be broken down and entered under the appropriate budget categories. **Only expenditures for budgeted costs approved in the Financial Assistance Agreement (FAA) or amendment may be claimed.**

Force Account--Force Account is the work a municipality performs using its own employees and/or equipment. Documentation must be submitted verifying the personnel who did the work, hours worked, hourly wage and scope of work. For equipment, indicate the type of equipment and the work performed, the dates and hours of use, and the hourly cost. Enter amount to be reimbursed for personnel and equipment costs.

Interim Financing--Interim financing is a debt to temporarily finance a project. Enter the amounts associated with the preparation, approval, issuance, and sale of interim financing (includes bond counsel, financial consultants, and underwriters fees).

Preliminary Design/Engineering--Enter contract costs for preliminary design/engineering services.

Land/Easements--Enter all amounts associated with the acquisition of land and easements for this project.

Engineering/Construction Mgt.--Enter contract costs associated with engineering/construction management for this project.

Construction/Equipment--Enter costs associated with the contracted construction and equipment costs. Costs not included in a construction or equipment contract should be entered on the Miscellaneous line.

Miscellaneous Costs--Enter costs that are outside the scope of the engineering, construction and equipment contracts. These costs can include computers, start-up laboratory equipment, materials, supplies, bid advertising, etc. Construction-related items require prior review and approval by the regional Construction Management Engineer (CME) before seeking reimbursement. The municipality must provide the CME with a copy of the vendor's invoice, procurement method used and applicable bidding and contracting documentation. Once the CME has determined eligibility and given approval, the municipality may request reimbursement.

Closing Costs--Enter the eligible costs for closing purposes, which includes bond counsel and legal fees.

6. Other Funding Sources--(if applicable) Enter costs identified in the FAA as being paid by other sources, i.e., CDBG grant, municipal funds, Rural Development. These costs will not be reimbursed by the EIF.

For more information, visit <https://dnr.wi.gov/Aid/documents/EIF/Guide/pay.html>

Send the Request for Disbursement form, along with supporting invoices by one of these methods:

Email: DNRCFELDisbursements@Wisconsin.gov

Fax: 608-267-0496

U.S. Mail: Environmental Loans - CF/2
Dept of Natural Resources
PO Box 7921
Madison WI 53707-7921

UPS or FedEx: Environmental Loans - CF/2
Dept of Natural Resources
101 S. Webster Street
Madison WI 53703



August 21, 2024

Village of Jackson
W194 N16660 Eagle Drive
Jackson, WI 53037

Attention: Brian Kober, P.E.
Director of Public Works

Subject: Project: VOJ 23-02
STH 60 – Street Lighting
Industrial Drive – Ridgeway Drive
Pay Request #6

Dear Mr. Kober:

Enclosed is the final Pay Request #6 for the STH 60 Street Lighting project in the Village of Jackson. The maximum retainage was met with pay request #2 which is to be paid with this request:

Total work completed to date	= \$390,159.58
Total Retainage	= \$9,454.40
Amount due to Contractor, Pay Request #6	= \$9,454.40

If you have any questions or comments, please contact me at (920) 924-5720.

Sincerely,

Blake Furlano

Blake Furlano
Project Inspector
Gremmer & Associates, Inc.

Project VOJ 23-02
 STH 60 - Street Lighting
 Industrial Drive - Ridgeway Drive

Pay Request #6
 WII-Surge - Prime Contractor

Item No.	Description	Units	Total	WII-Surge		Pay Request #1		Pay Request #2		Pay Request #3		Pay Request #4		Pay Request #5		Cumulative Totals		% Complete
				Unit Price	Bid Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	
619.1000	Mobilization	EACH	1	\$15,428.00	\$15,428.00	1.0	\$15,428.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	1	\$15,428.00	100%
628.7015	Inlet Protection Type C	EACH	25	\$89.00	\$2,225.00	0.0	\$0.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	0	\$0.00	0%
643.5000	Traffic Control	LS	1	\$16,871.00	\$16,871.00	1.0	\$16,871.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	1	\$16,871.00	100%
653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	17	\$987.00	\$16,779.00	0.0	\$0.00	0	\$0.00	17.00	\$16,779.00	0.00	\$0.00	0.00	\$0.00	17	\$16,779.00	100%
654.0105	Concrete Bases Type 5	EACH	36	\$891.00	\$32,076.00	0.0	\$0.00	36	\$32,076.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	36	\$32,076.00	100%
655.0610	Electrical Wire Lighting 12 AWG	LF	7,629	\$0.92	\$7,018.68	0.0	\$0.00	0	\$0.00	256.00	\$235.52	7344.00	\$6,756.48	0.00	\$0.00	7600	\$6,992.00	100%
655.0620	Electrical Wire Lighting 8 AWG	LF	20,342	\$1.68	\$34,174.56	0.0	\$0.00	0	\$0.00	21467.00	\$36,064.56	0.00	\$0.00	0.00	\$0.00	21467	\$36,064.56	106%
655.0625	Electrical Wire Lighting 6 AWG	LF	30,513	\$1.81	\$55,228.53	0.0	\$0.00	0.00	\$0.00	32200.50	\$58,282.91	0.00	\$0.00	0.00	\$0.00	32201	\$58,282.91	106%
671.0212	Conduit HDPE Directional Bore 1-Duct 2-Inch	LF	10,835	\$13.79	\$149,414.65	5267.0	\$72,631.93	4782	\$65,943.78	100.00	\$1,379.00	0.00	\$0.00	0.00	\$0.00	10149	\$139,954.71	94%
SPV.0060.01	Install Village Furnished Lighting Unit	EACH	36	\$832.00	\$29,952.00	0.0	\$0.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00	36.00	\$29,952.00	36	\$29,952.00	100%
SPV.0060.02	Install Village Furnished Meter Breaker Pedestal	EACH	2	\$6,910.00	\$13,820.00	2.0	\$13,820.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	2	\$13,820.00	100%
SPV.0180.01	Concrete Restoration	SY	3.3	\$348.00	\$1,148.40	0.0	\$0.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00	3.30	\$1,148.40	3	\$1,148.40	100%
SPV.0180.02	Asphalt Restoration	SY	5	\$808.00	\$4,040.00	0.0	\$0.00	0	\$0.00	0.00	\$0.00	0.00	\$0.00	5.00	\$4,040.00	5	\$4,040.00	100%
CO #1	Concrete Replacement (Replaces Item SPV.0180.01)	SF	700	\$13.00	\$9,100.00	0.0	\$0.00	0	\$0.00	952.60	\$12,383.80	74.40	\$967.20	0.00	\$0.00	1027	\$13,351.00	147%
CO #2	Concrete Base 24" Dia Base	EACH	36	\$150.00	\$5,400.00	0.0	\$0.00	0	\$0.00	0.00	\$0.00	36.00	\$5,400.00	0.00	\$0.00	36	\$5,400.00	100%
STH 60 TOTAL					\$392,675.82		\$118,750.93		\$98,019.78		\$125,124.79		\$13,123.68	0.00	\$35,140.40		\$390,159.58	99%
TOTAL					\$392,675.82		\$118,750.93		\$98,019.78		\$125,124.79		\$13,123.68		\$35,140.40		\$390,159.58	99.36%

WII-Surge original bid #
 \$378,175.82
 Difference / Increase of
 \$13,351.60

\$5,937.55 Retainage Est #1
 \$3,516.85 Retainage Est #2
 \$0.00 Retainage Est #3
 \$0.00 Retainage Est #4
 \$0.00 Retainage Est #5
 \$9,454.40
 Max retainage to hold =
 Based off original bid price
 Total work completed \$390,159.58
 Retainage, this estimate \$0.00
 Total retainage, previous estimates \$9,454.40
 Total retainage \$9,454.40
 Amount due to contractor, estimate #6 \$9,454.40



Building a Better World
for All of Us®

CHANGE ORDER

Village of Jackson

OWNER

August 21, 2024

DATE

2

OWNER'S PROJECT NO.

CHANGE ORDER NO.

The Oaks of Jackson

170026 73.00

PROJECT DESCRIPTION

SEH FILE NO.

The following changes shall be made to the contract documents:

Description:

1. Quantity accounting balancing of contract Bid Item work from project:

Section 100 – Erosion Control and Site Grading Items

- 100-03 Tree Protection Fencing – (600 LF); (\$2,394.00)
- 100-04 Silt Fence – (776 LF); (\$1,373.52)
- 100-05 Sediment Logs – (120 LF); (\$15,150.00)
- 100-07 Inlet Protection Type A – (4 EA); (\$1,012.00)
- 100-08 Inlet Protection Type C – (7 EA); (\$459.55)
- 100-09 Inlet Protection Type D – (9 EA); (\$1,136.25)
- 100-14 Erosion Mat Class I Type A – 1,010 SY; \$1,585.70
- 100-15 Erosion Mat Class I Type B – (2,240 SY); (\$7,011.20)
- 100-16 Erosion Mat Class III Type B – 8.88 SY; \$139.06
- 100-17 Straw Mulch – (28,976) SY; (\$10,141.60)

Section 200 – Roadway Items

- 200-01 Base Repair – (250 CY); (\$12,500.00)
- 200-03 Base Aggregate Dense 3/4" – (385.07) TN; (\$5,995.54)
- 200-04 Base Aggregate Dense 1-1/4" – (1,443.38 TN); (\$22,473.43)
- 200-05 HMA Pavement 4 LT 58-28 S (3") – 31 SY; \$432.14
- 200-06 Concrete Curb & Gutter 30" Vertical – 63 SY; \$1,208.97
- 200-07 Concrete Sidewalk 4-Inch – 1,619 SF; \$7,301.69
- 200-08 Concrete Sidewalk 6-Inch – 74 SF; \$628.26
- 200-10 Geotextile Type SR – (400 SY); (\$1,216.00)
- 200-11 Geogrid Type SR – (400 SY); (\$1,216.00)

Section 300 – Sanitary Sewer items

- 300-02 6-Inch PVC SDR Sanitary Lateral w/ Granular Backfill – (154.50 LF); (\$12,424.89)
- 300-03 8-Inch PVC SDR-35 Sanitary Sewer Main w/ Granular Backfill – (3 LF); (\$233.76)

Section 400 – Storm Sewer Items

- 400-02 Storm Sewer RCP Class V 12-Inch – (25 LF); (\$1,480.25)
- 400-03 Storm Sewer RCP Class IV 15-Inch – (11 LF); (\$703.12)
- 400-04 Storm Sewer RCP Class III 18-Inch – (11 LF); (\$736.45)
- 400-05 Storm Sewer RCP Class III 24-Inch – (16.50 LF); (\$1,501.34)
- 400-06 Storm Sewer RCP Class III 27-Inch – (1 LF); (\$104.98)
- 400-07 Storm Sewer HDPE 12-Inch – (6 LF); (\$239.64)
- 400-10 Storm Reinforced Concrete Endwall 18-Inch – 1 EA; \$968.00
- 400-12 Storm PVC SDR-35 Pipe 6-Inch (Sump System) – 163 LF; \$5,180.14

Section 500 – Water Main Items

500-02 8-Inch PVC C-900 Water Main w/ Granular Backfill – 26 LF; \$1,928.94
500-03 6-Inch PVC C-900 Water Hydrant Lead w/ Granular Backfill – (9 LF); (\$1,340.55)
500-07 1-1/4-Inch HDPE SDR-9 Water Service – 60 LF; \$2841.00
500-08 1-1/4-Inch Water Service Tap and Corporation Valve – (9 EA); (\$2,742.93)
500-09 1-1/4-Inch Water Curb Valve and Box – (9 EA); (\$2,831.58)

Alternate No. 3 – Contractor Purchase and Haul Excess Topsoil

A3-01 Purchase Excess Topsoil and Haul – (2,096 CY); (\$6,288.00)

Total for Change Order No. 2: Quantity Accounting Balancing = (\$77,916.67)

Purpose of Change Order:

Regarding project closeout, overrun and underrun quantities shall be canceled out to show that the overall work is complete, and the remaining work is now \$0.00.

Basis of Cost: ☒ Actual ☐ Estimated

Attachments (list supporting documents): N/A

Contract Status

Original Contract

Net Change Prior C.O.'s \$1,955,419.53 to \$2,033,408.98

Change this C.O.

Revised Contract

Time

Cost

N/A

\$1,955,419.53

N/A

\$77,989.45

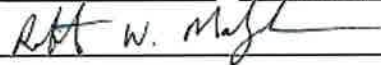
N/A

(\$77,916.67)

N/A

\$1,955,492.31

Recommended for Approval: **Short Elliott Hendrickson Inc.** by


Robert W. Malzahn, PE

Agreed to by Contractor:



BY DF Tomasini, Inc.

Approved for Owner:

BY Village of Jackson


President

TITLE

TITLE



Building a Better World
for All of Us®

August 21, 2024

RE: Village of Jackson
The Oaks of Jackson
Application for Payment No. 7 (Final)
SEH No. JACKV 170026 73.00

Brian Kober, P.E.
Director of Public Works & Village Engineer
Village of Jackson
W194N16660 Eagle Drive
Jackson, WI 53037

Dear Brian:

In accordance with Article 15 of the General Conditions of the contract for The Oaks of Jackson Project, we submit our Pay Application No. 7 (Final) pay recommendation for processing by the Village.

Per the enclosed spreadsheet, D.F. Tomasini Contractors, Inc. has earned \$0.00 through the seventh and final work period ending August 20, 2024. All project quantities have been agreed on with the contractor, and all punch list tasks have been completed. Please note this pay application includes Change Order No. 2, showing that overrun and underrun quantities are canceled out and that the overall work is complete, and remaining work is now \$0.00.

We recommend that the Village make a payment to D.F. Tomasini Contractors, Inc. for any work described above. Also, the Village shall release the remaining \$24,000.00 of the total retained earnings. Accordingly, we recommend the Village make a payment in the amount of \$24,000.00.

Lastly, attached is the signed final lien waiver provided by D.F. Tomasini Contractors, Inc.

Following your review of the above, please advise if there are any questions.

Sincerely,

Robert W. Malzahn, P.E.
Project Engineer

Enclosure: SEH Pay Application No. 7
DFT Application for Payment No. 7
DFT Final Lien Waiver

c: Mike Court, SEH
Jake Baneck, D.F. Tomasini Contractors, Inc.

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 501 Maple Avenue, Delafield, WI 53018-9351
SEH is 100% employee-owned | sehinc.com | 262.646.6855 | 888.908.8166 fax



Application for Payment No. 7 (FINAL)

Contractor DF Tomasini Inc.
N70W25176 Indian Grass Lane
Sussex, WI 53089

Contract For The Oaks of Jackson

Owner Village of Jackson

Project No. JACKV 170026

Contract Date April 18, 2023

Contract Amount \$1,955,419.53

For Period Ending August 21, 2024

Item No.	Item	Unit	Unit Price	CONTRACT		THIS PAYMENT		WORK TO DATE		BALANCE TO FINISH	PERCENT COMPLETE
				Quantity	Amount	Quantity	Amount	Quantity	Amount		
SECTION 100 EROSION CONTROL AND SITE GRADING ITEMS											
100-01	Mobilization	LS	\$ 30,350.00	1.00	\$ 30,350.00	0.00	\$ -	1.00	\$ 30,350.00	\$ -	100.00%
100-02	Clearing and Grubbing	AC	\$ 13,755.00	3.00	\$ 41,265.00	0.00	\$ -	3.00	\$ 41,265.00	\$ -	100.00%
100-03	Tree Protection Fence	LF	\$ 3.99	600.00	\$ 2,394.00	600.00	\$ 2,394.00	600.00	\$ 2,394.00	\$ -	100.00%
100-04	Silt Fence	LF	\$ 1.77	2,400.00	\$ 4,248.00	776.00	\$ 1,373.52	2,400.00	\$ 4,248.00	\$ -	100.00%
100-05	Sediment Logs	EA	\$ 126.25	120.00	\$ 15,150.00	120.00	\$ 15,150.00	120.00	\$ 15,150.00	\$ -	100.00%
100-06	Tracking Pad	EA	\$ 4,337.00	1.00	\$ 4,337.00	0.00	\$ -	1.00	\$ 4,337.00	\$ -	100.00%
100-07	Inlet Protection Type A	EA	\$ 253.00	4.00	\$ 1,012.00	4.00	\$ 1,012.00	4.00	\$ 1,012.00	\$ -	100.00%
100-08	Inlet Protection Type C	EA	\$ 65.65	17.00	\$ 1,116.05	7.00	\$ 459.55	17.00	\$ 1,116.05	\$ -	100.00%
100-09	Inlet Protection Type D	EA	\$ 126.25	9.00	\$ 1,136.25	9.00	\$ 1,136.25	9.00	\$ 1,136.25	\$ -	100.00%
100-10	Strip and Stockpile Topsoil	LS	\$ 43,831.00	1.00	\$ 43,831.00	0.00	\$ -	1.00	\$ 43,831.00	\$ -	100.00%
100-11	Site Grading	LS	\$ 134,086.00	1.00	\$ 134,086.00	0.00	\$ -	1.00	\$ 134,086.00	\$ -	100.00%
100-12	Basin Construction	LS	\$ 3,651.00	2.00	\$ 7,302.00	0.00	\$ -	2.00	\$ 7,302.00	\$ -	100.00%
100-13	Respread Topsoil, Seed, and Fertilizer	SY	\$ 0.71	60,000.00	\$ 42,600.00	0.00	\$ -	60,000.00	\$ 42,600.00	\$ -	100.00%
100-14	Erosion Mat Class I Type A	SY	\$ 1.57	8,000.00	\$ 12,560.00	(1,010.00)	\$ (1,585.70)	8,000.00	\$ 12,560.00	\$ -	100.00%
100-15	Erosion Mat Class II Type B	SY	\$ 3.13	2,600.00	\$ 8,138.00	2,240.00	\$ 7,011.20	2,600.00	\$ 8,138.00	\$ -	100.00%
100-16	Erosion Mat Class III Type B	SY	\$ 15.66	200.00	\$ 3,132.00	(8.88)	\$ (139.06)	200.00	\$ 3,132.00	\$ -	100.00%
100-17	Straw Mulch	SY	\$ 0.35	55,000.00	\$ 19,250.00	28,976.00	\$ 10,141.60	55,000.00	\$ 19,250.00	\$ -	100.00%
	Subtotal:				\$ 371,907.30		\$ 36,953.36		\$ 371,907.30	\$ -	100.00%
SECTION 200 ROADWAY ITEMS											
200-01	Base Repair	CY	\$ 50.00	250.00	\$ 12,500.00	250.00	\$ 12,500.00	250.00	\$ 12,500.00	\$ -	100.00%
200-02	Prepare Foundation for HMA Paving	LS	\$ 15,529.76	1.00	\$ 15,529.76	0.00	\$ -	1.00	\$ 15,529.76	\$ -	100.00%
200-03	Base Aggregate Dense 3/4"	TN	\$ 15.57	1,600.00	\$ 24,912.00	385.07	\$ 5,995.54	1,600.00	\$ 24,912.00	\$ -	100.00%
200-04	Base Aggregate Dense 1-1/4"	TN	\$ 15.57	6,300.00	\$ 98,091.00	1,443.38	\$ 22,473.43	6,300.00	\$ 98,091.00	\$ -	100.00%
200-05	HMA Pavement 4 LT 58-28 S (3")	SY	\$ 13.94	8,100.00	\$ 112,914.00	(31.00)	\$ (432.14)	8,100.00	\$ 112,914.00	\$ -	100.00%
200-06	Concrete Curb & Gutter 30" Vertical	LF	\$ 19.19	5,100.00	\$ 97,869.00	(63.00)	\$ (1,208.97)	5,100.00	\$ 97,869.00	\$ -	100.00%
200-07	Concrete Sidewalk 4-Inch	SF	\$ 4.51	25,900.00	\$ 116,809.00	(1,619.00)	\$ (7,301.69)	25,900.00	\$ 116,809.00	\$ -	100.00%
200-08	Concrete Sidewalk 6-Inch	SF	\$ 8.49	650.00	\$ 5,518.50	(74.00)	\$ (628.26)	650.00	\$ 5,518.50	\$ -	100.00%
200-09	Curb Ramp Detectable Warning Field (Yellow)	SF	\$ 40.40	150.00	\$ 6,060.00	0.00	\$ -	150.00	\$ 6,060.00	\$ -	100.00%
200-10	Geotextile Type SR	SY	\$ 3.04	400.00	\$ 1,216.00	400.00	\$ 1,216.00	400.00	\$ 1,216.00	\$ -	100.00%
200-11	Geogrid Type SR	SY	\$ 3.04	400.00	\$ 1,216.00	400.00	\$ 1,216.00	400.00	\$ 1,216.00	\$ -	100.00%
	Subtotal:				\$ 492,635.26		\$ 33,829.91		\$ 492,635.26	\$ -	100.00%
SECTION 300 SANITARY SEWER ITEMS											
300-01	Connection to Existing Utility	EA	\$ 2,059.14	1.00	\$ 2,059.14	0.00	\$ -	1.00	\$ 2,059.14	\$ -	100.00%
300-02	6-Inch PVC SDR-35 Sanitary Lateral w/ Granular Backfill	LF	\$ 80.42	1,675.00	\$ 134,703.50	154.50	\$ 12,424.89	1,675.00	\$ 134,703.50	\$ -	100.00%
300-03	8-Inch PVC SDR-35 Sanitary Sewer Main w/ Granular Backfill	LF	\$ 77.92	2,300.00	\$ 179,216.00	3.00	\$ 233.76	2,300.00	\$ 179,216.00	\$ -	100.00%
300-04	Sanitary Manhole 4-FT Diameter	EA	\$ 3,492.55	13.00	\$ 45,403.15	0.00	\$ -	13.00	\$ 45,403.15	\$ -	100.00%
300-05	Sanitary Manhole Internal Chimney	EA	\$ 400.00	13.00	\$ 5,200.00	0.00	\$ -	13.00	\$ 5,200.00	\$ -	100.00%
	Subtotal:				\$ 366,581.79		\$ 12,658.65		\$ 366,581.79	\$ -	100.00%

Item No.	Item	Unit	Unit Price	CONTRACT		THIS PAYMENT		WORK TO DATE		BALANCE TO FINISH	PERCENT COMPLETE
				Quantity	Amount	Quantity	Amount	Quantity	Amount		
SECTION 400 STORM SEWER ITEMS											
400-01	Connection to Existing Utility	EA	\$ 2,362.14	2.00	\$ 4,724.28	0.00	\$ -	2.00	\$ 4,724.28	\$ -	100.00%
400-02	Storm Sewer RCP Class V 12-Inch	LF	\$ 59.21	400.00	\$ 23,684.00	25.00	\$ 1,480.25	400.00	\$ 23,684.00	\$ -	100.00%
400-03	Storm Sewer RCP Class IV 15-Inch	LF	\$ 63.92	940.00	\$ 60,084.80	11.00	\$ 703.12	940.00	\$ 60,084.80	\$ -	100.00%
400-04	Storm Sewer RCP Class III 18-Inch	LF	\$ 66.95	650.00	\$ 43,517.50	11.00	\$ 736.45	650.00	\$ 43,517.50	\$ -	100.00%
400-05	Storm Sewer RCP Class III 24-Inch	LF	\$ 90.99	155.00	\$ 14,103.45	16.50	\$ 1,501.34	155.00	\$ 14,103.45	\$ -	100.00%
400-06	Storm Sewer RCP Class III 27-Inch	LF	\$ 104.98	75.00	\$ 7,873.50	1.00	\$ 104.98	75.00	\$ 7,873.50	\$ -	100.00%
400-07	Storm Sewer HDPE 12-Inch	LF	\$ 39.94	550.00	\$ 21,967.00	6.00	\$ 239.64	550.00	\$ 21,967.00	\$ -	100.00%
400-08	Storm Sewer HDPE 15-Inch	LF	\$ 48.22	111.00	\$ 5,352.42	0.00	\$ -	111.00	\$ 5,352.42	\$ -	100.00%
400-09	Storm Reinforced Concrete Endwall 12-Inch	EA	\$ 876.00	2.00	\$ 1,752.00	0.00	\$ -	2.00	\$ 1,752.00	\$ -	100.00%
400-10	Storm Reinforced Concrete Endwall 18-Inch	EA	\$ 968.00	1.00	\$ 968.00	(1.00)	\$ (968.00)	1.00	\$ 968.00	\$ -	100.00%
400-11	Storm Reinforced Concrete Endwall 27-Inch	EA	\$ 1,456.00	1.00	\$ 1,456.00	0.00	\$ -	1.00	\$ 1,456.00	\$ -	100.00%
400-12	Storm PVC SDR-35 Pipe 6-Inch (Sump System)	LF	\$ 31.78	1,275.00	\$ 40,519.50	(163.00)	\$ (5,180.14)	1,275.00	\$ 40,519.50	\$ -	100.00%
400-13	Storm PVC SDR-35 6-Inch Clean-Out	EA	\$ 697.35	4.00	\$ 2,789.40	0.00	\$ -	4.00	\$ 2,789.40	\$ -	100.00%
400-14	Storm Catch Basin 3-FT Diameter	EA	\$ 2,091.16	4.00	\$ 8,364.64	0.00	\$ -	4.00	\$ 8,364.64	\$ -	100.00%
400-15	Storm Inlet Manhole 4-FT Diameter	EA	\$ 2,775.24	8.00	\$ 22,201.92	0.00	\$ -	8.00	\$ 22,201.92	\$ -	100.00%
400-16	Storm Inlet Manhole 5-FT Diameter	EA	\$ 3,584.22	3.00	\$ 10,752.66	0.00	\$ -	3.00	\$ 10,752.66	\$ -	100.00%
400-17	Storm Manhole 4-FT Diameter	EA	\$ 2,778.30	1.00	\$ 2,778.30	0.00	\$ -	1.00	\$ 2,778.30	\$ -	100.00%
400-18	Storm Inlet 2x3-FT	EA	\$ 2,233.99	17.00	\$ 37,977.83	0.00	\$ -	17.00	\$ 37,977.83	\$ -	100.00%
400-19	Storm Outlet Structure 4-FT Diameter	EA	\$ 4,127.33	1.00	\$ 4,127.33	0.00	\$ -	1.00	\$ 4,127.33	\$ -	100.00%
400-20	Storm Outlet Structure 5-FT Diameter	EA	\$ 6,229.82	1.00	\$ 6,229.82	0.00	\$ -	1.00	\$ 6,229.82	\$ -	100.00%
	Subtotal:				\$ 321,224.35		\$ (1,382.37)		\$ 321,224.35	\$ -	100.00%
SECTION 500 WATER MAIN ITEMS											
500-01	Connection to Existing Utility	EA	\$ 4,320.28	2.00	\$ 8,640.56	0.00	\$ -	2.00	\$ 8,640.56	\$ -	100.00%
500-02	8-Inch PVC C-900 Water Main w/ Granular Backfill	LF	\$ 74.19	2,600.00	\$ 192,894.00	(26.00)	\$ (1,928.94)	2,600.00	\$ 192,894.00	\$ -	100.00%
500-03	6-Inch PVC C-900 Water Hydrant Lead w/ Granular Backfill	LF	\$ 148.95	100.00	\$ 14,895.00	9.00	\$ 1,340.55	100.00	\$ 14,895.00	\$ -	100.00%
500-04	8-Inch Gate Valve and Box	EA	\$ 2,382.61	7.00	\$ 16,678.27	0.00	\$ -	7.00	\$ 16,678.27	\$ -	100.00%
500-05	Hydrant Assembly w/ Granular Backfill	EA	\$ 6,653.11	6.00	\$ 39,918.66	0.00	\$ -	6.00	\$ 39,918.66	\$ -	100.00%
500-06	Existing Hydrant Relocation	EA	\$ 2,359.54	2.00	\$ 4,719.08	0.00	\$ -	2.00	\$ 4,719.08	\$ -	100.00%
500-07	1-1/4-Inch HDPE SDR-9 Water	LF	\$ 47.35	1,875.00	\$ 88,781.25	(60.00)	\$ (2,841.00)	1,875.00	\$ 88,781.25	\$ -	100.00%
500-08	1-1/4-Inch Water Service Tap and Corrosion Valve	EA	\$ 304.77	59.00	\$ 17,981.43	9.00	\$ 2,742.93	59.00	\$ 17,981.43	\$ -	100.00%
500-09	1-1/4-Inch Water Curb Valve and Box	EA	\$ 314.62	59.00	\$ 18,562.58	9.00	\$ 2,831.58	59.00	\$ 18,562.58	\$ -	100.00%
	Subtotal:				\$ 403,070.83		\$ 2,145.12		\$ 403,070.83	\$ -	100.00%
PROJECT SUBTOTAL:					\$ 1,955,419.53		\$ 84,204.67		\$ 1,955,419.53	\$ -	100.00%

Item No.	Item	Unit	Unit Price	CONTRACT		THIS PAYMENT		WORK TO DATE		BALANCE TO FINISH	PERCENT COMPLETE
				Quantity	Amount	Quantity	Amount	Quantity	Amount		
CHANGE ORDER NO. 1 - Subbase Stabilizer											
CO1.1	Mobilization for Cement Stabilization	LS	\$ 5,197.50	1.00	\$ 5,197.50	0.00	\$ -	1.00	\$ 5,197.50	\$ -	100.00%
CO1.2	Cement Stabilization (12")	SY	\$ 7.93	10,525.00	\$ 83,463.25	0.00	\$ -	10,525.00	\$ 83,463.25	\$ -	100.00%
CO1.3	Fine Grading During Stabilization	LS	\$ 13,328.70	1.00	\$ 13,328.70	0.00	\$ -	1.00	\$ 13,328.70	\$ -	100.00%
Subtotal, Change Order No. 1					\$ 101,989.45		\$ -		\$ 101,989.45	\$ -	100.00%
ALTERNATE NO. 3 - Contractor Purchase and Haul Excess Topsoil (ADD/DEDUCT)											
A3-01	Purchase Excess Topsoil and Haul	CY	\$ (3.00)	8,000.00	\$ (24,000.00)	2,096.00	\$ (6,288.00)	8,000.00	\$ (24,000.00)	\$ -	100.00%
CHANGE ORDER NO. 2 - Project Closeout											
CO2.1	Quantity Accounting Balancing	LS	\$ (77,916.67)	1.00	\$ (77,916.67)	1.00	\$ (77,916.67)	1.00	\$ (77,916.67)	\$ -	100.00%
Subtotal, Change Order No. 2					\$ (77,916.67)		\$ (77,916.67)		\$ (77,916.67)	\$ -	100.00%
OVERALL TOTAL:					\$ 1,955,492.31		\$ 0.00		\$ 1,955,492.31	\$ -	100.00%

CONTRACT SUMMARY

ORIGINAL CONTRACT SUM: \$ 1,955,419.53
NET CHANGE BY CHANGE ORDERS & ALT NO. 3: \$ 72.78
REVISED CONTRACT SUM TO DATE: \$ 1,955,492.31

TOTAL WORK COMPLETED: \$ 1,955,492.31
NEW RETAINAGE (5% ON 1ST HALF OF WORK COMPLETED) \$ 24,000.00
RETAINAGE TO BE PAID: \$ 24,000.00
FUNDS TO BE RETAINED: \$ -

TOTAL EARNED LESS DEDUCTIONS AND RETAINAGE: \$ 1,955,492.31
LESS PREVIOUS APPROVALS FOR PAYMENT: \$ 1,931,492.31
CURRENT PAYMENT APPROVED (PAYMENT OF RETAINAGE): \$ 24,000.00

TOTAL PREVIOUS PAYMENTS TO CONTRACTOR:	\$ 1,931,492.31
TOTAL PAYMENTS TO CONTRACTOR THIS INVOICE:	\$ 24,000.00
TOTAL PAYMENTS TO CONTRACTOR TO DATE:	\$ 1,955,492.31

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2

TO OWNER:

Village of Jackson
N168W19851 Main Street
Jackson, WI 53037

PROJECT:

The Oaks of Jackson
Jackson, WI

FROM CONTRACTOR:

D.F. Tomasini Contractors, Inc.
N70 W25176 Indian Grass Lane
Sussex, WI 53089

VIA ARCHITECT:

SEH
501 Maple Avenue
Delafield, WI 53018

APPLICATION NO:

7

Distribution to:

PERIOD TO:

8/21/24

PROJECT NOS:

JACKV170026
DFT#2262

CONTRACT DATE:

4/18/2023

CONTRACT FOR: Site Improvements

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM

\$ 1,955,419.53

2. Net change by Change Orders

\$ 72.79

3. CONTRACT SUM TO DATE (Line 1 ± 2)

\$ 1,955,492.32

4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)

\$ 1,955,492.32

5. RETAINAGE:

a. % of Completed Work (Column D + E on G703)

\$

b. % of Stored Material (Column F on G703)

\$ 0.00

Total Retainage (Lines 5a + 5b or Total in Column I of G703)

\$ 0.00

6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)

\$ 1,955,492.32

7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)

\$ 1,931,492.32

8. CURRENT PAYMENT DUE

\$ 24,000.00

9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)

\$ 0.00

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$101,989.45	\$24,000.00
Total approved this Month	\$0.00	\$77,916.66
TOTALS	\$101,989.45	\$101,916.66
NET CHANGES by Change Order	\$72.79	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: D.F. TOMASINI CONTRACTORS, INC.

By:

Mike Benish, President

 Date: 8/21/24

State of: Wisconsin County of: Waukesha

Subscribed and sworn to before me this 21st day of August, 2024

Notary Public:

Kristine L. Vasko

My Commission expires: 09/25/24

Kristine L. Vasko

Notary Public

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)
ARCHITECT:

By: Date:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

AIA DOCUMENT G702 • APPLICATION AND CERTIFICATION FOR PAYMENT • 1992 EDITION • AIA • ©1992

THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVE., N.W., WASHINGTON, DC 20006-5292

Users may obtain validation of this document by requesting a completed AIA Document D401 - Certification of Document's Authenticity from the Licensee.

Page 24 of 293

CONTINUATION SHEET

AIA DOCUMENT G703

2 of 2

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C-G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	%		
1	Erosion Control & Site Grading	371,907.30	334,953.94	36,953.36	-	371,907.30	100.00%	-	-
2	Roadway Items	492,635.26	458,805.36	33,829.90	-	492,635.26	100.00%	-	-
3	Sanitary Sewer	366,581.79	353,923.14	12,658.65	-	366,581.79	100.00%	-	-
4	Storm Sewer	321,224.35	322,606.72	(1,382.37)	-	321,224.35	100.00%	-	-
5	Water Main	403,070.83	400,925.71	2,145.12	-	403,070.83	100.00%	-	-
6	Change Order #1	101,989.45	101,989.45	-	-	101,989.45	100.00%	-	-
7	Purchase excess topsoil & haul away	(24,000.00)	(17,712.00)	(6,288.00)	-	(24,000.00)	100.00%	-	-
8	Change Order #2	(77,916.66)	-	(77,916.66)	-	(77,916.66)	100.00%	-	-
		1,955,492.32	1,955,492.32	-	-	1,955,492.32	100%	-	-

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

RELEASE FORM 4

**UNCONDITIONAL WAIVER AND RELEASE
UPON FINAL PAYMENT**

The undersigned has been paid in full for all labor, services, equipment or material furnished to

Village of Jackson on the job of

(Owner)

The Oaks of Jackson, Jackson, WI and does hereby

(Job Description)

waive and release any right of mechanic's lien, stop notice, or any right against a labor and material bond on the job, except for disputed claims for extra work in the amount of

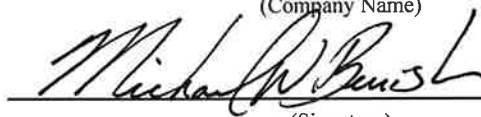
none .

NOTICE: This document waives rights unconditionally and states that you have been paid for giving up those rights. This document is enforceable against you if you sign it, even if you have not been paid. If you have not been paid, use the conditional release form.

Company: D.F. Tomasini Contractors, Inc.

(Company Name)

By:



(Signature)

Date: 8/21/2024

Mike Benish, President

(Name and Title)

- RIGHT OF WAY
- PERMANENT EASEMENT
- PROPERTY LINE
- HORIZONTAL CONTROL POINT
- BENCHMARK
- SURVEY MARKER
- SOIL BORING
- SANITARY SEWER AND MANHOLE
- FORCE MAIN AND LIFT STATION
- SANITARY SEWER SERVICE & CLEANOUT
- WATER MAIN, HYDRANT, VALVE AND MANHOLE
- WATER SERVICE AND CURB STOP BOX
- STORM SEWER, MANHOLE AND CATCH BASIN
- CULVERT AND APRON ENDWALL
- GAS MAIN, VALVE, VENT AND METER
- HANDHOLE
- BURIED FIBER OPTIC CABLE AND MANHOLE
- BURIED PHONE CABLE, PEDESTAL AND MANHOLE
- BURIED TV CABLE, PEDESTAL AND MANHOLE
- BURIED ELECTRIC CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER
- OVERHEAD WIRE, POLE AND GUY WIRE
- LIGHT POLE
- TRAFFIC SIGNAL
- STREET NAME SIGN
- SIGN (NON STREET NAME)
- + RAILROAD TRACKS
- DECIDUOUS AND CONIFEROUS TREE
- BUSH / SHRUB AND STUMP
- EDGE OF WOODED AREA
- WETLAND
- BUILDING
- FENCE (UNIDENTIFIED)
- BARBED WIRE FENCE
- CHAIN LINK FENCE
- ELECTRIC WIRE FENCE
- WOOD FENCE
- WOVEN WIRE FENCE
- PLATE BEAM GUARDRAIL
- CABLE GUARDRAIL
- POST / BOLLARD
- RETAINING WALL

- STREET CENTERLINE
- RIGHT-OF-WAY
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- CONSTRUCTION LIMITS
- SANITARY SEWER, BULKHEAD AND MANHOLE
- FORCE MAIN
- SANITARY SERVICE AND CLEANOUT
- WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE
- WATER VALVE MANHOLE, REDUCER, BEND AND CROSS
- WATER SERVICE AND CURB STOP BOX
- STORM SEWER, MANHOLE AND CATCH BASIN
- CULVERT AND APRON ENDWALL
- DRAIN TILE
- DITCH / SWALE
- RIPRAP
- STREET NAME SIGN
- SIGN (NON STREET NAME)
- RETAINING WALL

OAKS OF JACKSON ADDITION #1

The map displays the project location in Jackson, Mississippi. The intersection of State Route 60 and Main Street is marked with a black arrow and labeled "PROJECT LOCATION". Jackson Park and Hickory Lane Park are highlighted in green. Cedar Creek is shown flowing through the area. The map includes various streets such as Highland Rd, Northriver Dr, Valley Dr, Ridge Rd, Willow Ridge Dr, Hunters Rd, Chateau Dr, Wishire Dr, Georgetown Dr, Park St, Main St, Spruce St, Hemlock St, Linden Dr, Hawthorn Dr, Eagle Dr, Hickory Ln, Juniper St, Oak Cir, White, Butternut Ln, Riverview Dr, Pine Dr, Elm Dr, Les F on Circle, Cedar, Elm Dr, Oakland Dr, Stonelodge Ln, Glen Brook Dr, Kami Ln, N Center St, S Center St, Reynolds St, South St, Parkway Dr, Glencoe Ln, Glen Hill Dr, and Marshfield Dr. The map also shows the intersection of State Route 60 and Main Street, and the intersection of State Route 60 and Highway 60.



Sheet List Table	
Sheet Number	Sheet Title
T 1.00	TITLE SHEET
D 1.00	EROSION CONTROL DETAILS
D 1.01	DETAILS - 1
C 2.00	MASTER GRADING PLAN
C 2.01	EROSION CONTROL PLAN
C 3.00	ROAD & STORM PLAN & PROFILE
C 4.00	SANITARY & WATER PLAN & PROFILE

A map of Washington County, Wisconsin, with its various townships outlined. A line points from the text 'VILLAGE OF JACKSON, WASHINGTON COUNTY' to a specific location within the county, likely indicating the village's position relative to the surrounding townships.

REV #	DATE	COMMENTS



Know what's below.
Call before you dig.

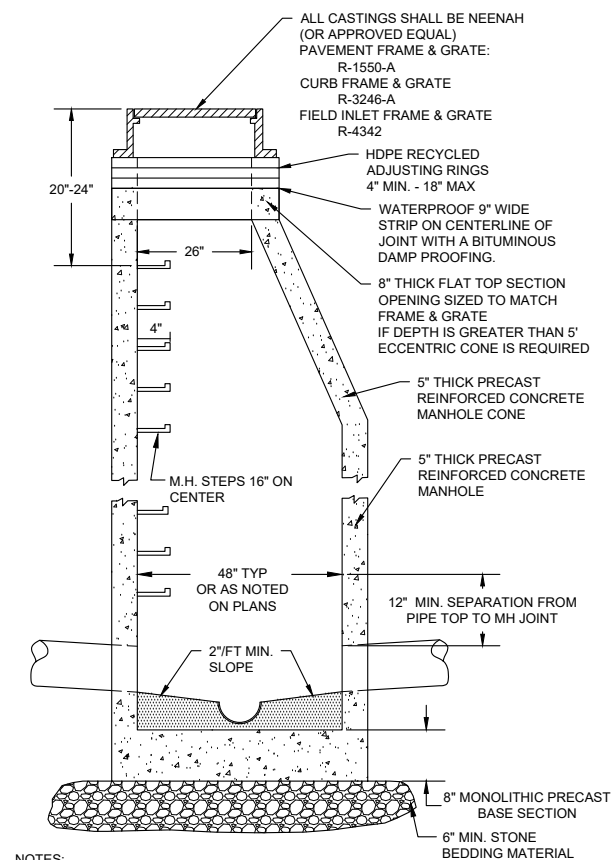


PROJECT NO.	180080
DATE	

1.00
of 7

NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

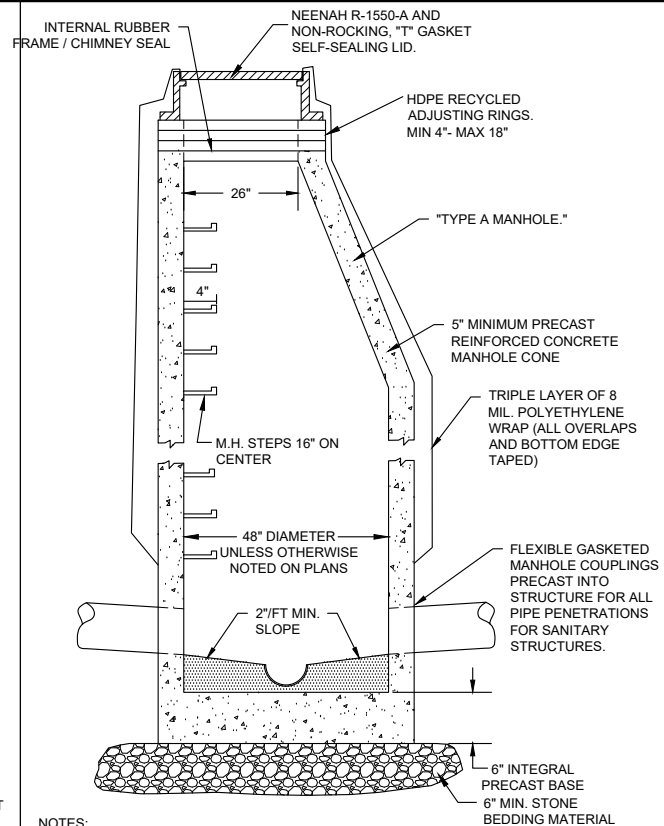
THE CONTRACTOR SHALL CALL THE WISCONSIN ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.



- | NOTES: | BEDDING MATERIAL |
|--|------------------|
| 1. THE ANNULAR SPACE BETWEEN THE PIPE AND MH SHALL BE FITTED WITH EITHER BRICK AND MORTAR, TROWELABLE BUTYL RUBBER MASTIC GASKET MATERIAL, OR OTHER APPROVED METHOD. | |
| 2. TUCK POINT MORTAR INTO ANNULAR CRACK AND BACKPLASTERED INSIDE AND OUTSIDE OF ALL JOINTS. | |
| 3. EZ-STICK RUBBER GASKET OR APPROVED EQUAL SHALL BE PLACED AT ALL JOINTS BETWEEN ADJUSTING RINGS. | |
| 4. MEET REQUIREMENTS OF ASTM C478. | |
| 5. CLEAN UNDERSIDE OF ADJUSTING RINGS OR CAST IRON FRAME AND SET IN PLACE. | |

TYPICAL STORM MANHOLE DETAIL

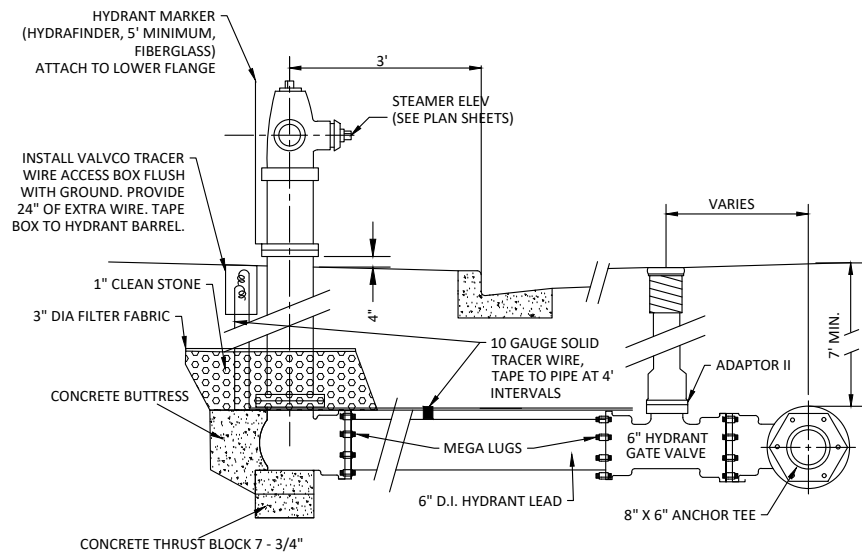
NTS



- | NOTES: | BEDDING MATERIAL |
|---|------------------|
| 1. FLEXIBLE WATERTIGHT PIPE TO MANHOLE SEAL IS REQUIRED FOR ALL FLEXIBLE SANITARY SEWER CONNECTIONS. ALL ANNULAR SPACE BETWEEN THE PIPE AND MANHOLE SHALL BE FILLED WITH FLEXIBLE BUTYL RUBBER GASKET MATERIAL PRIOR TO POURING THE MANHOLE INVERT AND BENCH. | |
| 2. "RAMNEK", KENT SEAL OR APPROVED EQUAL SHALL BE USED FOR JOINTING PRE-CAST MANHOLE SECTIONS. | |

TYPICAL SANITARY MANHOLE DETAIL

NTS

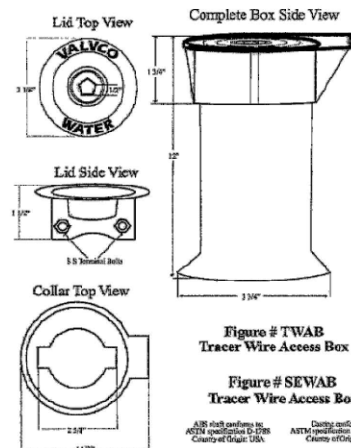


- NOTES:
1. HYDRANT SHALL BE WATEROUS PACER.
 2. RODDING OF HYDRANT MAY BE REQUIRED IF SOILS ARE UNSUITABLE.
 3. ENCASE ENTIRE BRANCH AND VALVE IN POLYETHYLENE WRAP.

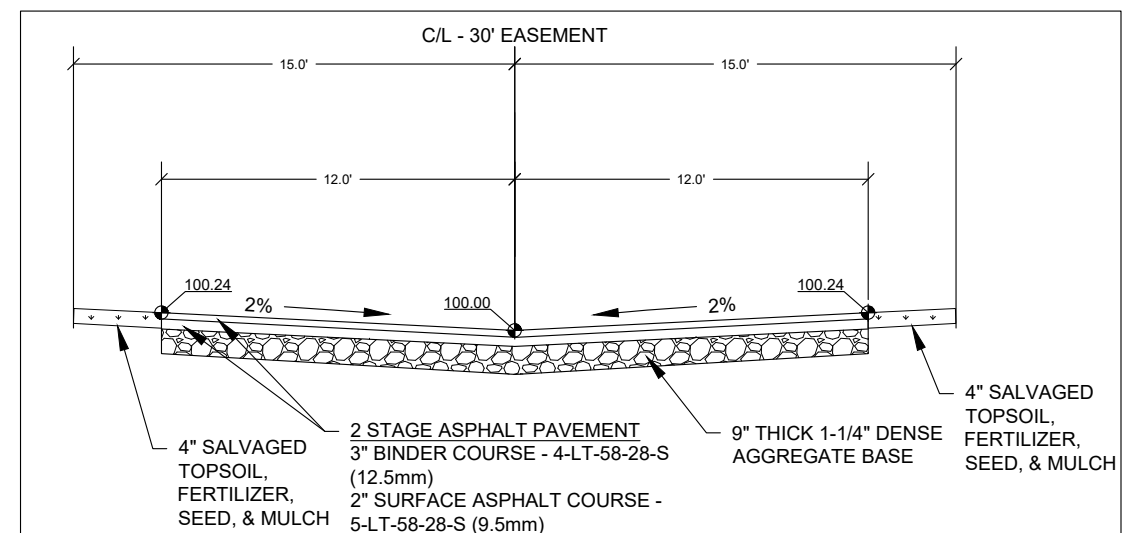
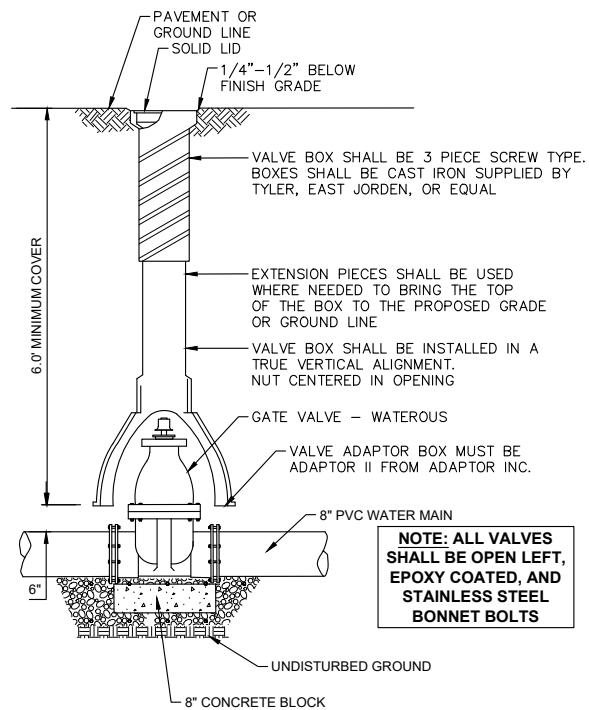
HYDRANT DETAILS

NTS

DATE: 8/5/2024 10:26 AM



C.P. Test Services - VALVCO, Inc.
Sales Office
P.O. Box 366, New Berlinville, PA 19545
Toll Free: 888-482-5826



ALLEY CROSS SECTION

NTS

SEH Project	HILBU180080	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	KB	.			.		
Designed By	LP	.			.		
Checked By	MC	.			.		





NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL
D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE
GUIDELINES OF C/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE
COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
THE CONTRACTOR SHALL CALL THE STATE ONE CALL SYSTEM AT 811
BEFORE COMMENCING EXCAVATION.



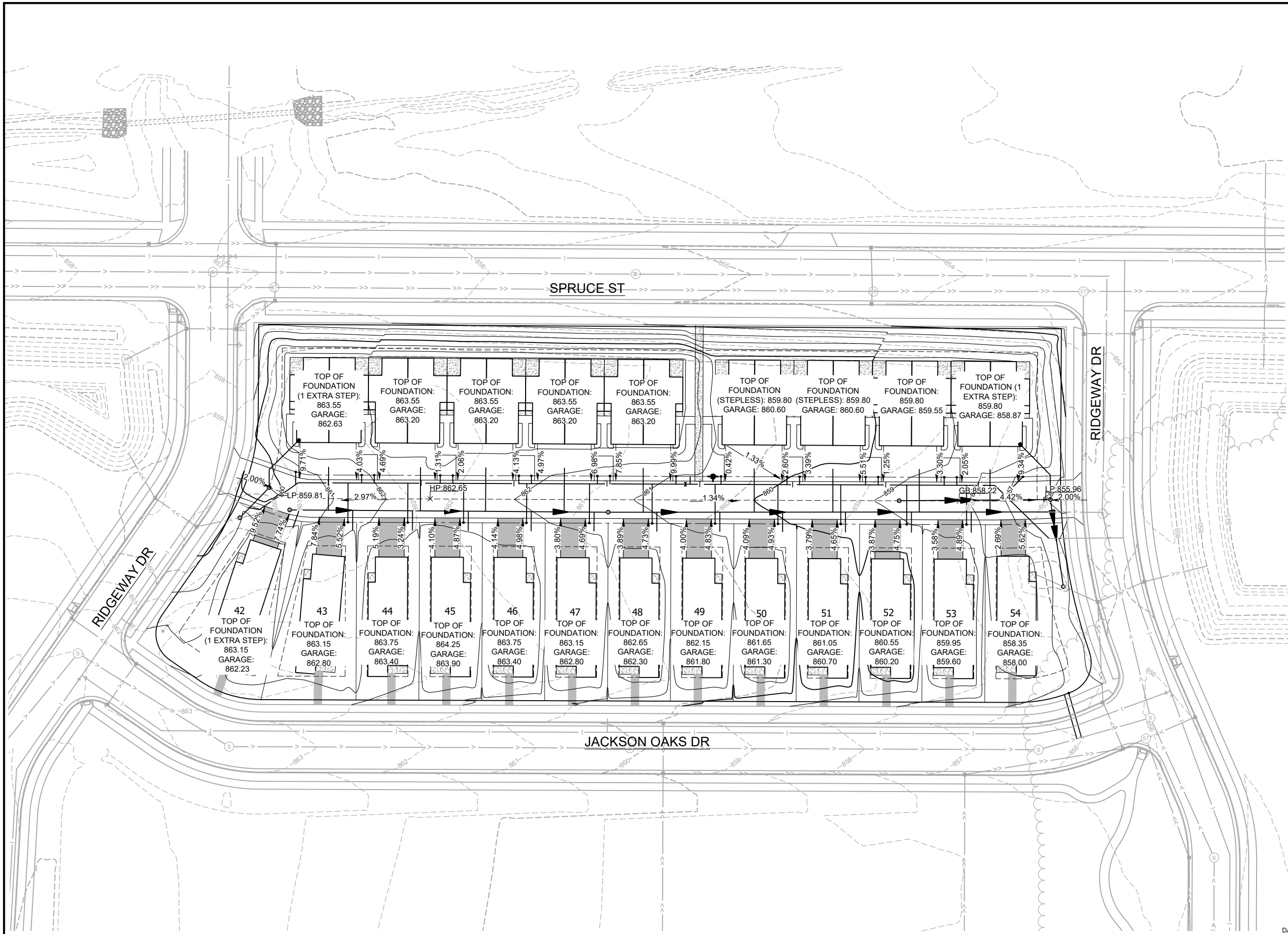
OAKS OF JACKSON ADDITION #1

DETAILS - 1

0 1.01 |

f 7 |

Save: 8/5/2024 9:59 AM | pdeila Plot: 8/5/2024 10:27 AM | X:\F\J\H\H\BU180080\5-final.dgn | 51-drawings\10-Civil\cad\dwg\sheet\H180080_ER GP.dwg



GRADING NOTES

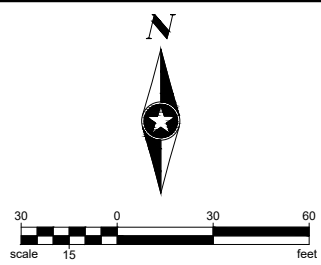
- "TOP OF FOUNDATION" REPRESENTS THE ELEVATION AT THE TOP OF THE FOUNDATION WALL FOR EACH HOUSE.
- "GARAGE" REPRESENT THE ELEVATION AT THE FRONT OF THE GARAGE SLAB UNDERNEATH THE OVERHEAD DOOR.

SEH Project	HILBU180080	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	NOTE: THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CIASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR SHALL CALL THE STATE ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.	811 Know what's below. Call before you dig.	OAKS OF JACKSON ADDITION #1 VILLAGE OF JACKSON, WI	MASTER GRADING PLAN	C 2.00
Drawn By	KB											of 7
Designed By	LP											Page 30 of 293
Checked By	MC											

DATE: 8/5/2024 10:27 AM

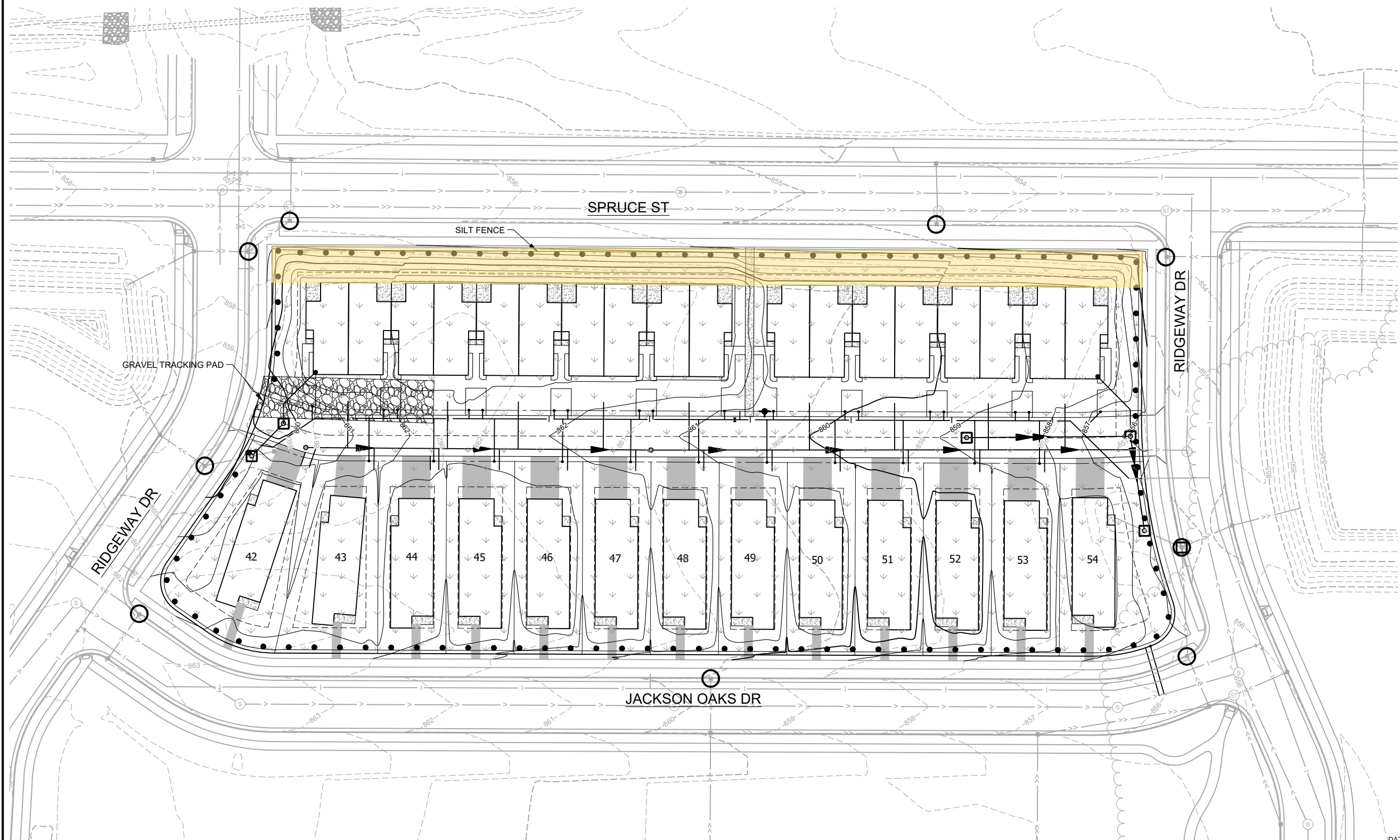
1. POST WDNR CERTIFICATE OF PERMIT COVERAGE ON-SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, AND THE SITE IS STABILIZED.
2. KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
3. SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
4. PERMIT HOLDER IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 1/2" OR GREATER. CORRECT ANY DAMAGED STRUCTURES IMMEDIATELY. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
5. WHEN POSSIBLE: PRESERVE EXISTING VEGETATION, MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
6. CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE "WDNR STORMWATER CONSTRUCTION AND POST-CONSTRUCTION TECHNICAL STANDARDS".

- | | | |
|---|--|--|
| <p>7. EROSION CONTROL MEASURES MAY NEED TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION.</p> <p>8. INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE AREA(S) SERVED HAVE 80% OR MORE ESTABLISHED VEGETATIVE COVER AS DETERMINED BY THE ENGINEER.</p> <p>9. INSTALL PERIMETER EROSION CONTROLS AND TRACKING PAD(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD #1057 FOR CONSTRUCTION ENTRANCE(S).</p> <p>10. SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED. SEPARATE SWEEP MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD #1068.</p> <p>11. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED OFF-SITE.</p> <p>12. CONTRACTOR TO COORDINATE WITH MUNICIPALITY TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATION(S) FOR ANY EXCAVATED SOILS AND/OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).</p> | <p>13. INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA(S) AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD #1060.</p> <p>14. STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD #1067.</p> <p>15. INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE HALF OF THE CONTROL PRACTICE'S HEIGHT. REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY.</p> <p>16. INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD #1071.</p> <p>17. ALL SIDE SLOPES 5:1 OR STEEPER SHALL BE RESTORED WITH CLASS I - TYPE 'A' EROSION MATTING, AND ALL AREAS OF CONCENTRATED FLOW SHALL BE RESTORED WITH CLASS II - TYPE 'B' CHANNEL MATTING. INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARDS #1052 AND #1053.</p> | <p>18. ALL SLOPES PROTECTED ONLY BY SILT FENCE MUST BE FULLY RESTORED WITHIN 30 DAYS OF DISTURBANCE.</p> <p>19. STABILIZE ALL NON-ACTIVE STOCKPILES WITH TEMPORARY SEED & MULCH WITHIN 7 DAYS OF INACTIVITY AND/OR WITHIN 30 DAYS OF LAYUP. INSTALL SILT FENCING AROUND ALL DOWN SLOPE AND SIDE SLOPE OF TOPSOIL STOCKPILES. STOCKPILES NOT SHOWING ADEQUATE VEGETATION BY NOV 1 SHOULD BE DORMANT SEEDDED AND COVERED WITH A W60DOT PAL TYPE A SOIL STABILIZER (FOR SLOPES 3 FEET HORIZONTAL TO 1 FOOT VERTICAL OR FLATTER) OR EROSION CONTROL MAT.</p> <p>20. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS OF INACTIVITY. THIS MAY BE DONE USING TEMPORARY AND/OR PREEMINENT RESTORATION TECHNIQUES, DEPENDING ON PROGRESS OF GRADING ACTIVITIES OF THE AREA(S). THIS INCLUDES AREAS OF SITE DEVELOPMENT AND UTILITY CONSTRUCTION.</p> <p>21. SEDIMENT CONTROL FOR UTILITY CONSTRUCTION</p> <ol style="list-style-type: none"> PLACE EXCAVATED TRENCH MATERIAL ON HIGH SIDE OF THE TRENCH. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER UTILITY INSTALLATION. |
|---|--|--|



	- INLET PROTECTION TYPE 'A'
	- INLET PROTECTION TYPE 'C'
	- SILT FENCE
	- CLASS I - TYPE 'A' ECRM
	- SEEDING AND MULCH

1. INSTALL STONE TRACKING PAD.
2. INSTALL SILT FENCE AND INLET PROTECTION.
3. STRIP STOCKPILE TOPSOIL ON UPSTREAM SIDE OF DISTURBED AREA. **NOTE: RESTORE STOCKPILES WITH TEMPORARY SEED AND MUCH WITHIN 14 DAYS OF INACTIVITY.**
4. INSTALL UTILITIES (INSTALL INLET PROTECTION ON ALL NEWLY CONSTRUCTED STORM SEWER INLETS). **NOTE: RESTORE TRENCH SPOIL STOCKPILES WITH TEMPORARY SEED AND MUCH WITHIN 14 DAYS OF INACTIVITY.**
5. GRADE ROADS TO SUBGRADE..
6. INSTALL ROAD BASE AND PAVEMENT
7. INSTALL FINAL RESTORATION OF ALL DISTURBED AREAS. **NOTE: THIS MAY OCCUR CONCURRENTLY WITH HOME BUILDING.**
8. ALL TEMPORARY EROSION CONTROL MEASURES SHALL REMAIN IN PLACE DURING SITE CONSTRUCTION UNTIL ALL CONTRIBUTING AREAS HAVE ESTABLISHED 80% VEGETATIVE COVER. CONTRACTOR SHALL REPAIR ANY DAMAGE DONE TO SITE DURING REMOVAL OF TEMPORARY EROSION CONTROL MEASURES AND/OR SEDIMENT REMOVAL. SAID REPAIR(S) SHALL BE CONSIDERED INCIDENTAL TO SITE CONSTRUCTION.



SEH Project	HILBU180080	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	KB	.			.		
Designed By	LP	.			.		
Checked By	MC	.			.		

NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL
D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE
GUIDELINES OF C/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE
COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
THE CONTRACTOR SHALL CALL THE STATE ONE CALL SYSTEM AT 811 KN
BEFORE COMMENCING EXCAVATION.

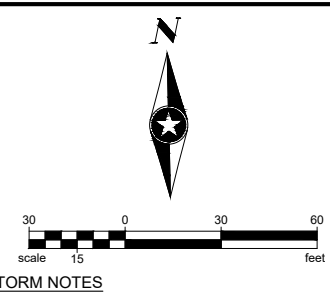
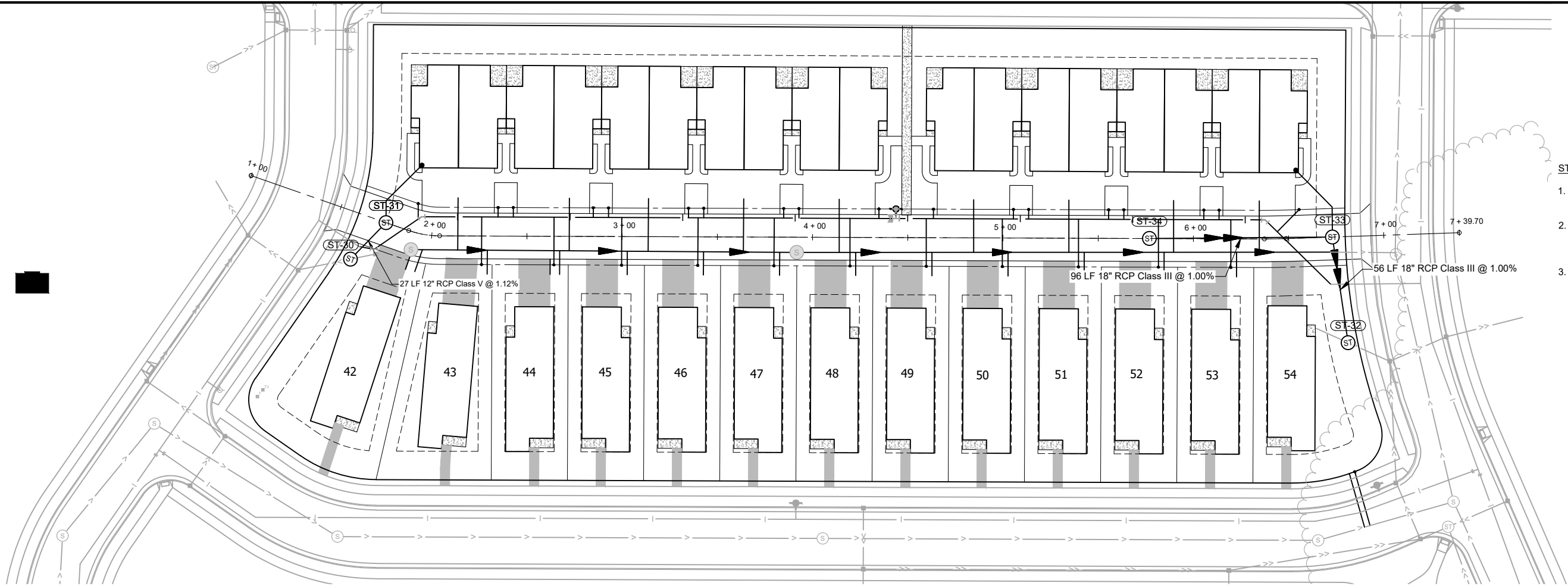


OAKS OF JACKSON ADDITION #1

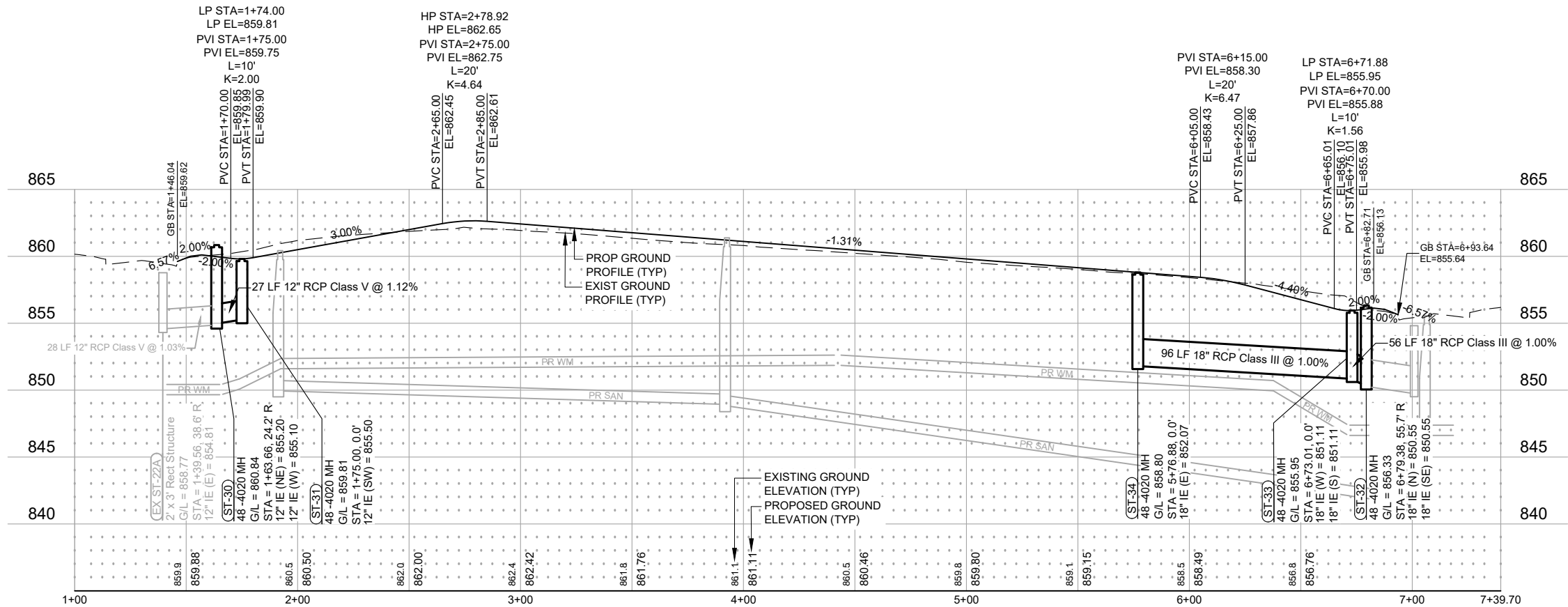
EROSION CONTROL PLAN

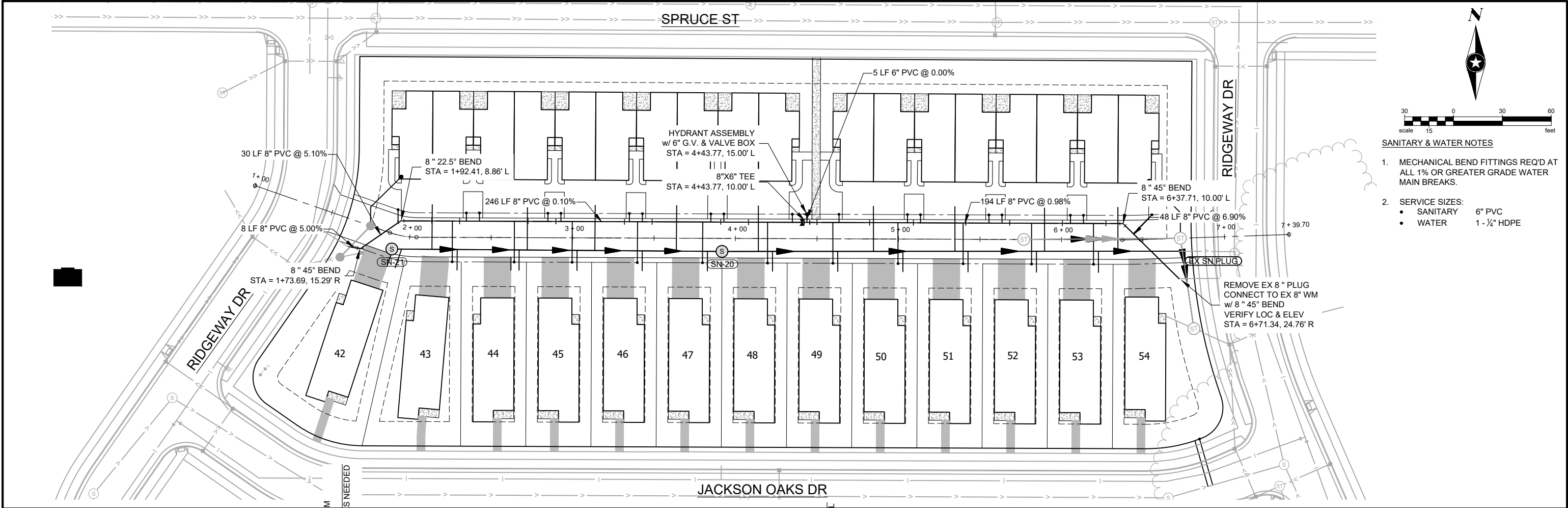
C 2.01

of 7

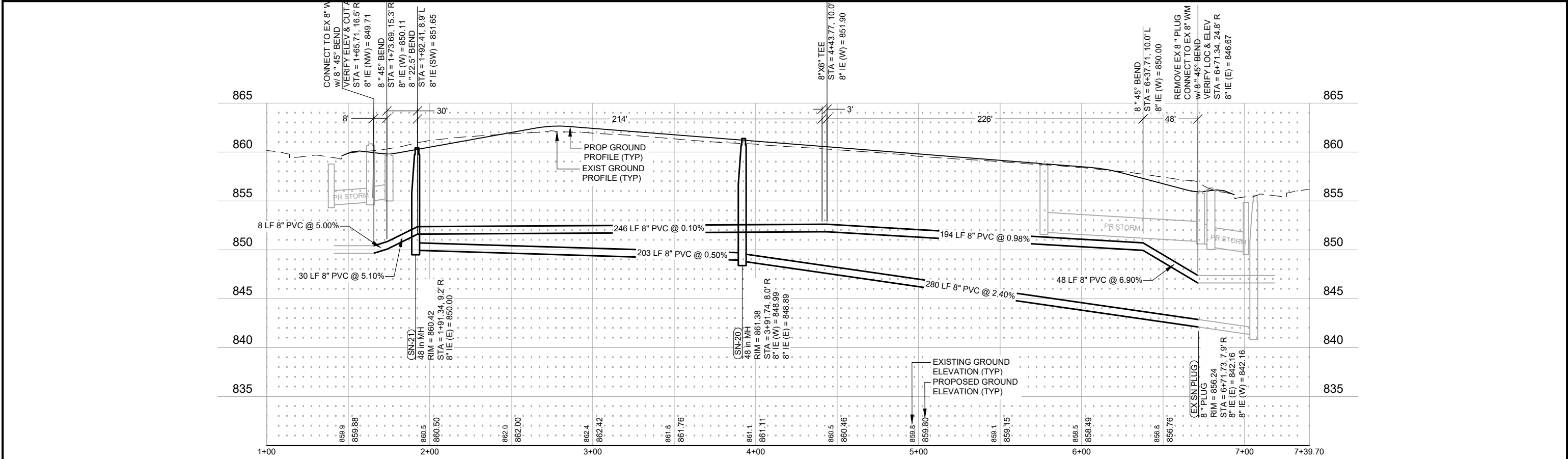


- STORM NOTES**
1. ALL BUILDING SUMP LATERALS SHALL BE 6" PVC.
 2. ATTACH SUMP LATERALS TO THE NEAREST ADJACENT STORM MAINLINE, STRUCTURE, OR SUMP LINE AS REQ'D.
 3. INSTALL 6" PVC SUMP LINES WITH 4' MINIMUM COVER AND AT 1% MIN. SLOPE.





- SANITARY & WATER NOTES**
- MECHANICAL BEND FITTINGS REQ'D AT ALL 1% OR GREATER GRADE WATER MAIN BREAKS.
 - SERVICE SIZES:
 - SANITARY 6" PVC
 - WATER 1 - 1/4" HDPE



Cedar Creek BMP Report

WDNR UNPS Planning Grant Services:
Cedar Creek BMP
for Village of Jackson, Wisconsin

VILLAGE OF JACKSON

N168 W19851 MAIN STREET
JACKSON, WI 53037

Date: February 28, 2024



Table of Contents

Section 1.0 Introduction	3
1.1 Urban Nonpoint Source Grant.....	3
1.2 Project Information	3
1.3 Site Description	3
Section 2.0 Plan Update.....	4
Section 3.0 Hydrology and Hydraulics	5
3.1 Purpose	5
3.2 Hydrology.....	5
3.2.1 Hydrologic Parameters.....	5
3.2.2 Flow Estimates	6
3.3 Hydraulics.....	7
3.3.1 Model Parameters.....	7
3.3.2 Control Practices	8
3.3.3 Results.....	9
Section 4.0 BMP Evaluation	11
Section 5.0 Field Data, Wetland Delineation, and Infiltration Testing	11
5.1 Site Location and Survey Limits	11
5.2 Desktop Investigation.....	12
5.2.1 Topography	12
5.2.2 Antecedent Precipitation.....	12
5.2.3 Soil Survey.....	13
5.2.4 Federal Emergency Management Agency Floodplains	13
5.2.5 National Wetlands Inventory.....	13
5.2.6 Wisconsin Wetland Inventory	14
5.2.7 Watershed Boundary Dataset and National Hydrography Dataset	14
5.3 Wetland Delineation Field Investigation.....	14
5.3.1 Wetlands	15
5.3.2 Surface Waters	17
5.3.3 Other Features.....	17
5.4 Infiltration Testing Field Investigation	18
5.4.1 Preliminary Field Verification	18
5.4.2 Field Evaluation of Specific Infiltration Areas	18
5.4.3 Results.....	18
5.4.4 Infiltration Rate Determination	19
Section 6.0 Recommendations.....	20
Section 7.0 References.....	21

Appendices

Appendix A: Figures

Appendix B: Streamstats and Rainfall Data

Appendix C: WinSLAMM Inputs

Appendix D: WinSLAMM Results

Appendix E: Infiltration Testing

Appendix F: Wetland Report

List of Figures

Figure 1: Project Location Topographic Map

Figure 2. Watershed Boundaries and Flowpaths

Figure 3. Infiltration Testing Pits

Figure 4. Proposed Biofilter Location Aerial Map

Figure 5. Proposed BMP Site Location, Street View

Figure 6. Proposed Site Location Facing East

Figure 7. Proposed Site Location Facing South

List of Tables

Table 3-1. Peak Flow Discharges

Table 3-2. Runoff Depths

Table 3-3. Runoff and Pollutant Reduction at Outfall

Table 3-4. Control Device Performance

Table 1-1: Antecedent Precipitation Evaluation

Table 1-2: Mapped Soils within the Survey Limits

Table 1-3: National Wetlands Inventory Wetlands within the Survey Limits

Table 1-4: Wisconsin Wetland Inventory Wetlands within the Survey Limits

Table 5-5. Soil Infiltration Testing Results

Table 5-6. Infiltration Rate Determination

Section 1.0 Introduction

1.1 Urban Nonpoint Source Grant

An Urban Nonpoint Source (UNPS) Planning Grant is providing funding for an update to the Village of Jackson's 2017 Stormwater Compliance Report. This update will focus on a subwatershed on the Village's east side that contributes runoff to the Cedar Creek near the Hickory Lane bridge over Cedar Creek. The update provides planning for Streambank Stabilization and Stormwater Management for the surrounding area.

UNPS grant funds are being utilized to evaluate and plan stormwater runoff management practices in the Milwaukee River Basin TMDL MI-21 subwatershed. These practices will allow us to determine the source of pollutants affecting stream health, which will aid in development of corrective solutions to meet the MS4 permit and improve water quality through reduced sedimentation and increased infiltration and pollutant capture.

This grant supports the planning phases and advancement of stormwater BMP design to support the Village's MS4 permit and improve water quality in Cedar Creek.

1.2 Project Information

The Village of Jackson is looking to enhance the existing village-wide stormwater plan to improve the water quality and habitats of Cedar Creek. The Village of Jackson is currently evaluating suitable locations for the installation of stormwater best management practices (BMP) near the Hickory Lane bridge crossing of Cedar Creek. This project is part of a larger effort to develop a community-wide stormwater master plan for the Village. This study identifies suitable locations for the proposed BMPs through wetland delineation and soil infiltration testing, and appropriate control devices for efficient runoff and pollutant concentration reduction to Cedar Creek.

Section 2.0 describes further the project purpose and updates to the current stormwater master plan. Section 3.0 details the hydrologic and hydraulic parameters considered for BMP evaluation and design. Section 4.0 describes the BMP evaluation and conceptual design elements used during modeling. Section 5.0 describes the site data that was collected to further inform the BMP evaluation. Section 6.0 details the recommendations that have resulted from these investigations and analyses.

1.3 Site Description

The site is located in the Village of Jackson, Washington County, Wisconsin. The locations proposed for BMP sites are empty grassy areas on the East side of Hickory Lane, and both North and South of Cedar Creek.

A topographic map and project location map shown in Figure 1 in Appendix A depict the project location.

Section 2.0 Plan Update

The current Village-wide stormwater master plan addresses issues facing Cedar Creek such as erosion, sediment transport, and habitat loss. This plan update will build upon these resolutions in order to further improve the water quality of the creek. This project focuses on updating the current plan to include stormwater management where Hickory Lane drains into the Cedar Creek. Hickory Lane is planned for resurfacing, and storm water improvements have possible implications to Jackson's MS4 permit.

Various stormwater BMPs have been considered for this project including Detention ponds, Biofilters, mechanical BMPs, and grass swales.

Detention ponds are large dry or wet basins that are excavated have a pipe outlet to limit the discharge rate out of the pond. Detention basins capture and settle out pollutants and reduce runoff rates. However, a large area is needed for these basins, and the site's proximity to wetlands and low soil infiltration rates cause detention ponds to have little impact on runoff and pollutant reduction.

Biofilters or bioretention features are smaller control devices that utilize vegetation and high-permeability soils to allow water to drain more efficiently out of the area, while reducing pollutant concentrations. A drainage pipe is also typically added at the native soil layer to aid drainage with low native soil infiltration rates.

Vegetated swales are linear features that receive stormwater at one end and convey it over and through native vegetation to capture pollutants. Soil within the swale is often times amended with sand or compost mix to increase infiltration along the length of the swale.

Mechanical BMPs use hydraulics to settle and separate solids from water. They can also include filters to remove smaller pollutants.

Based on the site conditions, a combination of biofiltration and vegetated swales were evaluated further for BMP consideration.

Note: detention ponds are not considered feasible for this location due to area restrictions. The total surface area of the permanent pool would be too small to reduce pollutant loading by a meaningful amount. Additionally, the presence of high groundwater means that excavation for potential detention ponds will likely be in the groundwater table.

Note: a decision was made to eliminate mechanical BMPs as a possible solution for this site due to the presence of high groundwater and maintenance requirements.

Section 3.0 Hydrology and Hydraulics

3.1 Purpose

The purpose of this section is to describe the methodology used to perform hydrologic and hydraulic calculations which support the conceptual design of stormwater best management practices (BMPs) needed at the project site, as well as to describe the methodology used to perform a WinSLAMM analysis of the proposed BMPs to estimate proposed pollutant reduction from the treated project site.

3.2 Hydrology

3.2.1 Hydrologic Parameters

The portion of the Cedar Creek Watershed draining to the site is 53.6 square miles. Hydrologic Parameters including rainfall, flow paths, land use, and hydrologic soil parameters were evaluated in this section to better understand the hydrology of the watershed and the flows and discharges experienced by Cedar Creek at the area of interest for the proposed BMP conceptual designs. A rainfall-runoff hydrologic analysis was conducted with the Urban Hydrology for Small Watersheds TR-55 manual as guidance for calculations. The BMP analysis focuses on the immediate 8-acre surrounding area. Flow estimates are calculated from the entire watershed area draining to the point on the Creek at the proposed BMP site.

3.2.1.1 Rainfall

Rainfall quantities were taken from the National Oceanic and Atmospheric Administration (NOAA) Atlas 14. Intensity Duration Frequency (IDF) Rainfall curves and data tables from NOAA's Precipitation Frequency Data Server (PFDS) were used to analyze the rainfall patterns in the area. These are located in Appendix B.

Rainfall quantities were used for the 24-hour storm durations at recurrence intervals of 2-years, 10-years, and 100-years.

According to this data, rainfall for a 2-year, 24-hour storm in Jackson, Wisconsin is 2.66 inches, or an average of 0.11 inches per hour. A 10-year, 24-hour storm would produce 3.83 inches of rainfall, and a 100-year 24-hour storm would produce 6.42 inches.

The average yearly precipitation for the area is 33 inches.

3.2.1.2 Flowpaths

The National Hydrography Dataset from USGS was utilized to understand the flowpaths through the watershed. Cedar Creek extends approximately 15 miles upstream of the Hickory Lane bridge crossing, making up the HUC-12 Watershed 040400030302. Watershed 040400030301 also contributes to drainage at the Hickory Lane Bridge site. Combined, these watersheds make up the 53.6 acre area draining to the site. The extent of the Cedar Creek HUC-12 Watersheds along with flowpaths contributing to the watershed's drainage area is shown in Figure 2 in Appendix A.

3.2.1.3 Land Use and Soils

Curve numbers are an important aspect of the hydrologic analysis, as they aid in determining infiltration potential and runoff rates for an area. They are developed through soils information and land use. A soils shapefile from the USDA-NRCS Soil Survey Geographic Database (SSURGO) was overlaid with aerial imagery and a land use shapefile from the Southeastern Wisconsin Regional Planning Commission (SEWRPC) for a comprehensive look into curve numbers.

Curve numbers are a conglomeration of land cover type, hydrologic condition, percent imperviousness, and hydrologic soil group. They represent the soil and cover conditions of the area. The dominant land uses for the surrounding site area are single family residential, and much of the modeled area contains Hickory Lane Road, a two-lane 30-ft wide street.

Soils consist of about 70% silty, 15% sandy, and 15 %clayey soils based on the USDA soil survey.

Curve numbers were calculated in WinSLAMM and are described further in Section 3.3.2.2.

3.2.2 Flow Estimates

Discharges

Peak discharges at Cedar Creek were evaluated, based on StreamStats data shown in Appendix B.

These flows for the 2-year, 10-year and 100-year flood events are summarized in Table 3-1 below:

Storm Frequency	Peak-Flow Stream Discharge, cfs
2-year	347
10-year	660
100-year	1090

Table 3-1. Peak Flow Discharges

Runoff Depths

Runoff depths were calculated using the SCS Runoff Curve Number method. The runoff equation parameters include rainfall depths, potential maximum retention after runoff begins (determined by curve numbers), and initial abstraction in inches.

Using this equation, the following runoff depths were calculated for the 2, 10, and 100-year storm frequencies over a duration of 24 hours:

Storm Frequency	Runoff Depth, in	Cubic Feet of Runoff over 8-acre site
2-year	1.45	41,993
10-year	2.48	72,054
100-year	4.92	142,879

Table 3-2. Runoff Depths

3.3 Hydraulics

WinSLAMM v10.5 was used for the hydraulic analysis. “The Bureau of Watershed Management Program Guidance: Modeling Post-Construction Storm Water Management Treatment” was used in conjunction with state regulations NR 151.002 (6), Wis. Adm. Code to conduct modeling in accordance with state standards.

3.3.1 Model Parameters

3.3.1.1 Rainfall Data

WinSLAMM uses USGS rainfall files to conduct the runoff analysis. According to PV&Associates, this is how rainfall data is created:

“The rainfall files created by the USGS are a result of data analysis of historical rainfall records from 1949 to 2008 from the National Weather Service. The periods selected were based on long-term average conditions that represent the average annual rainfall and average five year rainfall. The average five year period may not include the average annual rainfall if an extreme rainfall year occurred before or after that year. Users should choose a comprehensive rainfall file for your area of interest.”

For this project, the WisReg-Milwaukee WI 1969 rain file was chosen for an accurate representation of rainfall averages and patterns in the area, as shown in the WinSLAMM inputs in Appendix C.

3.3.1.2 Land Use Data

The land use inputs used in the model are based on WinSLAMM’s designated standard land uses, along with the SEWRPC 2010 Land Use Inventory and aerial imagery. WinSLAMM uses detailed land use characteristics from previous and current stormwater research projects throughout the area of Wisconsin to develop their standard land use values. These values were used as a base in the model, along with USDA soil data to determine percentages of sandy, silty, or clayey soils in the land use areas. Aerial imagery was then used to refine the data to be more accurate and site-specific. The land use inputs used in the model can be found in Appendix C.

NR 151.001 defines connected imperviousness as “an impervious surface connected to the waters of the state via a separate storm sewer, an impervious flow path, or a minimally pervious flow path.” Connected impervious areas generally make up about 50% of pitched roofs, and 75% of driveways.

In the model, three land use areas were modeled. One Suburban Residential area north of Cedar Creek, one Suburban Residential area South of Cedar Creek, and one Light Industrial area South of Cedar Creek. Curve numbers were defined by WinSLAMM based on the land use inputs described above. WinSLAMM calculates the average curve numbers for each land use area in the model based on the aforementioned land use inputs. The curve numbers for each land use area are below:

- Suburban Residential (South): 88.6
- Suburban Residential (North): 87.2
- Light Industrial: 82.4

3.3.2 Control Practices

3.3.2.1 Bioretention Basin

Wisconsin DNR Technical Standard #1004 was used for the model development of the Bioretention control practice. A bioretention device is an infiltration device where part of the existing ground is excavated out and filled with an engineered soil media, covered with a mulch layer and planted with a variety of vegetation. An underdrain and rock storage layer is also typically included to aid in infiltration and outflow.

The following parameters were taken into consideration during the modeling of the biofilter, per Technical Standard 1004:

- Area draining to bioretention device should not exceed 2 acres
- Bottom width between 2 and 8 ft
- Ponding depth shall not exceed 12 in.
- Underdrain pipe shall discharge to an existing drainage system such as swale
- Pipe should be placed at top of gravel or sand storage layer
- Design thickness of storage layer shall be that which results in a total device drain time of 72 hours, but shall not exceed 48 inches
- Engineered soil composition shall consist of mixture of 70-80% sand and 15-30% compost
- DNR requires an engineered soil infiltration rate of up to 3.6 inches per hour and an engineered soil porosity of 0.27
- DNR recommends a rock or sand storage area porosity of 0.33

Because the infiltration rate of the soil is so low, the focus is put more on the filtering aspect of the biofilter.

3.3.2.2 Vegetated Swale

Wisconsin DNR Technical Standard #1005 was used for the model development of vegetated swales. Two vegetated swales are included in the model, one North of Cedar Creek, and one South, in alignment with the soil test pits (see Section 5.0)

The following parameters were taken into consideration during the modeling of the swales, per Technical Standard 1005:

- Side slopes no steeper than 3:1 (H:V)
- Bottom width of trapezoidal cross section no more than 8 ft (to minimize channelization).
- Longitudinal slopes between 0.5 and 4%
- A retardance factor of C or D is typical for vegetated swales

An infiltration rate of 0.02 in/hr was used for both the biofiltration and vegetated swale control devices. This was based on the soil textures found during infiltration testing, along with Tech Standard 1002, Table 2. The static infiltration rate taken from this table was then halved, in accordance with Standard 1002, to obtain a dynamic infiltration rate for analysis. This is explained further in Sections 5.3.3 and 5.3.4 for infiltration testing determinations.

3.3.2.3 Others

“Other Devices” are used in the model to take into account existing detention ponds in the area that contribute to runoff and pollutant reduction of drainage to the site. 8 acres were modeled to get a better image of land use in the surrounding area, but a maximum drainage area of 2 acres for biofilters and about 0.5 acres for each of the swales, is recommended. Past modeling that was done on Jackson’s existing detention ponds was used to estimate pollutant load and water volume reductions for these devices.

For this reason, the “Other Device” upstream of the Biofilter and Grass Swale #2 is modeled to serve 50% of the 4-acre drainage area and reduce 70% of the pollutant load and water volume, based on previous model results. The “Other Device #2” covers 80% of the 4-acre drainage area to the south and is modeled to reduce 80% of the pollutant load and volume reduction draining to Grass Swale #3.

3.3.3 Results

Two WinSLAMM analyses were used to simulate different rainfall patterns. The first run is over a year-long period and uses a rainfall file created by WinSLAMM to simulate a typical year of rainfall in the Milwaukee region (this is explained further in 3.3.1.1).

The second run is over a 24-hour period and uses a manually created rainfall file that simulates the 2-year, 24-hour storm with a total of 2.66 inches of rainfall over the 24 hour period.

Results of both of these runs are located in Appendix D. A summary of results for the entire site as a whole (including reductions from current BMPs in the area) is shown in Table 3-3 below:

Rainfall Simulation	At Model Outfall (Inflow to Cedar Creek)	No Controls	With Controls	Percent Reduction
2-Year, 24-Hour Storm Rainfall	Runoff Volume (cf)	41,984	9,507	77%
	Total Solids Concentration (mg/L)	491	178	92%
	Total Phosphorus Concentration (mg/L)	1.09	0.15	97%
Average Yearly Rainfall	Runoff Volume (cf)	374,437	81,712	78%
	Total Solids Concentration (mg/L)	271	96	92%
	Total Phosphorus Concentration (mg/L)	0.56	0.10	96%

Table 3-3. Runoff and Pollutant Reduction at Outfall

A summary of results for control device performance is shown in Table 3-4 below:

Rainfall Simulation	Control Device	Inflow Volume	Outflow Volume	Percent Reduction	Influent Pollutant Load (lbs)	Effluent Pollutant Load (lbs)	Percent Reduction
2-Year, 24-Hour Storm Rainfall	BioFilter	13,763	2,088	85%	233	35	85%
	Grass Swale (North)	2,088	2,072	0.8%	35	29	17%
	Grass Swale (South)	7,492	7,435	0.8%	64	53	17%
Average Yearly Rainfall	BioFilter	124,824	17,400	86%	894	85	90%
	Grass Swale (North)	17,400	17,252	0.9%	85	71	16%
	Grass Swale (South)	65,664	64,458	1.8%	287	235	18%

Table 3-4. Control Device Performance

The biofilter achieved 85% reduction of runoff flow during an average year of rainfall, while the swales achieved about 1% flow reduction each, resulting in about 100 cubic feet of runoff reduction a year for the north swale, and 1000 cubic feet of reduction for the south swale throughout the year.

The biofilter also achieved around 85-90% reduction in pollutant load, while the swales achieved about 16-18% reduction.

Section 4.0 BMP Evaluation

A representative image of the biofiltration device included in the WinSLAMM model is shown in the WinSLAMM Inputs section of Appendix C.

The modeled Biofiltration device has the following characteristics:

- 600 square feet footprint
- 4 ft depth (may change with seasonal groundwater depths)
- 0.5 ft Rock fill depth
- 1.25 ft Engineered media depth
 - Mix of 70% well graded sand and 30% compost
 - 3.6 in/hr infiltration rate
- Broad Crested Weir
 - 15 ft length, 3 ft width, 0.5 ft depth
- 2" diameter surface discharge pipe
- 5" diameter Underdrain

Section 5.0 Field Data, Wetland Delineation, and Infiltration Testing

The following section outlines the methodology used to conduct the wetland delineation and infiltration testing for the site. A desktop evaluation of existing public resources and field investigation was conducted, and field investigations/tests were conducted for the wetland delineation and infiltration testing separately to verify and supplement the desktop evaluations of the site. The full Wetland Delineation Report is located in Appendix F.

5.1 Site Location and Survey Limits

Location Information:

Jackson, WI Quadrangle

Section 20, Township 10E, Range 20E

Village of Jackson, Washington County, Wisconsin

Latitude: 43.316079° Longitude: -88.150485°

The survey limits are located within Cedar Run Park (Tax Parcel ID: V3-0198 and V3-0204) and an undeveloped portion of a private property parcel (Tax Parcel ID: V3-CONDO0744752) that is located south of the park. Cedar Run Park is a primarily forested riparian area owned and managed by the Village. Cedar Creek bisects the park within the survey limits. Park amenities in this area include walking trails, picnic tables, and open greenspace. The portion of the private parcel included in the survey limits is undeveloped and includes surrounding forested areas.

5.2 Desktop Investigation

5.2.1 Topography

Countywide 1-foot contours were reviewed as part of this investigation. The developed residential areas to the north and south of the survey areas is generally in lower elevation than its surroundings. On the north side of Cedar Creek, the topography is relatively flat and gradually slopes down towards the creek. On the south side of Cedar Creek, the downward slope towards the creek is more apparent, particularly east of Hickory Lane. Contours are depicted on Figure 3 of Appendix F.

5.2.2 Antecedent Precipitation

Historic climatic data was retrieved from the Jackson, WI weather station (Station ID: 473930) and a WETS table was developed via the AgACIS that lists 2002 to 2023 monthly precipitation data to define the normal range. Conditions were retrieved for each of the three prior months from the date of the field investigation on April 26, 2023.

Table 5-1: Antecedent Precipitation Evaluation

Long-term Precipitation Statistics from WETS Table						
Month (Monthly Weighted Value)	Average Monthly Precipitation (in.)	30% Chance Precipitation Less Than (in.)	30% Chance Precipitation More Than (in.)	Observed Monthly Precipitation (in.)	Wetness Condition (Value)	Product of Value and Monthly Weighted Value
February (1)	1.75	1.08	2.12	3.16	Wet (3)	3
March (2)	2.23	1.32	2.71	2.67	Normal (2)	4
April (3)	3.54	2.41	4.23	3.96	Normal (2)	6
Total Value:						13
Overall Condition:						Normal

The results of the antecedent precipitation evaluation indicate that normal conditions were present and hydrological/climatic conditions were typical at the time of the site visit.

5.2.3 Soil Survey

The USDA-NRCS Soil Survey Geographic Database (SSURGO) was queried to identify mapped soils within the survey limits (USDA-NRCS 2021a). Mapped soils were referenced to the hydric soils list for Washington County to evaluate their potential for supporting wetlands (USDA-NRCS 2021b).

Five soil map units compose the entirety of the survey limits. As shown in Table 5-2, these include Colwood silt loam, 0 to 2 percent slopes (Cw), Hochheim loam, 2 to 6 percent slopes (HmC2), Montgomery silty clay loam (Mzb), and wet alluvial land (Ww), and water (W). Detailed soil survey maps are included in the Wetland Report in Appendix F.

Table 5-2: Mapped Soils within the Survey Limits

Soil Map Unit	Slope	Hydric Rating	Hydric/Non-Hydric	Acres within Survey Limits
Colwood silt loam (Cw)	0 to 2 percent slopes	100	Hydric	8.1
Hochheim loam (HmC2)	2 to 6 percent slopes	0	Non-Hydric	0.4
Montgomery silty clay loam (Mzb)	-	95	Hydric	0.1
Wet alluvial land (Ww)	-	100	Hydric	0.7
Water (W)	-	0	Non-Hydric	1.9

5.2.4 Federal Emergency Management Agency Floodplains

FEMA's NFHL was reviewed to identify floodways and special flood hazard areas (SFHA) within the survey limits and are shown in Figure 5 of Appendix F. The NFHL depicts SFHAs and floodways located throughout the United States and can aid in the identification of areas where potential wetlands occur. The following is depicted within the survey limits:

- Zone AE regulatory floodway
- Zone AE SFHA (1% annual chance flood hazard, without base flood elevation)
- Zone X (Areas of minimal flood hazard)

The Zone AE regulatory floodway and SHFA are associated with Cedar Creek within the survey limits.

5.2.5 National Wetlands Inventory

The United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) maps were reviewed to identify potential wetlands within the survey limits and are shown in Figure 6 of Appendix F. Table 5-3 summarizes the NWI wetlands within the survey limits.

Table 5-3: National Wetlands Inventory Wetlands within the Survey Limits

Type	Quantity within Survey Limits	Cowardin Code	Cowardin Description
Riverine	1	R5UBH	Riverine (R), Unknown Perennial (5), Unconsolidated Bottom (UB), Permanently Flooded (H)
Freshwater forested/shrub wetland	2	PF01C	Palustrine (P), Forested (FO), Broad-Leaved Deciduous (1), Seasonally Flooded (C)
Freshwater forested/shrub wetland	1	PF01/EM1C	Palustrine (P), Forested (FO), Broad-Leaved Deciduous (1), Emergent (EM), Persistent (1), Seasonally Flooded (C)

5.2.6 Wisconsin Wetland Inventory

The WDNR's WWI were reviewed to identify potential wetlands within the survey limits and are shown in Figure 7 of the Wetland Report in Appendix F. The WWI maps were developed to identify the type, size, and location of wetlands throughout Wisconsin. Table 5-4 summarizes the WWI wetlands within the survey limits.

Table 5-4: Wisconsin Wetland Inventory Wetlands within the Survey Limits

Wetland Code	Quantity within Survey Limits	Wetland Class Description	Wetland Sub Class Description
T3K	2	Forested	Broad-leaved deciduous
T3/E2K	1	Forested and Emergent/Wet Meadow	Broad-leaved deciduous, narrow-leaved persistent

5.2.7 Watershed Boundary Dataset and National Hydrography Dataset

The survey limits are located within the Jackson Marsh State Wildlife Area-Cedar Creek watershed (12-Digit Hydrologic Unit Code [HUC]: 040400030303), which is a subwatershed to the Milwaukee Basin (8-Digit HUC Code: 04040003).

The USGS NHD maps were reviewed and are shown in Figure 8 of the Wetland Report. Two streams/rivers are located within the survey limits, and they include the perennial Cedar Creek and an intermittent unnamed tributary to Cedar Creek. The unnamed tributary flows into Cedar Creek approximately 100 feet west of the Hickory Lane bridge crossing over Cedar Creek.

5.3 Wetland Delineation Field Investigation

On April 26, 2023, a wetland delineation was performed within the survey limits as depicted in Figure 9 of the Wetland Report in Appendix F. The sampling points taken are also depicted on

this figure. A total of four wetlands (Sites 1, 2, 3, and 4), two surface waters (Sites SW-1 and SW-2), and two roadway drainages features (DF-1 and DF-2) were identified within the survey limits. In addition, two areas (Sites 5 and 6) were investigated as potential wetlands but did not meet all three wetland indicators.

5.3.1 Wetlands

Site 1

Site 1 is a 0.18 acre forested wetland located approximately 50 feet north of Cedar Creek and west of Hickory Lane. The site is within a depressional area and surface water was observed in multiple locations. This site receives surface water from an existing open water pond to the northwest via a small channel that connects the two features outside of the survey limits. Two sampling points were taken within the wetland location and all three wetland criteria were identified, along with the following wetland indicators noted below:

- Wetland Hydrology
 - Primary Indicators: High Water Table (A2) and Saturation (A3)
 - Secondary Indicators: Geomorphic Position (D2) and FAC-Neutral Test (D5)
- Hydrophytic Vegetation Indicators: Dominance Test
- Hydric Soil Indicators: Depleted Dark Surface (F7)

Saturation was observed at the soil surface and a water table was noted at 2 inches below the surface at the wetland sampling location. Dominant vegetation observed throughout Site 1 included: box elder (*Acer negundo*), green ash (*Fraxinus pennsylvanica*), reed canary grass (*Phalaris arundinacea*), and wild gooseberry (*Ribes missouriense*).

Site 2

Site 2 is a 0.4 acre forested wetland located approximately 150 feet north of Cedar Creek and immediately west of Hickory Lane. It is a mostly flat area that slopes slightly to the south, with surface water present in multiple locations. Two sampling points were taken within the wetland location and all three wetland criteria were identified, along with the following wetland indicators noted below:

- Wetland Hydrology
 - Primary Indicators: Surface water (A1)
 - Secondary Indicators: Saturation Visible on Aerial Imagery (C9), Geomorphic Position (D2), and FAC-Neutral Test (D5)
- Hydrophytic Vegetation Indicators: Dominance Test
- Hydric Soil Indicators: 2 cm Muck (A10)

Approximately 2 inches of surface water was observed at the wetland sampling location. Dominant vegetation observed throughout Site 2 included: box elder, green ash, reed canary grass, orange jewelweed (*Impatiens capensis*), fowl manna grass (*Glyceria striata*), cursed crowfoot (*Ranunculus sceleratus*), and wild gooseberry.

Site 3

Site 3 is a 0.60 acre forested wetland located south of Cedar Creek and east of Hickory Lane. The site is a depressional area between Cedar Creek and a hillslope to the south, with surface water observed in multiple locations. Two sampling points were taken and all three wetland criteria were identified, along with the following wetland indicators noted below:

- Wetland Hydrology
 - Primary Indicators: Surface water (A1) and Inundation on Aerial Imagery (B7)
 - Secondary Indicators: Geomorphic Position (D2) and FAC-Neutral Test (D5)
- Hydrophytic Vegetation Indicators: Dominance Test
- Hydric Soil Indicators: 2 cm Muck (A10)

Approximately 1 inch of surface water was observed at the wetland sampling location. Dominant vegetation observed throughout Site 3 included: box elder, green ash, reed canary grass, orange jewelweed, cursed crowfoot, and wild gooseberry.

Site 4

Site 4 is 0.24 acre wet meadow and forested wetland located north of Cedar Creek and east of Hickory Lane. The site is a slightly depressional area that is mostly flat with surface water observed in multiple locations. Three sampling points were taken and all three wetland criteria were identified, along with the following wetland indicators noted below:

- Wetland Hydrology
 - Primary Indicators: High Water Table (A2) and Saturation (A3)
 - Secondary Indicators: Geomorphic Position (D2) and FAC-Neutral Test (D5)
- Hydrophytic Vegetation Indicators: Dominance Test and Rapid Test for Hydrophytic Vegetation
- Hydric Soil Indicators: Redox Dark Surface (F6)

Saturation was observed at the soil surface and a water table was noted at 4 inches below the surface at SP 4-1 and 10 inches below the surface at SP 4-2 and 4-3. Dominant vegetation observed throughout Site 4 included: box elder, reed canary grass, stinging nettle (*Urtica dioica*), and red osier dogwood (*Cornus sericea*).

5.3.2 Surface Waters

Site SW-1: Cedar Creek

Site SW-1 is Cedar Creek, which crosses through the center of the survey limits. This is a perennial stream that flows east and is approximately 40 to 60 feet wide, with a total of 0.73 acre of surface water located within the survey limits. The following ordinary high water mark (OHWM) indicators were identified to determine the boundary of the site: shelving, destruction of terrestrial vegetation, sediment sorting, natural line impressed on the bank, and bed and banks. Surface water was observed to be greater than 48 inches. Large banks were observed that were well vegetated and extended approximately 3 to 8 feet above the existing water level. Substrate within Site SW-1 primarily consisted of sand and silt with gravel, cobble and boulders present. Dominant vegetation on the banks primarily consisted of box elder, green ash, common buckthorn (*Rhamnus cathartica*), and reed canary grass.

Site SW-2: Tributary to Cedar Creek

Site SW-2 is an unnamed tributary that flows north into Cedar Creek within the survey limits located west of Hickory Lane. The stream appears to be an intermittent stream that is approximately 10 to 15 feet wide, with a total of 0.14 acre of surface water located within the survey limits. The following OHWM characteristics were identified to determine the boundary of the site: shelving, destruction of terrestrial vegetation, deposition, presence of litter and debris, sediment sorting, natural line impressed on the bank, and bed and banks. Surface water was observed between 2 and 18 inches. Large banks were observed that were well vegetated and extended approximately 2 to 8 feet above the existing water level. Substrate within Site SW-2 primarily consisted of sand, silt, gravel, and cobble. Dominant vegetation on the banks primarily consisted of box elder, green ash, common buckthorn (*Rhamnus cathartica*), and reed canary grass.

5.3.3 Other Features

Site 5

Site 5 is a forested upland area located north of Cedar Creek, east of Hickory Lane. A sampling point was taken because the area was dominated by scouring rush (*equisetum hymele*). The topography in this area slopes downward to the south towards Cedar Creek. Site 5 did not meet the wetland hydrology or hydric soil criteria and is not considered a wetland. Dominant vegetation observed throughout the site included: box elder, green ash, and scouring rush.

Site 6

Site 6 is an upland meadow located immediately north of Cedar Creek, west of Hickory Lane. A sampling point was taken because the area was dominated by reed canary grass. The topography is mostly flat. Site 6 did not meet wetland hydrology or hydric soil criteria and is not considered a wetland. Dominant vegetation observed throughout the site included: box elder and reed canary grass.

Drainage Feature 1 (DF-1)

Site DF-1 is a manmade roadway drainage feature located west of Hickory Lane and north of Cedar Creek. The drainage feature receives stormwater from Hickory Lane and conveys it to the south into Cedar Creek. Portions of the site are conveyed underground via culverts and stormwater piping. Site DF-1 is approximately 5 to 10 feet wide, and 0 to 6 inches of surface water was observed throughout the site. The substrate consists of silt, sand, and gravel. Dominant vegetation present included: reed canary grass and box elder.

Drainage Feature 2 (DF-2)

Site DF-2 is a manmade roadway drainage feature located east of Hickory Lane and north of Cedar Creek. The drainage feature receives stormwater from Hickory Lane and conveys it to the south into Cedar Creek. Portions of the site are conveyed underground via culverts and stormwater piping. Site DF-2 is approximately 5 to 10 feet wide and up to 6 inches of surface water was observed throughout the site. The substrate consists of silt, sand, gravel, and pebbles. Dominant vegetation present included: reed canary grass, red osier dogwood, and box elder.

5.4 Infiltration Testing Field Investigation

Infiltration testing was conducted to determine and verify the soil composition within the Wisconsin Technical Standard #1002, *Site Evaluation for Stormwater Infiltration*, was followed for this project's infiltration testing methods and requirements.

5.4.1 Preliminary Field Verification

The purpose of the preliminary field verification is to field-verify information from the desktop investigation for all potential areas of the development site considered suitable for infiltration.

It was determined that two soil borings will be required to determine the depth to groundwater and bedrock, as well as to verify soil texture and determine infiltration rates. The soil survey from section 2.1.3 is used as a guide, but soil borings are ultimately what is used to determine infiltration rates. Test sites were chosen and deemed feasible for testing in this step.

5.4.2 Field Evaluation of Specific Infiltration Areas

The field evaluation conducted for specific infiltration areas was conducted by a Licensed Professional Soil Scientist or Licensed Professional Geologist as licensed by the DSPS. The purpose of this evaluation is to determine if locations identified for infiltration devices are suitable for infiltration and to provide the required information to design the device.

Technical Standard 1002 outlines requirements for soil borings. Test pit requirements were followed for Bioretention systems and vegetated swales. Two test pits were evaluated for soil infiltration, one just North of Cedar Creek, and one South, as shown in Appendix E. The test pits were excavated as far as possible to a limiting layer of groundwater.

5.4.3 Results

The results of the infiltration testing are summarized in Table 5-5 below. Raw data is included in Appendix E. Testing sites B-1 and B-2 are depicted in Figure 3.

Site	Depth	Texture (abbrev)	Texture	Hydraulic Application Rate (in/hr)
B-1	0-36	sil	Silt Loam	0.8
		sicl	Silty Loam	0.3
		sl	Sandy Loam	0.7
	36-46	sil	Silt Loam	0.8
	56-96	sicl	Silty Clay Loam	0.2
		vfsi	Very fine Sandy Loam	0.6
B-2	0-60	sil	Silt Loam	0.8
		sicl	Silty Clay Loam	0.3
		ls & gr	Loamy Sand and Gravel (Loamy Coarse Sand)	1.6
	60-66	sil	Silt Loam	0.8
	66-96	ls & gr	Loamy Sand and Gravel (Loamy Coarse Sand)	1.6
		sicl	Silty Clay Loam	0.3

Table 5-5. Soil Infiltration Testing Results

Groundwater was observed at 56 inches below the surface at test pit B-1, and at 66 inches at B-2. The depth of groundwater is a limiting factor for BMP sizing, and will change throughout the year, depending on seasonal changes such as variations in rainfall and temperature.

5.4.4 Infiltration Rate Determination

According to Technical Standard 1002, there are the following three options for determining infiltration rates:

1. Soil texture informs the design static infiltration rate in Table 2, assumes that soil compaction will be mitigated.
2. Infiltration rate measured with Double-Ring Infiltrometer
3. Soil compaction is not mitigated, soil texture informs the correction factor from Table 4.

For this analysis, Option 1 was chosen as the method for determining the static infiltration rate. Table 2 from Tech Standard 1002 is shown in Appendix E. Soil textures found during the test pit investigation were matched to the corresponding infiltration rates from this table.

Table 5-6 below shows the results of this infiltration rate determination method. Following guidance from standard 1002, an infiltration rate of 0.02 inches per hour was ultimately used for hydraulic analysis and BMP evaluation.

Site	Depth	Soil Texture	Static Infiltration Rate, in/hr	Dynamic Infiltration Rate, in/hr
B-1	0-36	Silt Loam	0.13	0.065
		Silty Loam	0.04	0.02
		Sandy Loam	0.5	0.25
	36-46	Silt Loam	0.13	0.065
	56-96	Silty Clay Loam	0.04	0.02
		Very fine Sandy Loam	0.5	0.25
B-2	0-60	Silt Loam	0.13	0.065
		Silty Clay Loam	0.04	0.02
		Loamy Sand and Gravel (Loamy Coarse Sand)	3.6	1.8
	60-66	Silt Loam	0.13	0.065
	66-96	Loamy Sand and Gravel (Loamy Coarse Sand)	3.6	1.8
		Silty Clay Loam	0.04	0.02

Table 5-6. Infiltration Rate Determination

Section 6.0 Recommendations

Biofilter Control Device Installation

It is recommended that a biofiltration control device be installed in the site just North of Cedar Creek on the East side of Hickory Lane, as shown in Figures 4-7.

The biofilter needs to be designed, following Technical Standard #1005. For planning purposes, the biofilter is modeled with an engineered media of 70% of a well-graded sand and 30% compost for an infiltration rate of 3.6 in/hr. Many combinations of engineered media would be suitable, but this combination is recommended to achieve the highest infiltration rate possible, especially since the native soil infiltration rate is very low.

Vegetated Swale Installation

Vegetated swales are recommended at the north and south sides of Cedar Creek. Although these should not be the main control device because of their lower reduction potential, they are recommended to supplement the biofiltration device upstream.

Soil and Groundwater Testing

It is also recommended that seasonal groundwater evaluations be performed. The depth of the biofilter device is limited by the groundwater elevation, and this elevation also changes infiltration rates, so it is recommended that tests are done throughout the year to gain a clearer understanding of where this groundwater elevation is at during different times of the year.

Hickory Lane Regrading

Flow will also need to be redirected to through Hickory Lane into the Biofilter. As Hickory Lane gets re-graded in the future, it is recommended that it be slightly graded toward the biofilter site so that drainage can flow through the control device and runoff and pollution can be reduced before it enters Cedar Creek.

Section 7.0 References

WinSLAMM (Source Loading And Management Model): An urban area nonpoint source water-quality model for Wisconsin | U.S. Geological Survey ([usgs.gov](https://www.usgs.gov))

Wisconsin Administrative Code NR 151.12 (000001.ildoc) ([wisconsin.gov](https://www.wisconsin.gov)) "Post-construction performance standard for new development and redevelopment."

Technical Standard 1002 Site Evaluation for Stormwater Infiltration

Technical Standard 1004 Bioretention for Infiltration

Technical Standard 1005 Vegetated Swale

TR-55 Urban Hydrology for Small Watersheds

WinSLAMM Model Algorithms v11.docx, PV&Associates

Wisconsin Department of Natural Resources Bureau of Watershed Management Program Guidance, Modeling Post-Construction Storm Water Management Treatment

Appendix A

Figures

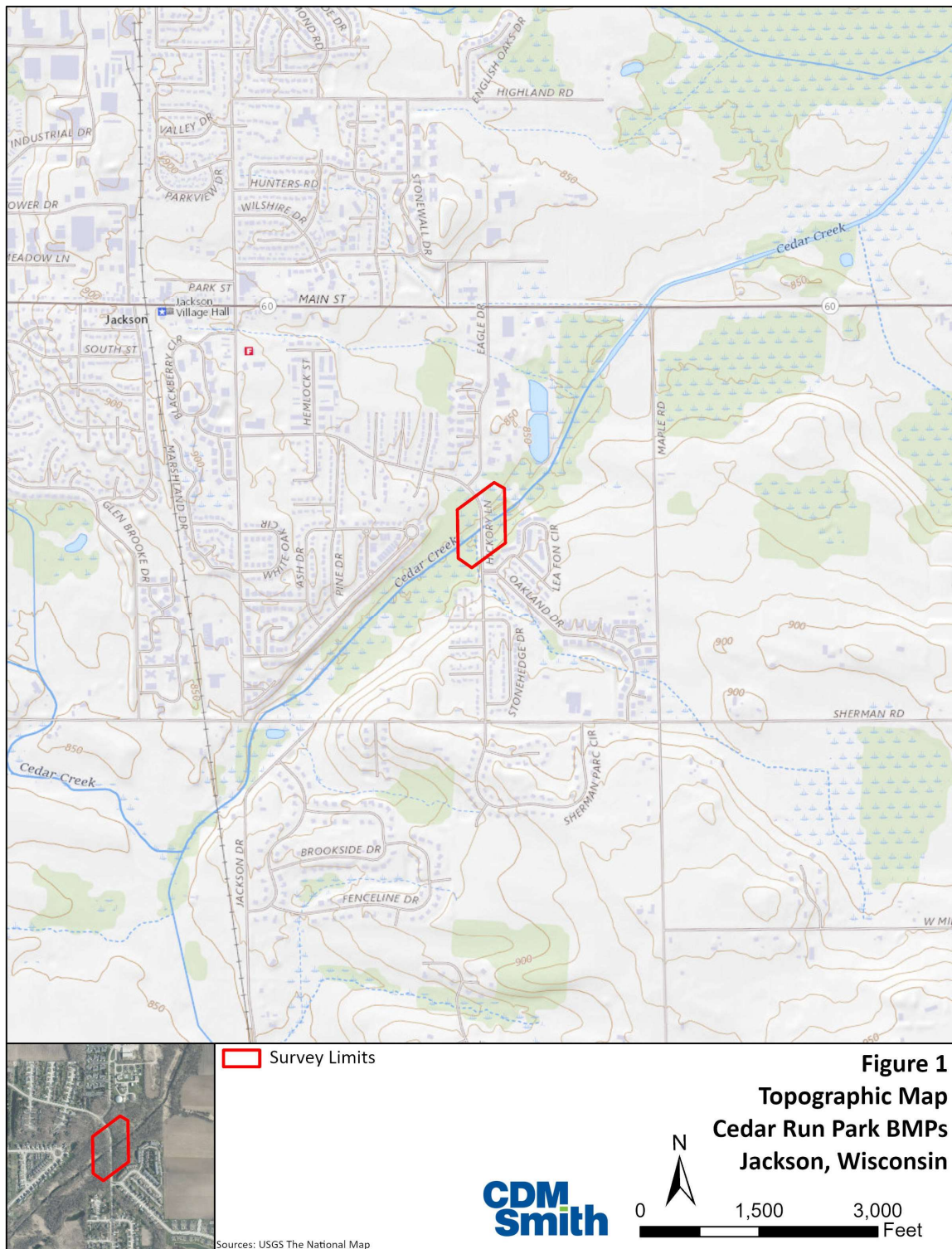


Figure 1: Project Location Topographic Map

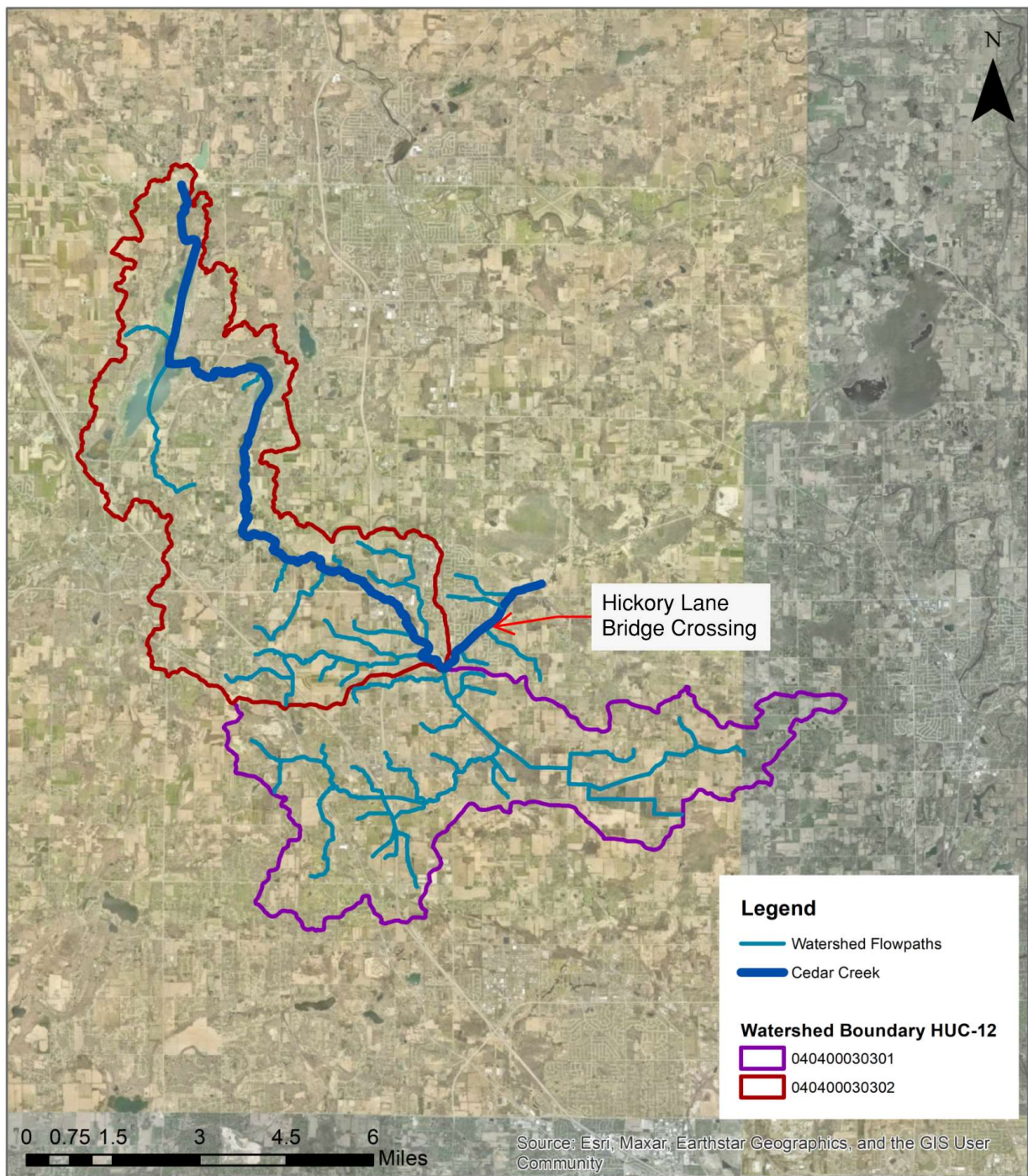


Figure 2. Watershed Boundaries and Flowpaths

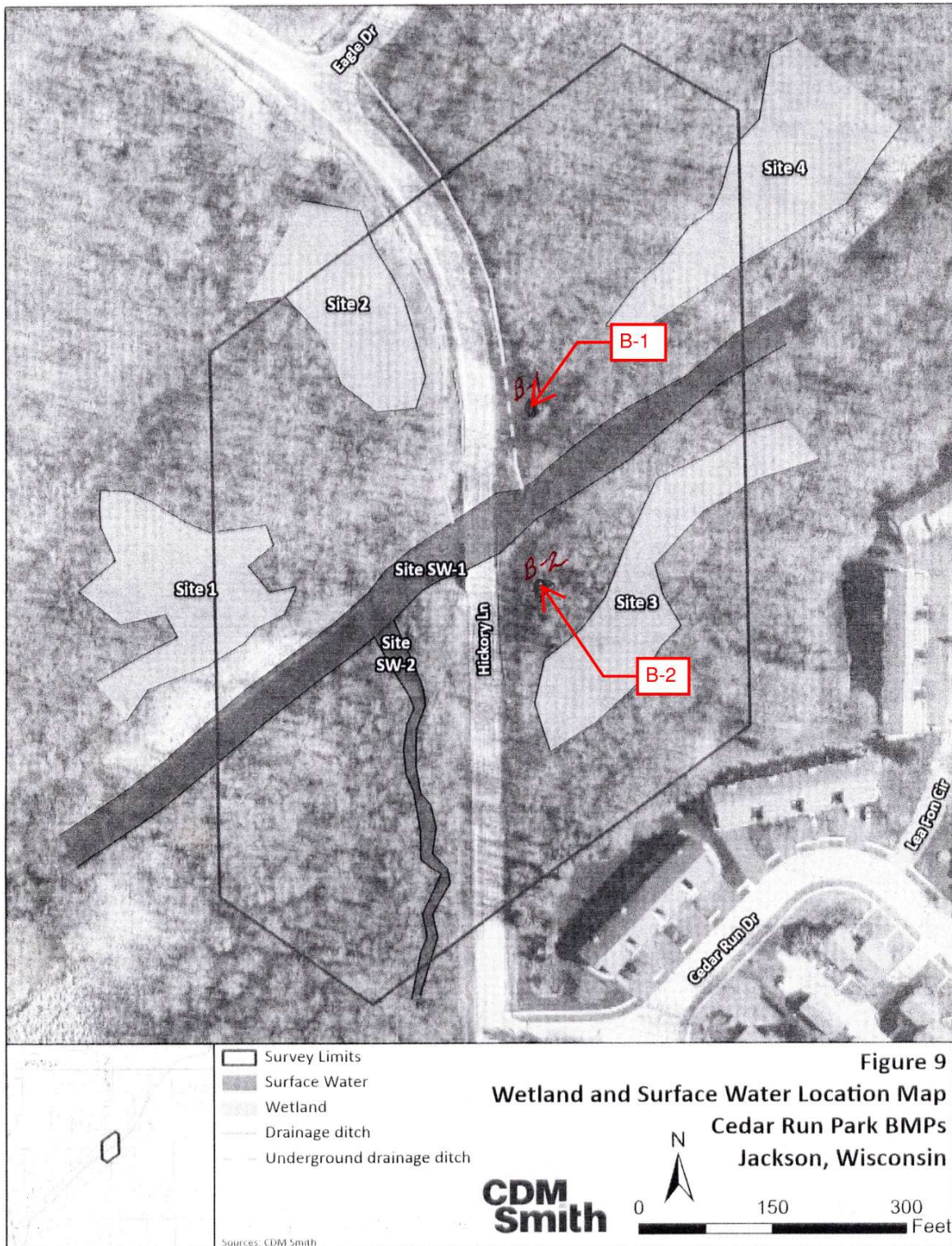


Figure 3. Infiltration Testing Pits



Figure 4. Proposed Biofilter Location Aerial Map



Figure 5. Proposed BMP Site Location, Street View



Figure 6. Proposed Site Location Facing East



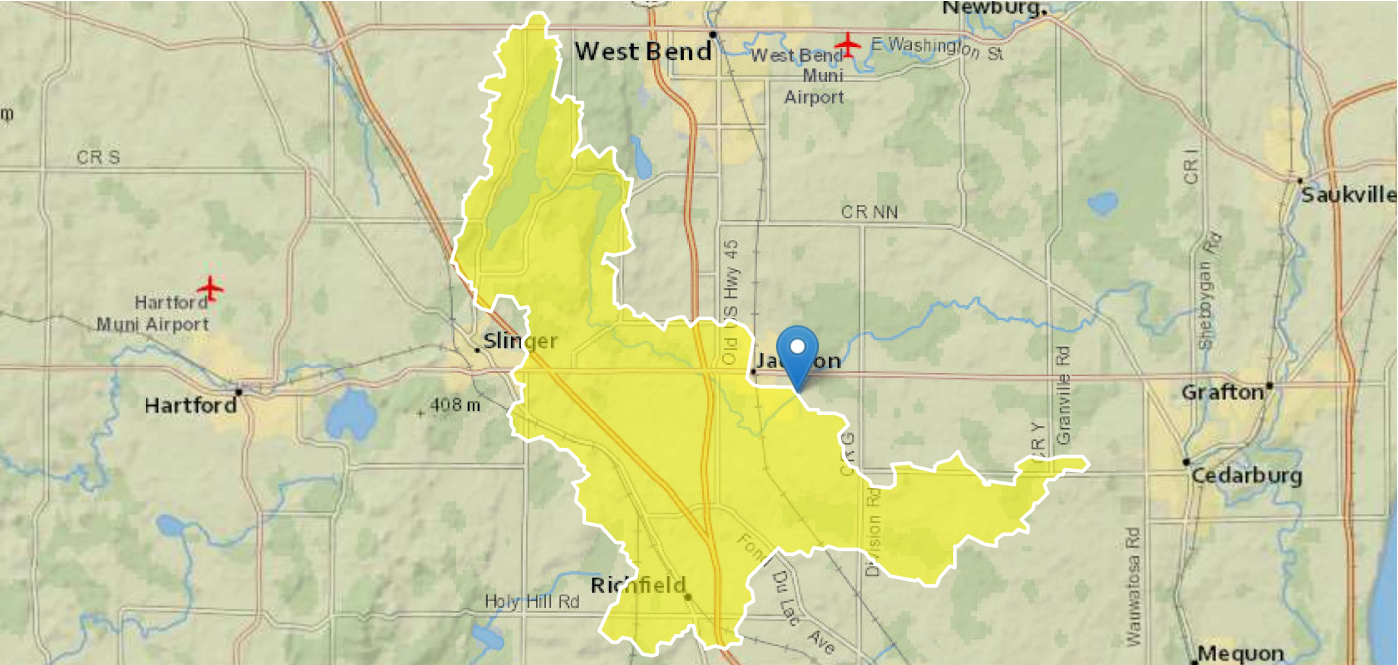
Figure 7. Proposed Site Location Facing South

Appendix B

Streamstats and NOAA Rainfall Data

StreamStats Report

Region ID: WI
Workspace ID: WI20230607172849412000
Clicked Point (Latitude, Longitude): 43.31751, -88.14850
Time: 2023-06-07 12:29:13 -0500



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	53.6	square miles
LC01WATER	Percentage of open water, class 11, from NLCD 2001	4.14	percent
WETLAND	Percentage of Wetlands	7.75	percent

Peak-Flow Statistics

Peak-Flow Statistics Parameters [Wisconsin Peakflow Region 3 2022 5118]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	53.6	square miles	1.01	5994.64
LC01WATER	LC01WATER	4.14	percent	0	9.75
WETLAND	Percent Wetlands	7.75	percent	0	29.57

Peak-Flow Statistics Flow Report [Wisconsin Peakflow Region 3 2022 5118]

PIl: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIl	PIu	ASEp
50-percent AEP flood	347	ft ³ /s	170	708	44.6
20-percent AEP flood	531	ft ³ /s	255	1110	46
10-percent AEP flood	660	ft ³ /s	307	1420	48.2
4-percent AEP flood	828	ft ³ /s	367	1870	51.6
2-percent AEP flood	958	ft ³ /s	408	2250	54.5
1-percent AEP flood	1090	ft ³ /s	446	2660	57.4
0.5-percent AEP flood	1220	ft ³ /s	480	3100	60.3
0.2-percent AEP flood	1410	ft ³ /s	522	3810	65

Peak-Flow Statistics Citations

Levin, Sara B., Sanocki, Chris A. 2022, Estimating Flood Magnitude and Frequency for Unregulated Streams in Wisconsin: U.S. Geological Survey Scientific Investigations Report 2022-5118, 25p. (<https://doi.org/10.3133/sir20225118>)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.15.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffrey Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aerals](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.335 (0.266-0.414)	0.405 (0.321-0.501)	0.517 (0.408-0.639)	0.606 (0.476-0.751)	0.724 (0.548-0.909)	0.811 (0.602-1.03)	0.894 (0.644-1.15)	0.975 (0.676-1.28)	1.08 (0.721-1.44)	1.15 (0.756-1.56)
10-min	0.491 (0.389-0.606)	0.594 (0.471-0.733)	0.757 (0.598-0.936)	0.887 (0.697-1.10)	1.06 (0.802-1.33)	1.19 (0.882-1.51)	1.31 (0.943-1.69)	1.43 (0.991-1.87)	1.58 (1.06-2.10)	1.68 (1.11-2.28)
15-min	0.599 (0.475-0.739)	0.724 (0.574-0.894)	0.923 (0.729-1.14)	1.08 (0.851-1.34)	1.29 (0.978-1.62)	1.45 (1.08-1.84)	1.60 (1.15-2.06)	1.74 (1.21-2.28)	1.92 (1.29-2.57)	2.06 (1.35-2.78)
30-min	0.809 (0.642-0.999)	0.986 (0.781-1.22)	1.26 (0.999-1.56)	1.49 (1.17-1.84)	1.78 (1.35-2.24)	2.00 (1.49-2.54)	2.21 (1.59-2.85)	2.41 (1.67-3.16)	2.67 (1.79-3.56)	2.85 (1.87-3.86)
60-min	1.04 (0.825-1.28)	1.26 (0.997-1.55)	1.62 (1.28-2.00)	1.92 (1.51-2.38)	2.33 (1.78-2.95)	2.66 (1.98-3.39)	2.98 (2.16-3.86)	3.32 (2.31-4.37)	3.76 (2.53-5.04)	4.10 (2.69-5.55)
2-hr	1.27 (1.02-1.55)	1.53 (1.23-1.87)	1.97 (1.57-2.41)	2.34 (1.86-2.88)	2.88 (2.23-3.64)	3.31 (2.50-4.21)	3.76 (2.75-4.84)	4.22 (2.97-5.53)	4.85 (3.30-6.48)	5.35 (3.54-7.19)
3-hr	1.43 (1.16-1.74)	1.70 (1.37-2.07)	2.18 (1.75-2.65)	2.60 (2.08-3.18)	3.23 (2.53-4.08)	3.75 (2.86-4.76)	4.30 (3.18-5.55)	4.89 (3.48-6.41)	5.72 (3.92-7.63)	6.38 (4.25-8.55)
6-hr	1.73 (1.41-2.08)	2.01 (1.64-2.42)	2.52 (2.05-3.04)	3.00 (2.43-3.64)	3.76 (2.99-4.74)	4.41 (3.41-5.58)	5.11 (3.83-6.57)	5.89 (4.24-7.70)	7.01 (4.86-9.32)	7.92 (5.33-10.5)
12-hr	2.05 (1.70-2.45)	2.32 (1.92-2.77)	2.85 (2.35-3.41)	3.37 (2.76-4.03)	4.19 (3.38-5.26)	4.91 (3.85-6.18)	5.71 (4.34-7.30)	6.61 (4.82-8.59)	7.91 (5.55-10.5)	8.99 (6.11-11.9)
24-hr	2.35 (1.97-2.77)	2.66 (2.22-3.14)	3.25 (2.71-3.85)	3.83 (3.17-4.54)	4.74 (3.87-5.88)	5.54 (4.39-6.90)	6.42 (4.92-8.13)	7.40 (5.45-9.54)	8.83 (6.25-11.6)	10.0 (6.86-13.1)
2-day	2.64 (2.23-3.08)	3.03 (2.56-3.54)	3.76 (3.17-4.40)	4.44 (3.73-5.22)	5.50 (4.52-6.73)	6.40 (5.12-7.87)	7.38 (5.70-9.23)	8.45 (6.27-10.8)	9.99 (7.13-13.0)	11.2 (7.78-14.6)
3-day	2.90 (2.47-3.36)	3.30 (2.82-3.84)	4.05 (3.44-4.72)	4.75 (4.01-5.55)	5.84 (4.83-7.10)	6.77 (5.45-8.28)	7.78 (6.05-9.69)	8.88 (6.64-11.3)	10.5 (7.53-13.6)	11.8 (8.20-15.3)
4-day	3.13 (2.68-3.61)	3.54 (3.03-4.09)	4.30 (3.67-4.98)	5.01 (4.26-5.83)	6.12 (5.08-7.41)	7.06 (5.71-8.60)	8.09 (6.32-10.0)	9.21 (6.91-11.7)	10.8 (7.81-14.0)	12.2 (8.50-15.7)
7-day	3.66 (3.17-4.20)	4.15 (3.59-4.76)	5.02 (4.33-5.77)	5.81 (4.98-6.70)	7.00 (5.85-8.36)	7.99 (6.51-9.62)	9.04 (7.12-11.1)	10.2 (7.70-12.8)	11.8 (8.58-15.1)	13.1 (9.24-16.9)
10-day	4.15 (3.62-4.73)	4.71 (4.10-5.37)	5.67 (4.92-6.48)	6.52 (5.62-7.48)	7.77 (6.52-9.20)	8.79 (7.19-10.5)	9.86 (7.80-12.0)	11.0 (8.35-13.7)	12.6 (9.19-16.0)	13.9 (9.83-17.8)
20-day	5.66 (5.00-6.39)	6.35 (5.60-7.17)	7.49 (6.58-8.47)	8.46 (7.39-9.60)	9.81 (8.30-11.4)	10.9 (8.98-12.8)	12.0 (9.54-14.4)	13.1 (10.0-16.1)	14.6 (10.7-18.3)	15.8 (11.3-20.0)
30-day	7.00 (6.22-7.84)	7.80 (6.93-8.75)	9.11 (8.06-10.2)	10.2 (8.96-11.5)	11.6 (9.88-13.4)	12.7 (10.6-14.9)	13.8 (11.1-16.5)	14.9 (11.5-18.2)	16.4 (12.1-20.4)	17.4 (12.5-22.1)
45-day	8.74 (7.82-9.73)	9.74 (8.71-10.9)	11.3 (10.1-12.6)	12.6 (11.1-14.1)	14.2 (12.1-16.2)	15.4 (12.8-17.7)	16.5 (13.3-19.4)	17.5 (13.5-21.2)	18.9 (14.0-23.3)	19.8 (14.3-25.0)
60-day	10.3 (9.23-11.4)	11.4 (10.3-12.7)	13.3 (11.9-14.8)	14.7 (13.1-16.4)	16.5 (14.1-18.7)	17.8 (14.9-20.4)	18.9 (15.3-22.2)	20.0 (15.5-24.0)	21.2 (15.8-26.1)	22.0 (16.0-27.7)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

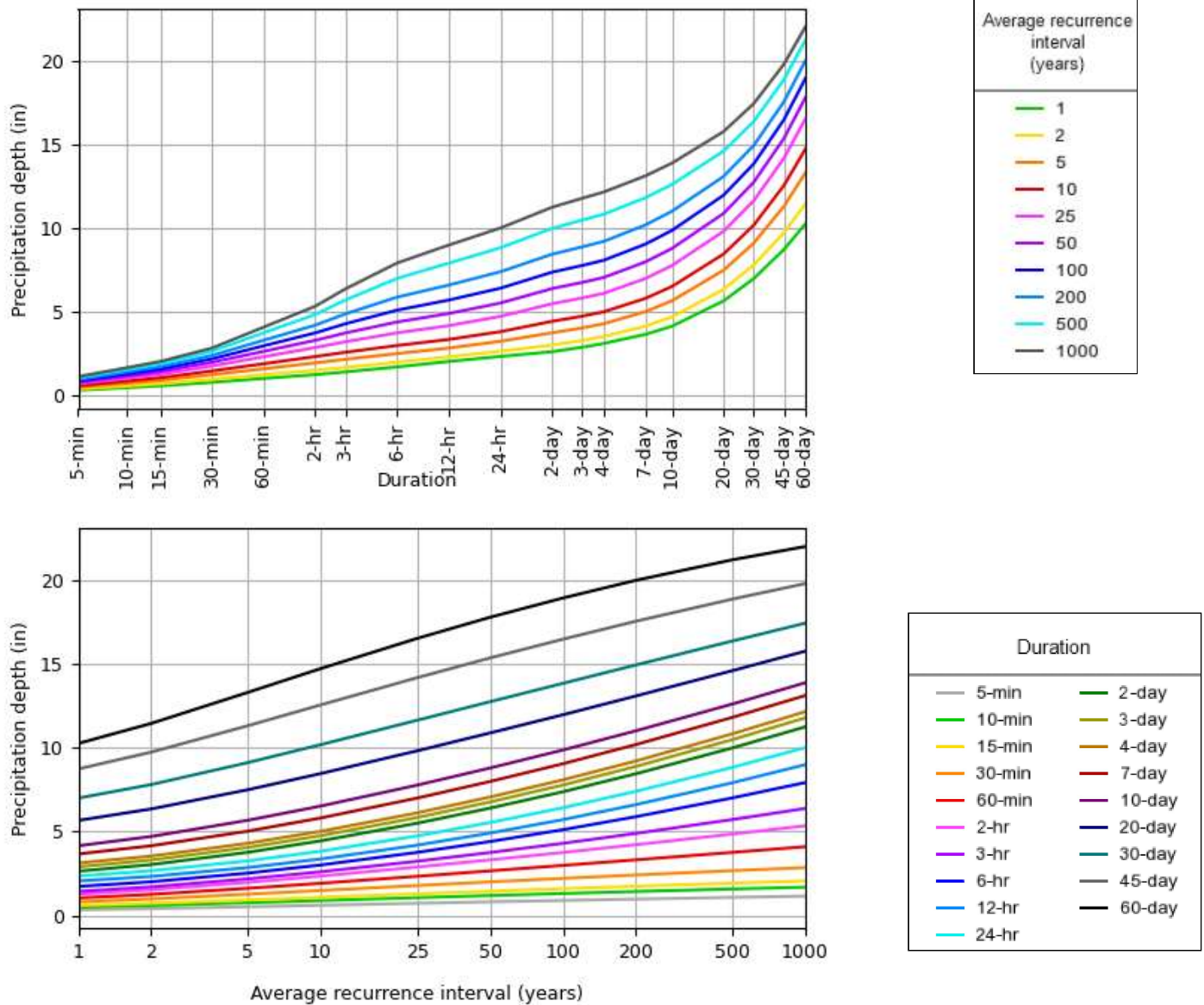
Please refer to NOAA Atlas 14 document for more information.

[Back to Top](#)

PF graphical

PDS-based depth-duration-frequency (DDF) curves

Latitude: 43.3158°, Longitude: -88.1502°



[Back to Top](#)

Maps & aerials

Small scale terrain



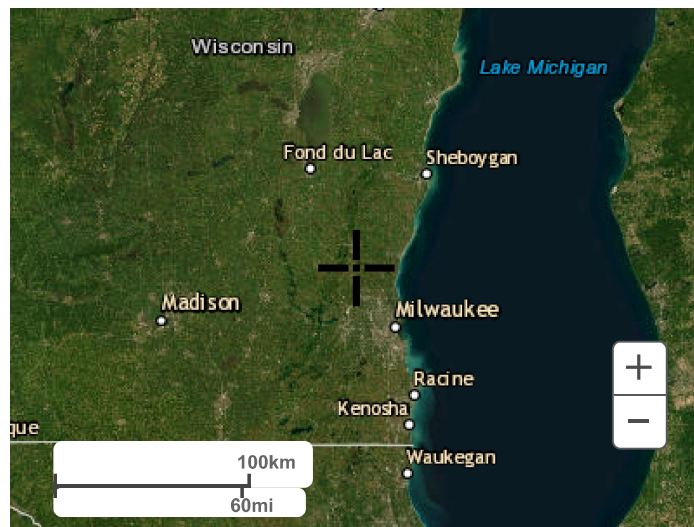
Large scale terrain



Large scale map



Large scale aerial



[Back to Top](#)

[US Department of Commerce](#)
[National Oceanic and Atmospheric Administration](#)
[National Weather Service](#)
[National Water Center](#)
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

[Disclaimer](#)

Appendix C

WinSLAMM Inputs

Data file name: C:\Users\carltonsm\OneDrive - CDM
 Smith\Desktop\JacksonWI\WinSLAMM\Final\CedarCreekBMP.mdb
 WinSLAMM Version 10.5.0
 Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Milwaukee WI 1969.RAN
 Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx
 Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
 Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban
 Dec06.std
 Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust
 Dec06.std
 Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust
 Dec06.std
 Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust
 Dec06.std
 Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban
 Dec06.std
 Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std
 Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance:
 False
 Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx
 Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source
 Area PSD Files.csv
 Cost Data file name:
 Seed for random number generator: -42
 Study period starting date: 01/05/69 Study period ending date: 12/31/69
 Start of Winter Season: 12/02 End of Winter Season: 03/12
 Date: 11-24-2023 Time: 18:39:20
 Site information:
 Cedar Creek BMP Site
 LU# 1 - Residential: Suburban Residential (South) Total area (ac): 2.750
 1 - Roofs 1: 0.030 ac. Pitched Connected Source Area PSD File:
 C:\WinSLAMM Files\NURP.cpz
 2 - Roofs 2: 0.110 ac. Pitched Disconnected Normal Silty Source
 Area PSD File: C:\WinSLAMM Files\NURP.cpz
 3 - Roofs 3: 0.100 ac. Pitched Disconnected Normal Clayey Low
 Density Source Area PSD File: C:\WinSLAMM Files\NURP.cpz
 25 - Driveways 1: 0.100 ac. Connected Source Area PSD File: C:\WinSLAMM
 Files\NURP.cpz
 26 - Driveways 2: 0.020 ac. Disconnected Normal Silty Source Area PSD
 File: C:\WinSLAMM Files\NURP.cpz
 27 - Driveways 3: 0.020 ac. Disconnected Normal Clayey Low Density
 Source Area PSD File: C:\WinSLAMM Files\NURP.cpz
 31 - Sidewalks 1: 0.025 ac. Connected Source Area PSD File: C:\WinSLAMM
 Files\NURP.cpz
 32 - Sidewalks 1: 0.025 ac. Disconnected Normal Silty Source Area PSD
 File: C:\WinSLAMM Files\NURP.cpz
 37 - Streets 1: 0.350 ac. Smooth Street Length = 0.0963 mi Street
 Width = 29.98442 ft Street Edges = 2
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs Source Area
 PSD File: C:\WinSLAMM Files\NURP.cpz

38 - Streets 2: 0.750 ac. Intermediate Street Length = 0.2063 mi
 Street Width = 29.99273 ft Street Edges = 2
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs Source Area
 PSD File: C:\WinSLAMM Files\NURP.cpz

39 - Streets 3: 0.200 ac. Intermediate Street Length = 0.055 mi
 Street Width = 30 ft Street Edges = 2
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs Source Area
 PSD File: C:\WinSLAMM Files\NURP.cpz

51 - Small Landscaped Areas 1: 0.100 ac. Normal Silty Source Area PSD
 File: C:\WinSLAMM Files\NURP.cpz

52 - Small Landscaped Areas 2: 0.200 ac. Normal Clayey Source Area PSD
 File: C:\WinSLAMM Files\NURP.cpz

57 - Undeveloped Areas 1: 0.250 ac. Normal Silty Source Area PSD File:
 C:\WinSLAMM Files\NURP.cpz

58 - Undeveloped Areas 2: 0.460 ac. Normal Clayey Source Area PSD File:
 C:\WinSLAMM Files\NURP.cpz

69 - Isolated Areas: 0.010 ac. Source Area PSD File: C:\WinSLAMM
 Files\NURP.cpz

LU# 2 - Residential: Suburban Residential (North) Total area (ac): 4.000

1 - Roofs 1: 0.030 ac. Pitched Connected Source Area PSD File:
 C:\WinSLAMM Files\NURP.cpz

2 - Roofs 2: 0.020 ac. Pitched Disconnected Normal Sandy Source
 Area PSD File: C:\WinSLAMM Files\NURP.cpz

3 - Roofs 3: 0.100 ac. Pitched Disconnected Normal Silty Source
 Area PSD File: C:\WinSLAMM Files\NURP.cpz

25 - Driveways 1: 0.020 ac. Connected Source Area PSD File: C:\WinSLAMM
 Files\NURP.cpz

27 - Driveways 3: 0.020 ac. Disconnected Normal Silty Source Area PSD
 File: C:\WinSLAMM Files\NURP.cpz

37 - Streets 1: 0.250 ac. Smooth Street Length = 0.0688 mi Street
 Width = 29.9782 ft Street Edges = 2
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs Source Area
 PSD File: C:\WinSLAMM Files\NURP.cpz

38 - Streets 2: 1.500 ac. Intermediate Street Length = 0.4125 mi
 Street Width = 30 ft Street Edges = 2
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs Source Area
 PSD File: C:\WinSLAMM Files\NURP.cpz

39 - Streets 3: 0.250 ac. Rough Street Length = 0.0688 mi Street
 Width = 29.9782 ft Street Edges = 2
 Default St. Dirt Accum. Annual Winter Load = 2750 lbs Source Area
 PSD File: C:\WinSLAMM Files\NURP.cpz

51 - Small Landscaped Areas 1: 0.150 ac. Normal Sandy Source Area PSD
 File: C:\WinSLAMM Files\NURP.cpz

52 - Small Landscaped Areas 2: 0.200 ac. Normal Silty Source Area PSD
 File: C:\WinSLAMM Files\NURP.cpz

53 - Small Landscaped Areas 3: 0.050 ac. Normal Clayey Source Area PSD
 File: C:\WinSLAMM Files\NURP.cpz

57 - Undeveloped Areas 1: 0.400 ac. Normal Sandy Source Area PSD File:

C:\WinSLAMM Files\NURP.cpz

58 - Undeveloped Areas 2: 0.900 ac. Normal Silty Source Area PSD File:

C:\WinSLAMM Files\NURP.cpz

59 - Undeveloped Areas 3: 0.100 ac. Normal Clayey Source Area PSD File:

C:\WinSLAMM Files\NURP.cpz

69 - Isolated Areas: 0.010 ac. Source Area PSD File: C:\WinSLAMM
Files\NURP.cpz

LU# 3 - Industrial: Light Industrial Total area (ac): 1.250

37 - Streets 1: 0.250 ac. Intermediate Street Length = 0.0688 mi

Street Width = 29.9782 ft Street Edges = 2

Default St. Dirt Accum. Annual Winter Load = 2500 lbs Source Area

PSD File: C:\WinSLAMM Files\NURP.cpz

38 - Streets 2: 0.050 ac. Smooth Street Length = 0.0138 mi Street

Width = 29.89131 ft Street Edges = 2

Default St. Dirt Accum. Annual Winter Load = 2500 lbs Source Area

PSD File: C:\WinSLAMM Files\NURP.cpz

39 - Streets 3: 0.100 ac. Smooth Street Length = 0.0275 mi Street

Width = 30 ft Street Edges = 2

Default St. Dirt Accum. Annual Winter Load = 2500 lbs Source Area

PSD File: C:\WinSLAMM Files\NURP.cpz

45 - Large Landscaped Areas 1: 0.050 ac. Source Area PSD File: C:\WinSLAMM
Files\NURP.cpz

57 - Undeveloped Areas 1: 0.700 ac. Normal Silty Source Area PSD File:
C:\WinSLAMM Files\NURP.cpz

58 - Undeveloped Areas 2: 0.100 ac. Normal Clayey Low Density Source
Area PSD File: C:\WinSLAMM Files\NURP.cpz

Control Practice 1: Grass Swale CP# 1 (DS) - DS Grass Swale # 2

Total drainage area (acres)= 4.000

Fraction of drainage area served by swales (ac) = 1.00

Swale density (ft/ac) = 1.24

Total swale length (ft)= 50

Average swale length to outlet (ft)= 50

Typical bottom width (ft) = 8.0

Typical swale side slope (_H:1V) = 6.0

Typical longitudinal slope (ft.H/ft.V) = 0.005

Swale retardance factor: C

Typical grass height (in) = 12.0

Swale dynamic infiltration rate (in/hr)= 0.020

Typical swale depth (ft) for cost analysis (optional) = 0.0

Particle size distribution file name: Not needed - calculated by program

Use total swale length instead of swale density for infiltration

calculations: True

Control Practice 2: Grass Swale CP# 2 (DS) - DS Grass Swale # 3

Total drainage area (acres)= 4.000

Fraction of drainage area served by swales (ac) = 1.00

Swale density (ft/ac) = 1.12

Total swale length (ft) = 50

Average swale length to outlet (ft)= 50

Typical bottom width (ft) = 8.0

Typical swale side slope (_H:1V) = 6.0

Typical longitudinal slope (ft.H/ft.V) = 0.005

Swale retardance factor: C

Typical grass height (in) = 12.0

Swale dynamic infiltration rate (in/hr)= 0.020

Typical swale depth (ft) for cost analysis (optional) = 0.0

Particle size distribution file name: Not needed - calculated by program

Use total swale length instead of swale density for infiltration

calculations: True

Control Practice 3: Biofilter CP# 1 (DS) - DS Biofilters # 1

1. Top area (square feet) = 600

2. Bottom area (square feet) = 500

3. Depth (ft): 4

4. Biofilter width (ft) - for Cost Purposes Only: 10

5. Infiltration rate (in/hr) = 0.02

6. Random infiltration rate generation? No

7. Infiltration rate fraction (side): 1

8. Infiltration rate fraction (bottom): 1

9. Depth of biofilter that is rock filled (ft) 0.5

10. Porosity of rock filled volume = 0.33

11. Engineered soil infiltration rate: 3.6

12. Engineered soil depth (ft) = 1.25

13. Engineered soil porosity = 0.27

14. Percent solids reduction due to flow through engineered soil = 80

15. Biofilter peak to average flow ratio = 3.8

16. Number of biofiltration control devices = 1

17. Particle size distribution file: Not needed - calculated by program

18. Initial water surface elevation (ft): 0

Soil Data

Soil Type Fraction in Eng. Soil

User-Defined Media Type

1.000

Sand

0.700

Compost

0.300

Biofilter Outlet/Discharge Characteristics:

Outlet type: Broad Crested Weir

1. Weir crest length (ft): 15

2. Weir crest width (ft): 3

3. Height of datum to bottom of weir opening: 3.5

Outlet type: Surface Discharge Pipe

1. Surface discharge pipe outlet diameter (ft): 0.17

2. Pipe invert elevation above datum (ft): 2.75

3. Number of surface pipe outlets: 1

Outlet type: Drain Tile/Underdrain

1. Underdrain outlet diameter (ft): 0.4
2. Invert elevation above datum (ft): 0.17
3. Number of underdrain outlets: 1

Outlet type: Evapotranspiration

(in/day)	Month Number	Month	Evapotranspiration (in/day)	Evaporation
	1	January	.	.
	2	February	.	.
	3	March	.	.
	4	April	.2	.
	5	May	.4	.
	6	June	.6	.
	7	July	.8	.
	8	August	.8	.
	9	September	.6	.
	10	October	.4	.
	11	November	.2	.
	12	December	.	.
	1. Saturated Soil Moisture Content: 0.27			
0.221	2. Soil Field Moisture Capacity (% of Soil Dry Weight):			
	3. Permanent Wilting Point (% of Soil Dry Weight): 0.033			
	4. Supplemental Irrigation Used= False			
	4a. Fraction of available capacity when irrigation starts = 0			
	4b. Fraction of available capacity when irrigation stops = 0			
0.95	5a. First area of biofilter that is vegetated (fraction):			
0.05	5b. Second area of biofilter that is vegetated (fraction):			
	5c. Third area of biofilter that is vegetated (fraction): 0			
	5d. Fourth area of biofilter that is vegetated (fraction): 0			
	6a. First plant type: Prairie Plants			
	6b. Second plant type: Turfgrass			
	6c. Third plant type:			
	6d. Fourth plant type:			
	7a. First root depth (ft): 6			
	7b. Second root depth (ft): 1			
	7c. Third root depth (ft): 0			
	7d. Fourth root depth (ft): 0			
0.5	8a. First ET adjustment factor for actual crop (decimal):			
0.8	8b. Second ET adjustment factor for actual crop (decimal):			
	8c. Third ET adjustment factor for actual crop (decimal): 0			
	8e. Fourth ET adjustment factor for actual crop (decimal): 0			

Control Practice 4: Other Device CP# 1 (DS) - DS Other Device # 1

Fraction of drainage area served by device (ac) = 0.50

Particulate Concentration reduction fraction = 0.70

Filterable Concentration reduction fraction = 0.00

Runoff volume reduction fraction = 1

Control Practice 5: Other Device CP# 2 (DS) - DS Other Device # 2

Fraction of drainage area served by device (ac) = 0.40

Particulate Concentration reduction fraction = 0.80

Filterable Concentration reduction fraction = 0.00

Runoff volume reduction fraction = 1

Drainage System Control Practice

Device Properties

Biofilter Number 1

Top Area (sf)	600
Bottom Area (sf)	500
Total Depth (ft)	4.00
Typical Width (ft) (Cost est. only)	10.00
Native Soil Infiltration Rate (in/hr)	0.020
Native Soil Infiltration Rate COV	N/A
Infil. Rate Fraction-Bottom (0.001-1)	1.000
Infil. Rate Fraction-Sides (0.001-1)	1.000
Rock Filled Depth (ft)	0.50
Rock Fill Porosity (0-1)	0.33
Engineered Media Type	Media Data
Engineered Media Infiltration Rate	3.60
Engineered Media Infiltration Rate COV	N/A
Engineered Media Depth (ft)	1.25
Engineered Media Porosity (0-1)	0.27
Percent solids reduction due to Engineered Media (0-100)	80.00
Inflow Hydrograph Peak to Average Flow Ratio	3.80
Number of Devices in Source Area or Upstream Drainage System	1

☐ Activate Pipe or Box Storage ☐ Pipe ☐ Box

Diameter (ft)	
Length (ft)	
Within Biofilter (check if Yes)	☐
Perforated (check if Yes)	☐
Bottom Elevation (ft above datum)	
Discharge Orifice Diameter (ft)	

Select Native Soil Infiltration Rate

- ☐ Sand - 8 in/hr
- ☐ Loamy sand - 2.5 in/hr
- ☐ Sandy loam - 1.0 in/hr
- ☐ Loam - 0.5 in/hr
- ☐ Silt loam - 0.3 in/hr
- ☐ Sandy silt loam - 0.2 in/hr
- ☐ Clay loam - 0.1 in/hr
- ☐ Silty clay loam - 0.05 in/hr
- ☐ Sandy clay - 0.05 in/hr
- ☐ Silty clay - 0.04 in/hr
- ☐ Clay - 0.02 in/hr
- ☐ Rain Barrel/Cistern - 0.00 in/hr

Estimated Surface Drain Time = 3.33 hrs.

Save or Delete Biofilter Data to Database File

Get Biofilter Data From Database File

Add Sharp Crested Weir

Weir Length (ft)	
Height from datum to bottom of weir opening (ft)	

Remove Broad Crested Weir-Reqd

Weir crest length (ft)	15.00
Weir crest width (ft)	3.00
Height from datum to bottom of weir opening (ft)	3.50

Add Vertical Stand Pipe

Pipe diameter (ft)	
Height above datum (ft)	

Remove Surface Discharge Pipe

Pipe Diameter (ft)	0.17
Invert elevation above datum (ft)	2.75
Number of pipes at invert elev.	1

Remove Drain Tile/Underdrain

Pipe Diameter (ft)	0.40
Invert elevation above datum (ft)	0.17
Number of pipes at invert elev.	1

☐ Use Random Number Generation to Account for Infiltration Rate Uncertainty

Copy Biofilter Data

Paste Biofilter Data

Add Other Outlet

Stage Number	Stage (ft)	Other Outflow Rate (cfs)
1		
2		
3		
4		
5		

Remove Evapotranspiration

Soil porosity (saturation moisture content, 0-1)	0.449
Soil field moisture capacity (0-1)	0.221
Permanent wilting point (0-1)	0.033
Supplemental irrigation used?	☐
Fraction of available capacity when irrigation starts (0-1)	0.000
Fraction of available capacity when irrigation stops (0-1)	0.000

Evaporation

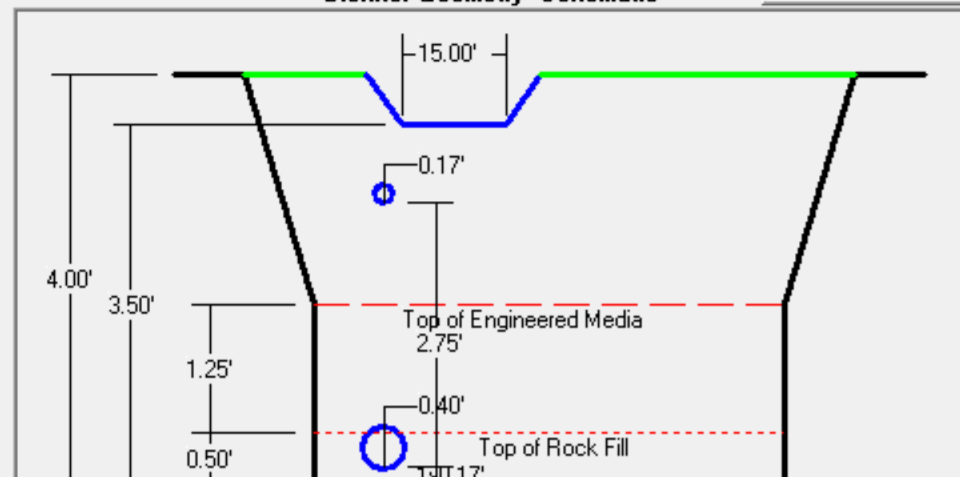
Month	Evapotranspiration (in/day)	Evaporation (in/day)
Jan	0.00	
Feb	0.00	
Mar	0.00	
Apr	0.20	
May	0.40	
Jun	0.60	
Jul	0.80	
Aug	0.80	
Sep	0.60	
Oct	0.40	
Nov	0.20	
Dec	0.00	

Plant Types

	1	2	3	4
Fraction of biofilter that is vegetated	0.95	0.05	0.00	0.00
Plant type	Prairie P	Turfgras		
Root depth (ft)	6.0	1.0	0.0	0.0
ET Crop Adjustment Factor	0.50	0.80	0.00	0.00

Biofilter Geometry Schematic

Refresh Schematic



Press 'F1' for Help

To Delete This Practice, Right Mouse Click on Icon and Select Delete

Cancel

Continue

Appendix D

WinSLAMM Results

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb												
Rain File: WisReg - Milwaukee WI 1969.RAN												
Date: 01-23-24 Time: 6:33:27 PM												
Site Description: Cedar Creek BMP Site												
Col. #:	2	3	4	5	6	7	8	9	10	11	12	13
Control Practice No.	Control Practice Type	Control Practice Name or Location	Total Inflow Volume (cf)	Total Outflow Volume (cf)	Percent Volume Reduction	Total Influent Load (lbs)	Total Effluent Load (lbs)	Percent Load Reduction	Flow Weighted Influent Conc (mg/L)	Flow Weighted Effluent Conc (mg/L)	Percent Conc. Reduction	Influent Median Part. Size (microns)
1	Grass Swales	DS Grass Swale # 2	17400	17252	0.8506	85.15	71.32	16.24	78.39	66.22	15.522	7.80
2	Grass Swales	DS Grass Swale # 3	65664	64458	1.837	286.9	234.6	18.23	70.00	58.31	16.702	7.80
3	Biofilter	DS Biofilters # 1	124824	17400	86.06	894.0	85.15	90.48	114.7	78.39	31.675	7.80
4	Other Device	DS Other Device # 1	192036	124824	35.00	2116	894.0	57.75	176.5	114.7	35.000	7.80
5	Other Device	DS Other Device # 2	182400	65664	64.00	2214	286.9	87.04	194.4	70.00	64.000	7.80

Data File: C:\Users\carltonsm\O													
Rain File: WisReg - Milwaukee V													
Date: 01-23-24 Time: 6:33:27 P													
Site Description: Cedar Creek Bl													
Col. #:	2	14	15	18	19	23	27	28	29	30	31	32	33
Control Practice No.	Control Practice Type	Effluent Median Part. Size (microns)	Notes	Maximum Stage (ft)	Hydraulic Volume Out (cf)	Treated Volume (cf)	Maximum Surface Ponding Time (hrs)	Maximum Subsurface Ponding Time (hrs)	Volume Infiltrated (cf)	Underdrain Discharge Vol. (cf)	Evapo-Transpir. Vol. (cf)	Minimum Soil Moist. (frac)	Surface Discharge Bypass Vol. (cf)
1	Grass Swales	6.26		0.48		17252			149				
2	Grass Swales	6.22		0.39		64458			1206				
3	Biofilter	7.80	No Biofilter Overflows	3.62	17635	105293	36.3	46.00	1861.72	0	2130.15		17400.67
4	Other Device	7.80											
5	Other Device	7.80											

Data File: C:\Users\carltonsm\O													
Rain File: WisReg - Milwaukee V													
Date: 01-23-24 Time: 6:33:27 P													
Site Description: Cedar Creek Bl													
Col. #:	2	34	35	36	38	39	54	61	62	63	64	65	91
Control Practice No.	Control Practice Type	Evap. Vol. (cf)	Volume Supplemtl. Irrig.(cf)	Final Surface Infiltration Rate (in/hr)	Maximum Velocity (ft/s)	Surface Ponding Events >72 hrs (Count)	Residence Time in Media (hrs)	Ttl. Mass Trapped in Media (lbs)	Ttl. Mass Infiltrated (lbs)	Annual Allowable Clog Rate (lbs/yr)	First Year Cum. Load (lbs)	Time Until Clogging Failure (yrs)	Runoff Producing Events/ Ttl. Rains
1	Grass Swales				0.16								16/93
2	Grass Swales				0.10								71/93
3	Biofilter			3.256		0	1.24	762.17	3.55	0.205	1.524	1.34	16/93
4	Other Device												81/93
5	Other Device												93/93

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
Rain File: WisReg - Milwaukee WI 1969.RAN															
Date: 01-23-24 Time: 6:33:20 PM															
Site Description: Cedar Creek BMP Site															
Residential: Suburban Residential (South) Areas - Runoff Volume (cu.															
Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	624.4	16	0	0	36	0	0	9	0	152	325	87	0	0
03/20/69	0.04	85.10	1	0	0	5	0	0	1	0	21	45	12	0	0
03/21/69	0.08	204.7	6	0	0	13	0	0	3	0	49	106	28	0	0
03/24/69	0.64	3089	66	8	10	163	2	2	41	2	728	1559	416	8	8
03/28/69	0.08	204.7	6	0	0	13	0	0	3	0	49	106	28	0	0
04/01/69	0.29	1090	28	1	1	63	0	0	16	0	261	559	149	1	1
04/04/69	0.43	1794	44	4	4	101	1	1	25	1	424	908	242	4	4
04/08/69	0.71	3476	74	11	13	184	2	3	46	2	814	1744	465	10	10
04/14/69	0.52	2346	53	6	6	127	1	1	32	1	555	1189	317	5	5
04/16/69	0.10	296.0	8	0	0	17	0	0	4	0	72	154	41	0	0
04/16/69	1.26	6497	134	26	39	375	5	8	94	6	1473	3156	842	24	24
04/21/69	0.04	85.10	1	0	0	5	0	0	1	0	21	45	12	0	0
04/27/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0	0
04/28/69	0.06	140.2	3	0	0	9	0	0	2	0	34	73	19	0	0
05/01/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/69	0.18	624.4	16	0	0	36	0	0	9	0	152	325	87	0	0
05/06/69	0.02	1.890	0	0	0	1	0	0	0	0	0	0	0	0	0
05/06/69	0.06	140.2	3	0	0	9	0	0	2	0	34	73	19	0	0
05/08/69	0.26	956.1	25	1	1	55	0	0	14	0	230	492	131	1	1
05/08/69	0.22	785.5	21	0	0	45	0	0	11	0	190	407	109	0	0
05/10/69	0.02	1.890	0	0	0	1	0	0	0	0	0	0	0	0	0
05/13/69	0.18	624.4	16	0	0	36	0	0	9	0	152	325	87	0	0
05/17/69	1.33	6894	142	28	45	400	5	9	100	6	1555	3331	888	25	25
05/20/69	0.03	4.253	1	0	0	3	0	0	1	0	0	0	0	0	0
05/21/69	0.55	2544	57	6	7	136	1	1	34	1	602	1289	344	6	6
05/24/69	0.06	140.2	3	0	0	9	0	0	2	0	34	73	19	0	0
05/26/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0	0
05/31/69	0.12	399.4	10	0	0	21	0	0	5	0	98	209	56	Page 82 of 293	

06/01/69	0.04	85.10	1	0	0	5	0	0	1	0	21	45	12	0
06/02/69	0.05	111.6	2	0	0	7	0	0	2	0	27	58	16	0
06/03/69	0.02	1.890	0	0	0	1	0	0	0	0	0	0	0	0
06/04/69	0.40	1623	41	3	3	93	1	1	23	1	383	822	219	3
06/06/69	0.09	248.4	7	0	0	15	0	0	4	0	60	129	34	0
06/07/69	0.83	4136	87	14	18	223	3	4	56	3	960	2056	548	13
06/11/69	0.07	170.9	4	0	0	11	0	0	3	0	41	89	24	0
06/11/69	0.03	4.253	1	0	0	3	0	0	1	0	0	0	0	0
06/12/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0
06/12/69	0.24	869.7	23	0	0	50	0	0	13	0	210	449	120	0
06/17/69	0.36	1420	36	3	2	82	0	0	20	1	337	722	192	2
06/18/69	0.16	547.5	14	0	0	31	0	0	8	0	133	286	76	0
06/19/69	0.09	248.4	7	0	0	15	0	0	4	0	60	129	34	0
06/21/69	0.02	1.890	0	0	0	1	0	0	0	0	0	0	0	0
06/22/69	0.36	1420	36	3	2	82	0	0	20	1	337	722	192	2
06/22/69	0.05	111.6	2	0	0	7	0	0	2	0	27	58	16	0
06/25/69	1.68	9115	180	62	86	529	11	17	132	14	1969	4220	1125	57
06/27/69	0.68	3309	71	10	12	175	2	2	44	2	777	1664	444	9
06/29/69	0.70	3420	73	10	12	181	2	2	45	2	801	1717	458	9
06/29/69	1.96	11410	211	154	141	633	28	28	158	35	2315	4961	1323	140
06/30/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0
07/02/69	0.31	1181	30	1	1	68	0	0	17	0	282	604	161	1
07/04/69	0.04	85.10	1	0	0	5	0	0	1	0	21	45	12	0
07/10/69	0.47	2032	48	5	5	112	1	1	28	1	480	1029	274	4
07/11/69	0.07	170.9	4	0	0	11	0	0	3	0	41	89	24	0
07/16/69	0.52	2346	53	6	6	127	1	1	32	1	555	1189	317	5
07/17/69	0.85	4240	89	14	19	229	3	4	57	3	983	2106	562	13
07/17/69	1.44	7525	154	31	55	441	6	11	110	7	1683	3607	962	28
07/18/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0
07/23/69	0.11	347.7	9	0	0	19	0	0	5	0	85	182	48	0
07/26/69	1.37	7122	146	29	48	415	5	10	104	7	1601	3431	915	26
07/27/69	1.38	7179	147	29	49	418	5	10	105	7	1613	3456	922	27
07/31/69	0.04	85.10	1	0	0	5	0	0	1	0	21	45	12	0
08/04/69	0.03	4.253	1	0	0	3	0	0	1	0	0	0	0	0
08/07/69	0.10	296.0	8	0	0	17	0	0	4	0	72	154	41	0
08/09/69	0.08	204.7	6	0	0	13	0	0	3	0	49	106	28	0
08/16/69	0.32	1228	31	2	2	71	0	0	18	0	293	627	167	2
09/04/69	0.36	1420	36	3	2	82	0	0	20	1	337	722	192	2
09/05/69	0.74	3644	77	12	14	194	2	3	48	3	851	1824	486	11
09/14/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0
09/15/69	0.03	4.253	1	0	0	3	0	0	1	0	0	0	0	0
09/16/69	0.03	4.253	1	0	0	3	0	0	1	0	0	0	0	0
09/23/69	0.16	547.5	14	0	0	31	0	0	8	0	133	286	76	0
09/25/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0
09/29/69	0.84	4188	88	14	19	226	3	4	56	3	971	2081	555	13
10/06/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0
10/06/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0
10/09/69	0.05	111.6	2	0	0	7	0	0	2	0	27	58	16	0
10/10/69	0.14	472.6	12	0	0	26	0	0	6	0	115	247	66	0

10/10/69	1.34	6951	143	28	46	404	5	9	101	6	1566	3356	895	26
10/12/69	1.63	8729	174	48	78	511	9	16	128	11	1908	4089	1090	44
10/15/69	0.16	547.5	14	0	0	31	0	0	8	0	133	286	76	0
10/19/69	0.44	1852	45	4	4	104	1	1	26	1	438	938	250	4
10/19/69	0.35	1371	35	2	2	79	0	0	20	1	326	698	186	2
10/21/69	0.02	1.890	0	0	0	1	0	0	0	0	0	0	0	0
10/24/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0
10/30/69	0.32	1228	31	2	2	71	0	0	18	0	293	627	167	2
11/02/69	0.77	3815	80	13	16	203	2	3	51	3	889	1904	508	11
11/11/69	0.05	111.6	2	0	0	7	0	0	2	0	27	58	16	0
11/11/69	0.04	85.10	1	0	0	5	0	0	1	0	21	45	12	0
11/13/69	0.03	4.253	1	0	0	3	0	0	1	0	0	0	0	0
11/17/69	0.15	509.8	13	0	0	28	0	0	7	0	124	266	71	0
11/18/69	0.02	1.890	0	0	0	1	0	0	0	0	0	0	0	0
11/19/69	0.01	0.4725	0	0	0	0	0	0	0	0	0	0	0	0
11/26/69	0.07	170.9	4	0	0	11	0	0	3	0	41	89	24	0
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Summary for All Events														
	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	11410	211	154	141	633	28	28	158	35	2315	4961	1323	140
Average:	0.26	1217	26	5	7	69	1	1	17	1	277	594	158	5
Total:	30.28	141126	3032	593.0	770.0	7992	107.0	152.0	1997	133.0	32137	68864	18362	540.0

Residential: Suburban Residential (North) Areas - Runoff Volume (cu. f

Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	866.6	16	0	0	7	0	108	650	84	0	0	0	0	0
03/20/69	0.04	113.3	1	0	0	1	0	15	90	7	0	0	0	0	0
03/21/69	0.08	283.1	6	0	0	3	0	35	211	28	0	0	0	0	0
03/24/69	0.64	4233	66	0	8	33	2	520	3119	376	3	15	5	7	7
03/28/69	0.08	283.1	6	0	0	3	0	35	211	28	0	0	0	0	0
04/01/69	0.29	1509	28	0	1	13	0	186	1118	148	0	2	1	1	1
04/04/69	0.43	2474	44	0	4	20	1	303	1816	237	1	7	2	3	3
04/08/69	0.71	4753	74	0	10	37	2	581	3488	424	3	19	6	9	9
04/14/69	0.52	3226	53	0	5	25	1	396	2378	295	2	10	3	5	5
04/16/69	0.10	410.1	8	0	0	3	0	51	308	39	0	0	0	0	0
04/16/69	1.26	8812	134	1	24	75	5	1052	6312	851	10	48	19	26	26
04/21/69	0.04	113.3	1	0	0	1	0	15	90	7	0	0	0	0	0
04/27/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	0
04/28/69	0.06	190.7	3	0	0	2	0	24	146	16	0	0	0	0	0
05/01/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/69	0.18	866.6	16	0	0	7	0	108	650	84	0	0	0	0	0
05/06/69	0.02	0.5348	0	0	0	0	0	0	0	0	0	0	0	0	0
05/06/69	0.06	190.7	3	0	0	2	0	24	146	16	0	0	0	0	0
05/08/69	0.26	1325	25	0	1	11	0	164	985	130	0	1	0	1	1
05/08/69	0.22	1090	21	0	0	9	0	136	814	107	0	0	0	0	0
05/10/69	0.02	0.5348	0	0	0	0	0	0	0	0	0	0	0	0	0
05/13/69	0.18	866.6	16	0	0	7	0	108	650	84	0	0	0	0	0
05/17/69	1.33	9326	142	1	25	80	5	1110	6663	913	11	51	22	28	28
05/20/69	0.03	1.203	1	0	0	1	0	0	0	0	0	0	0	0	0
05/21/69	0.55	3494	57	0	6	27	1	430	2579	315	2	11	3	5	5
05/24/69	0.06	190.7	3	0	0	2	0	24	146	16	0	0	0	0	0
05/26/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	0
05/31/69	0.12	553.9	10	0	0	4	0	70	419	51	0	0	0	0	0
06/01/69	0.04	113.3	1	0	0	1	0	15	90	7	0	0	0	0	0
06/02/69	0.05	150.2	2	0	0	1	0	19	117	11	0	0	0	0	0
06/03/69	0.02	0.5348	0	0	0	0	0	0	0	0	0	0	0	0	0
06/04/69	0.40	2242	41	0	3	19	1	274	1643	218	1	6	2	3	3
06/06/69	0.09	343.8	7	0	0	3	0	43	258	34	0	0	0	0	0
06/07/69	0.83	5640	87	1	13	45	3	685	4113	510	5	26	9	13	13
06/11/69	0.07	234.6	4	0	0	2	0	30	177	22	0	0	0	0	0
06/11/69	0.03	1.203	1	0	0	1	0	0	0	0	0	0	0	0	0
06/12/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	0
06/12/69	0.24	1206	23	0	0	10	0	150	898	119	0	1	0	0	0
06/17/69	0.36	1963	36	0	2	16	0	241	1443	192	1	5	1	2	2
06/18/69	0.16	759.7	14	0	0	6	0	95	571	73	0	0	0	0	0
06/19/69	0.09	343.8	7	0	0	3	0	43	258	34	0	0	0	0	0
06/21/69	0.02	0.5348	0	0	0	0	0	0	0	0	0	0	0	0	0
06/22/69	0.36	1963	36	0	2	16	0	241	1443	192	1	5	1	2	2
06/22/69	0.05	150.2	2	0	0	1	0	19	117	11	0	0	0	0	0
06/25/69	1.68	12247	180	2	57	106	11	1407	8440	1236	15	113	43	40	40
06/27/69	0.68	4529	71	0	9	35	2	555	3329	403	3	18	6	9	9

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
06/29/69	0.70	4678	73	0	9	36	2	572	3435	417	3	19	6	9	
06/29/69	1.96	15400	211	3	140	127	28	1654	9923	1493	19	280	71	51	
06/30/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	
07/02/69	0.31	1635	30	0	1	14	0	201	1209	160	0	3	1	1	
07/04/69	0.04	113.3	1	0	0	1	0	15	90	7	0	0	0	0	
07/10/69	0.47	2798	48	0	4	22	1	343	2058	263	1	8	2	4	
07/11/69	0.07	234.6	4	0	0	2	0	30	177	22	0	0	0	0	
07/16/69	0.52	3226	53	0	5	25	1	396	2378	295	2	10	3	5	
07/17/69	0.85	5780	89	1	13	46	3	702	4212	524	5	26	9	13	
07/17/69	1.44	10140	154	2	28	88	6	1202	7214	1014	12	56	27	32	
07/18/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	
07/23/69	0.11	482.0	9	0	0	4	0	61	364	45	0	0	0	0	
07/26/69	1.37	9621	146	1	26	83	5	1144	6863	949	11	53	24	30	
07/27/69	1.38	9695	147	2	27	84	5	1152	6913	959	11	53	25	30	
07/31/69	0.04	113.3	1	0	0	1	0	15	90	7	0	0	0	0	
08/04/69	0.03	1.203	1	0	0	1	0	0	0	0	0	0	0	0	
08/07/69	0.10	410.1	8	0	0	3	0	51	308	39	0	0	0	0	
08/09/69	0.08	283.1	6	0	0	3	0	35	211	28	0	0	0	0	
08/16/69	0.32	1699	31	0	2	14	0	209	1255	167	1	3	1	1	
09/04/69	0.36	1963	36	0	2	16	0	241	1443	192	1	5	1	2	
09/05/69	0.74	4980	77	0	11	39	2	608	3647	445	4	21	7	10	
09/14/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	
09/15/69	0.03	1.203	1	0	0	1	0	0	0	0	0	0	0	0	
09/16/69	0.03	1.203	1	0	0	1	0	0	0	0	0	0	0	0	
09/23/69	0.16	759.7	14	0	0	6	0	95	571	73	0	0	0	0	
09/25/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	
09/29/69	0.84	5710	88	1	13	45	3	694	4162	517	5	26	9	13	
10/06/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	
10/06/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	
10/09/69	0.05	150.2	2	0	0	1	0	19	117	11	0	0	0	0	
10/10/69	0.14	655.5	12	0	0	5	0	82	494	62	0	0	0	0	
10/10/69	1.34	9400	143	1	26	81	5	1119	6713	922	11	51	23	29	
10/12/69	1.63	11718	174	2	44	102	9	1363	8178	1192	14	88	39	39	
10/15/69	0.16	759.7	14	0	0	6	0	95	571	73	0	0	0	0	
10/19/69	0.44	2554	45	0	4	21	1	313	1876	243	1	7	2	3	
10/19/69	0.35	1896	35	0	2	16	0	233	1395	186	1	4	1	2	
10/21/69	0.02	0.5348	0	0	0	0	0	0	0	0	0	0	0	0	
10/24/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	
10/30/69	0.32	1699	31	0	2	14	0	209	1255	167	1	3	1	1	
11/02/69	0.77	5209	80	1	11	41	2	635	3808	466	4	23	8	11	
11/11/69	0.05	150.2	2	0	0	1	0	19	117	11	0	0	0	0	
11/11/69	0.04	113.3	1	0	0	1	0	15	90	7	0	0	0	0	
11/13/69	0.03	1.203	1	0	0	1	0	0	0	0	0	0	0	0	
11/17/69	0.15	707.3	13	0	0	6	0	89	533	67	0	0	0	0	
11/18/69	0.02	0.5348	0	0	0	0	0	0	0	0	0	0	0	0	
11/19/69	0.01	0.1337	0	0	0	0	0	0	0	0	0	0	0	0	
11/26/69	0.07	234.6	4	0	0	2	0	30	177	22	0	0	0	0	
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonW\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Summary for All Events														
	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	15400	211	3	140	127	28	1654	9923	1493	19	280	71	51
Average:	0.26	1655	26	0	5	14	1	198	1187	158	1	9	3	4
Total:	30.28	192036	3032	19.00	540.0	1598	107.0	22953	137733	18363	165.0	1077	383.0	439.0
Industrial: Light Industrial Areas - Runoff Volume (cu. ft)														
Start Date	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undevelope d Areas 1	Undevelope d Areas 2	Rv	Total Losses (in.)	Calculated CN*			
01/05/69	-	-	-	-	-	-	-	-	-	-	-			
01/06/69	-	-	-	-	-	-	-	-	-	-	-			
01/08/69	-	-	-	-	-	-	-	-	-	-	-			
01/15/69	-	-	-	-	-	-	-	-	-	-	-			
01/17/69	-	-	-	-	-	-	-	-	-	-	-			
01/23/69	-	-	-	-	-	-	-	-	-	-	-			
01/24/69	-	-	-	-	-	-	-	-	-	-	-			
01/28/69	-	-	-	-	-	-	-	-	-	-	-			
01/29/69	-	-	-	-	-	-	-	-	-	-	-			
02/06/69	-	-	-	-	-	-	-	-	-	-	-			
02/06/69	-	-	-	-	-	-	-	-	-	-	-			
02/22/69	-	-	-	-	-	-	-	-	-	-	-			
03/06/69	-	-	-	-	-	-	-	-	-	-	-			
03/20/69	0.18	173.4	108	22	43	0	0	0	0.21	0.14	97.3			
03/20/69	0.04	23.88	15	3	6	0	0	0	0.13	0.03	99.2			
03/21/69	0.08	56.35	35	7	14	0	0	0	0.16	0.07	98.5			
03/24/69	0.64	895.4	520	104	208	0	54	10	0.31	0.44	93.1			
03/28/69	0.08	56.35	35	7	14	0	0	0	0.16	0.07	98.5			
04/01/69	0.29	306.5	186	37	75	0	7	1	0.23	0.22	96.0			
04/04/69	0.43	513.2	303	61	121	0	25	4	0.26	0.32	94.6			
04/08/69	0.71	1010	581	116	233	0	67	13	0.31	0.49	92.6			
04/14/69	0.52	675.6	396	79	159	0	35	6	0.29	0.37	94.0			
04/16/69	0.10	82.24	51	10	21	0	0	0	0.18	0.08	98.3			
04/16/69	1.26	1890	1052	210	421	0	168	39	0.33	0.84	88.0			
04/21/69	0.04	23.88	15	3	6	0	0	0	0.13	0.03	99.2			
04/27/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A			
04/28/69	0.06	38.91	24	5	10	0	0	0	0.14	0.05	98.8			
05/01/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A			

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb																
05/05/69	0.18	173.4	108	22	43	0	0	0	0.21	0.14	97.3					
05/06/69	0.02	0	0	0	0	0	0	0	0.00	0.02	N/A					
05/06/69	0.06	38.91	24	5	10	0	0	0	0.14	0.05	98.8					
05/08/69	0.26	267.8	164	33	66	0	4	1	0.23	0.20	96.3					
05/08/69	0.22	218.6	136	27	54	0	1	0	0.22	0.17	96.8					
05/10/69	0.02	0	0	0	0	0	0	0	0.00	0.02	N/A					
05/13/69	0.18	173.4	108	22	43	0	0	0	0.21	0.14	97.3					
05/17/69	1.33	2000	1110	222	444	0	178	45	0.33	0.89	87.5					
05/20/69	0.03	0	0	0	0	0	0	0	0.00	0.03	N/A					
05/21/69	0.55	734.0	430	86	172	0	39	7	0.29	0.39	93.8					
05/24/69	0.06	38.91	24	5	10	0	0	0	0.14	0.05	98.8					
05/26/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A					
05/31/69	0.12	111.6	70	14	28	0	0	0	0.21	0.10	98.1					
06/01/69	0.04	23.88	15	3	6	0	0	0	0.13	0.03	99.2					
06/02/69	0.05	31.14	19	4	8	0	0	0	0.14	0.04	99.0					
06/03/69	0.02	0	0	0	0	0	0	0	0.00	0.02	N/A					
06/04/69	0.40	463.2	274	55	110	0	22	3	0.26	0.30	94.9					
06/06/69	0.09	68.71	43	9	17	0	0	0	0.17	0.07	98.4					
06/07/69	0.83	1204	685	137	274	0	89	18	0.32	0.56	91.5					
06/11/69	0.07	47.21	30	6	12	0	0	0	0.15	0.06	98.7					
06/11/69	0.03	0	0	0	0	0	0	0	0.00	0.03	N/A					
06/12/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A					
06/12/69	0.24	242.8	150	30	60	0	3	0	0.22	0.19	96.5					
06/17/69	0.36	403.3	241	48	96	0	16	2	0.25	0.27	95.2					
06/18/69	0.16	152.4	95	19	38	0	0	0	0.21	0.13	97.6					
06/19/69	0.09	68.71	43	9	17	0	0	0	0.17	0.07	98.4					
06/21/69	0.02	0	0	0	0	0	0	0	0.00	0.02	N/A					
06/22/69	0.36	403.3	241	48	96	0	16	2	0.25	0.27	95.2					
06/22/69	0.05	31.14	19	4	8	0	0	0	0.14	0.04	99.0					
06/25/69	1.68	2734	1407	281	563	0	397	86	0.36	1.08	85.7					
06/27/69	0.68	960.6	555	111	222	0	61	12	0.31	0.47	92.8					
06/29/69	0.70	993.6	572	114	229	0	65	12	0.31	0.48	92.6					
06/29/69	1.96	3768	1654	331	662	0	980	141	0.42	1.13	86.2					
06/30/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A					
07/02/69	0.31	333.3	201	40	81	0	10	1	0.24	0.24	95.7					
07/04/69	0.04	23.88	15	3	6	0	0	0	0.13	0.03	99.2					
07/10/69	0.47	583.0	343	69	137	0	29	5	0.27	0.34	94.3					
07/11/69	0.07	47.21	30	6	12	0	0	0	0.15	0.06	98.7					
07/16/69	0.52	675.6	396	79	159	0	35	6	0.29	0.37	94.0					
07/17/69	0.85	1234	702	140	281	0	92	19	0.32	0.58	91.4					
07/17/69	1.44	2174	1202	240	481	0	195	55	0.33	0.96	86.6					
07/18/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A					
07/23/69	0.11	96.96	61	12	24	0	0	0	0.19	0.09	98.2					
07/26/69	1.37	2063	1144	229	458	0	184	48	0.33	0.92	87.2					
07/27/69	1.38	2079	1152	230	461	0	186	49	0.33	0.92	87.1					
07/31/69	0.04	23.88	15	3	6	0	0	0	0.13	0.03	99.2					
08/04/69	0.03	0	0	0	0	0	0	0	0.00	0.03	N/A					
08/07/69	0.10	82.24	51	10	21	0	0	0	0.18	0.08	98.3					
08/09/69	0.08	56.35	35	7	14	0	0	0	0.16	0.07	98.5					

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb																
08/16/69	0.32	346.9	209	42	84	0	11	2	0.24	0.24	95.6					
09/04/69	0.36	403.3	241	48	96	0	16	2	0.25	0.27	95.2					
09/05/69	0.74	1060	608	122	243	0	74	14	0.32	0.51	92.3					
09/14/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A					
09/15/69	0.03	0	0	0	0	0	0	0	0.00	0.03	N/A					
09/16/69	0.03	0	0	0	0	0	0	0	0.00	0.03	N/A					
09/23/69	0.16	152.4	95	19	38	0	0	0	0.21	0.13	97.6					
09/25/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A					
09/29/69	0.84	1219	694	139	277	0	91	19	0.32	0.57	91.5					
10/06/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A					
10/06/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A					
10/09/69	0.05	31.14	19	4	8	0	0	0	0.14	0.04	99.0					
10/10/69	0.14	131.8	82	16	33	0	0	0	0.21	0.11	97.8					
10/10/69	1.34	2015	1119	224	448	0	180	46	0.33	0.90	87.4					
10/12/69	1.63	2567	1363	273	545	0	308	78	0.35	1.06	85.7					
10/15/69	0.16	152.4	95	19	38	0	0	0	0.21	0.13	97.6					
10/19/69	0.44	530.3	313	63	125	0	26	4	0.27	0.32	94.5					
10/19/69	0.35	388.9	233	47	93	0	15	2	0.24	0.26	95.3					
10/21/69	0.02	0	0	0	0	0	0	0	0.00	0.02	N/A					
10/24/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A					
10/30/69	0.32	346.9	209	42	84	0	11	2	0.24	0.24	95.6					
11/02/69	0.77	1111	635	127	254	0	80	16	0.32	0.53	92.1					
11/11/69	0.05	31.14	19	4	8	0	0	0	0.14	0.04	99.0					
11/11/69	0.04	23.88	15	3	6	0	0	0	0.13	0.03	99.2					
11/13/69	0.03	0	0	0	0	0	0	0	0.00	0.03	N/A					
11/17/69	0.15	142.0	89	18	36	0	0	0	0.21	0.12	97.7					
11/18/69	0.02	0	0	0	0	0	0	0	0.00	0.02	N/A					
11/19/69	0.01	0	0	0	0	0	0	0	0.00	0.01	N/A					
11/26/69	0.07	47.21	30	6	12	0	0	0	0.15	0.06	98.7					
12/07/69	-	-	-	-	-	-	-	-	-	-	-					
12/11/69	-	-	-	-	-	-	-	-	-	-	-					
12/16/69	-	-	-	-	-	-	-	-	-	-	-					
12/21/69	-	-	-	-	-	-	-	-	-	-	-					
12/23/69	-	-	-	-	-	-	-	-	-	-	-					
12/24/69	-	-	-	-	-	-	-	-	-	-	-					
12/24/69	-	-	-	-	-	-	-	-	-	-	-					
12/27/69	-	-	-	-	-	-	-	-	-	-	-					
12/28/69	-	-	-	-	-	-	-	-	-	-	-					
12/31/69	-	-	-	-	-	-	-	-	-	-	-					
Summary for All Events																
	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undevelope d Areas 1	Undevelope d Areas 2	Rv	Total Losses (in.)	Calculated CN*					
Minimum:	0.00	0	0	0	0	0	0	0	0.00	0.00	0.0					
Maximum:	1.96	3768	1654	331	662	0	980	141	0.42	1.13	99.2					
Average:	0.26	356	198	40	79	0	33	7	0.32	0.69	90.2					
Total:	30.28	41271	22953	4593	9188	0	3770	770.0		21.14						

Data File: C:\Users\carltonsm\OneDrive - CI									
Rain File: WisReg - Milwaukee WI 1969.RAI									
Date: 01-23-24 Time: 6:33:20 PM									
Site Description: Cedar Creek BMP Site									
Residential: Suburban Residential (South) A									
Start Date	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undeveloped Areas 1	Undeveloped Areas 2	Isolated Areas	Rv	Total Losses (in.)	Calculated CN*
01/05/69	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-
03/20/69	0.18	624.4	0	0	0	0	0.35	0.12	98.2
03/20/69	0.04	85.10	0	0	0	0	0.21	0.03	99.4
03/21/69	0.08	204.7	0	0	0	0	0.26	0.06	98.9
03/24/69	0.64	3089	20	19	46	0	0.48	0.33	95.8
03/28/69	0.08	204.7	0	0	0	0	0.26	0.06	98.9
04/01/69	0.29	1090	2	3	5	0	0.38	0.18	97.3
04/04/69	0.43	1794	8	9	19	0	0.42	0.25	96.6
04/08/69	0.71	3476	26	24	59	0	0.49	0.36	95.5
04/14/69	0.52	2346	12	13	28	0	0.45	0.28	96.3
04/16/69	0.10	296.0	0	0	0	0	0.30	0.07	98.8
04/16/69	1.26	6497	78	60	178	0	0.52	0.61	92.8
04/21/69	0.04	85.10	0	0	0	0	0.21	0.03	99.4
04/27/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A
04/28/69	0.06	140.2	0	0	0	0	0.23	0.05	99.1
05/01/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A
05/05/69	0.18	624.4	0	0	0	0	0.35	0.12	98.2
05/06/69	0.02	1.890	0	0	0	0	0.01	0.02	99.2
05/06/69	0.06	140.2	0	0	0	0	0.23	0.05	99.1
05/08/69	0.26	956.1	1	2	3	0	0.37	0.16	97.6
05/08/69	0.22	785.5	0	0	1	0	0.36	0.14	97.9
05/10/69	0.02	1.890	0	0	0	0	0.01	0.02	99.2
05/13/69	0.18	624.4	0	0	0	0	0.35	0.12	98.2
05/17/69	1.33	6894	89	64	206	0	0.52	0.64	92.5
05/20/69	0.03	4.253	0	0	0	0	0.01	0.03	98.9
05/21/69	0.55	2544	14	14	32	0	0.46	0.30	96.2
05/24/69	0.06	140.2	0	0	0	0	0.23	0.05	99.1
05/26/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A
05/31/69	0.12	399.4	0	0	0	0	0.33	0.08	98.7

Data File: C:\Users\carltonsm\OneDrive - CI										
06/01/69	0.04	85.10	0	0	0	0	0.21	0.03	99.4	
06/02/69	0.05	111.6	0	0	0	0	0.22	0.04	99.3	
06/03/69	0.02	1.890	0	0	0	0	0.01	0.02	99.2	
06/04/69	0.40	1623	7	8	16	0	0.41	0.24	96.7	
06/06/69	0.09	248.4	0	0	0	0	0.28	0.07	98.9	
06/07/69	0.83	4136	36	32	84	0	0.50	0.42	94.9	
06/11/69	0.07	170.9	0	0	0	0	0.24	0.05	99.0	
06/11/69	0.03	4.253	0	0	0	0	0.01	0.03	98.9	
06/12/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A	
06/12/69	0.24	869.7	1	1	2	0	0.36	0.15	97.7	
06/17/69	0.36	1420	5	6	11	0	0.40	0.22	96.9	
06/18/69	0.16	547.5	0	0	0	0	0.34	0.11	98.4	
06/19/69	0.09	248.4	0	0	0	0	0.28	0.07	98.9	
06/21/69	0.02	1.890	0	0	0	0	0.01	0.02	99.2	
06/22/69	0.36	1420	5	6	11	0	0.40	0.22	96.9	
06/22/69	0.05	111.6	0	0	0	0	0.22	0.04	99.3	
06/25/69	1.68	9115	172	142	397	0	0.54	0.77	91.4	
06/27/69	0.68	3309	23	22	53	0	0.49	0.35	95.6	
06/29/69	0.70	3420	25	23	57	0	0.49	0.36	95.5	
06/29/69	1.96	11410	282	350	649	0	0.58	0.82	91.2	
06/30/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A	
07/02/69	0.31	1181	3	3	7	0	0.38	0.19	97.2	
07/04/69	0.04	85.10	0	0	0	0	0.21	0.03	99.4	
07/10/69	0.47	2032	10	10	23	0	0.43	0.27	96.4	
07/11/69	0.07	170.9	0	0	0	0	0.24	0.05	99.0	
07/16/69	0.52	2346	12	13	28	0	0.45	0.28	96.3	
07/17/69	0.85	4240	38	33	87	0	0.50	0.43	94.8	
07/17/69	1.44	7525	110	70	252	0	0.52	0.69	92.1	
07/18/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A	
07/23/69	0.11	347.7	0	0	0	0	0.32	0.08	98.8	
07/26/69	1.37	7122	97	66	222	0	0.52	0.66	92.3	
07/27/69	1.38	7179	98	66	226	0	0.52	0.66	92.3	
07/31/69	0.04	85.10	0	0	0	0	0.21	0.03	99.4	
08/04/69	0.03	4.253	0	0	0	0	0.01	0.03	98.9	
08/07/69	0.10	296.0	0	0	0	0	0.30	0.07	98.8	
08/09/69	0.08	204.7	0	0	0	0	0.26	0.06	98.9	
08/16/69	0.32	1228	3	4	8	0	0.38	0.20	97.1	
09/04/69	0.36	1420	5	6	11	0	0.40	0.22	96.9	
09/05/69	0.74	3644	29	26	66	0	0.49	0.37	95.3	
09/14/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A	
09/15/69	0.03	4.253	0	0	0	0	0.01	0.03	98.9	
09/16/69	0.03	4.253	0	0	0	0	0.01	0.03	98.9	
09/23/69	0.16	547.5	0	0	0	0	0.34	0.11	98.4	
09/25/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A	
09/29/69	0.84	4188	37	32	85	0	0.50	0.42	94.8	
10/06/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A	
10/06/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A	
10/09/69	0.05	111.6	0	0	0	0	0.22	0.04	99.3	
10/10/69	0.14	472.6	0	0	0	0	0.34	0.09	98.5	

10/10/69	1.34	6951	91	64	210	0	0.52	0.64	92.5
10/12/69	1.63	8729	155	110	357	0	0.54	0.76	91.4
10/15/69	0.16	547.5	0	0	0	0	0.34	0.11	98.4
10/19/69	0.44	1852	8	9	19	0	0.42	0.25	96.5
10/19/69	0.35	1371	5	5	10	0	0.39	0.21	97.0
10/21/69	0.02	1.890	0	0	0	0	0.01	0.02	99.2
10/24/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A
10/30/69	0.32	1228	3	4	8	0	0.38	0.20	97.1
11/02/69	0.77	3815	31	29	72	0	0.50	0.39	95.2
11/11/69	0.05	111.6	0	0	0	0	0.22	0.04	99.3
11/11/69	0.04	85.10	0	0	0	0	0.21	0.03	99.4
11/13/69	0.03	4.253	0	0	0	0	0.01	0.03	98.9
11/17/69	0.15	509.8	0	0	0	0	0.34	0.10	98.5
11/18/69	0.02	1.890	0	0	0	0	0.01	0.02	99.2
11/19/69	0.01	0.4725	0	0	0	0	0.00	0.01	N/A
11/26/69	0.07	170.9	0	0	0	0	0.24	0.05	99.0
12/07/69	-	-	-	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-
Summary for All Events									
	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undevelope d Areas 1	Undevelope d Areas 2	Isolated Areas	Rv	Total Losses (in.)	Calculated CN*
Minimum:	0.00	0	0	0	0	0	0.00	0.00	0.0
Maximum:	1.96	11410	282	350	649	0	0.58	0.82	99.4
Average:	0.26	1217	13	12	31	0	0.49	0.50	94.1
Total:	30.28	141126	1541	1348	3548	0		16.20	
Residential: Suburban Residential (North) A									
Start Date	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	Rv	Total Losses (in.)	Calculated CN*	
01/05/69	-	-	-	-	-	-	-	-	
01/06/69	-	-	-	-	-	-	-	-	
01/08/69	-	-	-	-	-	-	-	-	
01/15/69	-	-	-	-	-	-	-	-	
01/17/69	-	-	-	-	-	-	-	-	
01/23/69	-	-	-	-	-	-	-	-	
01/24/69	-	-	-	-	-	-	-	-	
01/28/69	-	-	-	-	-	-	-	-	
01/29/69	-	-	-	-	-	-	-	-	
02/06/69	-	-	-	-	-	-	-	-	

Data File: C:\Users\carltonsm\OneDrive - CI									
02/06/69	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-
03/20/69	0.18	866.6	0	0	0	0.33	0.12	98.1	
03/20/69	0.04	113.3	0	0	0	0.20	0.03	99.3	
03/21/69	0.08	283.1	0	0	0	0.24	0.06	98.9	
03/24/69	0.64	4233	69	10	0	0.46	0.35	95.5	
03/28/69	0.08	283.1	0	0	0	0.24	0.06	98.9	
04/01/69	0.29	1509	9	1	0	0.36	0.19	97.2	
04/04/69	0.43	2474	32	4	0	0.40	0.26	96.3	
04/08/69	0.71	4753	86	13	0	0.46	0.38	95.1	
04/14/69	0.52	3226	45	6	0	0.43	0.30	96.0	
04/16/69	0.10	410.1	0	0	0	0.28	0.07	98.8	
04/16/69	1.26	8812	216	39	0	0.48	0.65	92.1	
04/21/69	0.04	113.3	0	0	0	0.20	0.03	99.3	
04/27/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
04/28/69	0.06	190.7	0	0	0	0.22	0.05	99.1	
05/01/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
05/05/69	0.18	866.6	0	0	0	0.33	0.12	98.1	
05/06/69	0.02	0.5348	0	0	0	0.00	0.02	N/A	
05/06/69	0.06	190.7	0	0	0	0.22	0.05	99.1	
05/08/69	0.26	1325	6	1	0	0.35	0.17	97.4	
05/08/69	0.22	1090	2	0	0	0.34	0.14	97.8	
05/10/69	0.02	0.5348	0	0	0	0.00	0.02	N/A	
05/13/69	0.18	866.6	0	0	0	0.33	0.12	98.1	
05/17/69	1.33	9326	229	45	0	0.48	0.69	91.7	
05/20/69	0.03	1.203	0	0	0	0.00	0.03	N/A	
05/21/69	0.55	3494	51	7	0	0.44	0.31	95.9	
05/24/69	0.06	190.7	0	0	0	0.22	0.05	99.1	
05/26/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
05/31/69	0.12	553.9	0	0	0	0.32	0.08	98.7	
06/01/69	0.04	113.3	0	0	0	0.20	0.03	99.3	
06/02/69	0.05	150.2	0	0	0	0.21	0.04	99.2	
06/03/69	0.02	0.5348	0	0	0	0.00	0.02	N/A	
06/04/69	0.40	2242	28	3	0	0.39	0.25	96.5	
06/06/69	0.09	343.8	0	0	0	0.26	0.07	98.8	
06/07/69	0.83	5640	115	18	0	0.47	0.44	94.4	
06/11/69	0.07	234.6	0	0	0	0.23	0.05	99.0	
06/11/69	0.03	1.203	0	0	0	0.00	0.03	N/A	
06/12/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
06/12/69	0.24	1206	4	0	0	0.35	0.16	97.6	
06/17/69	0.36	1963	20	2	0	0.38	0.22	96.7	
06/18/69	0.16	759.7	0	0	0	0.33	0.11	98.3	
06/19/69	0.09	343.8	0	0	0	0.26	0.07	98.8	
06/21/69	0.02	0.5348	0	0	0	0.00	0.02	N/A	
06/22/69	0.36	1963	20	2	0	0.38	0.22	96.7	
06/22/69	0.05	150.2	0	0	0	0.21	0.04	99.2	
06/25/69	1.68	12247	510	86	0	0.50	0.84	90.3	
06/27/69	0.68	4529	79	12	0	0.46	0.37	95.2	

Data File: C:\Users\carltonsm\OneDrive - CI									
06/29/69	0.70	4678	84	12	0	0.46	0.38	95.1	
06/29/69	1.96	15400	1260	141	0	0.54	0.90	90.0	
06/30/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
07/02/69	0.31	1635	12	1	0	0.36	0.20	97.1	
07/04/69	0.04	113.3	0	0	0	0.20	0.03	99.3	
07/10/69	0.47	2798	38	5	0	0.41	0.28	96.2	
07/11/69	0.07	234.6	0	0	0	0.23	0.05	99.0	
07/16/69	0.52	3226	45	6	0	0.43	0.30	96.0	
07/17/69	0.85	5780	118	19	0	0.47	0.45	94.3	
07/17/69	1.44	10140	251	55	0	0.48	0.74	91.1	
07/18/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
07/23/69	0.11	482.0	0	0	0	0.30	0.08	98.7	
07/26/69	1.37	9621	237	48	0	0.48	0.71	91.5	
07/27/69	1.38	9695	239	49	0	0.48	0.71	91.4	
07/31/69	0.04	113.3	0	0	0	0.20	0.03	99.3	
08/04/69	0.03	1.203	0	0	0	0.00	0.03	N/A	
08/07/69	0.10	410.1	0	0	0	0.28	0.07	98.8	
08/09/69	0.08	283.1	0	0	0	0.24	0.06	98.9	
08/16/69	0.32	1699	14	2	0	0.37	0.20	97.0	
09/04/69	0.36	1963	20	2	0	0.38	0.22	96.7	
09/05/69	0.74	4980	95	14	0	0.46	0.40	94.9	
09/14/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
09/15/69	0.03	1.203	0	0	0	0.00	0.03	N/A	
09/16/69	0.03	1.203	0	0	0	0.00	0.03	N/A	
09/23/69	0.16	759.7	0	0	0	0.33	0.11	98.3	
09/25/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
09/29/69	0.84	5710	117	19	0	0.47	0.45	94.4	
10/06/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
10/06/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
10/09/69	0.05	150.2	0	0	0	0.21	0.04	99.2	
10/10/69	0.14	655.5	0	0	0	0.32	0.09	98.5	
10/10/69	1.34	9400	231	46	0	0.48	0.69	91.6	
10/12/69	1.63	11718	397	78	0	0.50	0.82	90.3	
10/15/69	0.16	759.7	0	0	0	0.33	0.11	98.3	
10/19/69	0.44	2554	33	4	0	0.40	0.26	96.3	
10/19/69	0.35	1896	19	2	0	0.37	0.22	96.8	
10/21/69	0.02	0.5348	0	0	0	0.00	0.02	N/A	
10/24/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
10/30/69	0.32	1699	14	2	0	0.37	0.20	97.0	
11/02/69	0.77	5209	103	16	0	0.47	0.41	94.8	
11/11/69	0.05	150.2	0	0	0	0.21	0.04	99.2	
11/11/69	0.04	113.3	0	0	0	0.20	0.03	99.3	
11/13/69	0.03	1.203	0	0	0	0.00	0.03	N/A	
11/17/69	0.15	707.3	0	0	0	0.32	0.10	98.4	
11/18/69	0.02	0.5348	0	0	0	0.00	0.02	N/A	
11/19/69	0.01	0.1337	0	0	0	0.00	0.01	N/A	
11/26/69	0.07	234.6	0	0	0	0.23	0.05	99.0	
12/07/69	-	-	-	-	-	-	-	-	
12/11/69	-	-	-	-	-	-	-	-	

Data File: C:\Users\carltonsm\OneDrive - CI									
12/16/69	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-
Summary for All Events									
	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	Rv	Total Losses (in.)	Calculated CN*	
Minimum:	0.00	0	0	0	0	0.00	0.00	0.0	
Maximum:	1.96	15400	1260	141	0	0.54	0.90	99.3	
Average:	0.26	1655	42	7	0	0.45	0.53	93.5	
Total:	30.28	192036	4848	770.0	0		17.04		
Industrial: Light Industrial Areas - Runoff Vol									
Start Date	Rain Total (in.)	Land Use Totals							
01/05/69	-	-							
01/06/69	-	-							
01/08/69	-	-							
01/15/69	-	-							
01/17/69	-	-							
01/23/69	-	-							
01/24/69	-	-							
01/28/69	-	-							
01/29/69	-	-							
02/06/69	-	-							
02/06/69	-	-							
02/22/69	-	-							
03/06/69	-	-							
03/20/69	0.18	173.4							
03/20/69	0.04	23.88							
03/21/69	0.08	56.35							
03/24/69	0.64	895.4							
03/28/69	0.08	56.35							
04/01/69	0.29	306.5							
04/04/69	0.43	513.2							
04/08/69	0.71	1010							
04/14/69	0.52	675.6							
04/16/69	0.10	82.24							
04/16/69	1.26	1890							
04/21/69	0.04	23.88							
04/27/69	0.01	0							
04/28/69	0.06	38.91							
05/01/69	0.01	0							

Data File: C:\Users\carltonsm\OneDrive - CI									
05/05/69	0.18	173.4							
05/06/69	0.02	0							
05/06/69	0.06	38.91							
05/08/69	0.26	267.8							
05/08/69	0.22	218.6							
05/10/69	0.02	0							
05/13/69	0.18	173.4							
05/17/69	1.33	2000							
05/20/69	0.03	0							
05/21/69	0.55	734.0							
05/24/69	0.06	38.91							
05/26/69	0.01	0							
05/31/69	0.12	111.6							
06/01/69	0.04	23.88							
06/02/69	0.05	31.14							
06/03/69	0.02	0							
06/04/69	0.40	463.2							
06/06/69	0.09	68.71							
06/07/69	0.83	1204							
06/11/69	0.07	47.21							
06/11/69	0.03	0							
06/12/69	0.01	0							
06/12/69	0.24	242.8							
06/17/69	0.36	403.3							
06/18/69	0.16	152.4							
06/19/69	0.09	68.71							
06/21/69	0.02	0							
06/22/69	0.36	403.3							
06/22/69	0.05	31.14							
06/25/69	1.68	2734							
06/27/69	0.68	960.6							
06/29/69	0.70	993.6							
06/29/69	1.96	3768							
06/30/69	0.01	0							
07/02/69	0.31	333.3							
07/04/69	0.04	23.88							
07/10/69	0.47	583.0							
07/11/69	0.07	47.21							
07/16/69	0.52	675.6							
07/17/69	0.85	1234							
07/17/69	1.44	2174							
07/18/69	0.01	0							
07/23/69	0.11	96.96							
07/26/69	1.37	2063							
07/27/69	1.38	2079							
07/31/69	0.04	23.88							
08/04/69	0.03	0							
08/07/69	0.10	82.24							
08/09/69	0.08	56.35							

Data File: C:\Users\carltonsm\OneDrive - CI									
08/16/69	0.32	346.9							
09/04/69	0.36	403.3							
09/05/69	0.74	1060							
09/14/69	0.01	0							
09/15/69	0.03	0							
09/16/69	0.03	0							
09/23/69	0.16	152.4							
09/25/69	0.01	0							
09/29/69	0.84	1219							
10/06/69	0.01	0							
10/06/69	0.01	0							
10/09/69	0.05	31.14							
10/10/69	0.14	131.8							
10/10/69	1.34	2015							
10/12/69	1.63	2567							
10/15/69	0.16	152.4							
10/19/69	0.44	530.3							
10/19/69	0.35	388.9							
10/21/69	0.02	0							
10/24/69	0.01	0							
10/30/69	0.32	346.9							
11/02/69	0.77	1111							
11/11/69	0.05	31.14							
11/11/69	0.04	23.88							
11/13/69	0.03	0							
11/17/69	0.15	142.0							
11/18/69	0.02	0							
11/19/69	0.01	0							
11/26/69	0.07	47.21							
12/07/69	-	-							
12/11/69	-	-							
12/16/69	-	-							
12/21/69	-	-							
12/23/69	-	-							
12/24/69	-	-							
12/24/69	-	-							
12/27/69	-	-							
12/28/69	-	-							
12/31/69	-	-							
Summary for All Events									
	Rain Total (in.)	Land Use Totals							
Minimum:	0.00	0							
Maximum:	1.96	3768							
Average:	0.26	356							
Total:	30.28	41271							

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
Rain File: WisReg - Milwaukee WI 1969.RAN															
Date: 01-23-24 Time: 6:33:22 PM															
Site Description: Cedar Creek BMP Site															
Residential: Suburban Residential (South) Areas - Pollutant Concentration: Filterable Solids (mg/l															
Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
03/20/69	0.18	77.35	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
03/20/69	0.04	77.85	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
03/21/69	0.08	77.32	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
03/24/69	0.64	79.93	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
03/28/69	0.08	77.32	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
04/01/69	0.29	78.19	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
04/04/69	0.43	79.15	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
04/08/69	0.71	80.27	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
04/14/69	0.52	79.47	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
04/16/69	0.10	77.37	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
04/16/69	1.26	81.76	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
04/21/69	0.04	77.85	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
04/27/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
04/28/69	0.06	77.55	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
05/01/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
05/05/69	0.18	77.35	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
05/06/69	0.02	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
05/06/69	0.06	77.55	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
05/08/69	0.26	77.93	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
05/08/69	0.22	77.56	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
05/10/69	0.02	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
05/13/69	0.18	77.35	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
05/17/69	1.33	82.04	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
05/20/69	0.03	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
05/21/69	0.55	79.56	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
05/24/69	0.06	77.55	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
05/26/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
															Page 98 of 293

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonW\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
05/31/69	0.12	77.40	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
06/01/69	0.04	77.85	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
06/02/69	0.05	77.69	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
06/03/69	0.02	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
06/04/69	0.40	79.03	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
06/06/69	0.09	77.35	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
06/07/69	0.83	80.74	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
06/11/69	0.07	77.42	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
06/11/69	0.03	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
06/12/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
06/12/69	0.24	77.75	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
06/17/69	0.36	78.75	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
06/18/69	0.16	77.37	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
06/19/69	0.09	77.35	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
06/21/69	0.02	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
06/22/69	0.36	78.75	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
06/22/69	0.05	77.69	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
06/25/69	1.68	84.35	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
06/27/69	0.68	80.13	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
06/29/69	0.70	80.22	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
06/29/69	1.96	87.58	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
06/30/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
07/02/69	0.31	78.36	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
07/04/69	0.04	77.85	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
07/10/69	0.47	79.30	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
07/11/69	0.07	77.42	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
07/16/69	0.52	79.47	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
07/17/69	0.85	80.78	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
07/17/69	1.44	82.48	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
07/18/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
07/23/69	0.11	77.39	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
07/26/69	1.37	82.20	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
07/27/69	1.38	82.24	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
07/31/69	0.04	77.85	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
08/04/69	0.03	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
08/07/69	0.10	77.37	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
08/09/69	0.08	77.32	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
08/16/69	0.32	78.44	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
09/04/69	0.36	78.75	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
09/05/69	0.74	80.42	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
09/14/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
09/15/69	0.03	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
09/16/69	0.03	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
09/23/69	0.16	77.37	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	
09/25/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
09/29/69	0.84	80.76	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0	
10/06/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
10/06/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0	
10/09/69	0.05	77.69	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0	

Page 99 of 293

10/10/69	0.14	77.39	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0
10/10/69	1.34	82.08	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0
10/12/69	1.63	83.73	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0
10/15/69	0.16	77.37	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0
10/19/69	0.44	79.19	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0
10/19/69	0.35	78.68	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0
10/21/69	0.02	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0
10/24/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0
10/30/69	0.32	78.44	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0
11/02/69	0.77	80.56	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0
11/11/69	0.05	77.69	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0
11/11/69	0.04	77.85	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0
11/13/69	0.03	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0
11/17/69	0.15	77.38	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0
11/18/69	0.02	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0
11/19/69	0.01	73.29	40.00	0	0	79.00	0	0	79.00	0	0	0	0	0
11/26/69	0.07	77.42	40.00	0	0	79.00	0	0	79.00	0	78.30	78.30	78.30	0
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Summary for Runoff Producing Events

	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	87.58	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0
FI Wt Ave:	N/A	81.49	40.00	40.00	40.00	79.00	79.00	79.00	79.00	79.00	78.30	78.30	78.30	119.0

Residential: Suburban Residential (North) Areas - Pollutant Concentration: Filterable Solids (mg/L

Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	77.59	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
03/20/69	0.04	77.93	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
03/21/69	0.08	77.56	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
03/24/69	0.64	80.05	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
03/28/69	0.08	77.56	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
04/01/69	0.29	78.47	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
04/04/69	0.43	79.45	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
04/08/69	0.71	80.33	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
04/14/69	0.52	79.68	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
04/16/69	0.10	77.60	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
04/16/69	1.26	81.40	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
04/21/69	0.04	77.93	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
04/27/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
04/28/69	0.06	77.72	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
05/01/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
05/05/69	0.18	77.59	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
05/06/69	0.02	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
05/06/69	0.06	77.72	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
05/08/69	0.26	78.20	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
05/08/69	0.22	77.81	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
05/10/69	0.02	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
05/13/69	0.18	77.59	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
05/17/69	1.33	81.47	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
05/20/69	0.03	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
05/21/69	0.55	79.75	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
05/24/69	0.06	77.72	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
05/26/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
05/31/69	0.12	77.63	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
06/01/69	0.04	77.93	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
06/02/69	0.05	77.82	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
06/03/69	0.02	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
06/04/69	0.40	79.36	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
06/06/69	0.09	77.58	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
06/07/69	0.83	80.69	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
06/11/69	0.07	77.63	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
06/11/69	0.03	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
06/12/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
06/12/69	0.24	78.01	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
06/17/69	0.36	79.07	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
06/18/69	0.16	77.60	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
06/19/69	0.09	77.58	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
06/21/69	0.02	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
06/22/69	0.36	79.07	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
06/22/69	0.05	77.82	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
06/25/69	1.68	83.73	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
06/27/69	0.68	80.21	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
06/29/69	0.70	80.29	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
06/29/69	1.96	88.55	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
06/30/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
07/02/69	0.31	78.65	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
07/04/69	0.04	77.93	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
07/10/69	0.47	79.55	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
07/11/69	0.07	77.63	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
07/16/69	0.52	79.68	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
07/17/69	0.85	80.71	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
07/17/69	1.44	81.58	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
07/18/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
07/23/69	0.11	77.62	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
07/26/69	1.37	81.51	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
07/27/69	1.38	81.52	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
07/31/69	0.04	77.93	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
08/04/69	0.03	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
08/07/69	0.10	77.60	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
08/09/69	0.08	77.56	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
08/16/69	0.32	78.74	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
09/04/69	0.36	79.07	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
09/05/69	0.74	80.46	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
09/14/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
09/15/69	0.03	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
09/16/69	0.03	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
09/23/69	0.16	77.60	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
09/25/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
09/29/69	0.84	80.70	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
10/06/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
10/06/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
10/09/69	0.05	77.82	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
10/10/69	0.14	77.61	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
10/10/69	1.34	81.48	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
10/12/69	1.63	82.79	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
10/15/69	0.16	77.60	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
10/19/69	0.44	79.47	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
10/19/69	0.35	78.99	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
10/21/69	0.02	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
10/24/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
10/30/69	0.32	78.74	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
11/02/69	0.77	80.58	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
11/11/69	0.05	77.82	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
11/11/69	0.04	77.93	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
11/13/69	0.03	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
11/17/69	0.15	77.61	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
11/18/69	0.02	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
11/19/69	0.01	58.83	40.00	0	0	79.00	0	0	0	0	0	0	0	0
11/26/69	0.07	77.63	40.00	0	0	79.00	0	78.30	78.30	78.30	0	0	0	0
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonW\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Summary for Runoff Producing Events														
	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	88.55	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
FI Wt Ave:	N/A	81.33	40.00	40.00	40.00	79.00	79.00	78.30	78.30	78.30	119.0	119.0	119.0	185.9
Industrial: Light Industrial Areas - Pollutant Concentration: Filterable Solids (mg/L)														
Start Date	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undevelope d Areas 1	Undevelope d Areas 2						
01/05/69	-	-	-	-	-	-	-	-						
01/06/69	-	-	-	-	-	-	-	-						
01/08/69	-	-	-	-	-	-	-	-						
01/15/69	-	-	-	-	-	-	-	-						
01/17/69	-	-	-	-	-	-	-	-						
01/23/69	-	-	-	-	-	-	-	-						
01/24/69	-	-	-	-	-	-	-	-						
01/28/69	-	-	-	-	-	-	-	-						
01/29/69	-	-	-	-	-	-	-	-						
02/06/69	-	-	-	-	-	-	-	-						
02/06/69	-	-	-	-	-	-	-	-						
02/22/69	-	-	-	-	-	-	-	-						
03/06/69	-	-	-	-	-	-	-	-						
03/20/69	0.18	115.0	115.0	115.0	115.0	0	0	0						
03/20/69	0.04	115.0	115.0	115.0	115.0	0	0	0						
03/21/69	0.08	115.0	115.0	115.0	115.0	0	0	0						
03/24/69	0.64	120.0	115.0	115.0	115.0	0	185.9	185.9						
03/28/69	0.08	115.0	115.0	115.0	115.0	0	0	0						
04/01/69	0.29	117.0	115.0	115.0	115.0	0	185.9	185.9						
04/04/69	0.43	119.0	115.0	115.0	115.0	0	185.9	185.9						
04/08/69	0.71	120.6	115.0	115.0	115.0	0	185.9	185.9						
04/14/69	0.52	119.4	115.0	115.0	115.0	0	185.9	185.9						
04/16/69	0.10	115.0	115.0	115.0	115.0	0	0	0						
04/16/69	1.26	122.8	115.0	115.0	115.0	0	185.9	185.9						
04/21/69	0.04	115.0	115.0	115.0	115.0	0	0	0						
04/27/69	0.01	0	0	0	0	0	0	0						
04/28/69	0.06	115.0	115.0	115.0	115.0	0	0	0						

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
05/01/69	0.01	0	0	0	0	0	0	0							
05/05/69	0.18	115.0	115.0	115.0	115.0	0	0	0							
05/06/69	0.02	0	0	0	0	0	0	0							
05/06/69	0.06	115.0	115.0	115.0	115.0	0	0	0							
05/08/69	0.26	116.4	115.0	115.0	115.0	0	185.9	185.9							
05/08/69	0.22	115.5	115.0	115.0	115.0	0	185.9	185.9							
05/10/69	0.02	0	0	0	0	0	0	0							
05/13/69	0.18	115.0	115.0	115.0	115.0	0	0	0							
05/17/69	1.33	122.9	115.0	115.0	115.0	0	185.9	185.9							
05/20/69	0.03	0	0	0	0	0	0	0							
05/21/69	0.55	119.5	115.0	115.0	115.0	0	185.9	185.9							
05/24/69	0.06	115.0	115.0	115.0	115.0	0	0	0							
05/26/69	0.01	0	0	0	0	0	0	0							
05/31/69	0.12	115.0	115.0	115.0	115.0	0	0	0							
06/01/69	0.04	115.0	115.0	115.0	115.0	0	0	0							
06/02/69	0.05	115.0	115.0	115.0	115.0	0	0	0							
06/03/69	0.02	0	0	0	0	0	0	0							
06/04/69	0.40	118.8	115.0	115.0	115.0	0	185.9	185.9							
06/06/69	0.09	115.0	115.0	115.0	115.0	0	0	0							
06/07/69	0.83	121.3	115.0	115.0	115.0	0	185.9	185.9							
06/11/69	0.07	115.0	115.0	115.0	115.0	0	0	0							
06/11/69	0.03	0	0	0	0	0	0	0							
06/12/69	0.01	0	0	0	0	0	0	0							
06/12/69	0.24	115.9	115.0	115.0	115.0	0	185.9	185.9							
06/17/69	0.36	118.2	115.0	115.0	115.0	0	185.9	185.9							
06/18/69	0.16	115.0	115.0	115.0	115.0	0	0	0							
06/19/69	0.09	115.0	115.0	115.0	115.0	0	0	0							
06/21/69	0.02	0	0	0	0	0	0	0							
06/22/69	0.36	118.2	115.0	115.0	115.0	0	185.9	185.9							
06/22/69	0.05	115.0	115.0	115.0	115.0	0	0	0							
06/25/69	1.68	127.5	115.0	115.0	115.0	0	185.9	185.9							
06/27/69	0.68	120.4	115.0	115.0	115.0	0	185.9	185.9							
06/29/69	0.70	120.5	115.0	115.0	115.0	0	185.9	185.9							
06/29/69	1.96	136.1	115.0	115.0	115.0	0	185.9	185.9							
06/30/69	0.01	0	0	0	0	0	0	0							
07/02/69	0.31	117.3	115.0	115.0	115.0	0	185.9	185.9							
07/04/69	0.04	115.0	115.0	115.0	115.0	0	0	0							
07/10/69	0.47	119.2	115.0	115.0	115.0	0	185.9	185.9							
07/11/69	0.07	115.0	115.0	115.0	115.0	0	0	0							
07/16/69	0.52	119.4	115.0	115.0	115.0	0	185.9	185.9							
07/17/69	0.85	121.4	115.0	115.0	115.0	0	185.9	185.9							
07/17/69	1.44	123.2	115.0	115.0	115.0	0	185.9	185.9							
07/18/69	0.01	0	0	0	0	0	0	0							
07/23/69	0.11	115.0	115.0	115.0	115.0	0	0	0							
07/26/69	1.37	123.0	115.0	115.0	115.0	0	185.9	185.9							
07/27/69	1.38	123.0	115.0	115.0	115.0	0	185.9	185.9							
07/31/69	0.04	115.0	115.0	115.0	115.0	0	0	0							
08/04/69	0.03	0	0	0	0	0	0	0							
08/07/69	0.10	115.0	115.0	115.0	115.0	0	0	0							

08/09/69	0.08	115.0	115.0	115.0	115.0	0	0	0						
08/16/69	0.32	117.5	115.0	115.0	115.0	0	185.9	185.9						
09/04/69	0.36	118.2	115.0	115.0	115.0	0	185.9	185.9						
09/05/69	0.74	120.9	115.0	115.0	115.0	0	185.9	185.9						
09/14/69	0.01	0	0	0	0	0	0	0						
09/15/69	0.03	0	0	0	0	0	0	0						
09/16/69	0.03	0	0	0	0	0	0	0						
09/23/69	0.16	115.0	115.0	115.0	115.0	0	0	0						
09/25/69	0.01	0	0	0	0	0	0	0						
09/29/69	0.84	121.4	115.0	115.0	115.0	0	185.9	185.9						
10/06/69	0.01	0	0	0	0	0	0	0						
10/06/69	0.01	0	0	0	0	0	0	0						
10/09/69	0.05	115.0	115.0	115.0	115.0	0	0	0						
10/10/69	0.14	115.0	115.0	115.0	115.0	0	0	0						
10/10/69	1.34	122.9	115.0	115.0	115.0	0	185.9	185.9						
10/12/69	1.63	125.7	115.0	115.0	115.0	0	185.9	185.9						
10/15/69	0.16	115.0	115.0	115.0	115.0	0	0	0						
10/19/69	0.44	119.0	115.0	115.0	115.0	0	185.9	185.9						
10/19/69	0.35	118.1	115.0	115.0	115.0	0	185.9	185.9						
10/21/69	0.02	0	0	0	0	0	0	0						
10/24/69	0.01	0	0	0	0	0	0	0						
10/30/69	0.32	117.5	115.0	115.0	115.0	0	185.9	185.9						
11/02/69	0.77	121.1	115.0	115.0	115.0	0	185.9	185.9						
11/11/69	0.05	115.0	115.0	115.0	115.0	0	0	0						
11/11/69	0.04	115.0	115.0	115.0	115.0	0	0	0						
11/13/69	0.03	0	0	0	0	0	0	0						
11/17/69	0.15	115.0	115.0	115.0	115.0	0	0	0						
11/18/69	0.02	0	0	0	0	0	0	0						
11/19/69	0.01	0	0	0	0	0	0	0						
11/26/69	0.07	115.0	115.0	115.0	115.0	0	0	0						
12/07/69	-	-	-	-	-	-	-	-						
12/11/69	-	-	-	-	-	-	-	-						
12/16/69	-	-	-	-	-	-	-	-						
12/21/69	-	-	-	-	-	-	-	-						
12/23/69	-	-	-	-	-	-	-	-						
12/24/69	-	-	-	-	-	-	-	-						
12/24/69	-	-	-	-	-	-	-	-						
12/27/69	-	-	-	-	-	-	-	-						
12/28/69	-	-	-	-	-	-	-	-						
12/31/69	-	-	-	-	-	-	-	-						
Summary for Runoff Producing Events														
	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undevelope d Areas 1	Undevelope d Areas 2						
Minimum:	0.00	0	0	0	0	0	0	0						
Maximum:	1.96	136.1	115.0	115.0	115.0	0	185.9	185.9						
FI Wt Ave:	N/A	122.8	115.0	115.0	115.0	0.0	185.9	185.9						
														Page 105 of

Residential: Suburban Residential (South) Areas - Pollutant Concentration: Total Solids (mg/L)

Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	1970	77.00	0	0	233.0	0	0	154.0	0	2163	2163	2162	0
03/20/69	0.04	1114	77.00	0	0	233.0	0	0	154.0	0	1203	1203	1203	0
03/21/69	0.08	850.3	77.00	0	0	233.0	0	0	154.0	0	929.2	929.0	928.8	0
03/24/69	0.64	765.1	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	847.1	846.9	846.7	346.0
03/28/69	0.08	575.6	77.00	0	0	233.0	0	0	154.0	0	622.2	622.0	621.9	0
04/01/69	0.29	660.7	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	720.3	720.1	720.0	346.0
04/04/69	0.43	432.2	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	466.3	466.2	466.1	346.0
04/08/69	0.71	386.9	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	415.9	415.9	415.8	346.0
04/14/69	0.52	328.4	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	347.5	347.5	347.4	346.0
04/16/69	0.10	263.9	77.00	0	0	233.0	0	0	154.0	0	272.9	272.8	272.8	0
04/16/69	1.26	245.5	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	254.3	254.3	254.2	346.0
04/21/69	0.04	215.0	77.00	0	0	233.0	0	0	154.0	0	216.9	216.8	216.8	0
04/27/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
04/28/69	0.06	225.6	77.00	0	0	233.0	0	0	154.0	0	229.8	229.8	229.8	0
05/01/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
05/05/69	0.18	396.3	77.00	0	0	233.0	0	0	154.0	0	419.7	419.6	419.5	0
05/06/69	0.02	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
05/06/69	0.06	216.3	77.00	0	0	233.0	0	0	154.0	0	219.5	219.4	219.4	0
05/08/69	0.26	312.1	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	327.7	327.6	327.6	346.0
05/08/69	0.22	298.1	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	311.4	311.4	311.3	346.0
05/10/69	0.02	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
05/13/69	0.18	304.0	77.00	0	0	233.0	0	0	154.0	0	317.5	317.4	317.3	0
05/17/69	1.33	211.4	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	213.7	213.6	213.6	346.0
05/20/69	0.03	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
05/21/69	0.55	224.1	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	228.7	228.6	228.6	346.0
05/24/69	0.06	177.0	77.00	0	0	233.0	0	0	154.0	0	175.9	175.9	175.8	0
05/26/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
05/31/69	0.12	226.7	77.00	0	0	233.0	0	0	154.0	0	231.5	231.5	231.4	0
06/01/69	0.04	189.8	77.00	0	0	233.0	0	0	154.0	0	189.1	189.1	189.1	0
06/02/69	0.05	187.5	77.00	0	0	233.0	0	0	154.0	0	187.1	187.1	187.0	0
06/03/69	0.02	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
06/04/69	0.40	227.7	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	233.3	233.2	233.1	0

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
06/06/69	0.09	181.7	77.00	0	0	233.0	233.0	233.0	154.0	0	181.8	181.8	181.7	0
06/07/69	0.83	225.5	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	230.3	230.2	230.2	346.0
06/11/69	0.07	166.1	77.00	0	0	233.0	0	0	154.0	0	164.1	164.1	164.1	0
06/11/69	0.03	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
06/12/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
06/12/69	0.24	247.8	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	255.5	255.5	255.4	346.0
06/17/69	0.36	253.5	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	262.5	262.4	262.4	346.0
06/18/69	0.16	220.3	77.00	0	0	233.0	0	0	154.0	0	224.6	224.6	224.6	0
06/19/69	0.09	160.2	77.00	0	0	233.0	0	0	154.0	0	157.9	157.9	157.9	0
06/21/69	0.02	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
06/22/69	0.36	197.4	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	198.8	198.8	198.7	346.0
06/22/69	0.05	151.0	77.00	0	0	233.0	0	0	154.0	0	146.9	146.9	146.9	0
06/25/69	1.68	173.7	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	166.5	166.5	166.4	346.0
06/27/69	0.68	248.5	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	256.7	256.6	256.6	346.0
06/29/69	0.70	197.3	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	197.8	197.7	197.7	346.0
06/29/69	1.96	156.8	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	140.9	140.9	140.9	346.0
06/30/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
07/02/69	0.31	155.1	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	151.3	151.2	151.2	346.0
07/04/69	0.04	127.3	77.00	0	0	233.0	0	0	154.0	0	120.6	120.6	120.6	0
07/10/69	0.47	207.8	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	210.3	210.3	210.2	346.0
07/11/69	0.07	133.7	77.00	0	0	233.0	0	0	154.0	0	128.0	128.0	128.0	0
07/16/69	0.52	221.7	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	226.0	226.0	226.0	346.0
07/17/69	0.85	197.6	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	197.9	197.9	197.9	346.0
07/17/69	1.44	166.1	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	159.1	159.0	159.0	346.0
07/18/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
07/23/69	0.11	145.4	77.00	0	0	233.0	0	0	154.0	0	141.9	141.9	141.9	0
07/26/69	1.37	235.3	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	242.3	242.2	242.2	346.0
07/27/69	1.38	138.9	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	126.7	126.7	126.7	346.0
07/31/69	0.04	131.8	77.00	0	0	233.0	0	0	154.0	0	125.6	125.5	125.5	0
08/04/69	0.03	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
08/07/69	0.10	159.0	77.00	0	0	233.0	0	0	154.0	0	156.8	156.7	156.7	0
08/09/69	0.08	149.4	77.00	0	0	233.0	0	0	154.0	0	145.7	145.7	145.6	0
08/16/69	0.32	252.7	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	261.4	261.4	261.3	346.0
09/04/69	0.36	291.4	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	305.5	305.4	305.4	346.0
09/05/69	0.74	409.0	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	441.9	441.8	441.7	346.0
09/14/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
09/15/69	0.03	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
09/16/69	0.03	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
09/23/69	0.16	351.0	77.00	0	0	233.0	0	0	154.0	0	369.2	369.1	369.0	0
09/25/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
09/29/69	0.84	334.0	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	356.3	356.2	356.1	346.0
10/06/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
10/06/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
10/09/69	0.05	242.2	77.00	0	0	233.0	0	0	154.0	0	247.5	247.4	247.4	0
10/10/69	0.14	302.5	77.00	0	0	233.0	0	0	154.0	0	315.3	315.2	315.2	0
10/10/69	1.34	221.1	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	225.3	225.3	225.2	346.0
10/12/69	1.63	186.5	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	182.7	182.7	182.7	346.0
10/15/69	0.16	254.0	77.00	0	0	233.0	0	0	154.0	0	261.9	261.9	261.8	0
10/19/69	0.44	215.9	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	219.6	219.6	219.6	0

10/19/69	0.35	208.4	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	211.3	211.3	211.3	346.0
10/21/69	0.02	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
10/24/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
10/30/69	0.32	261.8	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	271.7	271.7	271.6	346.0
11/02/69	0.77	241.9	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	249.2	249.2	249.2	346.0
11/11/69	0.05	199.0	77.00	0	0	233.0	0	0	154.0	0	199.8	199.8	199.8	0
11/11/69	0.04	195.5	77.00	0	0	233.0	0	0	154.0	0	195.4	195.4	195.4	0
11/13/69	0.03	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
11/17/69	0.15	288.7	77.00	0	0	233.0	0	0	154.0	0	300.1	300.1	300.0	0
11/18/69	0.02	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
11/19/69	0.01	196.7	77.00	0	0	233.0	0	0	154.0	0	0	0	0	0
11/26/69	0.07	222.1	77.00	0	0	233.0	0	0	154.0	0	226.5	226.4	226.4	0
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Summary for Runoff Producing Events

	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	1970	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	2163	2163	2162	346.0
FI Wt Ave:	N/A	249.9	77.00	77.00	77.00	233.0	233.0	233.0	154.0	154.0	259.5	259.5	259.4	346.0

Residential: Suburban Residential (North) Areas - Pollutant Concentration: Total Solids (mg/L)

Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	2119	77.00	0	0	233.0	0	2164	2162	2286	0	0		

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
03/20/69	0.04	1246	77.00	0	0	233.0	0	1203	1203	2280	0	0	0	0
03/21/69	0.08	915.1	77.00	0	0	233.0	0	929.4	928.8	1020	0	0	0	0
03/24/69	0.64	832.3	77.00	77.00	77.00	233.0	233.0	847.3	846.7	1070	346.0	346.0	346.0	201.9
03/28/69	0.08	625.0	77.00	0	0	233.0	0	622.3	621.9	792.7	0	0	0	0
04/01/69	0.29	724.0	77.00	77.00	77.00	233.0	233.0	720.4	720.0	976.8	346.0	346.0	346.0	201.9
04/04/69	0.43	471.8	77.00	77.00	77.00	233.0	233.0	466.3	466.1	672.7	346.0	346.0	346.0	201.9
04/08/69	0.71	424.0	77.00	77.00	77.00	233.0	233.0	416.0	415.8	650.8	346.0	346.0	346.0	201.9
04/14/69	0.52	354.5	77.00	77.00	77.00	233.0	233.0	347.6	347.4	517.1	346.0	346.0	346.0	201.9
04/16/69	0.10	288.0	77.00	0	0	233.0	0	272.9	272.8	471.8	0	0	0	0
04/16/69	1.26	257.2	77.00	77.00	77.00	233.0	233.0	254.4	254.2	329.0	346.0	346.0	346.0	201.9
04/21/69	0.04	235.2	77.00	0	0	233.0	0	216.9	216.8	551.2	0	0	0	0
04/27/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
04/28/69	0.06	240.8	77.00	0	0	233.0	0	229.9	229.8	390.7	0	0	0	0
05/01/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
05/05/69	0.18	423.3	77.00	0	0	233.0	0	419.7	419.5	540.3	0	0	0	0
05/06/69	0.02	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
05/06/69	0.06	227.3	77.00	0	0	233.0	0	219.5	219.4	340.0	0	0	0	0
05/08/69	0.26	327.3	77.00	77.00	77.00	233.0	233.0	327.8	327.6	388.0	346.0	346.0	346.0	201.9
05/08/69	0.22	312.3	77.00	77.00	77.00	233.0	233.0	311.5	311.3	374.8	346.0	346.0	346.0	201.9
05/10/69	0.02	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
05/13/69	0.18	319.9	77.00	0	0	233.0	0	317.5	317.3	396.3	0	0	0	0
05/17/69	1.33	213.6	77.00	77.00	77.00	233.0	233.0	213.7	213.6	228.8	346.0	346.0	346.0	201.9
05/20/69	0.03	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
05/21/69	0.55	229.7	77.00	77.00	77.00	233.0	233.0	228.7	228.6	269.6	346.0	346.0	346.0	201.9
05/24/69	0.06	181.9	77.00	0	0	233.0	0	175.9	175.8	260.8	0	0	0	0
05/26/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
05/31/69	0.12	236.3	77.00	0	0	233.0	0	231.5	231.4	313.0	0	0	0	0
06/01/69	0.04	199.8	77.00	0	0	233.0	0	189.2	189.1	383.9	0	0	0	0
06/02/69	0.05	195.1	77.00	0	0	233.0	0	187.1	187.0	313.4	0	0	0	0
06/03/69	0.02	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
06/04/69	0.40	232.5	77.00	77.00	77.00	233.0	233.0	233.3	233.2	257.9	346.0	346.0	346.0	201.9
06/06/69	0.09	184.6	77.00	0	0	233.0	0	181.8	181.7	226.3	0	0	0	0
06/07/69	0.83	230.3	77.00	77.00	77.00	233.0	233.0	230.3	230.2	260.1	346.0	346.0	346.0	201.9
06/11/69	0.07	167.3	77.00	0	0	233.0	0	164.1	164.1	208.5	0	0	0	0
06/11/69	0.03	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
06/12/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
06/12/69	0.24	255.5	77.00	77.00	77.00	233.0	233.0	255.6	255.4	293.1	346.0	346.0	346.0	201.9
06/17/69	0.36	257.6	77.00	77.00	77.00	233.0	233.0	262.5	262.4	257.9	346.0	346.0	346.0	201.9
06/18/69	0.16	227.1	77.00	0	0	233.0	0	224.7	224.6	278.9	0	0	0	0
06/19/69	0.09	160.1	77.00	0	0	233.0	0	157.9	157.9	189.2	0	0	0	0
06/21/69	0.02	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
06/22/69	0.36	199.4	77.00	77.00	77.00	233.0	233.0	198.8	198.7	221.3	346.0	346.0	346.0	201.9
06/22/69	0.05	151.7	77.00	0	0	233.0	0	146.9	146.9	216.3	0	0	0	0
06/25/69	1.68	168.8	77.00	77.00	77.00	233.0	233.0	166.5	166.4	157.8	346.0	346.0	346.0	201.9
06/27/69	0.68	251.7	77.00	77.00	77.00	233.0	233.0	256.7	256.6	246.8	346.0	346.0	346.0	201.9
06/29/69	0.70	198.9	77.00	77.00	77.00	233.0	233.0	197.8	197.7	220.7	346.0	346.0	346.0	201.9
06/29/69	1.96	150.8	77.00	77.00	77.00	233.0	233.0	140.9	140.9	138.3	346.0	346.0	346.0	201.9
06/30/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
07/02/69	0.31	155.1	77.00	77.00	77.00	233.0	233.0	151.3	151.2	188.4	346.0	346.0	346.0	201.9

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
07/04/69	0.04	126.1	77.00	0	0	233.0	0	120.7	120.6	203.4	0	0	0	0
07/10/69	0.47	209.7	77.00	77.00	77.00	233.0	233.0	210.3	210.2	224.2	346.0	346.0	346.0	201.9
07/11/69	0.07	131.6	77.00	0	0	233.0	0	128.0	128.0	166.4	0	0	0	0
07/16/69	0.52	224.7	77.00	77.00	77.00	233.0	233.0	226.1	226.0	239.2	346.0	346.0	346.0	201.9
07/17/69	0.85	200.3	77.00	77.00	77.00	233.0	233.0	198.0	197.9	231.9	346.0	346.0	346.0	201.9
07/17/69	1.44	162.3	77.00	77.00	77.00	233.0	233.0	159.1	159.0	168.3	346.0	346.0	346.0	201.9
07/18/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
07/23/69	0.11	146.1	77.00	0	0	233.0	0	141.9	141.9	192.1	0	0	0	0
07/26/69	1.37	236.1	77.00	77.00	77.00	233.0	233.0	242.3	242.2	215.3	346.0	346.0	346.0	201.9
07/27/69	1.38	134.2	77.00	77.00	77.00	233.0	233.0	126.7	126.7	156.4	346.0	346.0	346.0	201.9
07/31/69	0.04	132.6	77.00	0	0	233.0	0	125.6	125.5	238.0	0	0	0	0
08/04/69	0.03	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
08/07/69	0.10	161.9	77.00	0	0	233.0	0	156.8	156.7	219.7	0	0	0	0
08/09/69	0.08	149.8	77.00	0	0	233.0	0	145.7	145.6	191.8	0	0	0	0
08/16/69	0.32	261.3	77.00	77.00	77.00	233.0	233.0	261.5	261.3	303.0	346.0	346.0	346.0	201.9
09/04/69	0.36	306.3	77.00	77.00	77.00	233.0	233.0	305.5	305.4	378.1	346.0	346.0	346.0	201.9
09/05/69	0.74	420.3	77.00	77.00	77.00	233.0	233.0	442.0	441.7	363.9	346.0	346.0	346.0	201.9
09/14/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
09/15/69	0.03	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
09/16/69	0.03	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
09/23/69	0.16	379.0	77.00	0	0	233.0	0	369.2	369.0	540.1	0	0	0	0
09/25/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
09/29/69	0.84	349.5	77.00	77.00	77.00	233.0	233.0	356.3	356.1	394.2	346.0	346.0	346.0	201.9
10/06/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
10/06/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
10/09/69	0.05	261.4	77.00	0	0	233.0	0	247.5	247.4	475.7	0	0	0	0
10/10/69	0.14	320.8	77.00	0	0	233.0	0	315.3	315.2	427.5	0	0	0	0
10/10/69	1.34	224.8	77.00	77.00	77.00	233.0	233.0	225.3	225.2	244.3	346.0	346.0	346.0	201.9
10/12/69	1.63	184.8	77.00	77.00	77.00	233.0	233.0	182.8	182.7	190.2	346.0	346.0	346.0	201.9
10/15/69	0.16	265.8	77.00	0	0	233.0	0	262.0	261.8	340.6	0	0	0	0
10/19/69	0.44	220.2	77.00	77.00	77.00	233.0	233.0	219.6	219.5	251.0	346.0	346.0	346.0	201.9
10/19/69	0.35	211.8	77.00	77.00	77.00	233.0	233.0	211.4	211.3	237.8	346.0	346.0	346.0	201.9
10/21/69	0.02	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
10/24/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
10/30/69	0.32	271.9	77.00	77.00	77.00	233.0	233.0	271.8	271.6	320.8	346.0	346.0	346.0	201.9
11/02/69	0.77	250.0	77.00	77.00	77.00	233.0	233.0	249.3	249.2	300.3	346.0	346.0	346.0	201.9
11/11/69	0.05	210.1	77.00	0	0	233.0	0	199.9	199.8	362.4	0	0	0	0
11/11/69	0.04	207.4	77.00	0	0	233.0	0	195.4	195.4	414.1	0	0	0	0
11/13/69	0.03	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
11/17/69	0.15	305.7	77.00	0	0	233.0	0	300.2	300.0	408.5	0	0	0	0
11/18/69	0.02	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
11/19/69	0.01	152.3	77.00	0	0	233.0	0	0	0	0	0	0	0	0
11/26/69	0.07	233.3	77.00	0	0	233.0	0	226.5	226.4	328.6	0	0	0	0
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Summary for Runoff Producing Events														
	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	2119	77.00	77.00	77.00	233.0	233.0	2164	2162	2286	346.0	346.0	346.0	201.9
FI Wt Ave:	N/A	257.8	77.00	77.00	77.00	233.0	233.0	259.6	259.4	291.9	346.0	346.0	346.0	201.9
Industrial: Light Industrial Areas - Pollutant Concentration: Total Solids (mg/L)														
Start Date	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undevelope d Areas 1	Undevelope d Areas 2						
01/05/69	-	-	-	-	-	-	-	-						
01/06/69	-	-	-	-	-	-	-	-						
01/08/69	-	-	-	-	-	-	-	-						
01/15/69	-	-	-	-	-	-	-	-						
01/17/69	-	-	-	-	-	-	-	-						
01/23/69	-	-	-	-	-	-	-	-						
01/24/69	-	-	-	-	-	-	-	-						
01/28/69	-	-	-	-	-	-	-	-						
01/29/69	-	-	-	-	-	-	-	-						
02/06/69	-	-	-	-	-	-	-	-						
02/06/69	-	-	-	-	-	-	-	-						
02/22/69	-	-	-	-	-	-	-	-						
03/06/69	-	-	-	-	-	-	-	-						
03/20/69	0.18	7567	7566	7588	7561	0	0	0						
03/20/69	0.04	1077	1077	1079	1076	0	0	0						
03/21/69	0.08	5275	5274	5289	5271	0	0	0						
03/24/69	0.64	1363	1452	1455	1451	0	201.9	201.9						
03/28/69	0.08	3413	3413	3422	3410	0	0	0						
04/01/69	0.29	2098	2152	2158	2150	0	201.9	201.9						
04/04/69	0.43	1145	1201	1204	1200	0	201.9	201.9						
04/08/69	0.71	552.7	582.9	584.2	582.5	0	201.9	201.9						
04/14/69	0.52	625.3	652.9	654.5	652.5	0	201.9	201.9						
04/16/69	0.10	1194	1193	1197	1193	0	0	0						
04/16/69	1.26	259.3	266.3	266.7	266.2	0	201.9	201.9						
04/21/69	0.04	208.8	208.8	209.1	208.7	0	0	0						
04/27/69	0.01	0	0	0	0	0	0	0						
04/28/69	0.06	538.2	538.1	539.3	537.8	0	0	0						
05/01/69	0.01	0	0	0	0	0	0	0						
05/05/69	0.18	978.8	978.7	981.2	978.0	0	0	0						
05/06/69	0.02	0	0	0	0	0	0	0						
05/06/69	0.06	487.0	486.9	488.0	486.7	0	0	0						
05/08/69	0.26	694.6	704.2	705.9	703.8	0	201.9	201.9						

Data File: C:\Users\cartlonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
05/08/69	0.22	685.8	689.3	691.0	688.9	0	201.9	201.9							
05/10/69	0.02	0	0	0	0	0	0	0							
05/13/69	0.18	764.1	764.0	765.8	763.5	0	0	0							
05/17/69	1.33	217.5	219.4	219.7	219.3	0	201.9	201.9							
05/20/69	0.03	0	0	0	0	0	0	0							
05/21/69	0.55	356.2	366.5	367.2	366.3	0	201.9	201.9							
05/24/69	0.06	407.3	407.2	408.1	407.0	0	0	0							
05/26/69	0.01	0	0	0	0	0	0	0							
05/31/69	0.12	888.2	888.1	890.3	887.5	0	0	0							
06/01/69	0.04	187.8	187.8	188.0	187.7	0	0	0							
06/02/69	0.05	316.3	316.2	316.8	316.1	0	0	0							
06/03/69	0.02	0	0	0	0	0	0	0							
06/04/69	0.40	473.9	489.4	490.5	489.1	0	201.9	201.9							
06/06/69	0.09	644.4	644.3	645.9	643.9	0	0	0							
06/07/69	0.83	254.0	259.1	259.5	259.0	0	201.9	201.9							
06/11/69	0.07	470.0	470.0	471.0	469.7	0	0	0							
06/11/69	0.03	0	0	0	0	0	0	0							
06/12/69	0.01	0	0	0	0	0	0	0							
06/12/69	0.24	580.8	585.9	587.2	585.5	0	201.9	201.9							
06/17/69	0.36	590.2	608.7	610.1	608.3	0	201.9	201.9							
06/18/69	0.16	635.0	634.9	636.4	634.6	0	0	0							
06/19/69	0.09	555.7	555.6	556.9	555.3	0	0	0							
06/21/69	0.02	0	0	0	0	0	0	0							
06/22/69	0.36	438.3	449.5	450.5	449.3	0	201.9	201.9							
06/22/69	0.05	260.1	260.1	260.5	260.0	0	0	0							
06/25/69	1.68	195.2	193.7	193.9	193.6	0	201.9	201.9							
06/27/69	0.68	354.4	366.8	367.6	366.7	0	201.9	201.9							
06/29/69	0.70	272.6	278.6	279.0	278.4	0	201.9	201.9							
06/29/69	1.96	181.1	172.3	172.5	172.3	0	201.9	201.9							
06/30/69	0.01	0	0	0	0	0	0	0							
07/02/69	0.31	328.1	332.4	333.0	332.2	0	201.9	201.9							
07/04/69	0.04	149.2	149.2	149.3	149.1	0	0	0							
07/10/69	0.47	428.0	442.0	442.9	441.8	0	201.9	201.9							
07/11/69	0.07	356.6	356.5	357.2	356.4	0	0	0							
07/16/69	0.52	430.7	445.6	446.6	445.4	0	201.9	201.9							
07/17/69	0.85	246.0	250.3	250.7	250.3	0	201.9	201.9							
07/17/69	1.44	194.9	194.0	194.2	193.9	0	201.9	201.9							
07/18/69	0.01	0	0	0	0	0	0	0							
07/23/69	0.11	546.9	546.8	548.0	546.5	0	0	0							
07/26/69	1.37	268.7	277.1	277.6	277.0	0	201.9	201.9							
07/27/69	1.38	167.3	162.9	163.0	162.9	0	201.9	201.9							
07/31/69	0.04	155.1	155.1	155.2	155.0	0	0	0							
08/04/69	0.03	0	0	0	0	0	0	0							
08/07/69	0.10	638.2	638.1	639.6	637.7	0	0	0							
08/09/69	0.08	521.7	521.6	522.8	521.3	0	0	0							
08/16/69	0.32	651.5	668.0	669.7	667.6	0	201.9	201.9							
09/04/69	0.36	645.2	666.3	667.9	665.9	0	201.9	201.9							
09/05/69	0.74	497.4	524.1	525.3	523.8	0	201.9	201.9							
09/14/69	0.01	0	0	0	0	0	0	0							

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
09/15/69	0.03	0	0	0	0	0	0	0							
09/16/69	0.03	0	0	0	0	0	0	0							
09/23/69	0.16	972.0	971.9	974.4	971.3	0	0	0							
09/25/69	0.01	0	0	0	0	0	0	0							
09/29/69	0.84	342.7	356.6	357.3	356.4	0	201.9	201.9							
10/06/69	0.01	0	0	0	0	0	0	0							
10/06/69	0.01	0	0	0	0	0	0	0							
10/09/69	0.05	379.2	379.2	380.0	379.0	0	0	0							
10/10/69	0.14	942.4	942.2	944.6	941.6	0	0	0							
10/10/69	1.34	221.3	223.7	224.0	223.6	0	201.9	201.9							
10/12/69	1.63	195.2	194.0	194.3	194.0	0	201.9	201.9							
10/15/69	0.16	713.4	713.3	715.1	712.9	0	0	0							
10/19/69	0.44	412.0	424.5	425.4	424.3	0	201.9	201.9							
10/19/69	0.35	439.3	450.0	450.9	449.7	0	201.9	201.9							
10/21/69	0.02	0	0	0	0	0	0	0							
10/24/69	0.01	0	0	0	0	0	0	0							
10/30/69	0.32	585.1	599.2	600.6	598.8	0	201.9	201.9							
11/02/69	0.77	284.5	292.2	292.7	292.1	0	201.9	201.9							
11/11/69	0.05	335.1	335.1	335.7	334.9	0	0	0							
11/11/69	0.04	191.7	191.7	191.9	191.6	0	0	0							
11/13/69	0.03	0	0	0	0	0	0	0							
11/17/69	0.15	876.4	876.2	878.4	875.7	0	0	0							
11/18/69	0.02	0	0	0	0	0	0	0							
11/19/69	0.01	0	0	0	0	0	0	0							
11/26/69	0.07	629.9	629.8	631.3	629.4	0	0	0							
12/07/69	-	-	-	-	-	-	-	-							
12/11/69	-	-	-	-	-	-	-	-							
12/16/69	-	-	-	-	-	-	-	-							
12/21/69	-	-	-	-	-	-	-	-							
12/23/69	-	-	-	-	-	-	-	-							
12/24/69	-	-	-	-	-	-	-	-							
12/24/69	-	-	-	-	-	-	-	-							
12/27/69	-	-	-	-	-	-	-	-							
12/28/69	-	-	-	-	-	-	-	-							
12/31/69	-	-	-	-	-	-	-	-							
Summary for Runoff Producing Events															
	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undeveloped Areas 1	Undeveloped Areas 2							
Minimum:	0.00	0	0	0	0	0	0	0							
Maximum:	1.96	7567	7566	7588	7561	0	201.9	201.9							
FI Wt Ave:	N/A	406.1	431.4	432.3	431.1	0.0	201.9	201.9							
Residential: Suburban Residential (South) Areas - Pollutant Concentration: Particulate Phosphorus (mg/L)															
Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-		

01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	4.364	0.1218	0	0	0.3748	0	0	0.1826	0	4.806	4.804	4.803	0
03/20/69	0.04	2.391	0.1218	0	0	0.3748	0	0	0.1826	0	2.593	2.592	2.592	0
03/21/69	0.08	1.784	0.1218	0	0	0.3748	0	0	0.1826	0	1.961	1.961	1.960	0
03/24/69	0.64	1.585	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	1.772	1.772	1.771	1.024
03/28/69	0.08	1.151	0.1218	0	0	0.3748	0	0	0.1826	0	1.254	1.253	1.253	0
04/01/69	0.29	1.346	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	1.480	1.479	1.479	1.024
04/04/69	0.43	0.8189	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.8942	0.8940	0.8938	1.024
04/08/69	0.71	0.7135	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.7783	0.7781	0.7779	1.024
04/14/69	0.52	0.5792	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.6206	0.6204	0.6203	1.024
04/16/69	0.10	0.4321	0.1218	0	0	0.3748	0	0	0.1826	0	0.4485	0.4484	0.4483	0
04/16/69	1.26	0.3867	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.4057	0.4056	0.4055	1.024
04/21/69	0.04	0.3180	0.1218	0	0	0.3748	0	0	0.1826	0	0.3194	0.3193	0.3192	0
04/27/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
04/28/69	0.06	0.3435	0.1218	0	0	0.3748	0	0	0.1826	0	0.3493	0.3492	0.3491	0
05/01/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
05/05/69	0.18	0.7373	0.1218	0	0	0.3748	0	0	0.1826	0	0.7869	0.7866	0.7865	0
05/06/69	0.02	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
05/06/69	0.06	0.3219	0.1218	0	0	0.3748	0	0	0.1826	0	0.3254	0.3253	0.3252	0
05/08/69	0.26	0.5431	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.5749	0.5747	0.5746	1.024
05/08/69	0.22	0.5109	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.5374	0.5372	0.5371	1.024
05/10/69	0.02	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
05/13/69	0.18	0.5247	0.1218	0	0	0.3748	0	0	0.1826	0	0.5513	0.5511	0.5510	0
05/17/69	1.33	0.3077	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3120	0.3119	0.3119	1.024
05/20/69	0.03	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
05/21/69	0.55	0.3387	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3466	0.3465	0.3464	1.024
05/24/69	0.06	0.2313	0.1218	0	0	0.3748	0	0	0.1826	0	0.2249	0.2249	0.2248	0
05/26/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
05/31/69	0.12	0.3463	0.1218	0	0	0.3748	0	0	0.1826	0	0.3532	0.3531	0.3530	0
06/01/69	0.04	0.2598	0.1218	0	0	0.3748	0	0	0.1826	0	0.2555	0.2554	0.2554	0
06/02/69	0.05	0.2550	0.1218	0	0	0.3748	0	0	0.1826	0	0.2507	0.2507	0.2506	0
06/03/69	0.02	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
06/04/69	0.40	0.3477	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3572	0.3571	0.3571	1.024
06/06/69	0.09	0.2428	0.1218	0	0	0.3748	0	0	0.1826	0	0.2386	0.2385	0.2384	0
06/07/69	0.83	0.3410	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3503	0.3502	0.3501	1.024
06/11/69	0.07	0.2067	0.1218	0	0	0.3748	0	0	0.1826	0	0.1978	0.1977	0.1977	0
06/11/69	0.03	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
06/12/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
06/12/69	0.24	0.3949	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.4085	0.4084	0.4083	1.024	
06/17/69	0.36	0.4073	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.4246	0.4244	0.4243	1.024	
06/18/69	0.16	0.3316	0.1218	0	0	0.3748	0	0	0.1826	0	0.3373	0.3372	0.3371	0	
06/19/69	0.09	0.1933	0.1218	0	0	0.3748	0	0	0.1826	0	0.1835	0.1834	0.1834	0	
06/21/69	0.02	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
06/22/69	0.36	0.2780	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.2778	0.2777	0.2776	1.024	
06/22/69	0.05	0.1710	0.1218	0	0	0.3748	0	0	0.1826	0	0.1581	0.1581	0.1580	0	
06/25/69	1.68	0.2194	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.2033	0.2032	0.2032	1.024	
06/27/69	0.68	0.3946	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.4111	0.4110	0.4109	1.024	
06/29/69	0.70	0.2763	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.2754	0.2753	0.2752	1.024	
06/29/69	1.96	0.1783	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.1443	0.1443	0.1443	1.024	
06/30/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
07/02/69	0.31	0.1808	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.1682	0.1681	0.1681	1.024	
07/04/69	0.04	0.1158	0.1218	0	0	0.3748	0	0	0.1826	0	0.09761	0.09759	0.09756	0	
07/10/69	0.47	0.3014	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3043	0.3042	0.3041	1.024	
07/11/69	0.07	0.1321	0.1218	0	0	0.3748	0	0	0.1826	0	0.1146	0.1146	0.1146	0	
07/16/69	0.52	0.3333	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3405	0.3405	0.3404	1.024	
07/17/69	0.85	0.2768	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.2758	0.2757	0.2756	1.024	
07/17/69	1.44	0.2031	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.1862	0.1861	0.1861	1.024	
07/18/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
07/23/69	0.11	0.1590	0.1218	0	0	0.3748	0	0	0.1826	0	0.1466	0.1465	0.1465	0	
07/26/69	1.37	0.3627	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3779	0.3778	0.3778	1.024	
07/27/69	1.38	0.1404	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.1116	0.1115	0.1115	1.024	
07/31/69	0.04	0.1261	0.1218	0	0	0.3748	0	0	0.1826	0	0.1089	0.1089	0.1089	0	
08/04/69	0.03	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
08/07/69	0.10	0.1904	0.1218	0	0	0.3748	0	0	0.1826	0	0.1808	0.1808	0.1807	0	
08/09/69	0.08	0.1686	0.1218	0	0	0.3748	0	0	0.1826	0	0.1553	0.1553	0.1552	0	
08/16/69	0.32	0.4058	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.4221	0.4220	0.4219	1.024	
09/04/69	0.36	0.4946	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.5237	0.5236	0.5234	1.024	
09/05/69	0.74	0.7643	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.8382	0.8379	0.8377	1.024	
09/14/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
09/15/69	0.03	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
09/16/69	0.03	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
09/23/69	0.16	0.6330	0.1218	0	0	0.3748	0	0	0.1826	0	0.6705	0.6703	0.6701	0	
09/25/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
09/29/69	0.84	0.5910	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.6407	0.6405	0.6404	1.024	
10/06/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
10/06/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
10/09/69	0.05	0.3812	0.1218	0	0	0.3748	0	0	0.1826	0	0.3900	0.3899	0.3898	0	
10/10/69	0.14	0.5211	0.1218	0	0	0.3748	0	0	0.1826	0	0.5463	0.5461	0.5460	0	
10/10/69	1.34	0.3301	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3388	0.3387	0.3386	1.024	
10/12/69	1.63	0.2492	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.2408	0.2407	0.2406	1.024	
10/15/69	0.16	0.4094	0.1218	0	0	0.3748	0	0	0.1826	0	0.4233	0.4231	0.4230	0	
10/19/69	0.44	0.3202	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3257	0.3256	0.3255	1.024	
10/19/69	0.35	0.3035	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3067	0.3066	0.3065	1.024	
10/21/69	0.02	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
10/24/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0	
10/30/69	0.32	0.4268	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.4459	0.4457	0.4456	1.024	
11/02/69	0.77	0.3790	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.3940	0.3939	0.3938	1.024	

11/11/69	0.05	0.2816	0.1218	0	0	0.3748	0	0	0.1826	0	0.2801	0.2801	0.2800	0
11/11/69	0.04	0.2729	0.1218	0	0	0.3748	0	0	0.1826	0	0.2699	0.2699	0.2698	0
11/13/69	0.03	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
11/17/69	0.15	0.4892	0.1218	0	0	0.3748	0	0	0.1826	0	0.5113	0.5112	0.5111	0
11/18/69	0.02	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
11/19/69	0.01	0.3050	0.1218	0	0	0.3748	0	0	0.1826	0	0	0	0	0
11/26/69	0.07	0.3357	0.1218	0	0	0.3748	0	0	0.1826	0	0.3416	0.3415	0.3414	0
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Summary for Runoff Producing Events														
	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	4.364	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	4.806	4.804	4.803	1.024
FI Wt Ave:	N/A	0.3970	0.1218	0.1218	0.1218	0.3748	0.3748	0.3748	0.1826	0.1826	0.4177	0.4176	0.4175	1.024

Residential: Suburban Residential (North) Areas - Pollutant Concentration: Particulate Phosphorus (mg/L)														
Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	4.707	0.1218	0	0	0.3748	0	4.807	4.803	5.088	0	0	0	0
03/20/69	0.04	2.693	0.1218	0	0	0.3748	0	2.593	2.592	5.075	0	0	0	0
03/21/69	0.08	1.931	0.1218	0	0	0.3748	0	1.962	1.960	2.171	0	0	0	0
03/24/69	0.64	1.737	0.1218	0.1218	0.1218	0.3748	0.3748	1.773	1.771	2.285	1.024	1.024	1.024	0.005952
03/28/69	0.08	1.263	0.1218	0	0	0.3748	0	1.254	1.253	1.647	0	0	0	0
04/01/69	0.29	1.490	0.1218	0.1218	0.1218	0.3748	0.3748	1.480	1.479	2.071	1.024	1.024	1.024	0.005952

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
04/04/69	0.43	0.9068	0.1218	0.1218	0.1218	0.3748	0.3748	0.8944	0.8938	1.370	1.024	1.024	1.024	0.005952
04/08/69	0.71	0.7953	0.1218	0.1218	0.1218	0.3748	0.3748	0.7784	0.7779	1.320	1.024	1.024	1.024	0.005952
04/14/69	0.52	0.6362	0.1218	0.1218	0.1218	0.3748	0.3748	0.6207	0.6203	1.011	1.024	1.024	1.024	0.005952
04/16/69	0.10	0.4857	0.1218	0	0	0.3748	0	0.4486	0.4483	0.9071	0	0	0	0
04/16/69	1.26	0.4095	0.1218	0.1218	0.1218	0.3748	0.3748	0.4058	0.4055	0.5779	1.024	1.024	1.024	0.005952
04/21/69	0.04	0.3631	0.1218	0	0	0.3748	0	0.3195	0.3192	1.090	0	0	0	0
04/27/69	0.01	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
04/28/69	0.06	0.3766	0.1218	0	0	0.3748	0	0.3494	0.3491	0.7200	0	0	0	0
05/01/69	0.01	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
05/05/69	0.18	0.7978	0.1218	0	0	0.3748	0	0.7870	0.7865	1.065	0	0	0	0
05/06/69	0.02	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
05/06/69	0.06	0.3456	0.1218	0	0	0.3748	0	0.3254	0.3252	0.6033	0	0	0	0
05/08/69	0.26	0.5756	0.1218	0.1218	0.1218	0.3748	0.3748	0.5750	0.5746	0.7139	1.024	1.024	1.024	0.005952
05/08/69	0.22	0.5415	0.1218	0.1218	0.1218	0.3748	0.3748	0.5375	0.5371	0.6834	1.024	1.024	1.024	0.005952
05/10/69	0.02	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
05/13/69	0.18	0.5593	0.1218	0	0	0.3748	0	0.5514	0.5510	0.7330	0	0	0	0
05/17/69	1.33	0.3089	0.1218	0.1218	0.1218	0.3748	0.3748	0.3121	0.3119	0.3468	1.024	1.024	1.024	0.005952
05/20/69	0.03	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
05/21/69	0.55	0.3483	0.1218	0.1218	0.1218	0.3748	0.3748	0.3467	0.3464	0.4410	1.024	1.024	1.024	0.005952
05/24/69	0.06	0.2408	0.1218	0	0	0.3748	0	0.2250	0.2248	0.4207	0	0	0	0
05/26/69	0.01	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
05/31/69	0.12	0.3665	0.1218	0	0	0.3748	0	0.3532	0.3530	0.5411	0	0	0	0
06/01/69	0.04	0.2816	0.1218	0	0	0.3748	0	0.2556	0.2554	0.7044	0	0	0	0
06/02/69	0.05	0.2709	0.1218	0	0	0.3748	0	0.2508	0.2506	0.5420	0	0	0	0
06/03/69	0.02	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
06/04/69	0.40	0.3555	0.1218	0.1218	0.1218	0.3748	0.3748	0.3573	0.3571	0.4140	1.024	1.024	1.024	0.005952
06/06/69	0.09	0.2475	0.1218	0	0	0.3748	0	0.2386	0.2384	0.3411	0	0	0	0
06/07/69	0.83	0.3483	0.1218	0.1218	0.1218	0.3748	0.3748	0.3503	0.3501	0.4191	1.024	1.024	1.024	0.005952
06/11/69	0.07	0.2075	0.1218	0	0	0.3748	0	0.1978	0.1977	0.3000	0	0	0	0
06/11/69	0.03	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
06/12/69	0.01	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
06/12/69	0.24	0.4103	0.1218	0.1218	0.1218	0.3748	0.3748	0.4086	0.4083	0.4952	1.024	1.024	1.024	0.005952
06/17/69	0.36	0.4137	0.1218	0.1218	0.1218	0.3748	0.3748	0.4246	0.4243	0.4141	1.024	1.024	1.024	0.005952
06/18/69	0.16	0.3455	0.1218	0	0	0.3748	0	0.3374	0.3371	0.4625	0	0	0	0
06/19/69	0.09	0.1910	0.1218	0	0	0.3748	0	0.1835	0.1834	0.2555	0	0	0	0
06/21/69	0.02	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
06/22/69	0.36	0.2796	0.1218	0.1218	0.1218	0.3748	0.3748	0.2778	0.2776	0.3297	1.024	1.024	1.024	0.005952
06/22/69	0.05	0.1710	0.1218	0	0	0.3748	0	0.1581	0.1580	0.3182	0	0	0	0
06/25/69	1.68	0.2025	0.1218	0.1218	0.1218	0.3748	0.3748	0.2033	0.2032	0.1833	1.024	1.024	1.024	0.005952
06/27/69	0.68	0.3983	0.1218	0.1218	0.1218	0.3748	0.3748	0.4112	0.4109	0.3883	1.024	1.024	1.024	0.005952
06/29/69	0.70	0.2765	0.1218	0.1218	0.1218	0.3748	0.3748	0.2754	0.2752	0.3281	1.024	1.024	1.024	0.005952
06/29/69	1.96	0.1536	0.1218	0.1218	0.1218	0.3748	0.3748	0.1444	0.1443	0.1383	1.024	1.024	1.024	0.005952
06/30/69	0.01	0.2440	0.1218	0	0	0.3748	0	0	0	0	0	0	0	0
07/02/69	0.31	0.1779	0.1218	0.1218	0.1218	0.3748	0.3748	0.1682	0.1681	0.2537	1.024	1.024	1.024	0.005952
07/04/69	0.04	0.1115	0.1218	0	0	0.3748	0	0.09763	0.09756	0.2883	0	0	0	0
07/10/69	0.47	0.3025	0.1218	0.1218	0.1218	0.3748	0.3748	0.3043	0.3041	0.3364	1.024	1.024	1.024	0.005952
07/11/69	0.07	0.1253	0.1218	0	0	0.3748	0	0.1147	0.1146	0.2030	0	0	0	0
07/16/69	0.52	0.3368	0.1218	0.1218	0.1218	0.3748	0.3748	0.3406	0.3404	0.3709	1.024	1.024	1.024	0.005952
07/17/69	0.85	0.2791	0.1218	0.1218	0.1218	0.3748	0.3748	0.2758	0.2756	0.3539	1.024	1.024	1.024	0.005952

[illegible]

	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	4.707	0.1218	0.1218	0.1218	0.3748	0.3748	4.807	4.803	5.088	1.024	1.024	1.024	0.005952
Fl Wt Ave:	N/A	0.4110	0.1218	0.1218	0.1218	0.3748	0.3748	0.4178	0.4175	0.4924	1.024	1.024	1.024	0.005952

Industrial: Light Industrial Areas - Pollutant Concentration: Particulate Phosphorus (mg/L)

Start Date	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undevelope d Areas 1	Undevelope d Areas 2						
01/05/69	-	-	-	-	-	-	-	-						
01/06/69	-	-	-	-	-	-	-	-						
01/08/69	-	-	-	-	-	-	-	-						
01/15/69	-	-	-	-	-	-	-	-						
01/17/69	-	-	-	-	-	-	-	-						
01/23/69	-	-	-	-	-	-	-	-						
01/24/69	-	-	-	-	-	-	-	-						
01/28/69	-	-	-	-	-	-	-	-						
01/29/69	-	-	-	-	-	-	-	-						
02/06/69	-	-	-	-	-	-	-	-						
02/06/69	-	-	-	-	-	-	-	-						
02/22/69	-	-	-	-	-	-	-	-						
03/06/69	-	-	-	-	-	-	-	-						
03/20/69	0.18	8.593	8.591	8.616	8.585	0	0	0						
03/20/69	0.04	1.109	1.109	1.112	1.108	0	0	0						
03/21/69	0.08	5.950	5.949	5.966	5.944	0	0	0						
03/24/69	0.64	1.432	1.541	1.546	1.540	0	0.005952	0.005952						
03/28/69	0.08	3.803	3.802	3.813	3.800	0	0	0						
04/01/69	0.29	2.284	2.348	2.355	2.347	0	0.005952	0.005952						
04/04/69	0.43	1.182	1.252	1.256	1.251	0	0.005952	0.005952						
04/08/69	0.71	0.4972	0.5395	0.5410	0.5391	0	0.005952	0.005952						
04/14/69	0.52	0.5826	0.6202	0.6220	0.6198	0	0.005952	0.005952						
04/16/69	0.10	1.244	1.243	1.247	1.243	0	0	0						
04/16/69	1.26	0.1560	0.1744	0.1749	0.1743	0	0.005952	0.005952						
04/21/69	0.04	0.1082	0.1081	0.1085	0.1081	0	0	0						
04/27/69	0.01	0	0	0	0	0	0	0						
04/28/69	0.06	0.4879	0.4878	0.4892	0.4875	0	0	0						
05/01/69	0.01	0	0	0	0	0	0	0						
05/05/69	0.18	0.9960	0.9958	0.9987	0.9951	0	0	0						
05/06/69	0.02	0	0	0	0	0	0	0						
05/06/69	0.06	0.4289	0.4288	0.4301	0.4285	0	0	0						
05/08/69	0.26	0.6665	0.6793	0.6813	0.6788	0	0.005952	0.005952						
05/08/69	0.22	0.6575	0.6622	0.6641	0.6617	0	0.005952	0.005952						
05/10/69	0.02	0	0	0	0	0	0	0						
05/13/69	0.18	0.7484	0.7483	0.7504	0.7477	0	0	0						
05/17/69	1.33	0.1076	0.1204	0.1207	0.1203	0	0.005952	0.005952						
05/20/69	0.03	0	0	0	0	0	0	0						

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
05/21/69	0.55	0.2721	0.2900	0.2908	0.2898	0	0.005952	0.005952							
05/24/69	0.06	0.3370	0.3369	0.3379	0.3367	0	0	0							
05/26/69	0.01	0	0	0	0	0	0	0							
05/31/69	0.12	0.8915	0.8914	0.8940	0.8907	0	0	0							
06/01/69	0.04	0.08394	0.08393	0.08417	0.08387	0	0	0							
06/02/69	0.05	0.2321	0.2320	0.2327	0.2319	0	0	0							
06/03/69	0.02	0	0	0	0	0	0	0							
06/04/69	0.40	0.4087	0.4317	0.4329	0.4314	0	0.005952	0.005952							
06/06/69	0.09	0.6104	0.6103	0.6121	0.6099	0	0	0							
06/07/69	0.83	0.1518	0.1661	0.1666	0.1660	0	0.005952	0.005952							
06/11/69	0.07	0.4093	0.4093	0.4104	0.4090	0	0	0							
06/11/69	0.03	0	0	0	0	0	0	0							
06/12/69	0.01	0	0	0	0	0	0	0							
06/12/69	0.24	0.5358	0.5429	0.5445	0.5425	0	0.005952	0.005952							
06/17/69	0.36	0.5436	0.5692	0.5709	0.5688	0	0.005952	0.005952							
06/18/69	0.16	0.5996	0.5995	0.6012	0.5990	0	0	0							
06/19/69	0.09	0.5081	0.5081	0.5095	0.5077	0	0	0							
06/21/69	0.02	0	0	0	0	0	0	0							
06/22/69	0.36	0.3685	0.3857	0.3868	0.3854	0	0.005952	0.005952							
06/22/69	0.05	0.1673	0.1673	0.1677	0.1671	0	0	0							
06/25/69	1.68	0.07577	0.09074	0.09101	0.09068	0	0.005952	0.005952							
06/27/69	0.68	0.2688	0.2904	0.2912	0.2902	0	0.005952	0.005952							
06/29/69	0.70	0.1743	0.1886	0.1891	0.1884	0	0.005952	0.005952							
06/29/69	1.96	0.04821	0.06611	0.06631	0.06607	0	0.005952	0.005952							
06/30/69	0.01	0	0	0	0	0	0	0							
07/02/69	0.31	0.2426	0.2506	0.2514	0.2504	0	0.005952	0.005952							
07/04/69	0.04	0.03941	0.03940	0.03951	0.03937	0	0	0							
07/10/69	0.47	0.3553	0.3770	0.3781	0.3767	0	0.005952	0.005952							
07/11/69	0.07	0.2785	0.2785	0.2793	0.2783	0	0	0							
07/16/69	0.52	0.3582	0.3812	0.3823	0.3809	0	0.005952	0.005952							
07/17/69	0.85	0.1426	0.1561	0.1565	0.1559	0	0.005952	0.005952							
07/17/69	1.44	0.08129	0.09106	0.09132	0.09099	0	0.005952	0.005952							
07/18/69	0.01	0	0	0	0	0	0	0							
07/23/69	0.11	0.4979	0.4978	0.4993	0.4975	0	0	0							
07/26/69	1.37	0.1666	0.1870	0.1875	0.1868	0	0.005952	0.005952							
07/27/69	1.38	0.04966	0.05522	0.05538	0.05518	0	0.005952	0.005952							
07/31/69	0.04	0.04620	0.04619	0.04633	0.04616	0	0	0							
08/04/69	0.03	0	0	0	0	0	0	0							
08/07/69	0.10	0.6032	0.6031	0.6049	0.6027	0	0	0							
08/09/69	0.08	0.4689	0.4688	0.4702	0.4685	0	0	0							
08/16/69	0.32	0.6153	0.6377	0.6395	0.6372	0	0.005952	0.005952							
09/04/69	0.36	0.6071	0.6357	0.6375	0.6352	0	0.005952	0.005952							
09/05/69	0.74	0.4332	0.4716	0.4730	0.4713	0	0.005952	0.005952							
09/14/69	0.01	0	0	0	0	0	0	0							
09/15/69	0.03	0	0	0	0	0	0	0							
09/16/69	0.03	0	0	0	0	0	0	0							
09/23/69	0.16	0.9882	0.9880	0.9909	0.9873	0	0	0							
09/25/69	0.01	0	0	0	0	0	0	0							
09/29/69	0.84	0.2541	0.2785	0.2794	0.2783	0	0.005952	0.005952							

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
10/06/69	0.01	0	0	0	0	0	0	0						
10/06/69	0.01	0	0	0	0	0	0	0						
10/09/69	0.05	0.3047	0.3046	0.3055	0.3044	0	0	0						
10/10/69	0.14	0.9540	0.9538	0.9566	0.9531	0	0	0						
10/10/69	1.34	0.1120	0.1253	0.1257	0.1253	0	0.005952	0.005952						
10/12/69	1.63	0.07833	0.09113	0.09139	0.09106	0	0.005952	0.005952						
10/15/69	0.16	0.6900	0.6899	0.6919	0.6894	0	0	0						
10/19/69	0.44	0.3371	0.3569	0.3579	0.3567	0	0.005952	0.005952						
10/19/69	0.35	0.3699	0.3862	0.3873	0.3859	0	0.005952	0.005952						
10/21/69	0.02	0	0	0	0	0	0	0						
10/24/69	0.01	0	0	0	0	0	0	0						
10/30/69	0.32	0.5387	0.5583	0.5599	0.5578	0	0.005952	0.005952						
11/02/69	0.77	0.1873	0.2043	0.2049	0.2042	0	0.005952	0.005952						
11/11/69	0.05	0.2538	0.2537	0.2545	0.2535	0	0	0						
11/11/69	0.04	0.08841	0.08839	0.08865	0.08833	0	0	0						
11/13/69	0.03	0	0	0	0	0	0	0						
11/17/69	0.15	0.8778	0.8777	0.8802	0.8771	0	0	0						
11/18/69	0.02	0	0	0	0	0	0	0						
11/19/69	0.01	0	0	0	0	0	0	0						
11/26/69	0.07	0.5937	0.5936	0.5953	0.5932	0	0	0						
12/07/69	-	-	-	-	-	-	-	-						
12/11/69	-	-	-	-	-	-	-	-						
12/16/69	-	-	-	-	-	-	-	-						
12/21/69	-	-	-	-	-	-	-	-						
12/23/69	-	-	-	-	-	-	-	-						
12/24/69	-	-	-	-	-	-	-	-						
12/24/69	-	-	-	-	-	-	-	-						
12/27/69	-	-	-	-	-	-	-	-						
12/28/69	-	-	-	-	-	-	-	-						
12/31/69	-	-	-	-	-	-	-	-						
Summary for Runoff Producing Events														
	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undeveloped Areas 1	Undeveloped Areas 2						
Minimum:	0.00	0	0	0	0	0	0	0						
Maximum:	1.96	8.593	8.591	8.616	8.585	0	0.005952	0.005952						
FI Wt Ave:	N/A	0.3253	0.3648	0.3658	0.3645	0.0	0.005952	0.005952						
Residential: Suburban Residential (South) Areas - Pollutant Concentration: Filterable Phosphorus (mg/L)														
Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	0.1179	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
03/20/69	0.04	0.1190	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
03/21/69	0.08	0.1178	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
03/24/69	0.64	0.1325	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
03/28/69	0.08	0.1178	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
04/01/69	0.29	0.1228	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
04/04/69	0.43	0.1283	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
04/08/69	0.71	0.1345	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
04/14/69	0.52	0.1300	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
04/16/69	0.10	0.1180	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
04/16/69	1.26	0.1432	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
04/21/69	0.04	0.1190	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
04/27/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0
04/28/69	0.06	0.1183	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
05/01/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0
05/05/69	0.18	0.1179	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
05/06/69	0.02	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0
05/06/69	0.06	0.1183	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
05/08/69	0.26	0.1213	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
05/08/69	0.22	0.1192	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
05/10/69	0.02	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0
05/13/69	0.18	0.1179	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
05/17/69	1.33	0.1448	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
05/20/69	0.03	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0
05/21/69	0.55	0.1305	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
05/24/69	0.06	0.1183	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
05/26/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0
05/31/69	0.12	0.1180	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
06/01/69	0.04	0.1190	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
06/02/69	0.05	0.1186	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
06/03/69	0.02	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0
06/04/69	0.40	0.1277	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
06/06/69	0.09	0.1179	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
06/07/69	0.83	0.1372	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
06/11/69	0.07	0.1181	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
06/11/69	0.03	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0
06/12/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0
06/12/69	0.24	0.1203	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
06/17/69	0.36	0.1261	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
06/18/69	0.16	0.1180	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
06/19/69	0.09	0.1179	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
06/21/69	0.02	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0

Data File: C:\Users\cartlonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
06/22/69	0.36	0.1261	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
06/22/69	0.05	0.1186	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
06/25/69	1.68	0.1584	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
06/27/69	0.68	0.1337	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
06/29/69	0.70	0.1342	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
06/29/69	1.96	0.1775	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
06/30/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
07/02/69	0.31	0.1238	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
07/04/69	0.04	0.1190	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
07/10/69	0.47	0.1291	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
07/11/69	0.07	0.1181	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
07/16/69	0.52	0.1300	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
07/17/69	0.85	0.1375	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
07/17/69	1.44	0.1474	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
07/18/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
07/23/69	0.11	0.1180	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
07/26/69	1.37	0.1458	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
07/27/69	1.38	0.1460	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
07/31/69	0.04	0.1190	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
08/04/69	0.03	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
08/07/69	0.10	0.1180	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
08/09/69	0.08	0.1178	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
08/16/69	0.32	0.1243	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
09/04/69	0.36	0.1261	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
09/05/69	0.74	0.1354	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
09/14/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
09/15/69	0.03	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
09/16/69	0.03	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
09/23/69	0.16	0.1180	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
09/25/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
09/29/69	0.84	0.1374	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
10/06/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
10/06/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
10/09/69	0.05	0.1186	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
10/10/69	0.14	0.1180	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
10/10/69	1.34	0.1451	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
10/12/69	1.63	0.1547	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
10/15/69	0.16	0.1180	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
10/19/69	0.44	0.1285	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
10/19/69	0.35	0.1257	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
10/21/69	0.02	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
10/24/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
10/30/69	0.32	0.1243	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
11/02/69	0.77	0.1362	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
11/11/69	0.05	0.1186	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
11/11/69	0.04	0.1190	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
11/13/69	0.03	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0
11/17/69	0.15	0.1180	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0.1200	0
11/18/69	0.02	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0	0

11/19/69	0.01	0.1083	0.04000	0	0	0.1200	0	0	0.1200	0	0	0	0	0
11/26/69	0.07	0.1181	0.04000	0	0	0.1200	0	0	0.1200	0	0.1200	0.1200	0.1200	0
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Summary for Runoff Producing Events

	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	0.1775	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100
FI Wt Ave:	N/A	0.1417	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100

Residential: Suburban Residential (North) Areas - Pollutant Concentration: Filterable Phosphorus (mg/L)

Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
03/20/69	0.04	0.1192	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
03/21/69	0.08	0.1184	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
03/24/69	0.64	0.1312	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
03/28/69	0.08	0.1184	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
04/01/69	0.29	0.1232	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
04/04/69	0.43	0.1283	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
04/08/69	0.71	0.1328	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
04/14/69	0.52	0.1294	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
04/16/69	0.10	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
04/16/69	1.26	0.1385	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
04/21/69	0.04	0.1192	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
04/27/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
04/28/69	0.06	0.1188	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
05/01/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
05/05/69	0.18	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
05/06/69	0.02	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
05/06/69	0.06	0.1188	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
05/08/69	0.26	0.1217	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
05/08/69	0.22	0.1197	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
05/10/69	0.02	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
05/13/69	0.18	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
05/17/69	1.33	0.1389	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
05/20/69	0.03	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
05/21/69	0.55	0.1297	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
05/24/69	0.06	0.1188	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
05/26/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
05/31/69	0.12	0.1186	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
06/01/69	0.04	0.1192	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
06/02/69	0.05	0.1190	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
06/03/69	0.02	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
06/04/69	0.40	0.1279	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
06/06/69	0.09	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
06/07/69	0.83	0.1347	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
06/11/69	0.07	0.1186	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
06/11/69	0.03	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
06/12/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
06/12/69	0.24	0.1207	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
06/17/69	0.36	0.1264	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
06/18/69	0.16	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
06/19/69	0.09	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
06/21/69	0.02	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
06/22/69	0.36	0.1264	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
06/22/69	0.05	0.1190	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
06/25/69	1.68	0.1508	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
06/27/69	0.68	0.1321	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
06/29/69	0.70	0.1326	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
06/29/69	1.96	0.1761	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
06/30/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
07/02/69	0.31	0.1241	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
07/04/69	0.04	0.1192	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
07/10/69	0.47	0.1288	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
07/11/69	0.07	0.1186	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
07/16/69	0.52	0.1294	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
07/17/69	0.85	0.1348	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
07/17/69	1.44	0.1395	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
07/18/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0
07/23/69	0.11	0.1186	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0
07/26/69	1.37	0.1391	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100
07/27/69	1.38	0.1391	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
07/31/69	0.04	0.1192	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
08/04/69	0.03	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
08/07/69	0.10	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
08/09/69	0.08	0.1184	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
08/16/69	0.32	0.1246	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100
09/04/69	0.36	0.1264	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100
09/05/69	0.74	0.1334	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100
09/14/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
09/15/69	0.03	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
09/16/69	0.03	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
09/23/69	0.16	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
09/25/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
09/29/69	0.84	0.1347	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100
10/06/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
10/06/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
10/09/69	0.05	0.1190	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
10/10/69	0.14	0.1186	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
10/10/69	1.34	0.1389	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100
10/12/69	1.63	0.1459	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100
10/15/69	0.16	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
10/19/69	0.44	0.1284	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100
10/19/69	0.35	0.1259	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100
10/21/69	0.02	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
10/24/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
10/30/69	0.32	0.1246	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100
11/02/69	0.77	0.1340	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100
11/11/69	0.05	0.1190	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
11/11/69	0.04	0.1192	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
11/13/69	0.03	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
11/17/69	0.15	0.1185	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
11/18/69	0.02	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
11/19/69	0.01	0.07862	0.04000	0	0	0.1200	0	0	0	0	0	0	0	0	0
11/26/69	0.07	0.1186	0.04000	0	0	0.1200	0	0.1200	0.1200	0.1200	0	0	0	0	0
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Summary for Runoff Producing Events															
	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1	
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	0.1761	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	0.6100

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
Fl Wt Ave:	N/A	0.1381	0.04000	0.04000	0.04000	0.1200	0.1200	0.1200	0.1200	0.1200	0.6100	0.6100	0.6100	0.6100	
Industrial: Light Industrial Areas - Pollutant Concentration: Filterable Phosphorus (mg/L)															
Start Date	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undeveloped Areas 1	Undeveloped Areas 2							
01/05/69	-	-	-	-	-	-	-	-							
01/06/69	-	-	-	-	-	-	-	-							
01/08/69	-	-	-	-	-	-	-	-							
01/15/69	-	-	-	-	-	-	-	-							
01/17/69	-	-	-	-	-	-	-	-							
01/23/69	-	-	-	-	-	-	-	-							
01/24/69	-	-	-	-	-	-	-	-							
01/28/69	-	-	-	-	-	-	-	-							
01/29/69	-	-	-	-	-	-	-	-							
02/06/69	-	-	-	-	-	-	-	-							
02/06/69	-	-	-	-	-	-	-	-							
02/22/69	-	-	-	-	-	-	-	-							
03/06/69	-	-	-	-	-	-	-	-							
03/20/69	0.18	0.3500	0.3500	0.3500	0.3500	0	0	0							
03/20/69	0.04	0.3500	0.3500	0.3500	0.3500	0	0	0							
03/21/69	0.08	0.3500	0.3500	0.3500	0.3500	0	0	0							
03/24/69	0.64	0.3685	0.3500	0.3500	0.3500	0	0.6100	0.6100							
03/28/69	0.08	0.3500	0.3500	0.3500	0.3500	0	0	0							
04/01/69	0.29	0.3572	0.3500	0.3500	0.3500	0	0.6100	0.6100							
04/04/69	0.43	0.3646	0.3500	0.3500	0.3500	0	0.6100	0.6100							
04/08/69	0.71	0.3706	0.3500	0.3500	0.3500	0	0.6100	0.6100							
04/14/69	0.52	0.3660	0.3500	0.3500	0.3500	0	0.6100	0.6100							
04/16/69	0.10	0.3500	0.3500	0.3500	0.3500	0	0	0							
04/16/69	1.26	0.3784	0.3500	0.3500	0.3500	0	0.6100	0.6100							
04/21/69	0.04	0.3500	0.3500	0.3500	0.3500	0	0	0							
04/27/69	0.01	0	0	0	0	0	0	0							
04/28/69	0.06	0.3500	0.3500	0.3500	0.3500	0	0	0							
05/01/69	0.01	0	0	0	0	0	0	0							
05/05/69	0.18	0.3500	0.3500	0.3500	0.3500	0	0	0							
05/06/69	0.02	0	0	0	0	0	0	0							
05/06/69	0.06	0.3500	0.3500	0.3500	0.3500	0	0	0							
05/08/69	0.26	0.3550	0.3500	0.3500	0.3500	0	0.6100	0.6100							
05/08/69	0.22	0.3519	0.3500	0.3500	0.3500	0	0.6100	0.6100							
05/10/69	0.02	0	0	0	0	0	0	0							
05/13/69	0.18	0.3500	0.3500	0.3500	0.3500	0	0	0							
05/17/69	1.33	0.3790	0.3500	0.3500	0.3500	0	0.6100	0.6100							
05/20/69	0.03	0	0	0	0	0	0	0							
05/21/69	0.55	0.3664	0.3500	0.3500	0.3500	0	0.6100	0.6100							
05/24/69	0.06	0.3500	0.3500	0.3500	0.3500	0	0	0							
05/26/69	0.01	0	0	0	0	0	0	0							
05/31/69	0.12	0.3500	0.3500	0.3500	0.3500	0	0	0							
06/01/69	0.04	0.3500	0.3500	0.3500	0.3500	0	0	0							

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
06/02/69	0.05	0.3500	0.3500	0.3500	0.3500	0	0	0							
06/03/69	0.02	0	0	0	0	0	0	0							
06/04/69	0.40	0.3641	0.3500	0.3500	0.3500	0	0.6100	0.6100							
06/06/69	0.09	0.3500	0.3500	0.3500	0.3500	0	0	0							
06/07/69	0.83	0.3732	0.3500	0.3500	0.3500	0	0.6100	0.6100							
06/11/69	0.07	0.3500	0.3500	0.3500	0.3500	0	0	0							
06/11/69	0.03	0	0	0	0	0	0	0							
06/12/69	0.01	0	0	0	0	0	0	0							
06/12/69	0.24	0.3535	0.3500	0.3500	0.3500	0	0.6100	0.6100							
06/17/69	0.36	0.3619	0.3500	0.3500	0.3500	0	0.6100	0.6100							
06/18/69	0.16	0.3500	0.3500	0.3500	0.3500	0	0	0							
06/19/69	0.09	0.3500	0.3500	0.3500	0.3500	0	0	0							
06/21/69	0.02	0	0	0	0	0	0	0							
06/22/69	0.36	0.3619	0.3500	0.3500	0.3500	0	0.6100	0.6100							
06/22/69	0.05	0.3500	0.3500	0.3500	0.3500	0	0	0							
06/25/69	1.68	0.3960	0.3500	0.3500	0.3500	0	0.6100	0.6100							
06/27/69	0.68	0.3697	0.3500	0.3500	0.3500	0	0.6100	0.6100							
06/29/69	0.70	0.3703	0.3500	0.3500	0.3500	0	0.6100	0.6100							
06/29/69	1.96	0.4274	0.3500	0.3500	0.3500	0	0.6100	0.6100							
06/30/69	0.01	0	0	0	0	0	0	0							
07/02/69	0.31	0.3586	0.3500	0.3500	0.3500	0	0.6100	0.6100							
07/04/69	0.04	0.3500	0.3500	0.3500	0.3500	0	0	0							
07/10/69	0.47	0.3652	0.3500	0.3500	0.3500	0	0.6100	0.6100							
07/11/69	0.07	0.3500	0.3500	0.3500	0.3500	0	0	0							
07/16/69	0.52	0.3660	0.3500	0.3500	0.3500	0	0.6100	0.6100							
07/17/69	0.85	0.3734	0.3500	0.3500	0.3500	0	0.6100	0.6100							
07/17/69	1.44	0.3799	0.3500	0.3500	0.3500	0	0.6100	0.6100							
07/18/69	0.01	0	0	0	0	0	0	0							
07/23/69	0.11	0.3500	0.3500	0.3500	0.3500	0	0	0							
07/26/69	1.37	0.3793	0.3500	0.3500	0.3500	0	0.6100	0.6100							
07/27/69	1.38	0.3794	0.3500	0.3500	0.3500	0	0.6100	0.6100							
07/31/69	0.04	0.3500	0.3500	0.3500	0.3500	0	0	0							
08/04/69	0.03	0	0	0	0	0	0	0							
08/07/69	0.10	0.3500	0.3500	0.3500	0.3500	0	0	0							
08/09/69	0.08	0.3500	0.3500	0.3500	0.3500	0	0	0							
08/16/69	0.32	0.3593	0.3500	0.3500	0.3500	0	0.6100	0.6100							
09/04/69	0.36	0.3619	0.3500	0.3500	0.3500	0	0.6100	0.6100							
09/05/69	0.74	0.3715	0.3500	0.3500	0.3500	0	0.6100	0.6100							
09/14/69	0.01	0	0	0	0	0	0	0							
09/15/69	0.03	0	0	0	0	0	0	0							
09/16/69	0.03	0	0	0	0	0	0	0							
09/23/69	0.16	0.3500	0.3500	0.3500	0.3500	0	0	0							
09/25/69	0.01	0	0	0	0	0	0	0							
09/29/69	0.84	0.3733	0.3500	0.3500	0.3500	0	0.6100	0.6100							
10/06/69	0.01	0	0	0	0	0	0	0							
10/06/69	0.01	0	0	0	0	0	0	0							
10/09/69	0.05	0.3500	0.3500	0.3500	0.3500	0	0	0							
10/10/69	0.14	0.3500	0.3500	0.3500	0.3500	0	0	0							
10/10/69	1.34	0.3791	0.3500	0.3500	0.3500	0	0.6100	0.6100							

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
10/12/69	1.63	0.3891	0.3500	0.3500	0.3500	0	0.6100	0.6100							
10/15/69	0.16	0.3500	0.3500	0.3500	0.3500	0	0	0							
10/19/69	0.44	0.3647	0.3500	0.3500	0.3500	0	0.6100	0.6100							
10/19/69	0.35	0.3612	0.3500	0.3500	0.3500	0	0.6100	0.6100							
10/21/69	0.02	0	0	0	0	0	0	0							
10/24/69	0.01	0	0	0	0	0	0	0							
10/30/69	0.32	0.3593	0.3500	0.3500	0.3500	0	0.6100	0.6100							
11/02/69	0.77	0.3724	0.3500	0.3500	0.3500	0	0.6100	0.6100							
11/11/69	0.05	0.3500	0.3500	0.3500	0.3500	0	0	0							
11/11/69	0.04	0.3500	0.3500	0.3500	0.3500	0	0	0							
11/13/69	0.03	0	0	0	0	0	0	0							
11/17/69	0.15	0.3500	0.3500	0.3500	0.3500	0	0	0							
11/18/69	0.02	0	0	0	0	0	0	0							
11/19/69	0.01	0	0	0	0	0	0	0							
11/26/69	0.07	0.3500	0.3500	0.3500	0.3500	0	0	0							
12/07/69	-	-	-	-	-	-	-	-							
12/11/69	-	-	-	-	-	-	-	-							
12/16/69	-	-	-	-	-	-	-	-							
12/21/69	-	-	-	-	-	-	-	-							
12/23/69	-	-	-	-	-	-	-	-							
12/24/69	-	-	-	-	-	-	-	-							
12/24/69	-	-	-	-	-	-	-	-							
12/27/69	-	-	-	-	-	-	-	-							
12/28/69	-	-	-	-	-	-	-	-							
12/31/69	-	-	-	-	-	-	-	-							
Summary for Runoff Producing Events															
	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undevelope d Areas 1	Undevelope d Areas 2							
Minimum:	0.00	0	0	0	0	0	0	0							
Maximum:	1.96	0.4274	0.3500	0.3500	0.3500	0	0.6100	0.6100							
FI Wt Ave:	N/A	0.3786	0.3500	0.3500	0.3500	0.0	0.6100	0.6100							
Residential: Suburban Residential (South) Areas - Pollutant Concentration: Total Phosphorus (mg															
Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	4.482	0.1618	0	0	0.4948	0	0	0.3026	0	4.926	4.924	4.923	0	
03/20/69	0.04	2.510	0.1618	0	0	0.4948	0	0	0.3026	0	2.713	2.712	2.712	0	
03/21/69	0.08	1.902	0.1618	0	0	0.4948	0	0	0.3026	0	2.081	2.081	2.080	0	
03/24/69	0.64	1.718	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	1.892	1.892	1.891	1.634	
03/28/69	0.08	1.269	0.1618	0	0	0.4948	0	0	0.3026	0	1.374	1.373	1.373	0	
04/01/69	0.29	1.469	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	1.600	1.599	1.599	1.634	
04/04/69	0.43	0.9473	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	1.014	1.014	1.014	1.634	
04/08/69	0.71	0.8480	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.8983	0.8981	0.8979	1.634	
04/14/69	0.52	0.7092	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.7406	0.7404	0.7403	1.634	
04/16/69	0.10	0.5500	0.1618	0	0	0.4948	0	0	0.3026	0	0.5685	0.5684	0.5683	0	
04/16/69	1.26	0.5298	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.5257	0.5256	0.5255	1.634	
04/21/69	0.04	0.4370	0.1618	0	0	0.4948	0	0	0.3026	0	0.4394	0.4393	0.4392	0	
04/27/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
04/28/69	0.06	0.4618	0.1618	0	0	0.4948	0	0	0.3026	0	0.4693	0.4692	0.4691	0	
05/01/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
05/05/69	0.18	0.8552	0.1618	0	0	0.4948	0	0	0.3026	0	0.9069	0.9066	0.9065	0	
05/06/69	0.02	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
05/06/69	0.06	0.4402	0.1618	0	0	0.4948	0	0	0.3026	0	0.4454	0.4453	0.4452	0	
05/08/69	0.26	0.6644	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.6949	0.6947	0.6946	1.634	
05/08/69	0.22	0.6301	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.6574	0.6572	0.6571	1.634	
05/10/69	0.02	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
05/13/69	0.18	0.6426	0.1618	0	0	0.4948	0	0	0.3026	0	0.6713	0.6711	0.6710	0	
05/17/69	1.33	0.4526	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.4320	0.4319	0.4319	1.634	
05/20/69	0.03	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
05/21/69	0.55	0.4691	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.4666	0.4665	0.4664	1.634	
05/24/69	0.06	0.3497	0.1618	0	0	0.4948	0	0	0.3026	0	0.3449	0.3449	0.3448	0	
05/26/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
05/31/69	0.12	0.4643	0.1618	0	0	0.4948	0	0	0.3026	0	0.4732	0.4731	0.4730	0	
06/01/69	0.04	0.3787	0.1618	0	0	0.4948	0	0	0.3026	0	0.3755	0.3754	0.3754	0	
06/02/69	0.05	0.3736	0.1618	0	0	0.4948	0	0	0.3026	0	0.3707	0.3707	0.3706	0	
06/03/69	0.02	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
06/04/69	0.40	0.4755	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.4772	0.4771	0.4771	1.634	
06/06/69	0.09	0.3607	0.1618	0	0	0.4948	0	0	0.3026	0	0.3586	0.3585	0.3584	0	
06/07/69	0.83	0.4782	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.4703	0.4702	0.4701	1.634	
06/11/69	0.07	0.3248	0.1618	0	0	0.4948	0	0	0.3026	0	0.3178	0.3177	0.3177	0	
06/11/69	0.03	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
06/12/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
06/12/69	0.24	0.5152	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.5285	0.5284	0.5283	1.634	
06/17/69	0.36	0.5334	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.5446	0.5444	0.5443	1.634	
06/18/69	0.16	0.4496	0.1618	0	0	0.4948	0	0	0.3026	0	0.4573	0.4572	0.4571	0	
06/19/69	0.09	0.3112	0.1618	0	0	0.4948	0	0	0.3026	0	0.3035	0.3034	0.3034	0	
06/21/69	0.02	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
06/22/69	0.36	0.4041	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.3978	0.3977	0.3976	1.634	
06/22/69	0.05	0.2896	0.1618	0	0	0.4948	0	0	0.3026	0	0.2781	0.2781	0.2780	0	
06/25/69	1.68	0.3778	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.3233	0.3232	0.3232	1.634	
06/27/69	0.68	0.5282	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.5311	0.5310	0.5309	1.634	
06/29/69	0.70	0.4105	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.3954	0.3953	0.3952	1.634	

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
06/29/69	1.96	0.3558	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.2643	0.2643	0.2643	1.634	
06/30/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
07/02/69	0.31	0.3046	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.2882	0.2881	0.2881	1.634	
07/04/69	0.04	0.2348	0.1618	0	0	0.4948	0	0	0.3026	0	0.2176	0.2176	0.2176	0	
07/10/69	0.47	0.4304	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.4243	0.4242	0.4241	1.634	
07/11/69	0.07	0.2501	0.1618	0	0	0.4948	0	0	0.3026	0	0.2346	0.2346	0.2346	0	
07/16/69	0.52	0.4633	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.4605	0.4605	0.4604	1.634	
07/17/69	0.85	0.4143	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.3958	0.3957	0.3956	1.634	
07/17/69	1.44	0.3505	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.3062	0.3061	0.3061	1.634	
07/18/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
07/23/69	0.11	0.2770	0.1618	0	0	0.4948	0	0	0.3026	0	0.2666	0.2665	0.2665	0	
07/26/69	1.37	0.5085	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.4979	0.4978	0.4978	1.634	
07/27/69	1.38	0.2864	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.2316	0.2315	0.2315	1.634	
07/31/69	0.04	0.2451	0.1618	0	0	0.4948	0	0	0.3026	0	0.2289	0.2289	0.2289	0	
08/04/69	0.03	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
08/07/69	0.10	0.3084	0.1618	0	0	0.4948	0	0	0.3026	0	0.3008	0.3008	0.3007	0	
08/09/69	0.08	0.2864	0.1618	0	0	0.4948	0	0	0.3026	0	0.2753	0.2753	0.2752	0	
08/16/69	0.32	0.5300	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.5421	0.5420	0.5419	1.634	
09/04/69	0.36	0.6207	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.6437	0.6436	0.6434	1.634	
09/05/69	0.74	0.8997	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.9582	0.9579	0.9577	1.634	
09/14/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
09/15/69	0.03	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
09/16/69	0.03	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
09/23/69	0.16	0.7509	0.1618	0	0	0.4948	0	0	0.3026	0	0.7905	0.7903	0.7901	0	
09/25/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
09/29/69	0.84	0.7284	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.7607	0.7605	0.7604	1.634	
10/06/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
10/06/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
10/09/69	0.05	0.4998	0.1618	0	0	0.4948	0	0	0.3026	0	0.5100	0.5099	0.5098	0	
10/10/69	0.14	0.6391	0.1618	0	0	0.4948	0	0	0.3026	0	0.6663	0.6661	0.6660	0	
10/10/69	1.34	0.4752	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.4588	0.4587	0.4586	1.634	
10/12/69	1.63	0.4039	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.3608	0.3607	0.3606	1.634	
10/15/69	0.16	0.5273	0.1618	0	0	0.4948	0	0	0.3026	0	0.5433	0.5431	0.5430	0	
10/19/69	0.44	0.4487	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.4457	0.4456	0.4455	1.634	
10/19/69	0.35	0.4291	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.4267	0.4266	0.4265	1.634	
10/21/69	0.02	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
10/24/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
10/30/69	0.32	0.5510	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.5659	0.5657	0.5656	1.634	
11/02/69	0.77	0.5152	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.5140	0.5139	0.5138	1.634	
11/11/69	0.05	0.4003	0.1618	0	0	0.4948	0	0	0.3026	0	0.4001	0.4001	0.4000	0	
11/11/69	0.04	0.3919	0.1618	0	0	0.4948	0	0	0.3026	0	0.3899	0.3899	0.3898	0	
11/13/69	0.03	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
11/17/69	0.15	0.6072	0.1618	0	0	0.4948	0	0	0.3026	0	0.6313	0.6312	0.6311	0	
11/18/69	0.02	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
11/19/69	0.01	0.4133	0.1618	0	0	0.4948	0	0	0.3026	0	0	0	0	0	
11/26/69	0.07	0.4538	0.1618	0	0	0.4948	0	0	0.3026	0	0.4616	0.4615	0.4614	0	
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Page 131 of 293

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonW\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Summary for Runoff Producing Events														
	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	4.482	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	4.926	4.924	4.923	1.634
FI Wt Ave:	N/A	0.5388	0.1618	0.1618	0.1618	0.4948	0.4948	0.4948	0.3026	0.3026	0.5377	0.5376	0.5375	1.634
Residential: Suburban Residential (North) Areas - Pollutant Concentration: Total Phosphorus (mg														
Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	4.826	0.1618	0	0	0.4948	0	4.927	4.923	5.208	0	0	0	0
03/20/69	0.04	2.813	0.1618	0	0	0.4948	0	2.713	2.712	5.195	0	0	0	0
03/21/69	0.08	2.050	0.1618	0	0	0.4948	0	2.082	2.080	2.291	0	0	0	0
03/24/69	0.64	1.868	0.1618	0.1618	0.1618	0.4948	0.4948	1.893	1.891	2.405	1.634	1.634	1.634	0.6160
03/28/69	0.08	1.381	0.1618	0	0	0.4948	0	1.374	1.373	1.767	0	0	0	0
04/01/69	0.29	1.613	0.1618	0.1618	0.1618	0.4948	0.4948	1.600	1.599	2.191	1.634	1.634	1.634	0.6160
04/04/69	0.43	1.035	0.1618	0.1618	0.1618	0.4948	0.4948	1.014	1.014	1.490	1.634	1.634	1.634	0.6160
04/08/69	0.71	0.9280	0.1618	0.1618	0.1618	0.4948	0.4948	0.8984	0.8979	1.440	1.634	1.634	1.634	0.6160
04/14/69	0.52	0.7656	0.1618	0.1618	0.1618	0.4948	0.4948	0.7407	0.7403	1.131	1.634	1.634	1.634	0.6160
04/16/69	0.10	0.6042	0.1618	0	0	0.4948	0	0.5686	0.5683	1.027	0	0	0	0
04/16/69	1.26	0.5479	0.1618	0.1618	0.1618	0.4948	0.4948	0.5258	0.5255	0.6979	1.634	1.634	1.634	0.6160
04/21/69	0.04	0.4823	0.1618	0	0	0.4948	0	0.4395	0.4392	1.210	0	0	0	0
04/27/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
04/28/69	0.06	0.4954	0.1618	0	0	0.4948	0	0.4694	0.4691	0.8400	0	0	0	0
05/01/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
05/05/69	0.18	0.9163	0.1618	0	0	0.4948	0	0.9070	0.9065	1.185	0	0		

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
05/06/69	0.02	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
05/06/69	0.06	0.4644	0.1618	0	0	0.4948	0	0.4454	0.4452	0.7233	0	0	0	0
05/08/69	0.26	0.6973	0.1618	0.1618	0.1618	0.4948	0.4948	0.6950	0.6946	0.8339	1.634	1.634	1.634	0.6160
05/08/69	0.22	0.6612	0.1618	0.1618	0.1618	0.4948	0.4948	0.6575	0.6571	0.8034	1.634	1.634	1.634	0.6160
05/10/69	0.02	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
05/13/69	0.18	0.6778	0.1618	0	0	0.4948	0	0.6714	0.6710	0.8530	0	0	0	0
05/17/69	1.33	0.4478	0.1618	0.1618	0.1618	0.4948	0.4948	0.4321	0.4319	0.4668	1.634	1.634	1.634	0.6160
05/20/69	0.03	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
05/21/69	0.55	0.4781	0.1618	0.1618	0.1618	0.4948	0.4948	0.4667	0.4664	0.5610	1.634	1.634	1.634	0.6160
05/24/69	0.06	0.3596	0.1618	0	0	0.4948	0	0.3450	0.3448	0.5407	0	0	0	0
05/26/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
05/31/69	0.12	0.4851	0.1618	0	0	0.4948	0	0.4732	0.4730	0.6611	0	0	0	0
06/01/69	0.04	0.4008	0.1618	0	0	0.4948	0	0.3756	0.3754	0.8244	0	0	0	0
06/02/69	0.05	0.3899	0.1618	0	0	0.4948	0	0.3708	0.3706	0.6620	0	0	0	0
06/03/69	0.02	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
06/04/69	0.40	0.4834	0.1618	0.1618	0.1618	0.4948	0.4948	0.4773	0.4771	0.5340	1.634	1.634	1.634	0.6160
06/06/69	0.09	0.3660	0.1618	0	0	0.4948	0	0.3586	0.3584	0.4611	0	0	0	0
06/07/69	0.83	0.4830	0.1618	0.1618	0.1618	0.4948	0.4948	0.4703	0.4701	0.5391	1.634	1.634	1.634	0.6160
06/11/69	0.07	0.3260	0.1618	0	0	0.4948	0	0.3178	0.3177	0.4200	0	0	0	0
06/11/69	0.03	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
06/12/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
06/12/69	0.24	0.5310	0.1618	0.1618	0.1618	0.4948	0.4948	0.5286	0.5283	0.6152	1.634	1.634	1.634	0.6160
06/17/69	0.36	0.5401	0.1618	0.1618	0.1618	0.4948	0.4948	0.5446	0.5443	0.5341	1.634	1.634	1.634	0.6160
06/18/69	0.16	0.4640	0.1618	0	0	0.4948	0	0.4574	0.4571	0.5825	0	0	0	0
06/19/69	0.09	0.3095	0.1618	0	0	0.4948	0	0.3035	0.3034	0.3755	0	0	0	0
06/21/69	0.02	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
06/22/69	0.36	0.4059	0.1618	0.1618	0.1618	0.4948	0.4948	0.3978	0.3976	0.4497	1.634	1.634	1.634	0.6160
06/22/69	0.05	0.2900	0.1618	0	0	0.4948	0	0.2781	0.2780	0.4382	0	0	0	0
06/25/69	1.68	0.3533	0.1618	0.1618	0.1618	0.4948	0.4948	0.3233	0.3232	0.3033	1.634	1.634	1.634	0.6160
06/27/69	0.68	0.5304	0.1618	0.1618	0.1618	0.4948	0.4948	0.5312	0.5309	0.5083	1.634	1.634	1.634	0.6160
06/29/69	0.70	0.4091	0.1618	0.1618	0.1618	0.4948	0.4948	0.3954	0.3952	0.4481	1.634	1.634	1.634	0.6160
06/29/69	1.96	0.3297	0.1618	0.1618	0.1618	0.4948	0.4948	0.2644	0.2643	0.2583	1.634	1.634	1.634	0.6160
06/30/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
07/02/69	0.31	0.3021	0.1618	0.1618	0.1618	0.4948	0.4948	0.2882	0.2881	0.3737	1.634	1.634	1.634	0.6160
07/04/69	0.04	0.2307	0.1618	0	0	0.4948	0	0.2176	0.2176	0.4083	0	0	0	0
07/10/69	0.47	0.4313	0.1618	0.1618	0.1618	0.4948	0.4948	0.4243	0.4241	0.4564	1.634	1.634	1.634	0.6160
07/11/69	0.07	0.2439	0.1618	0	0	0.4948	0	0.2347	0.2346	0.3230	0	0	0	0
07/16/69	0.52	0.4662	0.1618	0.1618	0.1618	0.4948	0.4948	0.4606	0.4604	0.4909	1.634	1.634	1.634	0.6160
07/17/69	0.85	0.4139	0.1618	0.1618	0.1618	0.4948	0.4948	0.3958	0.3956	0.4739	1.634	1.634	1.634	0.6160
07/17/69	1.44	0.3301	0.1618	0.1618	0.1618	0.4948	0.4948	0.3062	0.3061	0.3273	1.634	1.634	1.634	0.6160
07/18/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
07/23/69	0.11	0.2773	0.1618	0	0	0.4948	0	0.2666	0.2665	0.3822	0	0	0	0
07/26/69	1.37	0.4998	0.1618	0.1618	0.1618	0.4948	0.4948	0.4980	0.4978	0.4359	1.634	1.634	1.634	0.6160
07/27/69	1.38	0.2649	0.1618	0.1618	0.1618	0.4948	0.4948	0.2316	0.2315	0.3001	1.634	1.634	1.634	0.6160
07/31/69	0.04	0.2459	0.1618	0	0	0.4948	0	0.2290	0.2289	0.4881	0	0	0	0
08/04/69	0.03	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
08/07/69	0.10	0.3137	0.1618	0	0	0.4948	0	0.3009	0.3007	0.4460	0	0	0	0
08/09/69	0.08	0.2857	0.1618	0	0	0.4948	0	0.2753	0.2752	0.3817	0	0	0	0
08/16/69	0.32	0.5472	0.1618	0.1618	0.1618	0.4948	0.4948	0.5422	0.5419	0.6379	1.634	1.634	1.634	0.6160

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
09/04/69	0.36	0.6522	0.1618	0.1618	0.1618	0.4948	0.4948	0.6438	0.6434	0.8110	1.634	1.634	1.634	0.6160
09/05/69	0.74	0.9201	0.1618	0.1618	0.1618	0.4948	0.4948	0.9583	0.9577	0.7783	1.634	1.634	1.634	0.6160
09/14/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
09/15/69	0.03	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
09/16/69	0.03	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
09/23/69	0.16	0.8141	0.1618	0	0	0.4948	0	0.7906	0.7901	1.185	0	0	0	0
09/25/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
09/29/69	0.84	0.7579	0.1618	0.1618	0.1618	0.4948	0.4948	0.7608	0.7604	0.8482	1.634	1.634	1.634	0.6160
10/06/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
10/06/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
10/09/69	0.05	0.5428	0.1618	0	0	0.4948	0	0.5100	0.5098	1.036	0	0	0	0
10/10/69	0.14	0.6800	0.1618	0	0	0.4948	0	0.6664	0.6660	0.9249	0	0	0	0
10/10/69	1.34	0.4737	0.1618	0.1618	0.1618	0.4948	0.4948	0.4589	0.4586	0.5026	1.634	1.634	1.634	0.6160
10/12/69	1.63	0.3865	0.1618	0.1618	0.1618	0.4948	0.4948	0.3608	0.3606	0.3779	1.634	1.634	1.634	0.6160
10/15/69	0.16	0.5531	0.1618	0	0	0.4948	0	0.5433	0.5430	0.7246	0	0	0	0
10/19/69	0.44	0.4553	0.1618	0.1618	0.1618	0.4948	0.4948	0.4458	0.4455	0.5181	1.634	1.634	1.634	0.6160
10/19/69	0.35	0.4341	0.1618	0.1618	0.1618	0.4948	0.4948	0.4267	0.4265	0.4876	1.634	1.634	1.634	0.6160
10/21/69	0.02	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
10/24/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
10/30/69	0.32	0.5716	0.1618	0.1618	0.1618	0.4948	0.4948	0.5659	0.5656	0.6791	1.634	1.634	1.634	0.6160
11/02/69	0.77	0.5280	0.1618	0.1618	0.1618	0.4948	0.4948	0.5141	0.5138	0.6318	1.634	1.634	1.634	0.6160
11/11/69	0.05	0.4246	0.1618	0	0	0.4948	0	0.4002	0.4000	0.7748	0	0	0	0
11/11/69	0.04	0.4182	0.1618	0	0	0.4948	0	0.3900	0.3898	0.8941	0	0	0	0
11/13/69	0.03	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
11/17/69	0.15	0.6452	0.1618	0	0	0.4948	0	0.6314	0.6311	0.8810	0	0	0	0
11/18/69	0.02	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
11/19/69	0.01	0.3226	0.1618	0	0	0.4948	0	0	0	0	0	0	0	0
11/26/69	0.07	0.4783	0.1618	0	0	0.4948	0	0.4616	0.4614	0.6969	0	0	0	0
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Summary for Runoff Producing Events														
	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
Minimum:	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	4.826	0.1618	0.1618	0.1618	0.4948	0.4948	4.927	4.923	5.208	1.634	1.634	1.634	0.6160
Fl Wt Ave:	N/A	0.5491	0.1618	0.1618	0.1618	0.4948	0.4948	0.5378	0.5375	0.6124	1.634	1.634	1.634	0.6160
Industrial: Light Industrial Areas - Pollutant Concentration: Total Phosphorus (mg/L)														

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
Start Date	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undeveloped Areas 1	Undeveloped Areas 2							
01/05/69	-	-	-	-	-	-	-	-							
01/06/69	-	-	-	-	-	-	-	-							
01/08/69	-	-	-	-	-	-	-	-							
01/15/69	-	-	-	-	-	-	-	-							
01/17/69	-	-	-	-	-	-	-	-							
01/23/69	-	-	-	-	-	-	-	-							
01/24/69	-	-	-	-	-	-	-	-							
01/28/69	-	-	-	-	-	-	-	-							
01/29/69	-	-	-	-	-	-	-	-							
02/06/69	-	-	-	-	-	-	-	-							
02/06/69	-	-	-	-	-	-	-	-							
02/22/69	-	-	-	-	-	-	-	-							
03/06/69	-	-	-	-	-	-	-	-							
03/20/69	0.18	8.943	8.941	8.966	8.935	0	0	0							
03/20/69	0.04	1.459	1.459	1.462	1.458	0	0	0							
03/21/69	0.08	6.300	6.299	6.316	6.294	0	0	0							
03/24/69	0.64	1.801	1.891	1.896	1.890	0	0.6160	0.6160							
03/28/69	0.08	4.153	4.152	4.163	4.150	0	0	0							
04/01/69	0.29	2.641	2.698	2.705	2.697	0	0.6160	0.6160							
04/04/69	0.43	1.547	1.602	1.606	1.601	0	0.6160	0.6160							
04/08/69	0.71	0.8679	0.8895	0.8910	0.8891	0	0.6160	0.6160							
04/14/69	0.52	0.9486	0.9702	0.9720	0.9698	0	0.6160	0.6160							
04/16/69	0.10	1.594	1.593	1.597	1.593	0	0	0							
04/16/69	1.26	0.5345	0.5244	0.5249	0.5243	0	0.6160	0.6160							
04/21/69	0.04	0.4582	0.4581	0.4585	0.4581	0	0	0							
04/27/69	0.01	0	0	0	0	0	0	0							
04/28/69	0.06	0.8379	0.8378	0.8392	0.8375	0	0	0							
05/01/69	0.01	0	0	0	0	0	0	0							
05/05/69	0.18	1.346	1.346	1.349	1.345	0	0	0							
05/06/69	0.02	0	0	0	0	0	0	0							
05/06/69	0.06	0.7789	0.7788	0.7801	0.7785	0	0	0							
05/08/69	0.26	1.022	1.029	1.031	1.029	0	0.6160	0.6160							
05/08/69	0.22	1.009	1.012	1.014	1.012	0	0.6160	0.6160							
05/10/69	0.02	0	0	0	0	0	0	0							
05/13/69	0.18	1.098	1.098	1.100	1.098	0	0	0							
05/17/69	1.33	0.4866	0.4704	0.4707	0.4703	0	0.6160	0.6160							
05/20/69	0.03	0	0	0	0	0	0	0							
05/21/69	0.55	0.6385	0.6400	0.6408	0.6398	0	0.6160	0.6160							
05/24/69	0.06	0.6870	0.6869	0.6879	0.6867	0	0	0							
05/26/69	0.01	0	0	0	0	0	0	0							
05/31/69	0.12	1.242	1.241	1.244	1.241	0	0	0							
06/01/69	0.04	0.4339	0.4339	0.4342	0.4339	0	0	0							
06/02/69	0.05	0.5821	0.5820	0.5827	0.5819	0	0	0							
06/03/69	0.02	0	0	0	0	0	0	0							
06/04/69	0.40	0.7728	0.7817	0.7829	0.7814	0	0.6160	0.6160							
06/06/69	0.09	0.9604	0.9603	0.9621	0.9599	0	0	0							

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\Jackson\W\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
06/07/69	0.83	0.5251	0.5161	0.5166	0.5160	0	0.6160	0.6160							
06/11/69	0.07	0.7593	0.7593	0.7604	0.7590	0	0	0							
06/11/69	0.03	0	0	0	0	0	0	0							
06/12/69	0.01	0	0	0	0	0	0	0							
06/12/69	0.24	0.8893	0.8929	0.8945	0.8925	0	0.6160	0.6160							
06/17/69	0.36	0.9055	0.9192	0.9209	0.9188	0	0.6160	0.6160							
06/18/69	0.16	0.9496	0.9495	0.9512	0.9490	0	0	0							
06/19/69	0.09	0.8581	0.8581	0.8595	0.8577	0	0	0							
06/21/69	0.02	0	0	0	0	0	0	0							
06/22/69	0.36	0.7303	0.7357	0.7368	0.7354	0	0.6160	0.6160							
06/22/69	0.05	0.5173	0.5173	0.5177	0.5171	0	0	0							
06/25/69	1.68	0.4717	0.4407	0.4410	0.4407	0	0.6160	0.6160							
06/27/69	0.68	0.6386	0.6404	0.6412	0.6402	0	0.6160	0.6160							
06/29/69	0.70	0.5447	0.5386	0.5391	0.5384	0	0.6160	0.6160							
06/29/69	1.96	0.4756	0.4161	0.4163	0.4161	0	0.6160	0.6160							
06/30/69	0.01	0	0	0	0	0	0	0							
07/02/69	0.31	0.6012	0.6006	0.6014	0.6004	0	0.6160	0.6160							
07/04/69	0.04	0.3894	0.3894	0.3895	0.3894	0	0	0							
07/10/69	0.47	0.7206	0.7270	0.7281	0.7267	0	0.6160	0.6160							
07/11/69	0.07	0.6285	0.6285	0.6293	0.6283	0	0	0							
07/16/69	0.52	0.7242	0.7312	0.7323	0.7309	0	0.6160	0.6160							
07/17/69	0.85	0.5160	0.5061	0.5065	0.5059	0	0.6160	0.6160							
07/17/69	1.44	0.4612	0.4411	0.4413	0.4410	0	0.6160	0.6160							
07/18/69	0.01	0	0	0	0	0	0	0							
07/23/69	0.11	0.8479	0.8478	0.8493	0.8475	0	0	0							
07/26/69	1.37	0.5459	0.5370	0.5375	0.5368	0	0.6160	0.6160							
07/27/69	1.38	0.4291	0.4052	0.4054	0.4052	0	0.6160	0.6160							
07/31/69	0.04	0.3962	0.3962	0.3963	0.3962	0	0	0							
08/04/69	0.03	0	0	0	0	0	0	0							
08/07/69	0.10	0.9532	0.9531	0.9549	0.9527	0	0	0							
08/09/69	0.08	0.8189	0.8188	0.8202	0.8185	0	0	0							
08/16/69	0.32	0.9745	0.9877	0.9895	0.9872	0	0.6160	0.6160							
09/04/69	0.36	0.9689	0.9857	0.9875	0.9852	0	0.6160	0.6160							
09/05/69	0.74	0.8047	0.8216	0.8230	0.8213	0	0.6160	0.6160							
09/14/69	0.01	0	0	0	0	0	0	0							
09/15/69	0.03	0	0	0	0	0	0	0							
09/16/69	0.03	0	0	0	0	0	0	0							
09/23/69	0.16	1.338	1.338	1.341	1.337	0	0	0							
09/25/69	0.01	0	0	0	0	0	0	0							
09/29/69	0.84	0.6275	0.6285	0.6294	0.6283	0	0.6160	0.6160							
10/06/69	0.01	0	0	0	0	0	0	0							
10/06/69	0.01	0	0	0	0	0	0	0							
10/09/69	0.05	0.6547	0.6546	0.6555	0.6544	0	0	0							
10/10/69	0.14	1.304	1.304	1.307	1.303	0	0	0							
10/10/69	1.34	0.4911	0.4753	0.4757	0.4753	0	0.6160	0.6160							
10/12/69	1.63	0.4674	0.4411	0.4414	0.4411	0	0.6160	0.6160							
10/15/69	0.16	1.040	1.040	1.042	1.039	0	0	0							
10/19/69	0.44	0.7018	0.7069	0.7079	0.7067	0	0.6160	0.6160							
10/19/69	0.35	0.7311	0.7362	0.7373	0.7359	0	0.6160	0.6160							

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonW\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
10/21/69	0.02	0	0	0	0	0	0	0						
10/24/69	0.01	0	0	0	0	0	0	0						
10/30/69	0.32	0.8979	0.9083	0.9099	0.9078	0	0.6160	0.6160						
11/02/69	0.77	0.5597	0.5543	0.5549	0.5542	0	0.6160	0.6160						
11/11/69	0.05	0.6038	0.6037	0.6045	0.6035	0	0	0						
11/11/69	0.04	0.4384	0.4384	0.4387	0.4383	0	0	0						
11/13/69	0.03	0	0	0	0	0	0	0						
11/17/69	0.15	1.228	1.228	1.230	1.227	0	0	0						
11/18/69	0.02	0	0	0	0	0	0	0						
11/19/69	0.01	0	0	0	0	0	0	0						
11/26/69	0.07	0.9437	0.9436	0.9453	0.9432	0	0	0						
12/07/69	-	-	-	-	-	-	-	-						
12/11/69	-	-	-	-	-	-	-	-						
12/16/69	-	-	-	-	-	-	-	-						
12/21/69	-	-	-	-	-	-	-	-						
12/23/69	-	-	-	-	-	-	-	-						
12/24/69	-	-	-	-	-	-	-	-						
12/24/69	-	-	-	-	-	-	-	-						
12/27/69	-	-	-	-	-	-	-	-						
12/28/69	-	-	-	-	-	-	-	-						
12/31/69	-	-	-	-	-	-	-	-						
Summary for Runoff Producing Events														
	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undevelope d Areas 1	Undevelope d Areas 2						
Minimum:	0.00	0	0	0	0	0	0	0						
Maximum:	1.96	8.943	8.941	8.966	8.935	0	0.6160	0.6160						
FI Wt Ave:	N/A	0.7039	0.7148	0.7158	0.7145	0.0	0.6160	0.6160						

Data File: C:\Users\carltonsm\OneDrive - CI						
Rain File: WisReg - Milwaukee WI 1969.RAI						
Date: 01-23-24 Time: 6:33:22 PM						
Site Description: Cedar Creek BMP Site						
Residential: Suburban Residential (South) A						
Start Date	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undeveloped Areas 1	Undeveloped Areas 2	Isolated Areas
01/05/69	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-
03/20/69	0.18	77.35	0	0	0	0
03/20/69	0.04	77.85	0	0	0	0
03/21/69	0.08	77.32	0	0	0	0
03/24/69	0.64	79.93	119.0	185.9	185.9	0
03/28/69	0.08	77.32	0	0	0	0
04/01/69	0.29	78.19	119.0	185.9	185.9	0
04/04/69	0.43	79.15	119.0	185.9	185.9	0
04/08/69	0.71	80.27	119.0	185.9	185.9	0
04/14/69	0.52	79.47	119.0	185.9	185.9	0
04/16/69	0.10	77.37	0	0	0	0
04/16/69	1.26	81.76	119.0	185.9	185.9	0
04/21/69	0.04	77.85	0	0	0	0
04/27/69	0.01	73.29	0	0	0	0
04/28/69	0.06	77.55	0	0	0	0
05/01/69	0.01	73.29	0	0	0	0
05/05/69	0.18	77.35	0	0	0	0
05/06/69	0.02	73.29	0	0	0	0
05/06/69	0.06	77.55	0	0	0	0
05/08/69	0.26	77.93	119.0	185.9	185.9	0
05/08/69	0.22	77.56	119.0	185.9	185.9	0
05/10/69	0.02	73.29	0	0	0	0
05/13/69	0.18	77.35	0	0	0	0
05/17/69	1.33	82.04	119.0	185.9	185.9	0
05/20/69	0.03	73.29	0	0	0	0
05/21/69	0.55	79.56	119.0	185.9	185.9	0
05/24/69	0.06	77.55	0	0	0	0
05/26/69	0.01	73.29	0	0	0	0

Data File: C:\Users\cartlonsm\OneDrive - CI						
05/31/69	0.12	77.40	0	0	0	0
06/01/69	0.04	77.85	0	0	0	0
06/02/69	0.05	77.69	0	0	0	0
06/03/69	0.02	73.29	0	0	0	0
06/04/69	0.40	79.03	119.0	185.9	185.9	0
06/06/69	0.09	77.35	0	0	0	0
06/07/69	0.83	80.74	119.0	185.9	185.9	0
06/11/69	0.07	77.42	0	0	0	0
06/11/69	0.03	73.29	0	0	0	0
06/12/69	0.01	73.29	0	0	0	0
06/12/69	0.24	77.75	119.0	185.9	185.9	0
06/17/69	0.36	78.75	119.0	185.9	185.9	0
06/18/69	0.16	77.37	0	0	0	0
06/19/69	0.09	77.35	0	0	0	0
06/21/69	0.02	73.29	0	0	0	0
06/22/69	0.36	78.75	119.0	185.9	185.9	0
06/22/69	0.05	77.69	0	0	0	0
06/25/69	1.68	84.35	119.0	185.9	185.9	0
06/27/69	0.68	80.13	119.0	185.9	185.9	0
06/29/69	0.70	80.22	119.0	185.9	185.9	0
06/29/69	1.96	87.58	119.0	185.9	185.9	0
06/30/69	0.01	73.29	0	0	0	0
07/02/69	0.31	78.36	119.0	185.9	185.9	0
07/04/69	0.04	77.85	0	0	0	0
07/10/69	0.47	79.30	119.0	185.9	185.9	0
07/11/69	0.07	77.42	0	0	0	0
07/16/69	0.52	79.47	119.0	185.9	185.9	0
07/17/69	0.85	80.78	119.0	185.9	185.9	0
07/17/69	1.44	82.48	119.0	185.9	185.9	0
07/18/69	0.01	73.29	0	0	0	0
07/23/69	0.11	77.39	0	0	0	0
07/26/69	1.37	82.20	119.0	185.9	185.9	0
07/27/69	1.38	82.24	119.0	185.9	185.9	0
07/31/69	0.04	77.85	0	0	0	0
08/04/69	0.03	73.29	0	0	0	0
08/07/69	0.10	77.37	0	0	0	0
08/09/69	0.08	77.32	0	0	0	0
08/16/69	0.32	78.44	119.0	185.9	185.9	0
09/04/69	0.36	78.75	119.0	185.9	185.9	0
09/05/69	0.74	80.42	119.0	185.9	185.9	0
09/14/69	0.01	73.29	0	0	0	0
09/15/69	0.03	73.29	0	0	0	0
09/16/69	0.03	73.29	0	0	0	0
09/23/69	0.16	77.37	0	0	0	0
09/25/69	0.01	73.29	0	0	0	0
09/29/69	0.84	80.76	119.0	185.9	185.9	0
10/06/69	0.01	73.29	0	0	0	0
10/06/69	0.01	73.29	0	0	0	0
10/09/69	0.05	77.69	0	0	0	0

Data File: C:\Users\carltonsm\OneDrive - CI						
10/10/69	0.14	77.39	0	0	0	0
10/10/69	1.34	82.08	119.0	185.9	185.9	0
10/12/69	1.63	83.73	119.0	185.9	185.9	0
10/15/69	0.16	77.37	0	0	0	0
10/19/69	0.44	79.19	119.0	185.9	185.9	0
10/19/69	0.35	78.68	119.0	185.9	185.9	0
10/21/69	0.02	73.29	0	0	0	0
10/24/69	0.01	73.29	0	0	0	0
10/30/69	0.32	78.44	119.0	185.9	185.9	0
11/02/69	0.77	80.56	119.0	185.9	185.9	0
11/11/69	0.05	77.69	0	0	0	0
11/11/69	0.04	77.85	0	0	0	0
11/13/69	0.03	73.29	0	0	0	0
11/17/69	0.15	77.38	0	0	0	0
11/18/69	0.02	73.29	0	0	0	0
11/19/69	0.01	73.29	0	0	0	0
11/26/69	0.07	77.42	0	0	0	0
12/07/69	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undevelope d Areas 1	Undevelope d Areas 2	Isolated Areas
Minimum:	0.00	0	0	0	0	0
Maximum:	1.96	87.58	119.0	185.9	185.9	0
FI Wt Ave:	N/A	81.49	119.0	185.9	185.9	0.0
Residential: Suburban Residential (North) A						
Start Date	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
01/05/69	-	-	-	-	-	
01/06/69	-	-	-	-	-	
01/08/69	-	-	-	-	-	
01/15/69	-	-	-	-	-	
01/17/69	-	-	-	-	-	
01/23/69	-	-	-	-	-	
01/24/69	-	-	-	-	-	
01/28/69	-	-	-	-	-	
01/29/69	-	-	-	-	-	

Data File: C:\Users\carltonsm\OneDrive - CI					
02/06/69	-	-	-	-	-
02/06/69	-	-	-	-	-
02/22/69	-	-	-	-	-
03/06/69	-	-	-	-	-
03/20/69	0.18	77.59	0	0	0
03/20/69	0.04	77.93	0	0	0
03/21/69	0.08	77.56	0	0	0
03/24/69	0.64	80.05	185.9	185.9	0
03/28/69	0.08	77.56	0	0	0
04/01/69	0.29	78.47	185.9	185.9	0
04/04/69	0.43	79.45	185.9	185.9	0
04/08/69	0.71	80.33	185.9	185.9	0
04/14/69	0.52	79.68	185.9	185.9	0
04/16/69	0.10	77.60	0	0	0
04/16/69	1.26	81.40	185.9	185.9	0
04/21/69	0.04	77.93	0	0	0
04/27/69	0.01	58.83	0	0	0
04/28/69	0.06	77.72	0	0	0
05/01/69	0.01	58.83	0	0	0
05/05/69	0.18	77.59	0	0	0
05/06/69	0.02	58.83	0	0	0
05/06/69	0.06	77.72	0	0	0
05/08/69	0.26	78.20	185.9	185.9	0
05/08/69	0.22	77.81	185.9	185.9	0
05/10/69	0.02	58.83	0	0	0
05/13/69	0.18	77.59	0	0	0
05/17/69	1.33	81.47	185.9	185.9	0
05/20/69	0.03	58.83	0	0	0
05/21/69	0.55	79.75	185.9	185.9	0
05/24/69	0.06	77.72	0	0	0
05/26/69	0.01	58.83	0	0	0
05/31/69	0.12	77.63	0	0	0
06/01/69	0.04	77.93	0	0	0
06/02/69	0.05	77.82	0	0	0
06/03/69	0.02	58.83	0	0	0
06/04/69	0.40	79.36	185.9	185.9	0
06/06/69	0.09	77.58	0	0	0
06/07/69	0.83	80.69	185.9	185.9	0
06/11/69	0.07	77.63	0	0	0
06/11/69	0.03	58.83	0	0	0
06/12/69	0.01	58.83	0	0	0
06/12/69	0.24	78.01	185.9	185.9	0
06/17/69	0.36	79.07	185.9	185.9	0
06/18/69	0.16	77.60	0	0	0
06/19/69	0.09	77.58	0	0	0
06/21/69	0.02	58.83	0	0	0
06/22/69	0.36	79.07	185.9	185.9	0
06/22/69	0.05	77.82	0	0	0
06/25/69	1.68	83.73	185.9	185.9	0

Data File: C:\Users\carltonsm\OneDrive - CI						
06/27/69	0.68	80.21	185.9	185.9	0	
06/29/69	0.70	80.29	185.9	185.9	0	
06/29/69	1.96	88.55	185.9	185.9	0	
06/30/69	0.01	58.83	0	0	0	
07/02/69	0.31	78.65	185.9	185.9	0	
07/04/69	0.04	77.93	0	0	0	
07/10/69	0.47	79.55	185.9	185.9	0	
07/11/69	0.07	77.63	0	0	0	
07/16/69	0.52	79.68	185.9	185.9	0	
07/17/69	0.85	80.71	185.9	185.9	0	
07/17/69	1.44	81.58	185.9	185.9	0	
07/18/69	0.01	58.83	0	0	0	
07/23/69	0.11	77.62	0	0	0	
07/26/69	1.37	81.51	185.9	185.9	0	
07/27/69	1.38	81.52	185.9	185.9	0	
07/31/69	0.04	77.93	0	0	0	
08/04/69	0.03	58.83	0	0	0	
08/07/69	0.10	77.60	0	0	0	
08/09/69	0.08	77.56	0	0	0	
08/16/69	0.32	78.74	185.9	185.9	0	
09/04/69	0.36	79.07	185.9	185.9	0	
09/05/69	0.74	80.46	185.9	185.9	0	
09/14/69	0.01	58.83	0	0	0	
09/15/69	0.03	58.83	0	0	0	
09/16/69	0.03	58.83	0	0	0	
09/23/69	0.16	77.60	0	0	0	
09/25/69	0.01	58.83	0	0	0	
09/29/69	0.84	80.70	185.9	185.9	0	
10/06/69	0.01	58.83	0	0	0	
10/06/69	0.01	58.83	0	0	0	
10/09/69	0.05	77.82	0	0	0	
10/10/69	0.14	77.61	0	0	0	
10/10/69	1.34	81.48	185.9	185.9	0	
10/12/69	1.63	82.79	185.9	185.9	0	
10/15/69	0.16	77.60	0	0	0	
10/19/69	0.44	79.47	185.9	185.9	0	
10/19/69	0.35	78.99	185.9	185.9	0	
10/21/69	0.02	58.83	0	0	0	
10/24/69	0.01	58.83	0	0	0	
10/30/69	0.32	78.74	185.9	185.9	0	
11/02/69	0.77	80.58	185.9	185.9	0	
11/11/69	0.05	77.82	0	0	0	
11/11/69	0.04	77.93	0	0	0	
11/13/69	0.03	58.83	0	0	0	
11/17/69	0.15	77.61	0	0	0	
11/18/69	0.02	58.83	0	0	0	
11/19/69	0.01	58.83	0	0	0	
11/26/69	0.07	77.63	0	0	0	
12/07/69	-	-	-	-	-	

Data File: C:\Users\carltonsm\OneDrive - CI						
12/11/69	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
Minimum:	0.00	0	0	0	0	
Maximum:	1.96	88.55	185.9	185.9	0	
FI Wt Ave:	N/A	81.33	185.9	185.9	0.0	
Industrial: Light Industrial Areas - Pollutant C						
Start Date	Rain Total (in.)	Land Use Totals				
01/05/69	-	-				
01/06/69	-	-				
01/08/69	-	-				
01/15/69	-	-				
01/17/69	-	-				
01/23/69	-	-				
01/24/69	-	-				
01/28/69	-	-				
01/29/69	-	-				
02/06/69	-	-				
02/06/69	-	-				
02/22/69	-	-				
03/06/69	-	-				
03/20/69	0.18	115.0				
03/20/69	0.04	115.0				
03/21/69	0.08	115.0				
03/24/69	0.64	120.0				
03/28/69	0.08	115.0				
04/01/69	0.29	117.0				
04/04/69	0.43	119.0				
04/08/69	0.71	120.6				
04/14/69	0.52	119.4				
04/16/69	0.10	115.0				
04/16/69	1.26	122.8				
04/21/69	0.04	115.0				
04/27/69	0.01	0				
04/28/69	0.06	115.0				

Data File: C:\Users\carltonsm\OneDrive - CI						
05/01/69	0.01	0				
05/05/69	0.18	115.0				
05/06/69	0.02	0				
05/06/69	0.06	115.0				
05/08/69	0.26	116.4				
05/08/69	0.22	115.5				
05/10/69	0.02	0				
05/13/69	0.18	115.0				
05/17/69	1.33	122.9				
05/20/69	0.03	0				
05/21/69	0.55	119.5				
05/24/69	0.06	115.0				
05/26/69	0.01	0				
05/31/69	0.12	115.0				
06/01/69	0.04	115.0				
06/02/69	0.05	115.0				
06/03/69	0.02	0				
06/04/69	0.40	118.8				
06/06/69	0.09	115.0				
06/07/69	0.83	121.3				
06/11/69	0.07	115.0				
06/11/69	0.03	0				
06/12/69	0.01	0				
06/12/69	0.24	115.9				
06/17/69	0.36	118.2				
06/18/69	0.16	115.0				
06/19/69	0.09	115.0				
06/21/69	0.02	0				
06/22/69	0.36	118.2				
06/22/69	0.05	115.0				
06/25/69	1.68	127.5				
06/27/69	0.68	120.4				
06/29/69	0.70	120.5				
06/29/69	1.96	136.1				
06/30/69	0.01	0				
07/02/69	0.31	117.3				
07/04/69	0.04	115.0				
07/10/69	0.47	119.2				
07/11/69	0.07	115.0				
07/16/69	0.52	119.4				
07/17/69	0.85	121.4				
07/17/69	1.44	123.2				
07/18/69	0.01	0				
07/23/69	0.11	115.0				
07/26/69	1.37	123.0				
07/27/69	1.38	123.0				
07/31/69	0.04	115.0				
08/04/69	0.03	0				
08/07/69	0.10	115.0				

Data File: C:\Users\carltonsm\OneDrive - CI						
08/09/69	0.08	115.0				
08/16/69	0.32	117.5				
09/04/69	0.36	118.2				
09/05/69	0.74	120.9				
09/14/69	0.01	0				
09/15/69	0.03	0				
09/16/69	0.03	0				
09/23/69	0.16	115.0				
09/25/69	0.01	0				
09/29/69	0.84	121.4				
10/06/69	0.01	0				
10/06/69	0.01	0				
10/09/69	0.05	115.0				
10/10/69	0.14	115.0				
10/10/69	1.34	122.9				
10/12/69	1.63	125.7				
10/15/69	0.16	115.0				
10/19/69	0.44	119.0				
10/19/69	0.35	118.1				
10/21/69	0.02	0				
10/24/69	0.01	0				
10/30/69	0.32	117.5				
11/02/69	0.77	121.1				
11/11/69	0.05	115.0				
11/11/69	0.04	115.0				
11/13/69	0.03	0				
11/17/69	0.15	115.0				
11/18/69	0.02	0				
11/19/69	0.01	0				
11/26/69	0.07	115.0				
12/07/69	-	-				
12/11/69	-	-				
12/16/69	-	-				
12/21/69	-	-				
12/23/69	-	-				
12/24/69	-	-				
12/24/69	-	-				
12/27/69	-	-				
12/28/69	-	-				
12/31/69	-	-				
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals				
Minimum:	0.00	0				
Maximum:	1.96	136.1				
FI Wt Ave:	N/A	122.8				

Data File: C:\Users\carltonsm\OneDrive - CI						
Residential: Suburban Residential (South) A						
Start Date	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undeveloped Areas 1	Undeveloped Areas 2	Isolated Areas
01/05/69	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-
03/20/69	0.18	1970	0	0	0	0
03/20/69	0.04	1114	0	0	0	0
03/21/69	0.08	850.3	0	0	0	0
03/24/69	0.64	765.1	346.0	201.9	201.9	0
03/28/69	0.08	575.6	0	0	0	0
04/01/69	0.29	660.7	346.0	201.9	201.9	0
04/04/69	0.43	432.2	346.0	201.9	201.9	0
04/08/69	0.71	386.9	346.0	201.9	201.9	0
04/14/69	0.52	328.4	346.0	201.9	201.9	0
04/16/69	0.10	263.9	0	0	0	0
04/16/69	1.26	245.5	346.0	201.9	201.9	0
04/21/69	0.04	215.0	0	0	0	0
04/27/69	0.01	196.7	0	0	0	0
04/28/69	0.06	225.6	0	0	0	0
05/01/69	0.01	196.7	0	0	0	0
05/05/69	0.18	396.3	0	0	0	0
05/06/69	0.02	196.7	0	0	0	0
05/06/69	0.06	216.3	0	0	0	0
05/08/69	0.26	312.1	346.0	201.9	201.9	0
05/08/69	0.22	298.1	346.0	201.9	201.9	0
05/10/69	0.02	196.7	0	0	0	0
05/13/69	0.18	304.0	0	0	0	0
05/17/69	1.33	211.4	346.0	201.9	201.9	0
05/20/69	0.03	196.7	0	0	0	0
05/21/69	0.55	224.1	346.0	201.9	201.9	0
05/24/69	0.06	177.0	0	0	0	0
05/26/69	0.01	196.7	0	0	0	0
05/31/69	0.12	226.7	0	0	0	0
06/01/69	0.04	189.8	0	0	0	0
06/02/69	0.05	187.5	0	0	0	0
06/03/69	0.02	196.7	0	0	0	0
06/04/69	0.40	227.7	346.0	201.9	201.9	0

Data File: C:\Users\cartlonsm\OneDrive - CI						
06/06/69	0.09	181.7	0	0	0	0
06/07/69	0.83	225.5	346.0	201.9	201.9	0
06/11/69	0.07	166.1	0	0	0	0
06/11/69	0.03	196.7	0	0	0	0
06/12/69	0.01	196.7	0	0	0	0
06/12/69	0.24	247.8	346.0	201.9	201.9	0
06/17/69	0.36	253.5	346.0	201.9	201.9	0
06/18/69	0.16	220.3	0	0	0	0
06/19/69	0.09	160.2	0	0	0	0
06/21/69	0.02	196.7	0	0	0	0
06/22/69	0.36	197.4	346.0	201.9	201.9	0
06/22/69	0.05	151.0	0	0	0	0
06/25/69	1.68	173.7	346.0	201.9	201.9	0
06/27/69	0.68	248.5	346.0	201.9	201.9	0
06/29/69	0.70	197.3	346.0	201.9	201.9	0
06/29/69	1.96	156.8	346.0	201.9	201.9	0
06/30/69	0.01	196.7	0	0	0	0
07/02/69	0.31	155.1	346.0	201.9	201.9	0
07/04/69	0.04	127.3	0	0	0	0
07/10/69	0.47	207.8	346.0	201.9	201.9	0
07/11/69	0.07	133.7	0	0	0	0
07/16/69	0.52	221.7	346.0	201.9	201.9	0
07/17/69	0.85	197.6	346.0	201.9	201.9	0
07/17/69	1.44	166.1	346.0	201.9	201.9	0
07/18/69	0.01	196.7	0	0	0	0
07/23/69	0.11	145.4	0	0	0	0
07/26/69	1.37	235.3	346.0	201.9	201.9	0
07/27/69	1.38	138.9	346.0	201.9	201.9	0
07/31/69	0.04	131.8	0	0	0	0
08/04/69	0.03	196.7	0	0	0	0
08/07/69	0.10	159.0	0	0	0	0
08/09/69	0.08	149.4	0	0	0	0
08/16/69	0.32	252.7	346.0	201.9	201.9	0
09/04/69	0.36	291.4	346.0	201.9	201.9	0
09/05/69	0.74	409.0	346.0	201.9	201.9	0
09/14/69	0.01	196.7	0	0	0	0
09/15/69	0.03	196.7	0	0	0	0
09/16/69	0.03	196.7	0	0	0	0
09/23/69	0.16	351.0	0	0	0	0
09/25/69	0.01	196.7	0	0	0	0
09/29/69	0.84	334.0	346.0	201.9	201.9	0
10/06/69	0.01	196.7	0	0	0	0
10/06/69	0.01	196.7	0	0	0	0
10/09/69	0.05	242.2	0	0	0	0
10/10/69	0.14	302.5	0	0	0	0
10/10/69	1.34	221.1	346.0	201.9	201.9	0
10/12/69	1.63	186.5	346.0	201.9	201.9	0
10/15/69	0.16	254.0	0	0	0	0
10/19/69	0.44	215.9	346.0	201.9	201.9	0

Data File: C:\Users\carltonsm\OneDrive - CI						
10/19/69	0.35	208.4	346.0	201.9	201.9	0
10/21/69	0.02	196.7	0	0	0	0
10/24/69	0.01	196.7	0	0	0	0
10/30/69	0.32	261.8	346.0	201.9	201.9	0
11/02/69	0.77	241.9	346.0	201.9	201.9	0
11/11/69	0.05	199.0	0	0	0	0
11/11/69	0.04	195.5	0	0	0	0
11/13/69	0.03	196.7	0	0	0	0
11/17/69	0.15	288.7	0	0	0	0
11/18/69	0.02	196.7	0	0	0	0
11/19/69	0.01	196.7	0	0	0	0
11/26/69	0.07	222.1	0	0	0	0
12/07/69	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undevelope d Areas 1	Undevelope d Areas 2	Isolated Areas
Minimum:	0.00	0	0	0	0	0
Maximum:	1.96	1970	346.0	201.9	201.9	0
FI Wt Ave:	N/A	249.9	346.0	201.9	201.9	0.0
Residential: Suburban Residential (North) A						
Start Date	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
01/05/69	-	-	-	-	-	
01/06/69	-	-	-	-	-	
01/08/69	-	-	-	-	-	
01/15/69	-	-	-	-	-	
01/17/69	-	-	-	-	-	
01/23/69	-	-	-	-	-	
01/24/69	-	-	-	-	-	
01/28/69	-	-	-	-	-	
01/29/69	-	-	-	-	-	
02/06/69	-	-	-	-	-	
02/06/69	-	-	-	-	-	
02/22/69	-	-	-	-	-	
03/06/69	-	-	-	-	-	
03/20/69	0.18	2119	0	0	0	

Data File: C:\Users\carltonsm\OneDrive - CI						
03/20/69	0.04	1246	0	0	0	
03/21/69	0.08	915.1	0	0	0	
03/24/69	0.64	832.3	201.9	201.9	0	
03/28/69	0.08	625.0	0	0	0	
04/01/69	0.29	724.0	201.9	201.9	0	
04/04/69	0.43	471.8	201.9	201.9	0	
04/08/69	0.71	424.0	201.9	201.9	0	
04/14/69	0.52	354.5	201.9	201.9	0	
04/16/69	0.10	288.0	0	0	0	
04/16/69	1.26	257.2	201.9	201.9	0	
04/21/69	0.04	235.2	0	0	0	
04/27/69	0.01	152.3	0	0	0	
04/28/69	0.06	240.8	0	0	0	
05/01/69	0.01	152.3	0	0	0	
05/05/69	0.18	423.3	0	0	0	
05/06/69	0.02	152.3	0	0	0	
05/06/69	0.06	227.3	0	0	0	
05/08/69	0.26	327.3	201.9	201.9	0	
05/08/69	0.22	312.3	201.9	201.9	0	
05/10/69	0.02	152.3	0	0	0	
05/13/69	0.18	319.9	0	0	0	
05/17/69	1.33	213.6	201.9	201.9	0	
05/20/69	0.03	152.3	0	0	0	
05/21/69	0.55	229.7	201.9	201.9	0	
05/24/69	0.06	181.9	0	0	0	
05/26/69	0.01	152.3	0	0	0	
05/31/69	0.12	236.3	0	0	0	
06/01/69	0.04	199.8	0	0	0	
06/02/69	0.05	195.1	0	0	0	
06/03/69	0.02	152.3	0	0	0	
06/04/69	0.40	232.5	201.9	201.9	0	
06/06/69	0.09	184.6	0	0	0	
06/07/69	0.83	230.3	201.9	201.9	0	
06/11/69	0.07	167.3	0	0	0	
06/11/69	0.03	152.3	0	0	0	
06/12/69	0.01	152.3	0	0	0	
06/12/69	0.24	255.5	201.9	201.9	0	
06/17/69	0.36	257.6	201.9	201.9	0	
06/18/69	0.16	227.1	0	0	0	
06/19/69	0.09	160.1	0	0	0	
06/21/69	0.02	152.3	0	0	0	
06/22/69	0.36	199.4	201.9	201.9	0	
06/22/69	0.05	151.7	0	0	0	
06/25/69	1.68	168.8	201.9	201.9	0	
06/27/69	0.68	251.7	201.9	201.9	0	
06/29/69	0.70	198.9	201.9	201.9	0	
06/29/69	1.96	150.8	201.9	201.9	0	
06/30/69	0.01	152.3	0	0	0	
07/02/69	0.31	155.1	201.9	201.9	0	

Data File: C:\Users\carltonsm\OneDrive - CI						
07/04/69	0.04	126.1	0	0	0	
07/10/69	0.47	209.7	201.9	201.9	0	
07/11/69	0.07	131.6	0	0	0	
07/16/69	0.52	224.7	201.9	201.9	0	
07/17/69	0.85	200.3	201.9	201.9	0	
07/17/69	1.44	162.3	201.9	201.9	0	
07/18/69	0.01	152.3	0	0	0	
07/23/69	0.11	146.1	0	0	0	
07/26/69	1.37	236.1	201.9	201.9	0	
07/27/69	1.38	134.2	201.9	201.9	0	
07/31/69	0.04	132.6	0	0	0	
08/04/69	0.03	152.3	0	0	0	
08/07/69	0.10	161.9	0	0	0	
08/09/69	0.08	149.8	0	0	0	
08/16/69	0.32	261.3	201.9	201.9	0	
09/04/69	0.36	306.3	201.9	201.9	0	
09/05/69	0.74	420.3	201.9	201.9	0	
09/14/69	0.01	152.3	0	0	0	
09/15/69	0.03	152.3	0	0	0	
09/16/69	0.03	152.3	0	0	0	
09/23/69	0.16	379.0	0	0	0	
09/25/69	0.01	152.3	0	0	0	
09/29/69	0.84	349.5	201.9	201.9	0	
10/06/69	0.01	152.3	0	0	0	
10/06/69	0.01	152.3	0	0	0	
10/09/69	0.05	261.4	0	0	0	
10/10/69	0.14	320.8	0	0	0	
10/10/69	1.34	224.8	201.9	201.9	0	
10/12/69	1.63	184.8	201.9	201.9	0	
10/15/69	0.16	265.8	0	0	0	
10/19/69	0.44	220.2	201.9	201.9	0	
10/19/69	0.35	211.8	201.9	201.9	0	
10/21/69	0.02	152.3	0	0	0	
10/24/69	0.01	152.3	0	0	0	
10/30/69	0.32	271.9	201.9	201.9	0	
11/02/69	0.77	250.0	201.9	201.9	0	
11/11/69	0.05	210.1	0	0	0	
11/11/69	0.04	207.4	0	0	0	
11/13/69	0.03	152.3	0	0	0	
11/17/69	0.15	305.7	0	0	0	
11/18/69	0.02	152.3	0	0	0	
11/19/69	0.01	152.3	0	0	0	
11/26/69	0.07	233.3	0	0	0	
12/07/69	-	-	-	-	-	
12/11/69	-	-	-	-	-	
12/16/69	-	-	-	-	-	
12/21/69	-	-	-	-	-	
12/23/69	-	-	-	-	-	
12/24/69	-	-	-	-	-	

Data File: C:\Users\carltonsm\OneDrive - CI						
12/24/69	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
Minimum:	0.00	0	0	0	0	
Maximum:	1.96	2119	201.9	201.9	0	
FI Wt Ave:	N/A	257.8	201.9	201.9	0.0	
Industrial: Light Industrial Areas - Pollutant C						
Start Date	Rain Total (in.)	Land Use Totals				
01/05/69	-	-				
01/06/69	-	-				
01/08/69	-	-				
01/15/69	-	-				
01/17/69	-	-				
01/23/69	-	-				
01/24/69	-	-				
01/28/69	-	-				
01/29/69	-	-				
02/06/69	-	-				
02/06/69	-	-				
02/22/69	-	-				
03/06/69	-	-				
03/20/69	0.18	7567				
03/20/69	0.04	1077				
03/21/69	0.08	5275				
03/24/69	0.64	1363				
03/28/69	0.08	3413				
04/01/69	0.29	2098				
04/04/69	0.43	1145				
04/08/69	0.71	552.7				
04/14/69	0.52	625.3				
04/16/69	0.10	1194				
04/16/69	1.26	259.3				
04/21/69	0.04	208.8				
04/27/69	0.01	0				
04/28/69	0.06	538.2				
05/01/69	0.01	0				
05/05/69	0.18	978.8				
05/06/69	0.02	0				
05/06/69	0.06	487.0				
05/08/69	0.26	694.6				

Data File: C:\Users\carltonsm\OneDrive - CI						
05/08/69	0.22	685.8				
05/10/69	0.02	0				
05/13/69	0.18	764.1				
05/17/69	1.33	217.5				
05/20/69	0.03	0				
05/21/69	0.55	356.2				
05/24/69	0.06	407.3				
05/26/69	0.01	0				
05/31/69	0.12	888.2				
06/01/69	0.04	187.8				
06/02/69	0.05	316.3				
06/03/69	0.02	0				
06/04/69	0.40	473.9				
06/06/69	0.09	644.4				
06/07/69	0.83	254.0				
06/11/69	0.07	470.0				
06/11/69	0.03	0				
06/12/69	0.01	0				
06/12/69	0.24	580.8				
06/17/69	0.36	590.2				
06/18/69	0.16	635.0				
06/19/69	0.09	555.7				
06/21/69	0.02	0				
06/22/69	0.36	438.3				
06/22/69	0.05	260.1				
06/25/69	1.68	195.2				
06/27/69	0.68	354.4				
06/29/69	0.70	272.6				
06/29/69	1.96	181.1				
06/30/69	0.01	0				
07/02/69	0.31	328.1				
07/04/69	0.04	149.2				
07/10/69	0.47	428.0				
07/11/69	0.07	356.6				
07/16/69	0.52	430.7				
07/17/69	0.85	246.0				
07/17/69	1.44	194.9				
07/18/69	0.01	0				
07/23/69	0.11	546.9				
07/26/69	1.37	268.7				
07/27/69	1.38	167.3				
07/31/69	0.04	155.1				
08/04/69	0.03	0				
08/07/69	0.10	638.2				
08/09/69	0.08	521.7				
08/16/69	0.32	651.5				
09/04/69	0.36	645.2				
09/05/69	0.74	497.4				
09/14/69	0.01	0				

Data File: C:\Users\carltonsm\OneDrive - CI						
09/15/69	0.03	0				
09/16/69	0.03	0				
09/23/69	0.16	972.0				
09/25/69	0.01	0				
09/29/69	0.84	342.7				
10/06/69	0.01	0				
10/06/69	0.01	0				
10/09/69	0.05	379.2				
10/10/69	0.14	942.4				
10/10/69	1.34	221.3				
10/12/69	1.63	195.2				
10/15/69	0.16	713.4				
10/19/69	0.44	412.0				
10/19/69	0.35	439.3				
10/21/69	0.02	0				
10/24/69	0.01	0				
10/30/69	0.32	585.1				
11/02/69	0.77	284.5				
11/11/69	0.05	335.1				
11/11/69	0.04	191.7				
11/13/69	0.03	0				
11/17/69	0.15	876.4				
11/18/69	0.02	0				
11/19/69	0.01	0				
11/26/69	0.07	629.9				
12/07/69	-	-				
12/11/69	-	-				
12/16/69	-	-				
12/21/69	-	-				
12/23/69	-	-				
12/24/69	-	-				
12/24/69	-	-				
12/27/69	-	-				
12/28/69	-	-				
12/31/69	-	-				
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals				
Minimum:	0.00	0				
Maximum:	1.96	7567				
FI Wt Ave:	N/A	406.1				
Residential: Suburban Residential (South) A						
Start Date	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undevelope d Areas 1	Undevelope d Areas 2	Isolated Areas
01/05/69	-	-	-	-	-	-

Data File: C:\Users\carltonsm\OneDrive - CI						
01/06/69	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-
03/20/69	0.18	4.364	0	0	0	0
03/20/69	0.04	2.391	0	0	0	0
03/21/69	0.08	1.784	0	0	0	0
03/24/69	0.64	1.585	1.024	0.005952	0.005952	0
03/28/69	0.08	1.151	0	0	0	0
04/01/69	0.29	1.346	1.024	0.005952	0.005952	0
04/04/69	0.43	0.8189	1.024	0.005952	0.005952	0
04/08/69	0.71	0.7135	1.024	0.005952	0.005952	0
04/14/69	0.52	0.5792	1.024	0.005952	0.005952	0
04/16/69	0.10	0.4321	0	0	0	0
04/16/69	1.26	0.3867	1.024	0.005952	0.005952	0
04/21/69	0.04	0.3180	0	0	0	0
04/27/69	0.01	0.3050	0	0	0	0
04/28/69	0.06	0.3435	0	0	0	0
05/01/69	0.01	0.3050	0	0	0	0
05/05/69	0.18	0.7373	0	0	0	0
05/06/69	0.02	0.3050	0	0	0	0
05/06/69	0.06	0.3219	0	0	0	0
05/08/69	0.26	0.5431	1.024	0.005952	0.005952	0
05/08/69	0.22	0.5109	1.024	0.005952	0.005952	0
05/10/69	0.02	0.3050	0	0	0	0
05/13/69	0.18	0.5247	0	0	0	0
05/17/69	1.33	0.3077	1.024	0.005952	0.005952	0
05/20/69	0.03	0.3050	0	0	0	0
05/21/69	0.55	0.3387	1.024	0.005952	0.005952	0
05/24/69	0.06	0.2313	0	0	0	0
05/26/69	0.01	0.3050	0	0	0	0
05/31/69	0.12	0.3463	0	0	0	0
06/01/69	0.04	0.2598	0	0	0	0
06/02/69	0.05	0.2550	0	0	0	0
06/03/69	0.02	0.3050	0	0	0	0
06/04/69	0.40	0.3477	1.024	0.005952	0.005952	0
06/06/69	0.09	0.2428	0	0	0	0
06/07/69	0.83	0.3410	1.024	0.005952	0.005952	0
06/11/69	0.07	0.2067	0	0	0	0
06/11/69	0.03	0.3050	0	0	0	0
06/12/69	0.01	0.3050	0	0	0	0

Data File: C:\Users\cartlonsm\OneDrive - CI						
06/12/69	0.24	0.3949	1.024	0.005952	0.005952	0
06/17/69	0.36	0.4073	1.024	0.005952	0.005952	0
06/18/69	0.16	0.3316	0	0	0	0
06/19/69	0.09	0.1933	0	0	0	0
06/21/69	0.02	0.3050	0	0	0	0
06/22/69	0.36	0.2780	1.024	0.005952	0.005952	0
06/22/69	0.05	0.1710	0	0	0	0
06/25/69	1.68	0.2194	1.024	0.005952	0.005952	0
06/27/69	0.68	0.3946	1.024	0.005952	0.005952	0
06/29/69	0.70	0.2763	1.024	0.005952	0.005952	0
06/29/69	1.96	0.1783	1.024	0.005952	0.005952	0
06/30/69	0.01	0.3050	0	0	0	0
07/02/69	0.31	0.1808	1.024	0.005952	0.005952	0
07/04/69	0.04	0.1158	0	0	0	0
07/10/69	0.47	0.3014	1.024	0.005952	0.005952	0
07/11/69	0.07	0.1321	0	0	0	0
07/16/69	0.52	0.3333	1.024	0.005952	0.005952	0
07/17/69	0.85	0.2768	1.024	0.005952	0.005952	0
07/17/69	1.44	0.2031	1.024	0.005952	0.005952	0
07/18/69	0.01	0.3050	0	0	0	0
07/23/69	0.11	0.1590	0	0	0	0
07/26/69	1.37	0.3627	1.024	0.005952	0.005952	0
07/27/69	1.38	0.1404	1.024	0.005952	0.005952	0
07/31/69	0.04	0.1261	0	0	0	0
08/04/69	0.03	0.3050	0	0	0	0
08/07/69	0.10	0.1904	0	0	0	0
08/09/69	0.08	0.1686	0	0	0	0
08/16/69	0.32	0.4058	1.024	0.005952	0.005952	0
09/04/69	0.36	0.4946	1.024	0.005952	0.005952	0
09/05/69	0.74	0.7643	1.024	0.005952	0.005952	0
09/14/69	0.01	0.3050	0	0	0	0
09/15/69	0.03	0.3050	0	0	0	0
09/16/69	0.03	0.3050	0	0	0	0
09/23/69	0.16	0.6330	0	0	0	0
09/25/69	0.01	0.3050	0	0	0	0
09/29/69	0.84	0.5910	1.024	0.005952	0.005952	0
10/06/69	0.01	0.3050	0	0	0	0
10/06/69	0.01	0.3050	0	0	0	0
10/09/69	0.05	0.3812	0	0	0	0
10/10/69	0.14	0.5211	0	0	0	0
10/10/69	1.34	0.3301	1.024	0.005952	0.005952	0
10/12/69	1.63	0.2492	1.024	0.005952	0.005952	0
10/15/69	0.16	0.4094	0	0	0	0
10/19/69	0.44	0.3202	1.024	0.005952	0.005952	0
10/19/69	0.35	0.3035	1.024	0.005952	0.005952	0
10/21/69	0.02	0.3050	0	0	0	0
10/24/69	0.01	0.3050	0	0	0	0
10/30/69	0.32	0.4268	1.024	0.005952	0.005952	0
11/02/69	0.77	0.3790	1.024	0.005952	0.005952	0

Data File: C:\Users\carltonsm\OneDrive - CI						
11/11/69	0.05	0.2816	0	0	0	0
11/11/69	0.04	0.2729	0	0	0	0
11/13/69	0.03	0.3050	0	0	0	0
11/17/69	0.15	0.4892	0	0	0	0
11/18/69	0.02	0.3050	0	0	0	0
11/19/69	0.01	0.3050	0	0	0	0
11/26/69	0.07	0.3357	0	0	0	0
12/07/69	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undevelope d Areas 1	Undevelope d Areas 2	Isolated Areas
Minimum:	0.00	0	0	0	0	0
Maximum:	1.96	4.364	1.024	0.005952	0.005952	0
FI Wt Ave:	N/A	0.3970	1.024	0.005952	0.005952	0.0
Residential: Suburban Residential (North) A						
Start Date	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
01/05/69	-	-	-	-	-	
01/06/69	-	-	-	-	-	
01/08/69	-	-	-	-	-	
01/15/69	-	-	-	-	-	
01/17/69	-	-	-	-	-	
01/23/69	-	-	-	-	-	
01/24/69	-	-	-	-	-	
01/28/69	-	-	-	-	-	
01/29/69	-	-	-	-	-	
02/06/69	-	-	-	-	-	
02/06/69	-	-	-	-	-	
02/22/69	-	-	-	-	-	
03/06/69	-	-	-	-	-	
03/20/69	0.18	4.707	0	0	0	
03/20/69	0.04	2.693	0	0	0	
03/21/69	0.08	1.931	0	0	0	
03/24/69	0.64	1.737	0.005952	0.005952	0	
03/28/69	0.08	1.263	0	0	0	
04/01/69	0.29	1.490	0.005952	0.005952	0	

Data File: C:\Users\carltonsm\OneDrive - CI					
04/04/69	0.43	0.9068	0.005952	0.005952	0
04/08/69	0.71	0.7953	0.005952	0.005952	0
04/14/69	0.52	0.6362	0.005952	0.005952	0
04/16/69	0.10	0.4857	0	0	0
04/16/69	1.26	0.4095	0.005952	0.005952	0
04/21/69	0.04	0.3631	0	0	0
04/27/69	0.01	0.2440	0	0	0
04/28/69	0.06	0.3766	0	0	0
05/01/69	0.01	0.2440	0	0	0
05/05/69	0.18	0.7978	0	0	0
05/06/69	0.02	0.2440	0	0	0
05/06/69	0.06	0.3456	0	0	0
05/08/69	0.26	0.5756	0.005952	0.005952	0
05/08/69	0.22	0.5415	0.005952	0.005952	0
05/10/69	0.02	0.2440	0	0	0
05/13/69	0.18	0.5593	0	0	0
05/17/69	1.33	0.3089	0.005952	0.005952	0
05/20/69	0.03	0.2440	0	0	0
05/21/69	0.55	0.3483	0.005952	0.005952	0
05/24/69	0.06	0.2408	0	0	0
05/26/69	0.01	0.2440	0	0	0
05/31/69	0.12	0.3665	0	0	0
06/01/69	0.04	0.2816	0	0	0
06/02/69	0.05	0.2709	0	0	0
06/03/69	0.02	0.2440	0	0	0
06/04/69	0.40	0.3555	0.005952	0.005952	0
06/06/69	0.09	0.2475	0	0	0
06/07/69	0.83	0.3483	0.005952	0.005952	0
06/11/69	0.07	0.2075	0	0	0
06/11/69	0.03	0.2440	0	0	0
06/12/69	0.01	0.2440	0	0	0
06/12/69	0.24	0.4103	0.005952	0.005952	0
06/17/69	0.36	0.4137	0.005952	0.005952	0
06/18/69	0.16	0.3455	0	0	0
06/19/69	0.09	0.1910	0	0	0
06/21/69	0.02	0.2440	0	0	0
06/22/69	0.36	0.2796	0.005952	0.005952	0
06/22/69	0.05	0.1710	0	0	0
06/25/69	1.68	0.2025	0.005952	0.005952	0
06/27/69	0.68	0.3983	0.005952	0.005952	0
06/29/69	0.70	0.2765	0.005952	0.005952	0
06/29/69	1.96	0.1536	0.005952	0.005952	0
06/30/69	0.01	0.2440	0	0	0
07/02/69	0.31	0.1779	0.005952	0.005952	0
07/04/69	0.04	0.1115	0	0	0
07/10/69	0.47	0.3025	0.005952	0.005952	0
07/11/69	0.07	0.1253	0	0	0
07/16/69	0.52	0.3368	0.005952	0.005952	0
07/17/69	0.85	0.2791	0.005952	0.005952	0

Data File: C:\Users\carltonsm\OneDrive - CI					
07/17/69	1.44	0.1907	0.005952	0.005952	0
07/18/69	0.01	0.2440	0	0	0
07/23/69	0.11	0.1588	0	0	0
07/26/69	1.37	0.3608	0.005952	0.005952	0
07/27/69	1.38	0.1258	0.005952	0.005952	0
07/31/69	0.04	0.1266	0	0	0
08/04/69	0.03	0.2440	0	0	0
08/07/69	0.10	0.1952	0	0	0
08/09/69	0.08	0.1673	0	0	0
08/16/69	0.32	0.4226	0.005952	0.005952	0
09/04/69	0.36	0.5258	0.005952	0.005952	0
09/05/69	0.74	0.7866	0.005952	0.005952	0
09/14/69	0.01	0.2440	0	0	0
09/15/69	0.03	0.2440	0	0	0
09/16/69	0.03	0.2440	0	0	0
09/23/69	0.16	0.6955	0	0	0
09/25/69	0.01	0.2440	0	0	0
09/29/69	0.84	0.6232	0.005952	0.005952	0
10/06/69	0.01	0.2440	0	0	0
10/06/69	0.01	0.2440	0	0	0
10/09/69	0.05	0.4239	0	0	0
10/10/69	0.14	0.5614	0	0	0
10/10/69	1.34	0.3348	0.005952	0.005952	0
10/12/69	1.63	0.2406	0.005952	0.005952	0
10/15/69	0.16	0.4346	0	0	0
10/19/69	0.44	0.3269	0.005952	0.005952	0
10/19/69	0.35	0.3081	0.005952	0.005952	0
10/21/69	0.02	0.2440	0	0	0
10/24/69	0.01	0.2440	0	0	0
10/30/69	0.32	0.4470	0.005952	0.005952	0
11/02/69	0.77	0.3940	0.005952	0.005952	0
11/11/69	0.05	0.3056	0	0	0
11/11/69	0.04	0.2990	0	0	0
11/13/69	0.03	0.2440	0	0	0
11/17/69	0.15	0.5267	0	0	0
11/18/69	0.02	0.2440	0	0	0
11/19/69	0.01	0.2440	0	0	0
11/26/69	0.07	0.3597	0	0	0
12/07/69	-	-	-	-	-
12/11/69	-	-	-	-	-
12/16/69	-	-	-	-	-
12/21/69	-	-	-	-	-
12/23/69	-	-	-	-	-
12/24/69	-	-	-	-	-
12/24/69	-	-	-	-	-
12/27/69	-	-	-	-	-
12/28/69	-	-	-	-	-
12/31/69	-	-	-	-	-
Summary for Runoff Producing Events					

Data File: C:\Users\carltonsm\OneDrive - CI						
	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
Minimum:	0.00	0	0	0	0	
Maximum:	1.96	4.707	0.005952	0.005952	0	
FI Wt Ave:	N/A	0.4110	0.005952	0.005952	0.0	
Industrial: Light Industrial Areas - Pollutant C						
Start Date	Rain Total (in.)	Land Use Totals				
01/05/69	-	-				
01/06/69	-	-				
01/08/69	-	-				
01/15/69	-	-				
01/17/69	-	-				
01/23/69	-	-				
01/24/69	-	-				
01/28/69	-	-				
01/29/69	-	-				
02/06/69	-	-				
02/06/69	-	-				
02/22/69	-	-				
03/06/69	-	-				
03/20/69	0.18	8.593				
03/20/69	0.04	1.109				
03/21/69	0.08	5.950				
03/24/69	0.64	1.432				
03/28/69	0.08	3.803				
04/01/69	0.29	2.284				
04/04/69	0.43	1.182				
04/08/69	0.71	0.4972				
04/14/69	0.52	0.5826				
04/16/69	0.10	1.244				
04/16/69	1.26	0.1560				
04/21/69	0.04	0.1082				
04/27/69	0.01	0				
04/28/69	0.06	0.4879				
05/01/69	0.01	0				
05/05/69	0.18	0.9960				
05/06/69	0.02	0				
05/06/69	0.06	0.4289				
05/08/69	0.26	0.6665				
05/08/69	0.22	0.6575				
05/10/69	0.02	0				
05/13/69	0.18	0.7484				
05/17/69	1.33	0.1076				
05/20/69	0.03	0				

Data File: C:\Users\carltonsm\OneDrive - CI						
05/21/69	0.55	0.2721				
05/24/69	0.06	0.3370				
05/26/69	0.01	0				
05/31/69	0.12	0.8915				
06/01/69	0.04	0.08394				
06/02/69	0.05	0.2321				
06/03/69	0.02	0				
06/04/69	0.40	0.4087				
06/06/69	0.09	0.6104				
06/07/69	0.83	0.1518				
06/11/69	0.07	0.4093				
06/11/69	0.03	0				
06/12/69	0.01	0				
06/12/69	0.24	0.5358				
06/17/69	0.36	0.5436				
06/18/69	0.16	0.5996				
06/19/69	0.09	0.5081				
06/21/69	0.02	0				
06/22/69	0.36	0.3685				
06/22/69	0.05	0.1673				
06/25/69	1.68	0.07577				
06/27/69	0.68	0.2688				
06/29/69	0.70	0.1743				
06/29/69	1.96	0.04821				
06/30/69	0.01	0				
07/02/69	0.31	0.2426				
07/04/69	0.04	0.03941				
07/10/69	0.47	0.3553				
07/11/69	0.07	0.2785				
07/16/69	0.52	0.3582				
07/17/69	0.85	0.1426				
07/17/69	1.44	0.08129				
07/18/69	0.01	0				
07/23/69	0.11	0.4979				
07/26/69	1.37	0.1666				
07/27/69	1.38	0.04966				
07/31/69	0.04	0.04620				
08/04/69	0.03	0				
08/07/69	0.10	0.6032				
08/09/69	0.08	0.4689				
08/16/69	0.32	0.6153				
09/04/69	0.36	0.6071				
09/05/69	0.74	0.4332				
09/14/69	0.01	0				
09/15/69	0.03	0				
09/16/69	0.03	0				
09/23/69	0.16	0.9882				
09/25/69	0.01	0				
09/29/69	0.84	0.2541				

Data File: C:\Users\carltonsm\OneDrive - CI						
10/06/69	0.01	0				
10/06/69	0.01	0				
10/09/69	0.05	0.3047				
10/10/69	0.14	0.9540				
10/10/69	1.34	0.1120				
10/12/69	1.63	0.07833				
10/15/69	0.16	0.6900				
10/19/69	0.44	0.3371				
10/19/69	0.35	0.3699				
10/21/69	0.02	0				
10/24/69	0.01	0				
10/30/69	0.32	0.5387				
11/02/69	0.77	0.1873				
11/11/69	0.05	0.2538				
11/11/69	0.04	0.08841				
11/13/69	0.03	0				
11/17/69	0.15	0.8778				
11/18/69	0.02	0				
11/19/69	0.01	0				
11/26/69	0.07	0.5937				
12/07/69	-	-				
12/11/69	-	-				
12/16/69	-	-				
12/21/69	-	-				
12/23/69	-	-				
12/24/69	-	-				
12/24/69	-	-				
12/27/69	-	-				
12/28/69	-	-				
12/31/69	-	-				
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals				
Minimum:	0.00	0				
Maximum:	1.96	8.593				
FI Wt Ave:	N/A	0.3253				
Residential: Suburban Residential (South) A						
Start Date	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undevelope d Areas 1	Undevelope d Areas 2	Isolated Areas
01/05/69	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-

Data File: C:\Users\cartlonsm\OneDrive - CI						
01/24/69	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-
03/20/69	0.18	0.1179	0	0	0	0
03/20/69	0.04	0.1190	0	0	0	0
03/21/69	0.08	0.1178	0	0	0	0
03/24/69	0.64	0.1325	0.6100	0.6100	0.6100	0
03/28/69	0.08	0.1178	0	0	0	0
04/01/69	0.29	0.1228	0.6100	0.6100	0.6100	0
04/04/69	0.43	0.1283	0.6100	0.6100	0.6100	0
04/08/69	0.71	0.1345	0.6100	0.6100	0.6100	0
04/14/69	0.52	0.1300	0.6100	0.6100	0.6100	0
04/16/69	0.10	0.1180	0	0	0	0
04/16/69	1.26	0.1432	0.6100	0.6100	0.6100	0
04/21/69	0.04	0.1190	0	0	0	0
04/27/69	0.01	0.1083	0	0	0	0
04/28/69	0.06	0.1183	0	0	0	0
05/01/69	0.01	0.1083	0	0	0	0
05/05/69	0.18	0.1179	0	0	0	0
05/06/69	0.02	0.1083	0	0	0	0
05/06/69	0.06	0.1183	0	0	0	0
05/08/69	0.26	0.1213	0.6100	0.6100	0.6100	0
05/08/69	0.22	0.1192	0.6100	0.6100	0.6100	0
05/10/69	0.02	0.1083	0	0	0	0
05/13/69	0.18	0.1179	0	0	0	0
05/17/69	1.33	0.1448	0.6100	0.6100	0.6100	0
05/20/69	0.03	0.1083	0	0	0	0
05/21/69	0.55	0.1305	0.6100	0.6100	0.6100	0
05/24/69	0.06	0.1183	0	0	0	0
05/26/69	0.01	0.1083	0	0	0	0
05/31/69	0.12	0.1180	0	0	0	0
06/01/69	0.04	0.1190	0	0	0	0
06/02/69	0.05	0.1186	0	0	0	0
06/03/69	0.02	0.1083	0	0	0	0
06/04/69	0.40	0.1277	0.6100	0.6100	0.6100	0
06/06/69	0.09	0.1179	0	0	0	0
06/07/69	0.83	0.1372	0.6100	0.6100	0.6100	0
06/11/69	0.07	0.1181	0	0	0	0
06/11/69	0.03	0.1083	0	0	0	0
06/12/69	0.01	0.1083	0	0	0	0
06/12/69	0.24	0.1203	0.6100	0.6100	0.6100	0
06/17/69	0.36	0.1261	0.6100	0.6100	0.6100	0
06/18/69	0.16	0.1180	0	0	0	0
06/19/69	0.09	0.1179	0	0	0	0
06/21/69	0.02	0.1083	0	0	0	0

Data File: C:\Users\carltonsm\OneDrive - CI						
06/22/69	0.36	0.1261	0.6100	0.6100	0.6100	0
06/22/69	0.05	0.1186	0	0	0	0
06/25/69	1.68	0.1584	0.6100	0.6100	0.6100	0
06/27/69	0.68	0.1337	0.6100	0.6100	0.6100	0
06/29/69	0.70	0.1342	0.6100	0.6100	0.6100	0
06/29/69	1.96	0.1775	0.6100	0.6100	0.6100	0
06/30/69	0.01	0.1083	0	0	0	0
07/02/69	0.31	0.1238	0.6100	0.6100	0.6100	0
07/04/69	0.04	0.1190	0	0	0	0
07/10/69	0.47	0.1291	0.6100	0.6100	0.6100	0
07/11/69	0.07	0.1181	0	0	0	0
07/16/69	0.52	0.1300	0.6100	0.6100	0.6100	0
07/17/69	0.85	0.1375	0.6100	0.6100	0.6100	0
07/17/69	1.44	0.1474	0.6100	0.6100	0.6100	0
07/18/69	0.01	0.1083	0	0	0	0
07/23/69	0.11	0.1180	0	0	0	0
07/26/69	1.37	0.1458	0.6100	0.6100	0.6100	0
07/27/69	1.38	0.1460	0.6100	0.6100	0.6100	0
07/31/69	0.04	0.1190	0	0	0	0
08/04/69	0.03	0.1083	0	0	0	0
08/07/69	0.10	0.1180	0	0	0	0
08/09/69	0.08	0.1178	0	0	0	0
08/16/69	0.32	0.1243	0.6100	0.6100	0.6100	0
09/04/69	0.36	0.1261	0.6100	0.6100	0.6100	0
09/05/69	0.74	0.1354	0.6100	0.6100	0.6100	0
09/14/69	0.01	0.1083	0	0	0	0
09/15/69	0.03	0.1083	0	0	0	0
09/16/69	0.03	0.1083	0	0	0	0
09/23/69	0.16	0.1180	0	0	0	0
09/25/69	0.01	0.1083	0	0	0	0
09/29/69	0.84	0.1374	0.6100	0.6100	0.6100	0
10/06/69	0.01	0.1083	0	0	0	0
10/06/69	0.01	0.1083	0	0	0	0
10/09/69	0.05	0.1186	0	0	0	0
10/10/69	0.14	0.1180	0	0	0	0
10/10/69	1.34	0.1451	0.6100	0.6100	0.6100	0
10/12/69	1.63	0.1547	0.6100	0.6100	0.6100	0
10/15/69	0.16	0.1180	0	0	0	0
10/19/69	0.44	0.1285	0.6100	0.6100	0.6100	0
10/19/69	0.35	0.1257	0.6100	0.6100	0.6100	0
10/21/69	0.02	0.1083	0	0	0	0
10/24/69	0.01	0.1083	0	0	0	0
10/30/69	0.32	0.1243	0.6100	0.6100	0.6100	0
11/02/69	0.77	0.1362	0.6100	0.6100	0.6100	0
11/11/69	0.05	0.1186	0	0	0	0
11/11/69	0.04	0.1190	0	0	0	0
11/13/69	0.03	0.1083	0	0	0	0
11/17/69	0.15	0.1180	0	0	0	0
11/18/69	0.02	0.1083	0	0	0	0

Data File: C:\Users\carltonsm\OneDrive - CI						
11/19/69	0.01	0.1083	0	0	0	0
11/26/69	0.07	0.1181	0	0	0	0
12/07/69	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undevelope d Areas 1	Undevelope d Areas 2	Isolated Areas
Minimum:	0.00	0	0	0	0	0
Maximum:	1.96	0.1775	0.6100	0.6100	0.6100	0
FI Wt Ave:	N/A	0.1417	0.6100	0.6100	0.6100	0.0
Residential: Suburban Residential (North) A						
Start Date	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
01/05/69	-	-	-	-	-	
01/06/69	-	-	-	-	-	
01/08/69	-	-	-	-	-	
01/15/69	-	-	-	-	-	
01/17/69	-	-	-	-	-	
01/23/69	-	-	-	-	-	
01/24/69	-	-	-	-	-	
01/28/69	-	-	-	-	-	
01/29/69	-	-	-	-	-	
02/06/69	-	-	-	-	-	
02/06/69	-	-	-	-	-	
02/22/69	-	-	-	-	-	
03/06/69	-	-	-	-	-	
03/20/69	0.18	0.1185	0	0	0	
03/20/69	0.04	0.1192	0	0	0	
03/21/69	0.08	0.1184	0	0	0	
03/24/69	0.64	0.1312	0.6100	0.6100	0	
03/28/69	0.08	0.1184	0	0	0	
04/01/69	0.29	0.1232	0.6100	0.6100	0	
04/04/69	0.43	0.1283	0.6100	0.6100	0	
04/08/69	0.71	0.1328	0.6100	0.6100	0	
04/14/69	0.52	0.1294	0.6100	0.6100	0	
04/16/69	0.10	0.1185	0	0	0	
04/16/69	1.26	0.1385	0.6100	0.6100	0	

Data File: C:\Users\carltonsm\OneDrive - CI					
04/21/69	0.04	0.1192	0	0	0
04/27/69	0.01	0.07862	0	0	0
04/28/69	0.06	0.1188	0	0	0
05/01/69	0.01	0.07862	0	0	0
05/05/69	0.18	0.1185	0	0	0
05/06/69	0.02	0.07862	0	0	0
05/06/69	0.06	0.1188	0	0	0
05/08/69	0.26	0.1217	0.6100	0.6100	0
05/08/69	0.22	0.1197	0.6100	0.6100	0
05/10/69	0.02	0.07862	0	0	0
05/13/69	0.18	0.1185	0	0	0
05/17/69	1.33	0.1389	0.6100	0.6100	0
05/20/69	0.03	0.07862	0	0	0
05/21/69	0.55	0.1297	0.6100	0.6100	0
05/24/69	0.06	0.1188	0	0	0
05/26/69	0.01	0.07862	0	0	0
05/31/69	0.12	0.1186	0	0	0
06/01/69	0.04	0.1192	0	0	0
06/02/69	0.05	0.1190	0	0	0
06/03/69	0.02	0.07862	0	0	0
06/04/69	0.40	0.1279	0.6100	0.6100	0
06/06/69	0.09	0.1185	0	0	0
06/07/69	0.83	0.1347	0.6100	0.6100	0
06/11/69	0.07	0.1186	0	0	0
06/11/69	0.03	0.07862	0	0	0
06/12/69	0.01	0.07862	0	0	0
06/12/69	0.24	0.1207	0.6100	0.6100	0
06/17/69	0.36	0.1264	0.6100	0.6100	0
06/18/69	0.16	0.1185	0	0	0
06/19/69	0.09	0.1185	0	0	0
06/21/69	0.02	0.07862	0	0	0
06/22/69	0.36	0.1264	0.6100	0.6100	0
06/22/69	0.05	0.1190	0	0	0
06/25/69	1.68	0.1508	0.6100	0.6100	0
06/27/69	0.68	0.1321	0.6100	0.6100	0
06/29/69	0.70	0.1326	0.6100	0.6100	0
06/29/69	1.96	0.1761	0.6100	0.6100	0
06/30/69	0.01	0.07862	0	0	0
07/02/69	0.31	0.1241	0.6100	0.6100	0
07/04/69	0.04	0.1192	0	0	0
07/10/69	0.47	0.1288	0.6100	0.6100	0
07/11/69	0.07	0.1186	0	0	0
07/16/69	0.52	0.1294	0.6100	0.6100	0
07/17/69	0.85	0.1348	0.6100	0.6100	0
07/17/69	1.44	0.1395	0.6100	0.6100	0
07/18/69	0.01	0.07862	0	0	0
07/23/69	0.11	0.1186	0	0	0
07/26/69	1.37	0.1391	0.6100	0.6100	0
07/27/69	1.38	0.1391	0.6100	0.6100	0

Data File: C:\Users\carltonsm\OneDrive - CI						
07/31/69	0.04	0.1192	0	0	0	
08/04/69	0.03	0.07862	0	0	0	
08/07/69	0.10	0.1185	0	0	0	
08/09/69	0.08	0.1184	0	0	0	
08/16/69	0.32	0.1246	0.6100	0.6100	0	
09/04/69	0.36	0.1264	0.6100	0.6100	0	
09/05/69	0.74	0.1334	0.6100	0.6100	0	
09/14/69	0.01	0.07862	0	0	0	
09/15/69	0.03	0.07862	0	0	0	
09/16/69	0.03	0.07862	0	0	0	
09/23/69	0.16	0.1185	0	0	0	
09/25/69	0.01	0.07862	0	0	0	
09/29/69	0.84	0.1347	0.6100	0.6100	0	
10/06/69	0.01	0.07862	0	0	0	
10/06/69	0.01	0.07862	0	0	0	
10/09/69	0.05	0.1190	0	0	0	
10/10/69	0.14	0.1186	0	0	0	
10/10/69	1.34	0.1389	0.6100	0.6100	0	
10/12/69	1.63	0.1459	0.6100	0.6100	0	
10/15/69	0.16	0.1185	0	0	0	
10/19/69	0.44	0.1284	0.6100	0.6100	0	
10/19/69	0.35	0.1259	0.6100	0.6100	0	
10/21/69	0.02	0.07862	0	0	0	
10/24/69	0.01	0.07862	0	0	0	
10/30/69	0.32	0.1246	0.6100	0.6100	0	
11/02/69	0.77	0.1340	0.6100	0.6100	0	
11/11/69	0.05	0.1190	0	0	0	
11/11/69	0.04	0.1192	0	0	0	
11/13/69	0.03	0.07862	0	0	0	
11/17/69	0.15	0.1185	0	0	0	
11/18/69	0.02	0.07862	0	0	0	
11/19/69	0.01	0.07862	0	0	0	
11/26/69	0.07	0.1186	0	0	0	
12/07/69	-	-	-	-	-	
12/11/69	-	-	-	-	-	
12/16/69	-	-	-	-	-	
12/21/69	-	-	-	-	-	
12/23/69	-	-	-	-	-	
12/24/69	-	-	-	-	-	
12/24/69	-	-	-	-	-	
12/27/69	-	-	-	-	-	
12/28/69	-	-	-	-	-	
12/31/69	-	-	-	-	-	
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
Minimum:	0.00	0	0	0	0	
Maximum:	1.96	0.1761	0.6100	0.6100	0	

Data File: C:\Users\carltonsm\OneDrive - CI						
FI Wt Ave:	N/A	0.1381	0.6100	0.6100	0.0	
Industrial: Light Industrial Areas - Pollutant C						
Start Date	Rain Total (in.)	Land Use Totals				
01/05/69	-	-				
01/06/69	-	-				
01/08/69	-	-				
01/15/69	-	-				
01/17/69	-	-				
01/23/69	-	-				
01/24/69	-	-				
01/28/69	-	-				
01/29/69	-	-				
02/06/69	-	-				
02/06/69	-	-				
02/22/69	-	-				
03/06/69	-	-				
03/20/69	0.18	0.3500				
03/20/69	0.04	0.3500				
03/21/69	0.08	0.3500				
03/24/69	0.64	0.3685				
03/28/69	0.08	0.3500				
04/01/69	0.29	0.3572				
04/04/69	0.43	0.3646				
04/08/69	0.71	0.3706				
04/14/69	0.52	0.3660				
04/16/69	0.10	0.3500				
04/16/69	1.26	0.3784				
04/21/69	0.04	0.3500				
04/27/69	0.01	0				
04/28/69	0.06	0.3500				
05/01/69	0.01	0				
05/05/69	0.18	0.3500				
05/06/69	0.02	0				
05/06/69	0.06	0.3500				
05/08/69	0.26	0.3550				
05/08/69	0.22	0.3519				
05/10/69	0.02	0				
05/13/69	0.18	0.3500				
05/17/69	1.33	0.3790				
05/20/69	0.03	0				
05/21/69	0.55	0.3664				
05/24/69	0.06	0.3500				
05/26/69	0.01	0				
05/31/69	0.12	0.3500				
06/01/69	0.04	0.3500				

Data File: C:\Users\carltonsm\OneDrive - CI					
06/02/69	0.05	0.3500			
06/03/69	0.02	0			
06/04/69	0.40	0.3641			
06/06/69	0.09	0.3500			
06/07/69	0.83	0.3732			
06/11/69	0.07	0.3500			
06/11/69	0.03	0			
06/12/69	0.01	0			
06/12/69	0.24	0.3535			
06/17/69	0.36	0.3619			
06/18/69	0.16	0.3500			
06/19/69	0.09	0.3500			
06/21/69	0.02	0			
06/22/69	0.36	0.3619			
06/22/69	0.05	0.3500			
06/25/69	1.68	0.3960			
06/27/69	0.68	0.3697			
06/29/69	0.70	0.3703			
06/29/69	1.96	0.4274			
06/30/69	0.01	0			
07/02/69	0.31	0.3586			
07/04/69	0.04	0.3500			
07/10/69	0.47	0.3652			
07/11/69	0.07	0.3500			
07/16/69	0.52	0.3660			
07/17/69	0.85	0.3734			
07/17/69	1.44	0.3799			
07/18/69	0.01	0			
07/23/69	0.11	0.3500			
07/26/69	1.37	0.3793			
07/27/69	1.38	0.3794			
07/31/69	0.04	0.3500			
08/04/69	0.03	0			
08/07/69	0.10	0.3500			
08/09/69	0.08	0.3500			
08/16/69	0.32	0.3593			
09/04/69	0.36	0.3619			
09/05/69	0.74	0.3715			
09/14/69	0.01	0			
09/15/69	0.03	0			
09/16/69	0.03	0			
09/23/69	0.16	0.3500			
09/25/69	0.01	0			
09/29/69	0.84	0.3733			
10/06/69	0.01	0			
10/06/69	0.01	0			
10/09/69	0.05	0.3500			
10/10/69	0.14	0.3500			
10/10/69	1.34	0.3791			

Data File: C:\Users\carltonsm\OneDrive - CI						
10/12/69	1.63	0.3891				
10/15/69	0.16	0.3500				
10/19/69	0.44	0.3647				
10/19/69	0.35	0.3612				
10/21/69	0.02	0				
10/24/69	0.01	0				
10/30/69	0.32	0.3593				
11/02/69	0.77	0.3724				
11/11/69	0.05	0.3500				
11/11/69	0.04	0.3500				
11/13/69	0.03	0				
11/17/69	0.15	0.3500				
11/18/69	0.02	0				
11/19/69	0.01	0				
11/26/69	0.07	0.3500				
12/07/69	-	-				
12/11/69	-	-				
12/16/69	-	-				
12/21/69	-	-				
12/23/69	-	-				
12/24/69	-	-				
12/24/69	-	-				
12/27/69	-	-				
12/28/69	-	-				
12/31/69	-	-				
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals				
Minimum:	0.00	0				
Maximum:	1.96	0.4274				
FI Wt Ave:	N/A	0.3786				
Residential: Suburban Residential (South) A						
Start Date	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undevelope d Areas 1	Undevelope d Areas 2	Isolated Areas
01/05/69	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-

Data File: C:\Users\carltonsm\OneDrive - CI						
02/22/69	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-
03/20/69	0.18	4.482	0	0	0	0
03/20/69	0.04	2.510	0	0	0	0
03/21/69	0.08	1.902	0	0	0	0
03/24/69	0.64	1.718	1.634	0.6160	0.6160	0
03/28/69	0.08	1.269	0	0	0	0
04/01/69	0.29	1.469	1.634	0.6160	0.6160	0
04/04/69	0.43	0.9473	1.634	0.6160	0.6160	0
04/08/69	0.71	0.8480	1.634	0.6160	0.6160	0
04/14/69	0.52	0.7092	1.634	0.6160	0.6160	0
04/16/69	0.10	0.5500	0	0	0	0
04/16/69	1.26	0.5298	1.634	0.6160	0.6160	0
04/21/69	0.04	0.4370	0	0	0	0
04/27/69	0.01	0.4133	0	0	0	0
04/28/69	0.06	0.4618	0	0	0	0
05/01/69	0.01	0.4133	0	0	0	0
05/05/69	0.18	0.8552	0	0	0	0
05/06/69	0.02	0.4133	0	0	0	0
05/06/69	0.06	0.4402	0	0	0	0
05/08/69	0.26	0.6644	1.634	0.6160	0.6160	0
05/08/69	0.22	0.6301	1.634	0.6160	0.6160	0
05/10/69	0.02	0.4133	0	0	0	0
05/13/69	0.18	0.6426	0	0	0	0
05/17/69	1.33	0.4526	1.634	0.6160	0.6160	0
05/20/69	0.03	0.4133	0	0	0	0
05/21/69	0.55	0.4691	1.634	0.6160	0.6160	0
05/24/69	0.06	0.3497	0	0	0	0
05/26/69	0.01	0.4133	0	0	0	0
05/31/69	0.12	0.4643	0	0	0	0
06/01/69	0.04	0.3787	0	0	0	0
06/02/69	0.05	0.3736	0	0	0	0
06/03/69	0.02	0.4133	0	0	0	0
06/04/69	0.40	0.4755	1.634	0.6160	0.6160	0
06/06/69	0.09	0.3607	0	0	0	0
06/07/69	0.83	0.4782	1.634	0.6160	0.6160	0
06/11/69	0.07	0.3248	0	0	0	0
06/11/69	0.03	0.4133	0	0	0	0
06/12/69	0.01	0.4133	0	0	0	0
06/12/69	0.24	0.5152	1.634	0.6160	0.6160	0
06/17/69	0.36	0.5334	1.634	0.6160	0.6160	0
06/18/69	0.16	0.4496	0	0	0	0
06/19/69	0.09	0.3112	0	0	0	0
06/21/69	0.02	0.4133	0	0	0	0
06/22/69	0.36	0.4041	1.634	0.6160	0.6160	0
06/22/69	0.05	0.2896	0	0	0	0
06/25/69	1.68	0.3778	1.634	0.6160	0.6160	0
06/27/69	0.68	0.5282	1.634	0.6160	0.6160	0
06/29/69	0.70	0.4105	1.634	0.6160	0.6160	0

Data File: C:\Users\carltonsm\OneDrive - CI						
06/29/69	1.96	0.3558	1.634	0.6160	0.6160	0
06/30/69	0.01	0.4133	0	0	0	0
07/02/69	0.31	0.3046	1.634	0.6160	0.6160	0
07/04/69	0.04	0.2348	0	0	0	0
07/10/69	0.47	0.4304	1.634	0.6160	0.6160	0
07/11/69	0.07	0.2501	0	0	0	0
07/16/69	0.52	0.4633	1.634	0.6160	0.6160	0
07/17/69	0.85	0.4143	1.634	0.6160	0.6160	0
07/17/69	1.44	0.3505	1.634	0.6160	0.6160	0
07/18/69	0.01	0.4133	0	0	0	0
07/23/69	0.11	0.2770	0	0	0	0
07/26/69	1.37	0.5085	1.634	0.6160	0.6160	0
07/27/69	1.38	0.2864	1.634	0.6160	0.6160	0
07/31/69	0.04	0.2451	0	0	0	0
08/04/69	0.03	0.4133	0	0	0	0
08/07/69	0.10	0.3084	0	0	0	0
08/09/69	0.08	0.2864	0	0	0	0
08/16/69	0.32	0.5300	1.634	0.6160	0.6160	0
09/04/69	0.36	0.6207	1.634	0.6160	0.6160	0
09/05/69	0.74	0.8997	1.634	0.6160	0.6160	0
09/14/69	0.01	0.4133	0	0	0	0
09/15/69	0.03	0.4133	0	0	0	0
09/16/69	0.03	0.4133	0	0	0	0
09/23/69	0.16	0.7509	0	0	0	0
09/25/69	0.01	0.4133	0	0	0	0
09/29/69	0.84	0.7284	1.634	0.6160	0.6160	0
10/06/69	0.01	0.4133	0	0	0	0
10/06/69	0.01	0.4133	0	0	0	0
10/09/69	0.05	0.4998	0	0	0	0
10/10/69	0.14	0.6391	0	0	0	0
10/10/69	1.34	0.4752	1.634	0.6160	0.6160	0
10/12/69	1.63	0.4039	1.634	0.6160	0.6160	0
10/15/69	0.16	0.5273	0	0	0	0
10/19/69	0.44	0.4487	1.634	0.6160	0.6160	0
10/19/69	0.35	0.4291	1.634	0.6160	0.6160	0
10/21/69	0.02	0.4133	0	0	0	0
10/24/69	0.01	0.4133	0	0	0	0
10/30/69	0.32	0.5510	1.634	0.6160	0.6160	0
11/02/69	0.77	0.5152	1.634	0.6160	0.6160	0
11/11/69	0.05	0.4003	0	0	0	0
11/11/69	0.04	0.3919	0	0	0	0
11/13/69	0.03	0.4133	0	0	0	0
11/17/69	0.15	0.6072	0	0	0	0
11/18/69	0.02	0.4133	0	0	0	0
11/19/69	0.01	0.4133	0	0	0	0
11/26/69	0.07	0.4538	0	0	0	0
12/07/69	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-

Data File: C:\Users\carltonsm\OneDrive - CI						
12/21/69	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undevelope d Areas 1	Undevelope d Areas 2	Isolated Areas
Minimum:	0.00	0	0	0	0	0
Maximum:	1.96	4.482	1.634	0.6160	0.6160	0
FI Wt Ave:	N/A	0.5388	1.634	0.6160	0.6160	0.0
Residential: Suburban Residential (North) A						
Start Date	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
01/05/69	-	-	-	-	-	
01/06/69	-	-	-	-	-	
01/08/69	-	-	-	-	-	
01/15/69	-	-	-	-	-	
01/17/69	-	-	-	-	-	
01/23/69	-	-	-	-	-	
01/24/69	-	-	-	-	-	
01/28/69	-	-	-	-	-	
01/29/69	-	-	-	-	-	
02/06/69	-	-	-	-	-	
02/06/69	-	-	-	-	-	
02/22/69	-	-	-	-	-	
03/06/69	-	-	-	-	-	
03/20/69	0.18	4.826	0	0	0	
03/20/69	0.04	2.813	0	0	0	
03/21/69	0.08	2.050	0	0	0	
03/24/69	0.64	1.868	0.6160	0.6160	0	
03/28/69	0.08	1.381	0	0	0	
04/01/69	0.29	1.613	0.6160	0.6160	0	
04/04/69	0.43	1.035	0.6160	0.6160	0	
04/08/69	0.71	0.9280	0.6160	0.6160	0	
04/14/69	0.52	0.7656	0.6160	0.6160	0	
04/16/69	0.10	0.6042	0	0	0	
04/16/69	1.26	0.5479	0.6160	0.6160	0	
04/21/69	0.04	0.4823	0	0	0	
04/27/69	0.01	0.3226	0	0	0	
04/28/69	0.06	0.4954	0	0	0	
05/01/69	0.01	0.3226	0	0	0	
05/05/69	0.18	0.9163	0	0	0	

Data File: C:\Users\carltonsm\OneDrive - CI					
05/06/69	0.02	0.3226	0	0	0
05/06/69	0.06	0.4644	0	0	0
05/08/69	0.26	0.6973	0.6160	0.6160	0
05/08/69	0.22	0.6612	0.6160	0.6160	0
05/10/69	0.02	0.3226	0	0	0
05/13/69	0.18	0.6778	0	0	0
05/17/69	1.33	0.4478	0.6160	0.6160	0
05/20/69	0.03	0.3226	0	0	0
05/21/69	0.55	0.4781	0.6160	0.6160	0
05/24/69	0.06	0.3596	0	0	0
05/26/69	0.01	0.3226	0	0	0
05/31/69	0.12	0.4851	0	0	0
06/01/69	0.04	0.4008	0	0	0
06/02/69	0.05	0.3899	0	0	0
06/03/69	0.02	0.3226	0	0	0
06/04/69	0.40	0.4834	0.6160	0.6160	0
06/06/69	0.09	0.3660	0	0	0
06/07/69	0.83	0.4830	0.6160	0.6160	0
06/11/69	0.07	0.3260	0	0	0
06/11/69	0.03	0.3226	0	0	0
06/12/69	0.01	0.3226	0	0	0
06/12/69	0.24	0.5310	0.6160	0.6160	0
06/17/69	0.36	0.5401	0.6160	0.6160	0
06/18/69	0.16	0.4640	0	0	0
06/19/69	0.09	0.3095	0	0	0
06/21/69	0.02	0.3226	0	0	0
06/22/69	0.36	0.4059	0.6160	0.6160	0
06/22/69	0.05	0.2900	0	0	0
06/25/69	1.68	0.3533	0.6160	0.6160	0
06/27/69	0.68	0.5304	0.6160	0.6160	0
06/29/69	0.70	0.4091	0.6160	0.6160	0
06/29/69	1.96	0.3297	0.6160	0.6160	0
06/30/69	0.01	0.3226	0	0	0
07/02/69	0.31	0.3021	0.6160	0.6160	0
07/04/69	0.04	0.2307	0	0	0
07/10/69	0.47	0.4313	0.6160	0.6160	0
07/11/69	0.07	0.2439	0	0	0
07/16/69	0.52	0.4662	0.6160	0.6160	0
07/17/69	0.85	0.4139	0.6160	0.6160	0
07/17/69	1.44	0.3301	0.6160	0.6160	0
07/18/69	0.01	0.3226	0	0	0
07/23/69	0.11	0.2773	0	0	0
07/26/69	1.37	0.4998	0.6160	0.6160	0
07/27/69	1.38	0.2649	0.6160	0.6160	0
07/31/69	0.04	0.2459	0	0	0
08/04/69	0.03	0.3226	0	0	0
08/07/69	0.10	0.3137	0	0	0
08/09/69	0.08	0.2857	0	0	0
08/16/69	0.32	0.5472	0.6160	0.6160	0

Data File: C:\Users\carltonsm\OneDrive - CI						
09/04/69	0.36	0.6522	0.6160	0.6160	0	
09/05/69	0.74	0.9201	0.6160	0.6160	0	
09/14/69	0.01	0.3226	0	0	0	
09/15/69	0.03	0.3226	0	0	0	
09/16/69	0.03	0.3226	0	0	0	
09/23/69	0.16	0.8141	0	0	0	
09/25/69	0.01	0.3226	0	0	0	
09/29/69	0.84	0.7579	0.6160	0.6160	0	
10/06/69	0.01	0.3226	0	0	0	
10/06/69	0.01	0.3226	0	0	0	
10/09/69	0.05	0.5428	0	0	0	
10/10/69	0.14	0.6800	0	0	0	
10/10/69	1.34	0.4737	0.6160	0.6160	0	
10/12/69	1.63	0.3865	0.6160	0.6160	0	
10/15/69	0.16	0.5531	0	0	0	
10/19/69	0.44	0.4553	0.6160	0.6160	0	
10/19/69	0.35	0.4341	0.6160	0.6160	0	
10/21/69	0.02	0.3226	0	0	0	
10/24/69	0.01	0.3226	0	0	0	
10/30/69	0.32	0.5716	0.6160	0.6160	0	
11/02/69	0.77	0.5280	0.6160	0.6160	0	
11/11/69	0.05	0.4246	0	0	0	
11/11/69	0.04	0.4182	0	0	0	
11/13/69	0.03	0.3226	0	0	0	
11/17/69	0.15	0.6452	0	0	0	
11/18/69	0.02	0.3226	0	0	0	
11/19/69	0.01	0.3226	0	0	0	
11/26/69	0.07	0.4783	0	0	0	
12/07/69	-	-	-	-	-	
12/11/69	-	-	-	-	-	
12/16/69	-	-	-	-	-	
12/21/69	-	-	-	-	-	
12/23/69	-	-	-	-	-	
12/24/69	-	-	-	-	-	
12/24/69	-	-	-	-	-	
12/27/69	-	-	-	-	-	
12/28/69	-	-	-	-	-	
12/31/69	-	-	-	-	-	
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
Minimum:	0.00	0	0	0	0	
Maximum:	1.96	4.826	0.6160	0.6160	0	
FI Wt Ave:	N/A	0.5491	0.6160	0.6160	0.0	
Industrial: Light Industrial Areas - Pollutant C						

Data File: C:\Users\carltonsm\OneDrive - CI						
Start Date	Rain Total (in.)	Land Use Totals				
01/05/69	-	-				
01/06/69	-	-				
01/08/69	-	-				
01/15/69	-	-				
01/17/69	-	-				
01/23/69	-	-				
01/24/69	-	-				
01/28/69	-	-				
01/29/69	-	-				
02/06/69	-	-				
02/06/69	-	-				
02/22/69	-	-				
03/06/69	-	-				
03/20/69	0.18	8.943				
03/20/69	0.04	1.459				
03/21/69	0.08	6.300				
03/24/69	0.64	1.801				
03/28/69	0.08	4.153				
04/01/69	0.29	2.641				
04/04/69	0.43	1.547				
04/08/69	0.71	0.8679				
04/14/69	0.52	0.9486				
04/16/69	0.10	1.594				
04/16/69	1.26	0.5345				
04/21/69	0.04	0.4582				
04/27/69	0.01	0				
04/28/69	0.06	0.8379				
05/01/69	0.01	0				
05/05/69	0.18	1.346				
05/06/69	0.02	0				
05/06/69	0.06	0.7789				
05/08/69	0.26	1.022				
05/08/69	0.22	1.009				
05/10/69	0.02	0				
05/13/69	0.18	1.098				
05/17/69	1.33	0.4866				
05/20/69	0.03	0				
05/21/69	0.55	0.6385				
05/24/69	0.06	0.6870				
05/26/69	0.01	0				
05/31/69	0.12	1.242				
06/01/69	0.04	0.4339				
06/02/69	0.05	0.5821				
06/03/69	0.02	0				
06/04/69	0.40	0.7728				
06/06/69	0.09	0.9604				

Data File: C:\Users\carltonsm\OneDrive - CI						
06/07/69	0.83	0.5251				
06/11/69	0.07	0.7593				
06/11/69	0.03	0				
06/12/69	0.01	0				
06/12/69	0.24	0.8893				
06/17/69	0.36	0.9055				
06/18/69	0.16	0.9496				
06/19/69	0.09	0.8581				
06/21/69	0.02	0				
06/22/69	0.36	0.7303				
06/22/69	0.05	0.5173				
06/25/69	1.68	0.4717				
06/27/69	0.68	0.6386				
06/29/69	0.70	0.5447				
06/29/69	1.96	0.4756				
06/30/69	0.01	0				
07/02/69	0.31	0.6012				
07/04/69	0.04	0.3894				
07/10/69	0.47	0.7206				
07/11/69	0.07	0.6285				
07/16/69	0.52	0.7242				
07/17/69	0.85	0.5160				
07/17/69	1.44	0.4612				
07/18/69	0.01	0				
07/23/69	0.11	0.8479				
07/26/69	1.37	0.5459				
07/27/69	1.38	0.4291				
07/31/69	0.04	0.3962				
08/04/69	0.03	0				
08/07/69	0.10	0.9532				
08/09/69	0.08	0.8189				
08/16/69	0.32	0.9745				
09/04/69	0.36	0.9689				
09/05/69	0.74	0.8047				
09/14/69	0.01	0				
09/15/69	0.03	0				
09/16/69	0.03	0				
09/23/69	0.16	1.338				
09/25/69	0.01	0				
09/29/69	0.84	0.6275				
10/06/69	0.01	0				
10/06/69	0.01	0				
10/09/69	0.05	0.6547				
10/10/69	0.14	1.304				
10/10/69	1.34	0.4911				
10/12/69	1.63	0.4674				
10/15/69	0.16	1.040				
10/19/69	0.44	0.7018				
10/19/69	0.35	0.7311				

Data File: C:\Users\carltonsm\OneDrive - CI						
10/21/69	0.02	0				
10/24/69	0.01	0				
10/30/69	0.32	0.8979				
11/02/69	0.77	0.5597				
11/11/69	0.05	0.6038				
11/11/69	0.04	0.4384				
11/13/69	0.03	0				
11/17/69	0.15	1.228				
11/18/69	0.02	0				
11/19/69	0.01	0				
11/26/69	0.07	0.9437				
12/07/69	-	-				
12/11/69	-	-				
12/16/69	-	-				
12/21/69	-	-				
12/23/69	-	-				
12/24/69	-	-				
12/24/69	-	-				
12/27/69	-	-				
12/28/69	-	-				
12/31/69	-	-				
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals				
Minimum:	0.00	0				
Maximum:	1.96	8.943				
Fl Wt Ave:	N/A	0.7039				

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
Rain File: WisReg - Milwaukee WI 1969.RAN															
Date: 01-23-24 Time: 6:33:21 PM															
Site Description: Cedar Creek BMP Site															
Residential: Suburban Residential (South) Areas - Particulate Solids Concentration (mg/L)															
Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	1892	37.00	0	0	154.0	0	0	75.00	0	2085	2084	2084	0	0
03/20/69	0.04	1036	37.00	0	0	154.0	0	0	75.00	0	1125	1125	1124	0	0
03/21/69	0.08	773.0	37.00	0	0	154.0	0	0	75.00	0	850.9	850.7	850.5	0	0
03/24/69	0.64	685.2	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	768.8	768.6	768.4	227.0	0
03/28/69	0.08	498.3	37.00	0	0	154.0	0	0	75.00	0	543.9	543.7	543.6	0	0
04/01/69	0.29	582.5	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	642.0	641.8	641.7	227.0	0
04/04/69	0.43	353.1	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	388.0	387.9	387.8	227.0	0
04/08/69	0.71	306.7	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	337.6	337.6	337.5	227.0	0
04/14/69	0.52	248.9	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	269.2	269.2	269.1	227.0	0
04/16/69	0.10	186.5	37.00	0	0	154.0	0	0	75.00	0	194.6	194.5	194.5	0	0
04/16/69	1.26	163.8	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	176.0	176.0	175.9	227.0	0
04/21/69	0.04	137.2	37.00	0	0	154.0	0	0	75.00	0	138.6	138.5	138.5	0	0
04/27/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	0
04/28/69	0.06	148.1	37.00	0	0	154.0	0	0	75.00	0	151.5	151.5	151.5	0	0
05/01/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	0
05/05/69	0.18	318.9	37.00	0	0	154.0	0	0	75.00	0	341.4	341.3	341.2	0	0
05/06/69	0.02	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	0
05/06/69	0.06	138.7	37.00	0	0	154.0	0	0	75.00	0	141.2	141.1	141.1	0	0
05/08/69	0.26	234.2	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	249.4	249.3	249.3	227.0	0
05/08/69	0.22	220.5	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	233.1	233.1	233.0	227.0	0
05/10/69	0.02	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	0
05/13/69	0.18	226.7	37.00	0	0	154.0	0	0	75.00	0	239.2	239.1	239.0	0	0
05/17/69	1.33	129.3	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	135.4	135.3	135.3	227.0	0
05/20/69	0.03	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	0
05/21/69	0.55	144.5	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	150.4	150.3	150.3	227.0	0
05/24/69	0.06	99.43	37.00	0	0	154.0	0	0	75.00	0	97.59	97.56	97.54	0	0
05/26/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	0
05/31/69	0.12	149.3	37.00	0	0	154.0	0	0	75.00	0	153.2	153.2	153.1	0	0

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
06/01/69	0.04	111.9	37.00	0	0	154.0	0	0	75.00	0	110.8	110.8	110.8	0
06/02/69	0.05	109.8	37.00	0	0	154.0	0	0	75.00	0	108.8	108.8	108.7	0
06/03/69	0.02	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
06/04/69	0.40	148.7	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	155.0	154.9	154.9	227.0
06/06/69	0.09	104.3	37.00	0	0	154.0	0	0	75.00	0	103.5	103.5	103.4	0
06/07/69	0.83	144.7	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	152.0	151.9	151.9	227.0
06/11/69	0.07	88.68	37.00	0	0	154.0	0	0	75.00	0	85.80	85.78	85.76	0
06/11/69	0.03	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
06/12/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
06/12/69	0.24	170.1	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	177.2	177.2	177.1	227.0
06/17/69	0.36	174.7	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	184.2	184.1	184.1	227.0
06/18/69	0.16	142.9	37.00	0	0	154.0	0	0	75.00	0	146.3	146.3	146.3	0
06/19/69	0.09	82.85	37.00	0	0	154.0	0	0	75.00	0	79.61	79.59	79.57	0
06/21/69	0.02	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
06/22/69	0.36	118.6	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	120.5	120.5	120.4	227.0
06/22/69	0.05	73.33	37.00	0	0	154.0	0	0	75.00	0	68.59	68.57	68.56	0
06/25/69	1.68	89.36	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	88.18	88.16	88.14	227.0
06/27/69	0.68	168.4	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	178.4	178.3	178.3	227.0
06/29/69	0.70	117.0	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	119.5	119.4	119.4	227.0
06/29/69	1.96	69.20	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	62.62	62.60	62.59	227.0
06/30/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
07/02/69	0.31	76.74	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	72.95	72.93	72.91	227.0
07/04/69	0.04	49.45	37.00	0	0	154.0	0	0	75.00	0	42.35	42.34	42.33	0
07/10/69	0.47	128.5	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	132.0	132.0	131.9	227.0
07/11/69	0.07	56.32	37.00	0	0	154.0	0	0	75.00	0	49.73	49.72	49.71	0
07/16/69	0.52	142.2	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	147.7	147.7	147.7	227.0
07/17/69	0.85	116.9	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	119.6	119.6	119.6	227.0
07/17/69	1.44	83.63	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	80.77	80.75	80.73	227.0
07/18/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
07/23/69	0.11	68.05	37.00	0	0	154.0	0	0	75.00	0	63.59	63.57	63.56	0
07/26/69	1.37	153.1	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	164.0	163.9	163.9	227.0
07/27/69	1.38	56.61	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	48.40	48.38	48.37	227.0
07/31/69	0.04	53.93	37.00	0	0	154.0	0	0	75.00	0	47.26	47.24	47.23	0
08/04/69	0.03	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
08/07/69	0.10	81.65	37.00	0	0	154.0	0	0	75.00	0	78.45	78.43	78.41	0
08/09/69	0.08	72.09	37.00	0	0	154.0	0	0	75.00	0	67.38	67.36	67.35	0
08/16/69	0.32	174.3	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	183.1	183.1	183.0	227.0
09/04/69	0.36	212.6	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	227.2	227.1	227.1	227.0
09/05/69	0.74	328.6	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	363.6	363.5	363.4	227.0
09/14/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
09/15/69	0.03	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
09/16/69	0.03	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
09/23/69	0.16	273.7	37.00	0	0	154.0	0	0	75.00	0	290.9	290.8	290.7	0
09/25/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
09/29/69	0.84	253.2	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	278.0	277.9	277.8	227.0
10/06/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
10/06/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0
10/09/69	0.05	164.5	37.00	0	0	154.0	0	0	75.00	0	169.2	169.1	169.1	0
10/10/69	0.14	225.2	37.00	0	0	154.0	0	0	75.00	0	237.0	236.9	236.8	0

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
10/10/69	1.34	139.0	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	147.0	147.0	146.9	227.0	
10/12/69	1.63	102.7	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	104.4	104.4	104.4	227.0	
10/15/69	0.16	176.7	37.00	0	0	154.0	0	0	75.00	0	183.6	183.6	183.5	0	
10/19/69	0.44	136.7	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	141.3	141.3	141.2	227.0	
10/19/69	0.35	129.7	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	133.0	133.0	133.0	227.0	
10/21/69	0.02	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	
10/24/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	
10/30/69	0.32	183.4	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	193.4	193.4	193.3	227.0	
11/02/69	0.77	161.3	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	170.9	170.9	170.9	227.0	
11/11/69	0.05	121.3	37.00	0	0	154.0	0	0	75.00	0	121.5	121.5	121.5	0	
11/11/69	0.04	117.6	37.00	0	0	154.0	0	0	75.00	0	117.1	117.1	117.1	0	
11/13/69	0.03	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	
11/17/69	0.15	211.3	37.00	0	0	154.0	0	0	75.00	0	221.8	221.8	221.7	0	
11/18/69	0.02	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	
11/19/69	0.01	123.4	37.00	0	0	154.0	0	0	75.00	0	0	0	0	0	
11/26/69	0.07	144.7	37.00	0	0	154.0	0	0	75.00	0	148.2	148.1	148.1	0	
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Summary for Runoff Producing Events															
	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 2	Driveways 3	Sidewalks 1	Sidewalks 1	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	
Minimum:	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	
Maximum:	1.96	1892.00	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	2085	2084	2084	227.0	
FI Wt Ave:	N/A	168.4	37.00	37.00	37.00	154.0	154.0	154.0	75.00	75.00	181.2	181.2	181.1	227.0	
Residential: Suburban Residential (North) Areas - Particulate Solids Concentration (mg/L)															
Start Date	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1	
01/05/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/08/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/15/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/17/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/29/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Page 180 of

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
02/22/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03/20/69	0.18	2042	37.00	0	0	154.0	0	2085	2084	2207	0	0	0	0
03/20/69	0.04	1168	37.00	0	0	154.0	0	1125	1124	2202	0	0	0	0
03/21/69	0.08	837.5	37.00	0	0	154.0	0	851.1	850.5	941.7	0	0	0	0
03/24/69	0.64	752.2	37.00	37.00	37.00	154.0	154.0	769.0	768.4	991.4	227.0	227.0	227.0	16.00
03/28/69	0.08	547.4	37.00	0	0	154.0	0	544.0	543.6	714.4	0	0	0	0
04/01/69	0.29	645.5	37.00	37.00	37.00	154.0	154.0	642.1	641.7	898.5	227.0	227.0	227.0	16.00
04/04/69	0.43	392.3	37.00	37.00	37.00	154.0	154.0	388.0	387.8	594.4	227.0	227.0	227.0	16.00
04/08/69	0.71	343.6	37.00	37.00	37.00	154.0	154.0	337.7	337.5	572.5	227.0	227.0	227.0	16.00
04/14/69	0.52	274.9	37.00	37.00	37.00	154.0	154.0	269.3	269.1	438.8	227.0	227.0	227.0	16.00
04/16/69	0.10	210.4	37.00	0	0	154.0	0	194.6	194.5	393.5	0	0	0	0
04/16/69	1.26	175.8	37.00	37.00	37.00	154.0	154.0	176.1	175.9	250.7	227.0	227.0	227.0	16.00
04/21/69	0.04	157.3	37.00	0	0	154.0	0	138.6	138.5	472.9	0	0	0	0
04/27/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
04/28/69	0.06	163.1	37.00	0	0	154.0	0	151.6	151.5	312.4	0	0	0	0
05/01/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
05/05/69	0.18	345.8	37.00	0	0	154.0	0	341.4	341.2	462.0	0	0	0	0
05/06/69	0.02	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
05/06/69	0.06	149.6	37.00	0	0	154.0	0	141.2	141.1	261.7	0	0	0	0
05/08/69	0.26	249.1	37.00	37.00	37.00	154.0	154.0	249.5	249.3	309.7	227.0	227.0	227.0	16.00
05/08/69	0.22	234.4	37.00	37.00	37.00	154.0	154.0	233.2	233.0	296.5	227.0	227.0	227.0	16.00
05/10/69	0.02	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
05/13/69	0.18	242.3	37.00	0	0	154.0	0	239.2	239.0	318.0	0	0	0	0
05/17/69	1.33	132.1	37.00	37.00	37.00	154.0	154.0	135.4	135.3	150.5	227.0	227.0	227.0	16.00
05/20/69	0.03	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
05/21/69	0.55	150.0	37.00	37.00	37.00	154.0	154.0	150.4	150.3	191.3	227.0	227.0	227.0	16.00
05/24/69	0.06	104.2	37.00	0	0	154.0	0	97.61	97.54	182.5	0	0	0	0
05/26/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
05/31/69	0.12	158.7	37.00	0	0	154.0	0	153.2	153.1	234.7	0	0	0	0
06/01/69	0.04	121.9	37.00	0	0	154.0	0	110.9	110.8	305.6	0	0	0	0
06/02/69	0.05	117.3	37.00	0	0	154.0	0	108.8	108.7	235.1	0	0	0	0
06/03/69	0.02	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
06/04/69	0.40	153.2	37.00	37.00	37.00	154.0	154.0	155.0	154.9	179.6	227.0	227.0	227.0	16.00
06/06/69	0.09	107.0	37.00	0	0	154.0	0	103.5	103.4	148.0	0	0	0	0
06/07/69	0.83	149.6	37.00	37.00	37.00	154.0	154.0	152.0	151.9	181.8	227.0	227.0	227.0	16.00
06/11/69	0.07	89.65	37.00	0	0	154.0	0	85.82	85.76	130.2	0	0	0	0
06/11/69	0.03	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
06/12/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
06/12/69	0.24	177.5	37.00	37.00	37.00	154.0	154.0	177.3	177.1	214.8	227.0	227.0	227.0	16.00
06/17/69	0.36	178.5	37.00	37.00	37.00	154.0	154.0	184.2	184.1	179.6	227.0	227.0	227.0	16.00
06/18/69	0.16	149.5	37.00	0	0	154.0	0	146.4	146.3	200.6	0	0	0	0
06/19/69	0.09	82.48	37.00	0	0	154.0	0	79.63	79.57	110.9	0	0	0	0
06/21/69	0.02	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
06/22/69	0.36	120.3	37.00	37.00	37.00	154.0	154.0	120.5	120.4	143.0	227.0	227.0	227.0	16.00
06/22/69	0.05	73.90	37.00	0	0	154.0	0	68.61	68.56	138.0	0	0	0	0
06/25/69	1.68	85.10	37.00	37.00	37.00	154.0	154.0	88.20	88.14	79.51	227.0	227.0	227.0	16.00
06/27/69	0.68	171.5	37.00	37.00	37.00	154.0	154.0	178.4	178.3	168.5	227.0	227.0	227.0	16.00
06/29/69	0.70	118.6	37.00	37.00	37.00	154.0	154.0	119.5	119.4	142.4	227.0	227.0	227.0	16.00

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
06/29/69	1.96	62.23	37.00	37.00	37.00	154.0	154.0	62.63	62.59	60.02	227.0	227.0	227.0	16.00
06/30/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
07/02/69	0.31	76.41	37.00	37.00	37.00	154.0	154.0	72.97	72.91	110.1	227.0	227.0	227.0	16.00
07/04/69	0.04	48.15	37.00	0	0	154.0	0	42.36	42.33	125.1	0	0	0	0
07/10/69	0.47	130.2	37.00	37.00	37.00	154.0	154.0	132.0	131.9	145.9	227.0	227.0	227.0	16.00
07/11/69	0.07	54.00	37.00	0	0	154.0	0	49.74	49.71	88.08	0	0	0	0
07/16/69	0.52	145.0	37.00	37.00	37.00	154.0	154.0	147.8	147.7	160.9	227.0	227.0	227.0	16.00
07/17/69	0.85	119.6	37.00	37.00	37.00	154.0	154.0	119.7	119.6	153.6	227.0	227.0	227.0	16.00
07/17/69	1.44	80.76	37.00	37.00	37.00	154.0	154.0	80.79	80.73	89.95	227.0	227.0	227.0	16.00
07/18/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
07/23/69	0.11	68.52	37.00	0	0	154.0	0	63.60	63.56	113.8	0	0	0	0
07/26/69	1.37	154.6	37.00	37.00	37.00	154.0	154.0	164.0	163.9	137.0	227.0	227.0	227.0	16.00
07/27/69	1.38	52.66	37.00	37.00	37.00	154.0	154.0	48.41	48.37	78.12	227.0	227.0	227.0	16.00
07/31/69	0.04	54.71	37.00	0	0	154.0	0	47.27	47.23	159.7	0	0	0	0
08/04/69	0.03	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
08/07/69	0.10	84.32	37.00	0	0	154.0	0	78.47	78.41	141.4	0	0	0	0
08/09/69	0.08	72.19	37.00	0	0	154.0	0	67.39	67.35	113.5	0	0	0	0
08/16/69	0.32	182.5	37.00	37.00	37.00	154.0	154.0	183.2	183.0	224.7	227.0	227.0	227.0	16.00
09/04/69	0.36	227.2	37.00	37.00	37.00	154.0	154.0	227.2	227.1	299.8	227.0	227.0	227.0	16.00
09/05/69	0.74	339.9	37.00	37.00	37.00	154.0	154.0	363.7	363.4	285.6	227.0	227.0	227.0	16.00
09/14/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
09/15/69	0.03	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
09/16/69	0.03	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
09/23/69	0.16	301.4	37.00	0	0	154.0	0	290.9	290.7	461.8	0	0	0	0
09/25/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
09/29/69	0.84	268.8	37.00	37.00	37.00	154.0	154.0	278.0	277.8	315.9	227.0	227.0	227.0	16.00
10/06/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
10/06/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
10/09/69	0.05	183.6	37.00	0	0	154.0	0	169.2	169.1	397.4	0	0	0	0
10/10/69	0.14	243.2	37.00	0	0	154.0	0	237.0	236.9	349.2	0	0	0	0
10/10/69	1.34	143.3	37.00	37.00	37.00	154.0	154.0	147.0	146.9	166.0	227.0	227.0	227.0	16.00
10/12/69	1.63	102.0	37.00	37.00	37.00	154.0	154.0	104.5	104.4	111.9	227.0	227.0	227.0	16.00
10/15/69	0.16	188.2	37.00	0	0	154.0	0	183.7	183.5	262.3	0	0	0	0
10/19/69	0.44	140.7	37.00	37.00	37.00	154.0	154.0	141.3	141.2	172.7	227.0	227.0	227.0	16.00
10/19/69	0.35	132.8	37.00	37.00	37.00	154.0	154.0	133.1	133.0	159.5	227.0	227.0	227.0	16.00
10/21/69	0.02	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
10/24/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
10/30/69	0.32	193.1	37.00	37.00	37.00	154.0	154.0	193.5	193.3	242.5	227.0	227.0	227.0	16.00
11/02/69	0.77	169.5	37.00	37.00	37.00	154.0	154.0	171.0	170.9	222.0	227.0	227.0	227.0	16.00
11/11/69	0.05	132.3	37.00	0	0	154.0	0	121.6	121.5	284.1	0	0	0	0
11/11/69	0.04	129.5	37.00	0	0	154.0	0	117.1	117.1	335.8	0	0	0	0
11/13/69	0.03	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
11/17/69	0.15	228.1	37.00	0	0	154.0	0	221.9	221.7	330.2	0	0	0	0
11/18/69	0.02	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
11/19/69	0.01	93.48	37.00	0	0	154.0	0	0	0	0	0	0	0	0
11/26/69	0.07	155.7	37.00	0	0	154.0	0	148.2	148.1	250.3	0	0	0	0
12/07/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb														
12/21/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Summary for Runoff Producing Events														
	Rain Total (in.)	Land Use Totals	Roofs 1	Roofs 2	Roofs 3	Driveways 1	Driveways 3	Streets 1	Streets 2	Streets 3	Small Landscaped Areas 1	Small Landscaped Areas 2	Small Landscaped Areas 3	Undevelope d Areas 1
Minimum:	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
Maximum:	1.96	2042.00	37.00	37.00	37.00	154.0	154.0	2085	2084	2207	227.0	227.0	227.0	16.00
FI Wt Ave:	N/A	176.5	37.00	37.00	37.00	154.0	154.0	181.3	181.1	213.6	227.0	227.0	227.0	16.00
Industrial: Light Industrial Areas - Particulate Solids Concentration (mg/														
Start Date	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undevelope d Areas 1	Undevelope d Areas 2						
01/05/69	-	-	-	-	-	-	-	-						
01/06/69	-	-	-	-	-	-	-	-						
01/08/69	-	-	-	-	-	-	-	-						
01/15/69	-	-	-	-	-	-	-	-						
01/17/69	-	-	-	-	-	-	-	-						
01/23/69	-	-	-	-	-	-	-	-						
01/24/69	-	-	-	-	-	-	-	-						
01/28/69	-	-	-	-	-	-	-	-						
01/29/69	-	-	-	-	-	-	-	-						
02/06/69	-	-	-	-	-	-	-	-						
02/06/69	-	-	-	-	-	-	-	-						
02/22/69	-	-	-	-	-	-	-	-						
03/06/69	-	-	-	-	-	-	-	-						
03/20/69	0.18	7452	7451	7473	7446	0	0	0						
03/20/69	0.04	961.7	961.5	964.3	960.8	0	0	0						
03/21/69	0.08	5160	5159	5174	5156	0	0	0						
03/24/69	0.64	1243	1337	1340	1336	0	16.00	16.00						
03/28/69	0.08	3298	3298	3307	3295	0	0	0						
04/01/69	0.29	1981	2037	2043	2035	0	16.00	16.00						
04/04/69	0.43	1026	1086	1089	1085	0	16.00	16.00						
04/08/69	0.71	432.1	467.9	469.2	467.5	0	16.00	16.00						
04/14/69	0.52	505.9	537.9	539.5	537.5	0	16.00	16.00						
04/16/69	0.10	1079	1078	1082	1078	0	0	0						
04/16/69	1.26	136.5	151.3	151.7	151.2	0	16.00	16.00						
04/21/69	0.04	93.81	93.80	94.07	93.73	0	0	0						
04/27/69	0.01	0	0	0	0	0	0	0						
04/28/69	0.06	423.2	423.1	424.3	422.8	0	0	0						
05/01/69	0.01	0	0	0	0	0	0	0						
05/05/69	0.18	863.8	863.7	866.2	863.0	0	0	0						
05/06/69	0.02	0	0	0	0	0	0	0						

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
05/06/69	0.06	372.0	371.9	373.0	371.7	0	0	0							
05/08/69	0.26	578.3	589.2	590.9	588.8	0	16.00	16.00							
05/08/69	0.22	570.3	574.3	576.0	573.9	0	16.00	16.00							
05/10/69	0.02	0	0	0	0	0	0	0							
05/13/69	0.18	649.1	649.0	650.8	648.5	0	0	0							
05/17/69	1.33	94.56	104.4	104.7	104.3	0	16.00	16.00							
05/20/69	0.03	0	0	0	0	0	0	0							
05/21/69	0.55	236.7	251.5	252.2	251.3	0	16.00	16.00							
05/24/69	0.06	292.3	292.2	293.1	292.0	0	0	0							
05/26/69	0.01	0	0	0	0	0	0	0							
05/31/69	0.12	773.2	773.1	775.3	772.5	0	0	0							
06/01/69	0.04	72.80	72.79	73.00	72.74	0	0	0							
06/02/69	0.05	201.3	201.2	201.8	201.1	0	0	0							
06/03/69	0.02	0	0	0	0	0	0	0							
06/04/69	0.40	355.1	374.4	375.5	374.1	0	16.00	16.00							
06/06/69	0.09	529.4	529.3	530.9	528.9	0	0	0							
06/07/69	0.83	132.6	144.1	144.5	144.0	0	16.00	16.00							
06/11/69	0.07	355.0	355.0	356.0	354.7	0	0	0							
06/11/69	0.03	0	0	0	0	0	0	0							
06/12/69	0.01	0	0	0	0	0	0	0							
06/12/69	0.24	464.9	470.9	472.2	470.5	0	16.00	16.00							
06/17/69	0.36	472.0	493.7	495.1	493.3	0	16.00	16.00							
06/18/69	0.16	520.0	519.9	521.4	519.6	0	0	0							
06/19/69	0.09	440.7	440.6	441.9	440.3	0	0	0							
06/21/69	0.02	0	0	0	0	0	0	0							
06/22/69	0.36	320.1	334.5	335.5	334.3	0	16.00	16.00							
06/22/69	0.05	145.1	145.1	145.5	145.0	0	0	0							
06/25/69	1.68	67.63	78.70	78.93	78.64	0	16.00	16.00							
06/27/69	0.68	234.0	251.8	252.6	251.7	0	16.00	16.00							
06/29/69	0.70	152.0	163.6	164.0	163.4	0	16.00	16.00							
06/29/69	1.96	45.04	57.34	57.51	57.30	0	16.00	16.00							
06/30/69	0.01	0	0	0	0	0	0	0							
07/02/69	0.31	210.8	217.4	218.0	217.2	0	16.00	16.00							
07/04/69	0.04	34.18	34.17	34.27	34.15	0	0	0							
07/10/69	0.47	308.8	327.0	327.9	326.8	0	16.00	16.00							
07/11/69	0.07	241.6	241.5	242.2	241.4	0	0	0							
07/16/69	0.52	311.3	330.6	331.6	330.4	0	16.00	16.00							
07/17/69	0.85	124.6	135.3	135.7	135.3	0	16.00	16.00							
07/17/69	1.44	71.75	78.98	79.21	78.92	0	16.00	16.00							
07/18/69	0.01	0	0	0	0	0	0	0							
07/23/69	0.11	431.9	431.8	433.0	431.5	0	0	0							
07/26/69	1.37	145.7	162.1	162.6	162.0	0	16.00	16.00							
07/27/69	1.38	44.29	47.89	48.03	47.86	0	16.00	16.00							
07/31/69	0.04	40.07	40.06	40.18	40.03	0	0	0							
08/04/69	0.03	0	0	0	0	0	0	0							
08/07/69	0.10	523.2	523.1	524.6	522.7	0	0	0							
08/09/69	0.08	406.7	406.6	407.8	406.3	0	0	0							
08/16/69	0.32	534.0	553.0	554.7	552.6	0	16.00	16.00							
09/04/69	0.36	527.0	551.3	552.9	550.9	0	16.00	16.00							

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb															
09/05/69	0.74	376.6	409.1	410.2	408.8	0	16.00	16.00							
09/14/69	0.01	0	0	0	0	0	0	0							
09/15/69	0.03	0	0	0	0	0	0	0							
09/16/69	0.03	0	0	0	0	0	0	0							
09/23/69	0.16	857.0	856.9	859.4	856.3	0	0	0							
09/25/69	0.01	0	0	0	0	0	0	0							
09/29/69	0.84	221.4	241.6	242.3	241.4	0	16.00	16.00							
10/06/69	0.01	0	0	0	0	0	0	0							
10/06/69	0.01	0	0	0	0	0	0	0							
10/09/69	0.05	264.2	264.2	265.0	264.0	0	0	0							
10/10/69	0.14	827.4	827.2	829.6	826.6	0	0	0							
10/10/69	1.34	98.36	108.7	109.0	108.6	0	16.00	16.00							
10/12/69	1.63	69.57	79.04	79.27	78.98	0	16.00	16.00							
10/15/69	0.16	598.4	598.3	600.1	597.9	0	0	0							
10/19/69	0.44	292.9	309.5	310.4	309.3	0	16.00	16.00							
10/19/69	0.35	321.2	335.0	335.9	334.7	0	16.00	16.00							
10/21/69	0.02	0	0	0	0	0	0	0							
10/24/69	0.01	0	0	0	0	0	0	0							
10/30/69	0.32	467.6	484.2	485.6	483.8	0	16.00	16.00							
11/02/69	0.77	163.4	177.2	177.7	177.1	0	16.00	16.00							
11/11/69	0.05	220.1	220.1	220.7	219.9	0	0	0							
11/11/69	0.04	76.68	76.66	76.89	76.61	0	0	0							
11/13/69	0.03	0	0	0	0	0	0	0							
11/17/69	0.15	761.4	761.2	763.4	760.7	0	0	0							
11/18/69	0.02	0	0	0	0	0	0	0							
11/19/69	0.01	0	0	0	0	0	0	0							
11/26/69	0.07	514.9	514.8	516.3	514.4	0	0	0							
12/07/69	-	-	-	-	-	-	-	-							
12/11/69	-	-	-	-	-	-	-	-							
12/16/69	-	-	-	-	-	-	-	-							
12/21/69	-	-	-	-	-	-	-	-							
12/23/69	-	-	-	-	-	-	-	-							
12/24/69	-	-	-	-	-	-	-	-							
12/24/69	-	-	-	-	-	-	-	-							
12/27/69	-	-	-	-	-	-	-	-							
12/28/69	-	-	-	-	-	-	-	-							
12/31/69	-	-	-	-	-	-	-	-							
Summary for Runoff Producing Events															
	Rain Total (in.)	Land Use Totals	Streets 1	Streets 2	Streets 3	Large Landscaped Areas 1	Undevelope d Areas 1	Undevelope d Areas 2							
Minimum:	0.00	0.00	0	0	0	0	0	0							
Maximum:	1.96	7452.00	7451	7473	7446	0	16.00	16.00							
Fl Wt Ave:	N/A	283.3	316.4	317.3	316.1	0	16.00	16.00							

Data File: C:\Users\carltonsm\OneDrive - CI						
Rain File: WisReg - Milwaukee WI 1969.RAI						
Date: 01-23-24 Time: 6:33:21 PM						
Site Description: Cedar Creek BMP Site						
Residential: Suburban Residential (South) A						
Start Date	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undeveloped Areas 1	Undeveloped Areas 2	Isolated Areas
01/05/69	-	-	-	-	-	-
01/06/69	-	-	-	-	-	-
01/08/69	-	-	-	-	-	-
01/15/69	-	-	-	-	-	-
01/17/69	-	-	-	-	-	-
01/23/69	-	-	-	-	-	-
01/24/69	-	-	-	-	-	-
01/28/69	-	-	-	-	-	-
01/29/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/06/69	-	-	-	-	-	-
02/22/69	-	-	-	-	-	-
03/06/69	-	-	-	-	-	-
03/20/69	0.18	1892	0	0	0	0
03/20/69	0.04	1036	0	0	0	0
03/21/69	0.08	773.0	0	0	0	0
03/24/69	0.64	685.2	227.0	16.00	16.00	0
03/28/69	0.08	498.3	0	0	0	0
04/01/69	0.29	582.5	227.0	16.00	16.00	0
04/04/69	0.43	353.1	227.0	16.00	16.00	0
04/08/69	0.71	306.7	227.0	16.00	16.00	0
04/14/69	0.52	248.9	227.0	16.00	16.00	0
04/16/69	0.10	186.5	0	0	0	0
04/16/69	1.26	163.8	227.0	16.00	16.00	0
04/21/69	0.04	137.2	0	0	0	0
04/27/69	0.01	123.4	0	0	0	0
04/28/69	0.06	148.1	0	0	0	0
05/01/69	0.01	123.4	0	0	0	0
05/05/69	0.18	318.9	0	0	0	0
05/06/69	0.02	123.4	0	0	0	0
05/06/69	0.06	138.7	0	0	0	0
05/08/69	0.26	234.2	227.0	16.00	16.00	0
05/08/69	0.22	220.5	227.0	16.00	16.00	0
05/10/69	0.02	123.4	0	0	0	0
05/13/69	0.18	226.7	0	0	0	0
05/17/69	1.33	129.3	227.0	16.00	16.00	0
05/20/69	0.03	123.4	0	0	0	0
05/21/69	0.55	144.5	227.0	16.00	16.00	0
05/24/69	0.06	99.43	0	0	0	0
05/26/69	0.01	123.4	0	0	0	0
05/31/69	0.12	149.3	0	0	0	0

Data File: C:\Users\cartlonsm\OneDrive - CI						
06/01/69	0.04	111.9	0	0	0	0
06/02/69	0.05	109.8	0	0	0	0
06/03/69	0.02	123.4	0	0	0	0
06/04/69	0.40	148.7	227.0	16.00	16.00	0
06/06/69	0.09	104.3	0	0	0	0
06/07/69	0.83	144.7	227.0	16.00	16.00	0
06/11/69	0.07	88.68	0	0	0	0
06/11/69	0.03	123.4	0	0	0	0
06/12/69	0.01	123.4	0	0	0	0
06/12/69	0.24	170.1	227.0	16.00	16.00	0
06/17/69	0.36	174.7	227.0	16.00	16.00	0
06/18/69	0.16	142.9	0	0	0	0
06/19/69	0.09	82.85	0	0	0	0
06/21/69	0.02	123.4	0	0	0	0
06/22/69	0.36	118.6	227.0	16.00	16.00	0
06/22/69	0.05	73.33	0	0	0	0
06/25/69	1.68	89.36	227.0	16.00	16.00	0
06/27/69	0.68	168.4	227.0	16.00	16.00	0
06/29/69	0.70	117.0	227.0	16.00	16.00	0
06/29/69	1.96	69.20	227.0	16.00	16.00	0
06/30/69	0.01	123.4	0	0	0	0
07/02/69	0.31	76.74	227.0	16.00	16.00	0
07/04/69	0.04	49.45	0	0	0	0
07/10/69	0.47	128.5	227.0	16.00	16.00	0
07/11/69	0.07	56.32	0	0	0	0
07/16/69	0.52	142.2	227.0	16.00	16.00	0
07/17/69	0.85	116.9	227.0	16.00	16.00	0
07/17/69	1.44	83.63	227.0	16.00	16.00	0
07/18/69	0.01	123.4	0	0	0	0
07/23/69	0.11	68.05	0	0	0	0
07/26/69	1.37	153.1	227.0	16.00	16.00	0
07/27/69	1.38	56.61	227.0	16.00	16.00	0
07/31/69	0.04	53.93	0	0	0	0
08/04/69	0.03	123.4	0	0	0	0
08/07/69	0.10	81.65	0	0	0	0
08/09/69	0.08	72.09	0	0	0	0
08/16/69	0.32	174.3	227.0	16.00	16.00	0
09/04/69	0.36	212.6	227.0	16.00	16.00	0
09/05/69	0.74	328.6	227.0	16.00	16.00	0
09/14/69	0.01	123.4	0	0	0	0
09/15/69	0.03	123.4	0	0	0	0
09/16/69	0.03	123.4	0	0	0	0
09/23/69	0.16	273.7	0	0	0	0
09/25/69	0.01	123.4	0	0	0	0
09/29/69	0.84	253.2	227.0	16.00	16.00	0
10/06/69	0.01	123.4	0	0	0	0
10/06/69	0.01	123.4	0	0	0	0
10/09/69	0.05	164.5	0	0	0	0
10/10/69	0.14	225.2	0	0	0	0

Data File: C:\Users\carltonsm\OneDrive - CI						
10/10/69	1.34	139.0	227.0	16.00	16.00	0
10/12/69	1.63	102.7	227.0	16.00	16.00	0
10/15/69	0.16	176.7	0	0	0	0
10/19/69	0.44	136.7	227.0	16.00	16.00	0
10/19/69	0.35	129.7	227.0	16.00	16.00	0
10/21/69	0.02	123.4	0	0	0	0
10/24/69	0.01	123.4	0	0	0	0
10/30/69	0.32	183.4	227.0	16.00	16.00	0
11/02/69	0.77	161.3	227.0	16.00	16.00	0
11/11/69	0.05	121.3	0	0	0	0
11/11/69	0.04	117.6	0	0	0	0
11/13/69	0.03	123.4	0	0	0	0
11/17/69	0.15	211.3	0	0	0	0
11/18/69	0.02	123.4	0	0	0	0
11/19/69	0.01	123.4	0	0	0	0
11/26/69	0.07	144.7	0	0	0	0
12/07/69	-	-	-	-	-	-
12/11/69	-	-	-	-	-	-
12/16/69	-	-	-	-	-	-
12/21/69	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Small Landscaped Areas 2	Undevelope d Areas 1	Undevelope d Areas 2	Isolated Areas
Minimum:	0.00	0.00	0	0	0	0
Maximum:	1.96	1892.00	227.0	16.00	16.00	0
FI Wt Ave:	N/A	168.4	227.0	16.00	16.00	0
Residential: Suburban Residential (North) A						
Start Date	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
01/05/69	-	-	-	-	-	
01/06/69	-	-	-	-	-	
01/08/69	-	-	-	-	-	
01/15/69	-	-	-	-	-	
01/17/69	-	-	-	-	-	
01/23/69	-	-	-	-	-	
01/24/69	-	-	-	-	-	
01/28/69	-	-	-	-	-	
01/29/69	-	-	-	-	-	
02/06/69	-	-	-	-	-	
02/06/69	-	-	-	-	-	

Data File: C:\Users\carltonsm\OneDrive - CI					
02/22/69	-	-	-	-	-
03/06/69	-	-	-	-	-
03/20/69	0.18	2042	0	0	0
03/20/69	0.04	1168	0	0	0
03/21/69	0.08	837.5	0	0	0
03/24/69	0.64	752.2	16.00	16.00	0
03/28/69	0.08	547.4	0	0	0
04/01/69	0.29	645.5	16.00	16.00	0
04/04/69	0.43	392.3	16.00	16.00	0
04/08/69	0.71	343.6	16.00	16.00	0
04/14/69	0.52	274.9	16.00	16.00	0
04/16/69	0.10	210.4	0	0	0
04/16/69	1.26	175.8	16.00	16.00	0
04/21/69	0.04	157.3	0	0	0
04/27/69	0.01	93.48	0	0	0
04/28/69	0.06	163.1	0	0	0
05/01/69	0.01	93.48	0	0	0
05/05/69	0.18	345.8	0	0	0
05/06/69	0.02	93.48	0	0	0
05/06/69	0.06	149.6	0	0	0
05/08/69	0.26	249.1	16.00	16.00	0
05/08/69	0.22	234.4	16.00	16.00	0
05/10/69	0.02	93.48	0	0	0
05/13/69	0.18	242.3	0	0	0
05/17/69	1.33	132.1	16.00	16.00	0
05/20/69	0.03	93.48	0	0	0
05/21/69	0.55	150.0	16.00	16.00	0
05/24/69	0.06	104.2	0	0	0
05/26/69	0.01	93.48	0	0	0
05/31/69	0.12	158.7	0	0	0
06/01/69	0.04	121.9	0	0	0
06/02/69	0.05	117.3	0	0	0
06/03/69	0.02	93.48	0	0	0
06/04/69	0.40	153.2	16.00	16.00	0
06/06/69	0.09	107.0	0	0	0
06/07/69	0.83	149.6	16.00	16.00	0
06/11/69	0.07	89.65	0	0	0
06/11/69	0.03	93.48	0	0	0
06/12/69	0.01	93.48	0	0	0
06/12/69	0.24	177.5	16.00	16.00	0
06/17/69	0.36	178.5	16.00	16.00	0
06/18/69	0.16	149.5	0	0	0
06/19/69	0.09	82.48	0	0	0
06/21/69	0.02	93.48	0	0	0
06/22/69	0.36	120.3	16.00	16.00	0
06/22/69	0.05	73.90	0	0	0
06/25/69	1.68	85.10	16.00	16.00	0
06/27/69	0.68	171.5	16.00	16.00	0
06/29/69	0.70	118.6	16.00	16.00	0

Data File: C:\Users\carltonsm\OneDrive - CI						
06/29/69	1.96	62.23	16.00	16.00	0	
06/30/69	0.01	93.48	0	0	0	
07/02/69	0.31	76.41	16.00	16.00	0	
07/04/69	0.04	48.15	0	0	0	
07/10/69	0.47	130.2	16.00	16.00	0	
07/11/69	0.07	54.00	0	0	0	
07/16/69	0.52	145.0	16.00	16.00	0	
07/17/69	0.85	119.6	16.00	16.00	0	
07/17/69	1.44	80.76	16.00	16.00	0	
07/18/69	0.01	93.48	0	0	0	
07/23/69	0.11	68.52	0	0	0	
07/26/69	1.37	154.6	16.00	16.00	0	
07/27/69	1.38	52.66	16.00	16.00	0	
07/31/69	0.04	54.71	0	0	0	
08/04/69	0.03	93.48	0	0	0	
08/07/69	0.10	84.32	0	0	0	
08/09/69	0.08	72.19	0	0	0	
08/16/69	0.32	182.5	16.00	16.00	0	
09/04/69	0.36	227.2	16.00	16.00	0	
09/05/69	0.74	339.9	16.00	16.00	0	
09/14/69	0.01	93.48	0	0	0	
09/15/69	0.03	93.48	0	0	0	
09/16/69	0.03	93.48	0	0	0	
09/23/69	0.16	301.4	0	0	0	
09/25/69	0.01	93.48	0	0	0	
09/29/69	0.84	268.8	16.00	16.00	0	
10/06/69	0.01	93.48	0	0	0	
10/06/69	0.01	93.48	0	0	0	
10/09/69	0.05	183.6	0	0	0	
10/10/69	0.14	243.2	0	0	0	
10/10/69	1.34	143.3	16.00	16.00	0	
10/12/69	1.63	102.0	16.00	16.00	0	
10/15/69	0.16	188.2	0	0	0	
10/19/69	0.44	140.7	16.00	16.00	0	
10/19/69	0.35	132.8	16.00	16.00	0	
10/21/69	0.02	93.48	0	0	0	
10/24/69	0.01	93.48	0	0	0	
10/30/69	0.32	193.1	16.00	16.00	0	
11/02/69	0.77	169.5	16.00	16.00	0	
11/11/69	0.05	132.3	0	0	0	
11/11/69	0.04	129.5	0	0	0	
11/13/69	0.03	93.48	0	0	0	
11/17/69	0.15	228.1	0	0	0	
11/18/69	0.02	93.48	0	0	0	
11/19/69	0.01	93.48	0	0	0	
11/26/69	0.07	155.7	0	0	0	
12/07/69	-	-	-	-	-	
12/11/69	-	-	-	-	-	
12/16/69	-	-	-	-	-	

Data File: C:\Users\carltonsm\OneDrive - CI						
12/21/69	-	-	-	-	-	-
12/23/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/24/69	-	-	-	-	-	-
12/27/69	-	-	-	-	-	-
12/28/69	-	-	-	-	-	-
12/31/69	-	-	-	-	-	-
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals	Undevelope d Areas 2	Undevelope d Areas 3	Isolated Areas	
Minimum:	0.00	0.00	0	0	0	
Maximum:	1.96	2042.00	16.00	16.00	0	
FI Wt Ave:	N/A	176.5	16.00	16.00	0	
Industrial: Light Industrial Areas - Particulate						
Start Date	Rain Total (in.)	Land Use Totals				
01/05/69	-	-				
01/06/69	-	-				
01/08/69	-	-				
01/15/69	-	-				
01/17/69	-	-				
01/23/69	-	-				
01/24/69	-	-				
01/28/69	-	-				
01/29/69	-	-				
02/06/69	-	-				
02/06/69	-	-				
02/22/69	-	-				
03/06/69	-	-				
03/20/69	0.18	7452				
03/20/69	0.04	961.7				
03/21/69	0.08	5160				
03/24/69	0.64	1243				
03/28/69	0.08	3298				
04/01/69	0.29	1981				
04/04/69	0.43	1026				
04/08/69	0.71	432.1				
04/14/69	0.52	505.9				
04/16/69	0.10	1079				
04/16/69	1.26	136.5				
04/21/69	0.04	93.81				
04/27/69	0.01	0				
04/28/69	0.06	423.2				
05/01/69	0.01	0				
05/05/69	0.18	863.8				
05/06/69	0.02	0				

Data File: C:\Users\carltonsm\OneDrive - CI						
05/06/69	0.06	372.0				
05/08/69	0.26	578.3				
05/08/69	0.22	570.3				
05/10/69	0.02	0				
05/13/69	0.18	649.1				
05/17/69	1.33	94.56				
05/20/69	0.03	0				
05/21/69	0.55	236.7				
05/24/69	0.06	292.3				
05/26/69	0.01	0				
05/31/69	0.12	773.2				
06/01/69	0.04	72.80				
06/02/69	0.05	201.3				
06/03/69	0.02	0				
06/04/69	0.40	355.1				
06/06/69	0.09	529.4				
06/07/69	0.83	132.6				
06/11/69	0.07	355.0				
06/11/69	0.03	0				
06/12/69	0.01	0				
06/12/69	0.24	464.9				
06/17/69	0.36	472.0				
06/18/69	0.16	520.0				
06/19/69	0.09	440.7				
06/21/69	0.02	0				
06/22/69	0.36	320.1				
06/22/69	0.05	145.1				
06/25/69	1.68	67.63				
06/27/69	0.68	234.0				
06/29/69	0.70	152.0				
06/29/69	1.96	45.04				
06/30/69	0.01	0				
07/02/69	0.31	210.8				
07/04/69	0.04	34.18				
07/10/69	0.47	308.8				
07/11/69	0.07	241.6				
07/16/69	0.52	311.3				
07/17/69	0.85	124.6				
07/17/69	1.44	71.75				
07/18/69	0.01	0				
07/23/69	0.11	431.9				
07/26/69	1.37	145.7				
07/27/69	1.38	44.29				
07/31/69	0.04	40.07				
08/04/69	0.03	0				
08/07/69	0.10	523.2				
08/09/69	0.08	406.7				
08/16/69	0.32	534.0				
09/04/69	0.36	527.0				

Data File: C:\Users\carltonsm\OneDrive - CI						
09/05/69	0.74	376.6				
09/14/69	0.01	0				
09/15/69	0.03	0				
09/16/69	0.03	0				
09/23/69	0.16	857.0				
09/25/69	0.01	0				
09/29/69	0.84	221.4				
10/06/69	0.01	0				
10/06/69	0.01	0				
10/09/69	0.05	264.2				
10/10/69	0.14	827.4				
10/10/69	1.34	98.36				
10/12/69	1.63	69.57				
10/15/69	0.16	598.4				
10/19/69	0.44	292.9				
10/19/69	0.35	321.2				
10/21/69	0.02	0				
10/24/69	0.01	0				
10/30/69	0.32	467.6				
11/02/69	0.77	163.4				
11/11/69	0.05	220.1				
11/11/69	0.04	76.68				
11/13/69	0.03	0				
11/17/69	0.15	761.4				
11/18/69	0.02	0				
11/19/69	0.01	0				
11/26/69	0.07	514.9				
12/07/69	-	-				
12/11/69	-	-				
12/16/69	-	-				
12/21/69	-	-				
12/23/69	-	-				
12/24/69	-	-				
12/24/69	-	-				
12/27/69	-	-				
12/28/69	-	-				
12/31/69	-	-				
Summary for Runoff Producing Events						
	Rain Total (in.)	Land Use Totals				
Minimum:	0.00	0.00				
Maximum:	1.96	7452.00				
Fl Wt Ave:	N/A	283.3				

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb									
Rain File: WisReg - Milwaukee WI 1969.RAN									
Date: 01-23-24 Time: 6:33:28 PM									
Site Description: Cedar Creek BMP Site									
Runoff Volume Total (cf) at the Outfall									
Rain Number	Start Date	Rain Total (in)	Outfall Total (cf)	Rv	Total Losses (in.)	Calculated CN*	Event Peak Flow (cfs)		
1	01/05/69	-	-	-	-	-	-		
2	01/06/69	-	-	-	-	-	-		
3	01/08/69	-	-	-	-	-	-		
4	01/15/69	-	-	-	-	-	-		
5	01/17/69	-	-	-	-	-	-		
6	01/23/69	-	-	-	-	-	-		
7	01/24/69	-	-	-	-	-	-		
8	01/28/69	-	-	-	-	-	-		
9	01/29/69	-	-	-	-	-	-		
10	02/06/69	-	-	-	-	-	-		
11	02/06/69	-	-	-	-	-	-		
12	02/22/69	-	-	-	-	-	-		
13	03/06/69	-	-	-	-	-	-		
14	03/20/69	0.18	280.7	0.054	0.17	95.1	0.046		
15	03/20/69	0.04	31.48	0.027	0.04	98.7	0.004		
16	03/21/69	0.08	87.69	0.038	0.08	97.5	0.014		
17	03/24/69	0.64	1326	0.071	0.59	85.5	0.012		
18	03/28/69	0.08	85.70	0.037	0.08	97.5	0.010		
19	04/01/69	0.29	481.0	0.057	0.27	92.4	0.024		
20	04/04/69	0.43	808.4	0.065	0.40	89.5	0.040		
21	04/08/69	0.71	1588	0.077	0.66	84.6	0.065		
22	04/14/69	0.52	1066	0.071	0.48	87.9	0.052		
23	04/16/69	0.10	127.7	0.044	0.10	97.0	0.016		
24	04/16/69	1.26	3261	0.089	1.15	76.5	0.087		
25	04/21/69	0.04	31.47	0.027	0.04	98.7	0.004		
26	04/27/69	0.01	0	0.000	0.01	n/a	0.000		
27	04/28/69	0.06	47.59	0.027	0.06	98.0	0.003		
28	05/01/69	0.01	0	0.000	0.01	n/a	0.000		
29	05/05/69	0.18	282.8	0.054	0.17	95.1	0.069		
30	05/06/69	0.02	0	0.000	0.02	n/a	0.000		
31	05/06/69	0.06	50.97	0.029	0.06	98.0	0.004		
32	05/08/69	0.26	429.6	0.057	0.25	93.1	0.042		
33	05/08/69	0.22	346.3	0.054	0.21	94.0	0.024		
34	05/10/69	0.02	0	0.000	0.02	n/a	0.000		
35	05/13/69	0.18	282.8	0.054	0.17	95.1	0.069		
36	05/17/69	1.33	3296	0.085	1.22	75.2	0.057		
37	05/20/69	0.03	0	0.000	0.03	n/a	0.000		
38	05/21/69	0.55	1145	0.072	0.51	87.3	0.035		
39	05/24/69	0.06	50.92	0.029	0.06	98.0	0.004		
40	05/26/69	0.01	0	0.000	0.01	n/a	0.000		

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb								
Rain File: WisReg - Milwaukee WI 1969.RAN								
Date: 01-23-24 Time: 6:33:28 PM								
Site Description: Cedar Creek BMP Site								
Runoff Volume Total (cf) at the Outfall								
Rain Number	Start Date	Rain Total (in)	Outfall Total (cf)	Rv	Total Losses (in.)	Calculated CN*	Event Peak Flow (cfs)	
41	05/31/69	0.12	177.5	0.051	0.11	96.6	0.029	
42	06/01/69	0.04	25.84	0.022	0.04	98.6	0.002	
43	06/02/69	0.05	47.26	0.033	0.05	98.4	0.012	
44	06/03/69	0.02	0	0.000	0.02	n/a	0.000	
45	06/04/69	0.40	731.3	0.063	0.37	90.1	0.040	
46	06/06/69	0.09	103.7	0.040	0.09	97.3	0.010	
47	06/07/69	0.83	1884	0.078	0.77	82.5	0.054	
48	06/11/69	0.07	72.26	0.036	0.07	97.8	0.012	
49	06/11/69	0.03	0.7491	0.001	0.03	98.6	0.000	
50	06/12/69	0.01	0	0.000	0.01	n/a	0.000	
51	06/12/69	0.24	385.3	0.055	0.23	93.6	0.027	
52	06/17/69	0.36	651.8	0.062	0.34	91.0	0.159	
53	06/18/69	0.16	235.1	0.051	0.15	95.5	0.014	
54	06/19/69	0.09	105.8	0.040	0.09	97.3	0.013	
55	06/21/69	0.02	0	0.000	0.02	n/a	0.000	
56	06/22/69	0.36	645.2	0.062	0.34	90.9	0.063	
57	06/22/69	0.05	35.07	0.024	0.05	98.3	0.002	
58	06/25/69	1.68	6407	0.131	1.46	74.3	0.556	
59	06/27/69	0.68	2045	0.104	0.61	86.5	0.435	
60	06/29/69	0.70	2083	0.102	0.63	86.1	0.304	
61	06/29/69	1.96	8833	0.155	1.66	73.1	1.059	
62	06/30/69	0.01	0	0.000	0.01	n/a	0.000	
63	07/02/69	0.31	538.5	0.060	0.29	92.0	0.088	
64	07/04/69	0.04	28.10	0.024	0.04	98.6	0.002	
65	07/10/69	0.47	1037	0.076	0.43	89.2	0.229	
66	07/11/69	0.07	74.34	0.037	0.07	97.8	0.018	
67	07/16/69	0.52	1288	0.085	0.48	88.6	0.266	
68	07/17/69	0.85	2729	0.111	0.76	84.1	0.306	
69	07/17/69	1.44	5451	0.130	1.25	77.1	0.842	
70	07/18/69	0.01	0	0.000	0.01	n/a	0.000	
71	07/23/69	0.11	155.8	0.049	0.10	96.8	0.038	
72	07/26/69	1.37	5372	0.135	1.19	78.3	2.234	
73	07/27/69	1.38	3899	0.097	1.25	75.5	0.102	
74	07/31/69	0.04	35.14	0.030	0.04	98.7	0.009	
75	08/04/69	0.03	0	0.000	0.03	n/a	0.000	
76	08/07/69	0.10	121.8	0.042	0.10	97.0	0.009	
77	08/09/69	0.08	87.69	0.038	0.08	97.5	0.014	
78	08/16/69	0.32	562.4	0.061	0.30	91.8	0.137	
79	09/04/69	0.36	634.5	0.061	0.34	90.9	0.031	
80	09/05/69	0.74	2398	0.112	0.66	85.9	0.489	

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb								
Rain File: WisReg - Milwaukee WI 1969.RAN								
Date: 01-23-24 Time: 6:33:28 PM								
Site Description: Cedar Creek BMP Site								
Runoff Volume Total (cf) at the Outfall								
Rain Number	Start Date	Rain Total (in)	Outfall Total (cf)	Rv	Total Losses (in.)	Calculated CN*	Event Peak Flow (cfs)	
81	09/14/69	0.01	0	0.000	0.01	n/a	0.000	
82	09/15/69	0.03	0.7479	0.001	0.03	98.6	0.000	
83	09/16/69	0.03	0	0.000	0.03	n/a	0.000	
84	09/23/69	0.16	241.2	0.052	0.15	95.5	0.024	
85	09/25/69	0.01	0	0.000	0.01	n/a	0.000	
86	09/29/69	0.84	2726	0.112	0.75	84.3	0.251	
87	10/06/69	0.01	0	0.000	0.01	n/a	0.000	
88	10/06/69	0.01	0	0.000	0.01	n/a	0.000	
89	10/09/69	0.05	45.32	0.031	0.05	98.4	0.007	
90	10/10/69	0.14	208.9	0.051	0.13	96.1	0.026	
91	10/10/69	1.34	4620	0.119	1.18	77.6	0.206	
92	10/12/69	1.63	5589	0.118	1.44	73.9	0.149	
93	10/15/69	0.16	231.1	0.050	0.15	95.5	0.011	
94	10/19/69	0.44	833.4	0.065	0.41	89.3	0.037	
95	10/19/69	0.35	618.1	0.061	0.33	91.1	0.043	
96	10/21/69	0.02	0	0.000	0.02	n/a	0.000	
97	10/24/69	0.01	0	0.000	0.01	n/a	0.000	
98	10/30/69	0.32	532.9	0.057	0.30	91.7	0.016	
99	11/02/69	0.77	1698	0.076	0.71	83.4	0.024	
100	11/11/69	0.05	43.40	0.030	0.05	98.4	0.005	
101	11/11/69	0.04	35.14	0.030	0.04	98.7	0.009	
102	11/13/69	0.03	0	0.000	0.03	n/a	0.000	
103	11/17/69	0.15	228.1	0.052	0.14	95.8	0.037	
104	11/18/69	0.02	0	0.000	0.02	n/a	0.000	
105	11/19/69	0.01	0	0.000	0.01	n/a	0.000	
106	11/26/69	0.07	72.27	0.036	0.07	97.8	0.012	
107	12/07/69	-	-	-	-	-	-	
108	12/11/69	-	-	-	-	-	-	
109	12/16/69	-	-	-	-	-	-	
110	12/21/69	-	-	-	-	-	-	
111	12/23/69	-	-	-	-	-	-	
112	12/24/69	-	-	-	-	-	-	
113	12/24/69	-	-	-	-	-	-	
114	12/27/69	-	-	-	-	-	-	
115	12/28/69	-	-	-	-	-	-	
116	12/31/69	-	-	-	-	-	-	
Minimum:		0.00	0	0.000	0.01	73.1	0.000	
Maximum:		1.96	8833	0.155	1.66	98.7	2.234	
Average:		0.26	704.4	0.037	0.24	80.8	0.464	
Total:		30.28	81712		27.53			

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonWI\BMP\WinSLAMM\Final\CedarCreekBMP.mdb									
Rain File: WisReg - Milwaukee WI 1969.RAN									
Date: 01-23-24 Time: 6:33:28 PM									
Site Description: Cedar Creek BMP Site									
Runoff Volume Total (cf) at the Outfall									
Rain Number	Start Date	Rain Total (in)	Outfall Total (cf)	Rv	Total Losses (in.)	Calculated CN*	Event Peak Flow (cfs)		
* Note: NRCS does not recommend using CN method for rains < 0.5 in.									
See 'PreDevelopment Areas and CN' Help for more info.									

Rain File: WisReg - Milwaukee WI 1969.RAN

Date: 01-23-24 Time: 6:33:28 PM

Site Description: Cedar Creek BMP Site

Outfall - Pollutant Concentrations							
Rain Number	Start Date	Rain Tota	Filterable Solids (mg/L)	Total Solids (mg/L)	Particulate Phosphorus (mg/L)	Filterable Phosphorus (mg/L)	Total Phosphorus (mg/L)
1	01/05/69	-	-	-	-	-	-
2	01/06/69	-	-	-	-	-	-
3	01/08/69	-	-	-	-	-	-
4	01/15/69	-	-	-	-	-	-
5	01/17/69	-	-	-	-	-	-
6	01/23/69	-	-	-	-	-	-
7	01/24/69	-	-	-	-	-	-
8	01/28/69	-	-	-	-	-	-
9	01/29/69	-	-	-	-	-	-
10	02/06/69	-	-	-	-	-	-
11	02/06/69	-	-	-	-	-	-
12	02/22/69	-	-	-	-	-	-
13	03/06/69	-	-	-	-	-	-
14	03/20/69	0.18	38.02	973.5	0.3935	0.07483	0.4684
15	03/20/69	0.04	38.22	346.0	0.1572	0.07537	0.2325
16	03/21/69	0.08	37.98	556.9	0.1999	0.07465	0.2745
17	03/24/69	0.64	39.53	284.0	0.1155	0.08247	0.1980
18	03/28/69	0.08	37.98	370.7	0.1284	0.07465	0.2030
19	04/01/69	0.29	38.53	306.9	0.1156	0.07746	0.1931
20	04/04/69	0.43	39.12	190.8	0.06702	0.08039	0.1474
21	04/08/69	0.71	39.72	140.8	0.04952	0.08342	0.1329
22	04/14/69	0.52	39.28	131.7	0.04320	0.08121	0.1244
23	04/16/69	0.10	38.02	152.8	0.04533	0.07485	0.1202
24	04/16/69	1.26	38.53	90.34	0.02483	0.08232	0.1071
25	04/21/69	0.04	38.22	76.73	0.02026	0.07537	0.09563
26	04/27/69	0.01	0	0	0	0	0
27	04/28/69	0.06	38.08	100.8	0.02792	0.07496	0.1029
28	05/01/69	0.01	0	0	0	0	0
29	05/05/69	0.18	38.02	170.0	0.05911	0.07483	0.1339
30	05/06/69	0.02	0	0	0	0	0
31	05/06/69	0.06	38.08	95.22	0.02571	0.07496	0.1007
32	05/08/69	0.26	38.37	131.7	0.04246	0.07664	0.1191
33	05/08/69	0.22	38.15	127.6	0.04044	0.07549	0.1159
34	05/10/69	0.02	0	0	0	0	0
35	05/13/69	0.18	38.02	134.1	0.04270	0.07483	0.1175
36	05/17/69	1.33	39.49	77.87	0.01949	0.08505	0.1045
37	05/20/69	0.03	0	0	0	0	0
38	05/21/69	0.55	39.33	89.16	0.02412	0.08146	0.1056

39	05/24/69	0.06	38.08	80.72	0.01894	0.07496	0.09390
40	05/26/69	0.01	0	0	0	0	0
41	05/31/69	0.12	38.05	124.2	0.03467	0.07498	0.1096
42	06/01/69	0.04	38.22	69.39	0.01648	0.07537	0.09185
43	06/02/69	0.05	38.15	77.28	0.01862	0.07515	0.09377
44	06/03/69	0.02	0	0	0	0	0
45	06/04/69	0.40	39.05	97.74	0.02691	0.08009	0.1070
46	06/06/69	0.09	38.00	97.27	0.02402	0.07475	0.09877
47	06/07/69	0.83	39.95	82.79	0.02222	0.08464	0.1069
48	06/11/69	0.07	38.02	82.17	0.01866	0.07478	0.09344
49	06/11/69	0.03	32.57	69.80	0.02272	0.04813	0.07085
50	06/12/69	0.01	0	0	0	0	0
51	06/12/69	0.24	38.26	109.0	0.03171	0.07607	0.1078
52	06/17/69	0.36	38.88	111.6	0.03265	0.07923	0.1119
53	06/18/69	0.16	38.03	105.9	0.02905	0.07488	0.1039
54	06/19/69	0.09	38.00	86.39	0.01948	0.07475	0.09423
55	06/21/69	0.02	0	0	0	0	0
56	06/22/69	0.36	38.88	88.11	0.02220	0.07923	0.1014
57	06/22/69	0.05	38.15	64.99	0.01268	0.07515	0.08783
58	06/25/69	1.68	34.29	66.98	0.01322	0.07451	0.08774
59	06/27/69	0.68	34.34	99.54	0.02642	0.06984	0.09626
60	06/29/69	0.70	34.60	78.91	0.01826	0.07061	0.08887
61	06/29/69	1.96	35.14	60.24	0.01025	0.08124	0.09150
62	06/30/69	0.01	0	0	0	0	0
63	07/02/69	0.31	38.64	70.69	0.01448	0.07798	0.09246
64	07/04/69	0.04	38.22	52.38	0.007514	0.07537	0.08288
65	07/10/69	0.47	37.18	90.21	0.02288	0.07585	0.09873
66	07/11/69	0.07	38.02	67.11	0.01220	0.07478	0.08698
67	07/16/69	0.52	35.96	94.45	0.02445	0.07304	0.09749
68	07/17/69	0.85	33.97	78.12	0.01781	0.06966	0.08747
69	07/17/69	1.44	32.80	64.61	0.01247	0.06824	0.08071
70	07/18/69	0.01	0	0	0	0	0
71	07/23/69	0.11	38.04	82.50	0.01735	0.07493	0.09227
72	07/26/69	1.37	32.21	94.26	0.02318	0.06651	0.08969
73	07/27/69	1.38	37.14	55.47	0.008739	0.07922	0.08796
74	07/31/69	0.04	38.22	53.75	0.008183	0.07537	0.08355
75	08/04/69	0.03	0	0	0	0	0
76	08/07/69	0.10	38.02	91.61	0.02087	0.07485	0.09572
77	08/09/69	0.08	37.98	81.52	0.01739	0.07465	0.09203
78	08/16/69	0.32	38.69	115.3	0.03370	0.07824	0.1119
79	09/04/69	0.36	38.88	124.0	0.03869	0.07923	0.1179
80	09/05/69	0.74	33.52	161.4	0.05017	0.06814	0.1183
81	09/14/69	0.01	0	0	0	0	0
82	09/15/69	0.03	32.57	69.80	0.02272	0.04813	0.07085
83	09/16/69	0.03	0	0	0	0	0
84	09/23/69	0.16	38.03	158.9	0.05291	0.07488	0.1278
85	09/25/69	0.01	0	0	0	0	0
86	09/29/69	0.84	33.77	129.2	0.03784	0.06913	0.1070
87	10/06/69	0.01	0	0	0	0	0

Data File: C:\Users\carltonsm\OneDrive - CDM Smith\Desktop\JacksonW\BMP\WinSLAMM\Final\CedarC							
88	10/06/69	0.01	0	0	0	0	0
89	10/09/69	0.05	38.15	94.34	0.02715	0.07515	0.1023
90	10/10/69	0.14	38.04	145.6	0.04585	0.07493	0.1208
91	10/10/69	1.34	33.85	85.13	0.02051	0.07064	0.09115
92	10/12/69	1.63	35.13	71.46	0.01520	0.07581	0.09101
93	10/15/69	0.16	38.03	119.0	0.03505	0.07488	0.1099
94	10/19/69	0.44	39.14	90.86	0.02413	0.08049	0.1046
95	10/19/69	0.35	38.84	90.74	0.02370	0.07898	0.1027
96	10/21/69	0.02	0	0	0	0	0
97	10/24/69	0.01	0	0	0	0	0
98	10/30/69	0.32	38.69	112.9	0.03362	0.07824	0.1119
99	11/02/69	0.77	39.87	88.68	0.02501	0.08421	0.1092
100	11/11/69	0.05	38.15	81.25	0.02053	0.07515	0.09568
101	11/11/69	0.04	38.22	70.99	0.01732	0.07537	0.09269
102	11/13/69	0.03	0	0	0	0	0
103	11/17/69	0.15	38.03	137.9	0.04275	0.07490	0.1177
104	11/18/69	0.02	0	0	0	0	0
105	11/19/69	0.01	0	0	0	0	0
106	11/26/69	0.07	38.02	105.8	0.02917	0.07478	0.1039
107	12/07/69	-	-	-	-	-	-
108	12/11/69	-	-	-	-	-	-
109	12/16/69	-	-	-	-	-	-
110	12/21/69	-	-	-	-	-	-
111	12/23/69	-	-	-	-	-	-
112	12/24/69	-	-	-	-	-	-
113	12/24/69	-	-	-	-	-	-
114	12/27/69	-	-	-	-	-	-
115	12/28/69	-	-	-	-	-	-
116	12/31/69	-	-	-	-	-	-
Summary for Runoff Producing Events							
	Rain Total (in.)	Filterable Solids (mg/L)	Total Solids (mg/L)	Particulate Phosphorus (mg/L)	Filterable Phosphorus (mg/L)	Total Phosphorus (mg/L)	
Minimum:		0.00	0	0	0	0	0
Maximum:		1.96	39.95	973.5	0.3935	0.08505	0.4684
Fl Wt Ave:		N/A	35.91	95.89	0.02577	0.07574	0.1015

Appendix E

Infiltration Testing



Department of Commerce
Division of Safety and Buildings

SOIL EVALUATION - STORM

in accordance with Comm 82.365 & 85, Wis. Adm. Code

#5163

Page 1 of 3

Eric Schmitz Corporation

Attach complete site plan on paper not less than 8 1/2 x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and BM referenced to nearest road.

Please print all information.

Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04 (1) (m)).

County	Washington
Parcel I.D.	V3 0204 & V3 0198
Reviewed By	Date

Property Owner Village Of Jackson	Property Location Govt. Lot SE1/4, NE1/4, S20, T10N, R20E			
Property Owner's Mailing Address N168 W19851 Main Street	Lot # Block # Subd. Name or CSM# 9.73 & 23.44 Acre Parcels			
City Jackson	State WI	Zip Code 53037	Phone Number (414) 333-9696	☐ City ☒ Village ☐ Town Nearest Road See Drawing
Drainage area _____ sq. ft. _____ acres Optional: Test Site Suitable for (check all that apply) ☐ Irrigation ☐ Bioretention trench ☐ Trench(es) ☐ Rain garden ☐ Grassed swale ☐ Reuse ☐ Infiltration trench ☐ SDS (> 15' wide) ☐ Other _____	Hydraulic Application Test Method: ☒ Morphological Evaluation ☐ Double-Ring Infiltrometer ☐ Other (specify) _____			

1	Obs. #	☐ Boring ☒ Pit	Ground surface elev. _____ ft.	Depth to limiting factor _____ 0 in.	Hydraulic App. Rate				
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Inches/Hr
A-1	0-36	10YR3/2	fill material	sil	2fsbk	mvfr	as	0	0.8
		mixturing of:		sicl	1mabk	mfr	-	-	0.3
				sl	1fsbk	mfr	-	-	0.7
A b	36-46	10YR3/1	f-1-f 7.5YR5/8	sil	2fgr	mvfr	as	0	0.8
BC	46-56	10YR5/2	c-2-d 7.5YR5/8	ls & gr	0 s.g.	ml	cw	5%	1.6
C	56-96	10YR5/1	m-2-p 7.5YR5/8	sicl	1fpl	mfr	-	0	0.2
		layering of:		- 10YR6/2	vfsl	1fpl	mfr	-	0.6

2	Obs. #	☐ Boring ☒ Pit	Ground surface elev. _____ ft.	Depth to limiting factor _____ 0 in.	Hydraulic App. Rate				
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Inches/Hr
A-1	0-60	10YR3/2	fill material	sil	2fsbk	mvfr	as	0	0.8
		mixturing of:		sicl	1mabk	mfr	-	-	0.3
				ls	0 s.g.	ml	-	-	1.6
A b	60-66	10YR3/1	f-1-f 7.5YR5/8	sil	2fgr	mvfr	as	0	0.8
C	66-96	10YR5/2	m-2-p 7.5YR5/8	ls & gr	0 s.g.	ml	cw	5%	1.6
		mixturing of:		- 10YR6/2	sicl	1fsbk	mfr	0	0.3
	high	groundwater	observed at 66"						

CST/PSS Name (Please Print) Eric M. Schmitz	Signature: 	CST/PSS Number 222021
Address Eric Schmitz Corporation 2334 Stonebridge Circle Unit A West Bend, WI 53095	Date Evaluation Conducted 10/2/2023	Telephone Number 262-338-6994

NOTE: PAGE 2 OF 3 IS ATTACHED LOCATION MAP, PAGE 3 OF 3 IS ATTACHED DETAIL SOIL INFO

Name : VILLAGE OF JACKSON, WASHINGTON COUNTY, WI

Location : V3 0204 NW 1/4-SE 1/4 OF SECTION 20-TION, R20E
V3 0198 W 1/2-NE 1/4 OF SECTION 20 TION, R20E

10-2-23
Erin Schmitz

Soil Boring # 1

Horizon	Depth inches	Dominant Color Munsell	Mottles Quantity, Size, Contrast	Texture	Structure Grade, Size, Shape	Consistence	Boundary	Roots	Estimated Infiltration Rate Minutes per inch	Comments :
A-1	0-36	10YR ³ /2	FILL MATERIAL	S.L	2f sbk	mtr	as	3vt	10-20	
			MIXTURING OF :	S.LL	1 mabk	mtr	-	-	100-120	
				SL	1f sbk	mtr	-	-	10-20	
A _b	36-46	10YR ³ /1	f-l-f 7.5YR ⁵ /8	S.L	2f gr	mtr	as	3vt	10-20	
BC	46-56	10YR ⁵ /2	c-2-d 7.5YR ⁵ /8 -10YR ⁶ /2	LS:gr	O s.g	ml	cw	-	5-10	
						OBSERVED	HIGH GROUND			WATER AT TRANSITION
C	56-96	10YR ⁵ /1	m-2-p 7.5YR ⁵ /8	S.LL	1 fpl	mtr	-	-	>180	LOW HYDRAULIC CONDUCTIVITY
										VERY STICKY, PLASTIC & SMEARY
										LAYERING OF :
				VfSL	1 fpl	mtr	-	-	30-40	
										5B6 5/1 GLEYED DISCOLORATION
										5YR 4/6 RUST DISCOLORATION

Soil Boring # 2

Horizon	Depth inches	Dominant Color Munsell	Mottles Quantity, Size, Contrast	Texture	Structure Grade, Size, Shape	Consistence	Boundary	Roots	Estimated Infiltration Rate Minutes per inch	Comments :
A-1	0-60	10YR ³ /2	FILL MATERIAL	S.L	2f sbk	mtr	as	3vt	10-20	
			MIXTURING OF :	S.LL	1 mabk	mtr	-	-	100-120	
				LS	O s.g.	ml	-	-	5-10	
A _b	60-66	10YR ³ /1	f-l-f 7.5YR ⁵ /8	S.L	2f gr	mtr	-	-	10-20	
						OBSERVED	HIGH GROUND			WATER AT 66"
C	66-96	10YR ⁵ /2	m-2-p 7.5YR ⁵ /8	LS:gr	O s.g	ml	-	-	5-10	
			MIXTURING OF :		5-10% gr					
				S.LL	1f sbk	mtr	-	-	>180	LOW HYDRAULIC CONDUCTIVITY
										VERY STICKY, PLASTIC & SMEARY
										5B6 5/1 GLEYED DISCOLORATION
										5YR 4/6 RUST DISCOLORATION

Step C.3. Infiltration Rate Determination.

The purpose of this step is to determine a design infiltration rate (Infiltration Options 1 – 3).

Use Infiltration Options below to determine the design infiltration rate. Examples calculate the *static infiltration rate*.

Note that *soil compaction mitigation* reduces the soil density and promotes infiltration.

Infiltration Option 1 – Infiltration Rate Not Measured, Soil Compaction Mitigated

Using information from soil test pits, select the design static infiltration rate from Table 2 based on soil texture of the least permeable soil horizon within 5 feet below the native soil interface. See Example 1.

Table 2 Design Static Infiltration Rates for Soil Textures Receiving Storm Water ¹	
Soil Texture	Design Static Infiltration Rate Without Measurement (Inches/Hour) ²
Coarse sand or coarser	3.60
Loamy coarse sand	3.60
Sand	3.60
Loamy sand	1.63
Sandy loam, fine sand, very fine sand, and loamy fine sand	0.50
Loam	0.24
Silt loam	0.13
Sandy clay loam	0.11
Clay loam	0.03
Silty clay loam	0.04 ³
Sandy clay	0.04
Silty clay	0.07
Clay	0.07

Note 1: These infiltration rates are not to be used to request exemption from infiltration requirements.

Note 2: Infiltration rates represent the lowest value for each textural class presented in Table 2 of Rawls, 1998.

Note 3: Infiltration rate is an average based on Rawls, 1982 and Clapp & Hornberger, 1978.

Table 2 assumes separation from the native soil interface to a limiting layer such that mounding of water will not reach the native soil interface. A regulatory authority may require a mounding analysis when concerned that mounding may impair the function of the device or have an adverse impact to property. See Considerations section for more information.

Where adverse soil structure is present, such as moderate to strong platy soil structure, compacted or cemented soil horizons, or massive soil conditions with high bulk density reduce the design static infiltration rates per judgment of an individual meeting the Qualifications.

Appendix F

Wetland Report

WETLAND AND SURFACE WATER DELINEATION REPORT

**Cedar Run Park
Stormwater Best Management
Practices Facilities
Jackson, Wisconsin**

VILLAGE OF JACKSON

N168 W19851 MAIN STREET
JACKSON, WI 53037

Date: May 10, 2023



Table of Contents

SECTION 1.0 INTRODUCTION	1
1.1 Project Information	1
1.2 Site Description	1
SECTION 2.0 METHODOLOGY	2
1.3 Desktop Evaluation	2
1.4 Field Investigation	2
2.1.1 Wetland and Surface Water Delineation	2
2.1.2 Hydrophytic Vegetation	3
2.1.3 Hydric Soils	4
2.1.4 Wetland Hydrology	4
2.1.5 Ordinary High Water Mark	4
2.1.6 Antecedent Precipitation	5
SECTION 3.0 RESULTS	6
1.5 Desktop Investigation	6
3.1.1 Topography	6
3.1.2 Antecedent Precipitation	6
3.1.3 Soil Survey	7
3.1.4 Federal Emergency Management Agency Floodplains	7
3.1.5 National Wetlands Inventory	7
3.1.6 Wisconsin Wetland Inventory	8
3.1.7 Watershed Boundary Dataset and National Hydrography Dataset	8
1.6 Field Investigation	9
3.1.8 Wetlands	9
3.1.9 Surface Waters	12
3.1.10 Other Features	13
3.1.11 Summary	14
SECTION 4.0 REGULATORY INFORMATION	16
1.7 U.S. Army Corps of Engineers	16
1.8 Wisconsin Department of Natural Resources	16
SECTION 5.0 CONCLUSIONS	18
SECTION 6.0 REFERENCES	19

Appendices

Appendix A: Figures

Appendix B: Data Forms

Appendix C: Photos

List of Figures

- Figure 1: Topographic Map
- Figure 2: Project Location Map
- Figure 3: Contours Map
- Figure 4: Soil Survey Map
- Figure 5: FEMA Floodplain Map
- Figure 6: National Wetlands Inventory Map
- Figure 7: Wisconsin Wetlands Inventory Map
- Figure 8: National Hydrography Dataset Map
- Figure 9: Wetland And Surface Water Location Map

List of Tables

Table 3-1: Antecedent Precipitation Evaluation 6

Table 3-2: Mapped Soils within the Survey Limits 7

Table 3-3: National Wetlands Inventory Wetlands within the Survey Limits 8

Table 3-4: Wisconsin Wetland Inventory Wetlands within the Survey Limits..... 8

Table 3-5: Wetland and Surface Water Investigation Summary 15

Section 1.0 Introduction

1.1 Project Information

The Village of Jackson (Village) is currently evaluating suitable locations for the installation of stormwater best management practices (BMP) near the Hickory Lane bridge crossing of Cedar Creek. This project is part of a larger effort to develop a community-wide stormwater master plan for the Village. Areas are being investigated along Cedar Creek and are primarily located in Cedar Run Park, which is located on both sides of Hickory Lane, south of the intersection with Eagle Drive. A topographic map (**Figure 1**) and project location map (**Figure 2**) depict the project location and survey limits used for the delineation.

CDM Smith, Inc. (CDM Smith) has been tasked with identifying the location of wetlands and other water resources within the survey limits. The wetland delineation was conducted on April 27, 2023, by Kevin Walsh of CDM Smith. This document details the wetland and water resources investigation that has been conducted. Section 2.0 details the methodology that was used. Section 3.0 details the results of the desktop and field investigations. Section 4.0 briefly discusses regulatory considerations. Section 5.0 summarizes the conclusions. **Appendix A** includes figures; **Appendix B** includes data forms from the field investigation; and **Appendix C** includes photographs.

1.2 Site Description

Location Information:

Jackson, WI Quadrangle

Section 20, Township 10E, Range 20E

Village of Jackson, Washington County, Wisconsin

Latitude: 43.316079° Longitude: -88.150485°

The survey limits are located within Cedar Run Park (Tax Parcel ID: V3-0198 and V3-0204) and an undeveloped portion of a private property parcel (Tax Parcel ID: V3-CONDO0744752) that is located south of the park. Cedar Run Park is a primarily forested riparian area owned and managed by the Village. Cedar Creek bisects the park within the survey limits. Park amenities in this area include walking trails, picnic tables, and open greenspace. The portion of the private parcel included in the survey limits is undeveloped and includes surrounding forested areas.

Section 2.0 Methodology

The following outlines the methodology used to conduct the wetland and surface water delineation. A desktop evaluation of existing public resources and field investigation was conducted.

1.3 Desktop Evaluation

CDM Smith conducted a desktop evaluation to identify potential wetlands and surface waters near the survey limits. The following resources were reviewed:

- U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) (USFWS 2021)
- U.S. Geological Survey (USGS) National Hydrography Dataset (NHD) (USGS 2021a)
- USGS Watershed Boundary Dataset (WBD) (USGS 2021b)
- Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL, FEMA 2021)
- Multi-Resolution Land Characteristics Consortium (MRLC) National Land Cover Database 2019 (NLCD 2019) (MLRC 2021)
- U.S. Department of Agriculture (USDA)-Natural Resource Conservation Service (NRCS) Soils Survey Geologic Database (SSURGO) (USDA-NRCS 2021a) and Hydric Soils List (USDA-NRCS 2021b)
- USGS 7.5-minute topographic quadrangle maps (USGS The National Map 2023)
- Wisconsin DNR Wetland Inventory (WWI)
- Wisconsin DNR Water Surface Data Viewer (WSDV)
- 1-foot topographic data from Washington County, Wisconsin
- Precipitation data
- Current aerial imagery

1.4 Field Investigation

2.1.1 Wetland and Surface Water Delineation

Following the background desktop review and preliminary site evaluation, CDM Smith staff conducted a field investigation to identify wetlands and surface waters within the survey limits.

The United States Army Corps of Engineers (USACE) (Federal Register 1982) and the U.S. Environmental Protection Agency (USEPA) (Federal Register 190) jointly define wetlands as: *“Those areas that are inundated or saturated by surface or ground water at a frequency and*

duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

The wetland delineation was conducted in accordance with the 1987 U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual (USACE 1987) and the 2010 Regional Supplement to Corps of Engineers Wetland Delineation Manual: North Central Northeast (NCNE) Region, Version 2.0 (USACE 2010). The 2020 National Wetland Plant List was referenced for wetland indicator status for the region of the plant species encountered during the wetland delineation (USACE 2020). Basis for hydric soil determination referenced Field Indicators of Hydric Soils (USDA-NRCS 2018).

During the determination, ordinary high water marks (OHWM) and wetland boundaries were recorded with a survey-grade handheld global positioning system (GPS) unit with sub-meter accuracy. Data from sampling points was recorded using a NCNE USACE data form and each location was documented with the GPS unit. Sampling points from both upland and wetland sampling points were collected as necessary to determine the extent of wetland boundaries. The presence or absence of all three wetland indicators found within the NCNE region were evaluated at each sampling point. The three indicators of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology. These are further described below.

2.1.2 Hydrophytic Vegetation

Hydrophytic plant communities are found where soils are either permanently or intermittently saturated. These plants are adapted to tolerate prolonged inundation during the growing season and are evaluated as a group rather than as individuals. Species across tree, shrub, sapling, herbaceous, and woody vine strata are inventoried and recorded at each data point, after which a determination of indicator status for each species is performed. Plant indicator statuses were assessed at the proposed detention basin parcel utilizing the USACE National Wetland Plant List (NWPL) for the NCNE Region and are defined as follows (NWPL, 2020):

- Obligate Wetland (OBL) – almost always occur in wetlands.
- Facultative Wetland (FACW) – Usually occur in wetlands but may also occur in non-wetlands.
- Facultative (FAC) – Occurs in wetlands and non-wetlands.
- Facultative Upland (FACU)- Usually occur in non-wetlands but may occur in wetlands.
- Upland (UPL) – almost never occurs in wetlands.

Plant communities across the sampling plots in the proposed detention basin parcel were evaluated utilizing the dominance test and prevalence test. The dominance test measures whether a plant community is hydrophytic by determining if more than 50% of dominant species in a plot are FAC, FACW, or OBL or if any individual species comprising more than 20% of the site holds the same indicator status. Prevalence indexes are measured by absolute cover of species.

These results are described in detail on the wetland determination data forms included in **Appendix B**.

2.1.3 Hydric Soils

Soils that experience repeated saturation, ponding, or flooding over a long enough period that anaerobic conditions develop are considered hydric. These conditions occur when oxygen is depleted in the upper layers of the soils, which can result in slower breakdowns of organic materials and reductions, accumulations, or transfer of iron and other elements in the soil (USDA, 2018). In hydric soils, these visible morphological features are present in both wet and dry seasons.

Soils were evaluated at each sampling point within the survey limits. Soils were sampled via shovel to depths of at least 18" unless a restrictive soil layer was present that limits the investigation at greater depth. Hue, value, and chroma of the soil, redox concentrations and depletions were assessed and recorded utilizing Munsell Soil Charts. The texture of each soil layer was noted. These results are described in detail on the wetland determination data forms included in **Appendix B**.

2.1.4 Wetland Hydrology

Wetland hydrology is broadly defined as all the hydrologic (water over and underground) features of sites that have either permanently or temporarily saturated soils. The frequency and duration of saturation is dependent of a variety of factors including vegetative composition, topography, soil characteristics and permeability, underlying geology and sediment strata. Typically, areas with lower elevations and convex profiles hold water longer, but this can be altered by the density and composition of the plant community and the permeability of the soils. For non-tidal sites, the hydrologic zones are divided into classifications based on the duration of saturation during the growing season (USACE, 1987).

To determine if a site exhibits wetland hydrology, at least one primary or two secondary indicators must be present. Any hydrology indicators that were identified during the field investigation were documented on wetland determination data forms, which are included in **Appendix B**.

2.1.5 Ordinary High Water Mark

The USACE defines an OHWM as,

“that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of surrounding areas.”

The Wisconsin DNR defines the OHWM as, “The point on the bank or shore up to which the water, by its presence, wave action or flow, leaves a distinct mark on the shore or bank.”

Surface waters and other aquatic resources may not have all three wetland criteria present during field investigations. Therefore, the OHWM has been used to define the boundary of any surface waters that were investigated. Some characteristics of OHWMs can be identified during

low streamflow or drought conditions. However, during periods of high streamflow and flood conditions, OHWM characteristics can be difficult to identify. Therefore, normal streamflow conditions are ideal for determining the OHWM. The following characteristics are considered when determining the OHWM:

Scour	Sediment sorting
Deposition	Water staining
Shelving	Changes in character of soil
Destruction of terrestrial vegetation	Natural line impressed on the bank
Presence of litter and debris	Observed flow events
Wracking	Bed and banks
Vegetation matted down, bent or absent	Leaf litter disturbed or washed away
Change in plant community	

2.1.6 Antecedent Precipitation

Antecedent precipitation conditions were considered as part of wetland delineation to support decisions as to whether field data collection and other site-specific observations occurred under normal climatic conditions. USACE and USDA NRCS methods as outlined in “Assessing and Using Meteorological Data to Evaluate Wetland Hydrology” were used to evaluate antecedent precipitation (USACE, 2000).

Monthly climatic data from at least 20 years was retrieved from the closest weather station via the USDA NRCS Agricultural Applied Climate Information System (AgACIS). This long-term precipitation data was used to identify historical dry, normal, and wet conditions within the survey limits. The prior three-month precipitation data from the date of the field investigation was then compared to historic conditions to evaluate whether normal conditions are present.

Section 3.0 Results

1.5 Desktop Investigation

3.1.1 Topography

The countywide 1-foot contour data was reviewed, and the contours are depicted on **Figure 3**. The topography within the survey limits is depressional to the surrounding developed residential areas to the north and south. On the north side of Cedar Creek, the topography is relatively flat and gradually slopes down towards the creek. On the south side of Cedar Creek, the downward slope towards the creek is more apparent, particularly east of Hickory Lane.

3.1.2 Antecedent Precipitation

Historic climatic data was retrieved from the Jackson, WI weather station (Station ID: 473930). A WETS table was developed via the AgACIS that lists 2002 to 2023 monthly precipitation data to define the normal range. Monthly precipitation is considered in the normal range when there is a 30% chance there will be “less than” or “more than” the average. Conditions were retrieved for each of the three prior months from the date of the field investigation on April 26, 2023. Wet conditions are given a value of 3, normal conditions are given a value of 2, and dry conditions are given a value of 1. These values are then weighted based on their recency to the field investigation and are summed to calculate the total value. A total value of less than 10 is considered “drier than normal conditions”, a score of 10 to 14 is considered “normal conditions”, and a score of greater than 14 is considered “wetter than normal conditions”. **Table 3-1** summarizes the monthly precipitation data that was gathered and the antecedent precipitation evaluation.

Table 3-1: Antecedent Precipitation Evaluation

Long-term Precipitation Statistics from WETS Table						
Month (Monthly Weighted Value)	Average Monthly Precipitation (in.)	30% Chance Precipitation Less Than (in.)	30% Chance Precipitation More Than (in.)	Observed Monthly Precipitation (in.)	Wetness Condition (Value)	Product of Value and Monthly Weighted Value
February (1)	1.75	1.08	2.12	3.16	Wet (3)	3
March (2)	2.23	1.32	2.71	2.67	Normal (2)	4
April (3)	3.54	2.41	4.23	3.96	Normal (2)	6
Total Value:						13
Overall Condition:						Normal

The results of the antecedent precipitation evaluation indicate that normal conditions were present and hydrological/climatic conditions were typical at the time of the site visit.

3.1.3 Soil Survey

The USDA-NRCS Soil Survey Geographic Database (SSURGO) was queried to identify mapped soils within the survey limits (USDA-NRCS 2021a). Mapped soils were referenced to the hydric soils list for Washington County to evaluate their potential for supporting wetlands (USDA-NRCS 2021b). Hydric indicators vary by region and are classified by land resource regions (LRRs) and/or major land resource regions (MLRAs). The project area soils reviewed in this report fall within the LRR “L,” MLRA 95 – Eastern Wisconsin, Northern Illinois, and Upper Michigan Drift Plain.

Five soil map units compose the entirety of the survey limits. These include Colwood silt loam, 0 to 2 percent slopes (Cw), Hochheim loam, 2 to 6 percent slopes (HmC2), Montgomery silty clay loam (Mzb), and wet alluvial land (Ww), and water (W). **Table 3-2** describes each soil type identified within the survey limits. **Figure 4** depicts soils within the survey limits.

Table 3-2: Mapped Soils within the Survey Limits

Soil Map Unit	Slope	Hydric Rating	Hydric/Non-Hydric	Acres within Survey Limits
Colwood silt loam (Cw)	0 to 2 percent slopes	100	Hydric	8.1
Hochheim loam (HmC2)	2 to 6 percent slopes	0	Non-Hydric	0.4
Montgomery silty clay loam (Mzb)	-	95	Hydric	0.1
Wet alluvial land (Ww)	-	100	Hydric	0.7
Water (W)	-	0	Non-Hydric	1.9

3.1.4 Federal Emergency Management Agency Floodplains

FEMA’s NFHL was reviewed to identify floodways and special flood hazard areas (SFHA) within the survey limits and are shown on **Figure 5**. The NFHL depicts SFHAs and floodways located throughout the United States and can aid in the identification of areas where potential wetlands occur. The following is depicted within the survey limits:

- Zone AE regulatory floodway
- Zone AE SFHA (1% annual chance flood hazard, without base flood elevation)
- Zone X (Areas of minimal flood hazard)

The Zone AE regulatory floodway and SHFA are associated with Cedar Creek within the survey limits.

3.1.5 National Wetlands Inventory

The USFWS NWI maps were reviewed to identify potential wetlands within the survey limits and are shown on **Figure 6**. The NWI maps depicts wetlands and deepwater habitats throughout the

United States, which are categorized using the Cowardin System, as developed in the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin, 1979). **Table 3-3** summarizes the NWI wetlands within survey limits.

Table 3-3: National Wetlands Inventory Wetlands within the Survey Limits

Type	Quantity within Survey Limits	Cowardin Code	Cowardin Description
Riverine	1	R5UBH	Riverine (R), Unknown Perennial (5), Unconsolidated Bottom (UB), Permanently Flooded (H)
Freshwater forested/shrub wetland	2	PF01C	Palustrine (P), Forested (FO), Broad-Leaved Deciduous (1), Seasonally Flooded (C)
Freshwater forested/shrub wetland	1	PF01/EM1C	Palustrine (P), Forested (FO), Broad-Leaved Deciduous (1), Emergent (EM), Persistent (1), Seasonally Flooded (C)

3.1.6 Wisconsin Wetland Inventory

The WDNR's WWI were reviewed to identify potential wetlands within the survey limits and are shown on **Figure 7**. The WWI maps were developed to identify the type, size, and location of wetlands throughout Wisconsin. **Table 3-4** summarizes the WWI wetlands within the survey limits.

Table 3-4: Wisconsin Wetland Inventory Wetlands within the Survey Limits

Wetland Code	Quantity within Survey Limits	Wetland Class Description	Wetland Sub Class Description
T3K	2	Forested	Broad-leaved deciduous
T3/E2K	1	Forested and Emergent/Wet Meadow	Broad-leaved deciduous, narrow-leaved persistent

3.1.7 Watershed Boundary Dataset and National Hydrography Dataset

The survey limits are located within the Jackson Marsh State Wildlife Area-Cedar Creek watershed (12-Digit Hydrologic Unit Code [HUC]: 040400030303), which is a subwatershed to the Milwaukee Basin (8-Digit HUC Code: 04040003).

The USGS NHD maps were reviewed and are shown on **Figure 8**. Two streams/rivers are located within the survey limits, and they include the perennial Cedar Creek and an intermittent unnamed tributary to Cedar Creek. The unnamed tributary flows into Cedar Creek approximately 100 feet west of the Hickory Lane bridge crossing over Cedar Creek.

1.6 Field Investigation

On April 26, 2023, a wetland delineation was performed within the survey limits as depicted on **Figure 9**. USACE NCNE Region data forms documenting the sampling points taken are included in **Appendix B** and a photographic log of the investigation is included in **Appendix C**. A total of four wetlands (Sites 1, 2, 3, and 4), two surface waters (Sites SW-1 and SW-2), and two roadway drainages features (DF-1 and DF-2) were identified within the survey limits. In addition, two areas (Sites 5 and 6) were investigated as potential wetlands but did not meet all three wetland indicators.

Sampling points were taken within and outside of each delineated wetland to document existing conditions and evaluate the boundary of the wetland. Sampling points were taken within each surface water to document existing conditions and the OHWM characteristics used to determine the boundary. The wetlands, surface waters, and other features identified within the survey limits are described below.

3.1.8 Wetlands

Site 1

Site 1 is a forested wetland located approximately 50 feet north of Cedar Creek and west of Hickory Lane. A total of 0.18 acre of wetland is located within the survey limits. Site 1 is within a depressional area and surface water was observed in multiple locations within Site 1. The boundaries of Site 1 extend outside of and to the west of the survey limits. Site 1 receives surface water from an existing open water pond to the northwest via a small channel that connects the two features outside of the survey limits. Two sampling points were taken within the wetland location (SP 1-1) and an adjacent upland location (SP 1-2). All three wetland criteria were identified within SP 1-1 and the following wetland indicators were observed:

- Wetland Hydrology
 - Primary Indicators: High Water Table (A2) and Saturation (A3)
 - Secondary Indicators: Geomorphic Position (D2) and FAC-Neutral Test (D5)
- Hydrophytic Vegetation Indicators: Dominance Test
- Hydric Soil Indicators: Depleted Dark Surface (F7)

Saturation was observed at the soil surface and a water table was noted at 2 inches below the surface at the wetland sampling location. Dominant vegetation observed throughout Site 1 included: box elder (*Acer negundo*), green ash (*Fraxinus pennsylvanica*), reed canary grass (*Phalaris arundinacea*), and wild gooseberry (*Ribes missouriense*).

The following mapped resources were identified within Site 1:

Source	Mapped Resources within Site 1
Soil Survey	Mzb (95% hydric), Cw (100% hydric), and Ww (100% hydric)

Source	Mapped Resources within Site 1
NHD	None
FEMA NFHL	Zone AE floodway
USFWS NWI	PFO1C and PFO1/EM1C wetlands
WDNR WWI	T3K and T3/E2K wetlands

Site 2

Site 2 is a forested wetland located approximately 150 feet north of Cedar Creek and immediately west of Hickory Lane. A total of 0.40 acre of wetland is located within the survey limits. Site 2 is a mostly flat area that slopes slightly to the south. Surface water was observed in multiple locations within Site 2. The boundaries of Site 2 extend outside of and to the north of the survey limits. Two sampling points were taken within the wetland location (SP 2-1) and an adjacent upland location (SP 2-2). All three wetland criteria were identified within SP 2-1 and the following wetland indicators were observed:

- Wetland Hydrology
 - Primary Indicators: Surface water (A1)
 - Secondary Indicators: Saturation Visible on Aerial Imagery (C9), Geomorphic Position (D2), and FAC-Neutral Test (D5)
- Hydrophytic Vegetation Indicators: Dominance Test
- Hydric Soil Indicators: 2 cm Muck (A10)

Approximately 2 inches of surface water was observed at the wetland sampling location. Dominant vegetation observed throughout Site 2 included: box elder, green ash, reed canary grass, orange jewelweed (*Impatiens capensis*), fowl manna grass (*Glyceria striata*), cursed crowfoot (*Ranunculus sceleratus*), and wild gooseberry.

The following mapped resources were identified within Site 2:

Source	Mapped Resources within Site 2
Soil Survey	Cw (100% hydric)
NHD	None
FEMA NFHL	Zone AE floodway
USFWS NWI	PFO1C wetland
WDNR WWI	T3K wetland

Site 3

Site 3 is a forested wetland located south of Cedar Creek and east of Hickory Lane. A total of 0.60 acre of wetland is located within the survey limits. Site 3 depressional area between Cedar Creek and a hillslope to the south. Surface water was observed in multiple locations within Site 3. The

boundaries of Site 3 extend outside of and to the east of the survey limits. Two sampling points were taken within the wetland location (SP 3-1) and an adjacent upland location (SP 3-2). All three wetland criteria were identified within SP 3-1 and the following wetland indicators were observed:

- Wetland Hydrology
 - Primary Indicators: Surface water (A1) and Inundation on Aerial Imagery (B7)
 - Secondary Indicators: Geomorphic Position (D2) and FAC-Neutral Test (D5)
- Hydrophytic Vegetation Indicators: Dominance Test
- Hydric Soil Indicators: 2 cm Muck (A10)

Approximately 1 inch of surface water was observed at the wetland sampling location. Dominant vegetation observed throughout Site 3 included: box elder, green ash, reed canary grass, orange jewelweed, cursed crowfoot, and wild gooseberry.

The following mapped resources were identified within Site 3:

Source	Mapped Resources within Site 3
Soil Survey	Cw (100% hydric)
NHD	None
FEMA NFHL	Zone AE SFHA
USFWS NWI	PFO1C wetland
WDNR WWI	T3K wetland

Site 4

Site 4 is a wet meadow and forested wetland located north of Cedar Creek and east of Hickory Lane. A total of 0.24 acre of wetland is located within the survey limits. Site 4 is a slightly depressional area that is mostly flat. Surface water was observed in multiple locations within Site 4. The boundaries of Site 4 extend outside of and to the east of the survey limits. Three sampling points were taken within the wetland location (SP 4-1, SP 4-2, and SP 4-3) and one sampling point was taken within an adjacent upland location (SP 4-4). All three wetland criteria were identified within the wetland sampling locations and the following wetland indicators were observed:

- Wetland Hydrology
 - Primary Indicators: High Water Table (A2) and Saturation (A3)
 - Secondary Indicators: Geomorphic Position (D2) and FAC-Neutral Test (D5)
- Hydrophytic Vegetation Indicators: Dominance Test and Rapid Test for Hydrophytic Vegetation
- Hydric Soil Indicators: Redox Dark Surface (F6)

Saturation was observed at the soil surface and a water table was noted at 4 inches below the surface at SP 4-1 and 10 inches below the surface at SP 4-2 and 4-3. Dominant vegetation observed throughout Site 4 included: box elder, reed canary grass, stinging nettle (*Urtica dioica*), and red osier dogwood (*Cornus sericea*).

The following mapped resources were identified within Site 4:

Source	Mapped Resources within Site 4
Soil Survey	Cw (100% hydric)
NHD	None
FEMA NFHL	Zone AE floodway
USFWS NWI	PFO1C wetland
WDNR WWI	T3K wetland

3.1.9 Surface Waters

Site SW-1: Cedar Creek

Site SW-1 is Cedar Creek, which crosses through the center of the survey limits. Site SW-1 is a perennial stream that flows east and is approximately 40 to 60 feet wide within the survey limits. A total of 0.73 acre of surface water is located within the survey limits. The following OHWM indicators were identified to determine the boundary of Site SW 1: shelving, destruction of terrestrial vegetation, sediment sorting, natural line impressed on the bank, and bed and banks. Surface water was observed as greater than 48 inches. Large banks were observed that were well vegetated and extended approximately 3 to 8 feet above the existing water level. Substrate within Site SW-1 primarily consisted of sand and silt with gravel, cobble and boulders present. Dominant vegetation on the banks primarily consisted of box elder, green ash, common buckthorn (*Rhamnus cathartica*), and reed canary grass.

The following mapped resources were identified within Site SW-1:

Source	Mapped Resources within Site SW-1
Soil Survey	Cw (100% hydric)
NHD	Perennial stream
FEMA NFHL	Zone AE floodway
USFWS NWI	PFO1C (2) and PFO1/EM1C wetlands
WDNR WWI	T3K (2) and T3/E2K wetlands

Site SW-2: Tributary to Cedar Creek

Site SW-2 is an unnamed tributary that flows north into Cedar Creek within the survey limits located west of Hickory Lane. Site SW-2 appears to be an intermittent stream that is approximately 10 to 15 feet wide within the survey limits. A total of 0.14 acre of surface water is located within the survey limits. The following OHWM characteristics were identified to

determine the boundary of Site SW 1: shelving, destruction of terrestrial vegetation, deposition, presence of litter and debris, sediment sorting, natural line impressed on the bank, and bed and banks. Surface water was observed between 2 and 18 inches within the survey limits. Large banks were observed that were well vegetated and extended approximately 2 to 8 feet above the existing water level. Substrate within Site SW-2 primarily consisted of sand, silt, gravel, and cobble. Dominant vegetation on the banks primarily consisted of box elder, green ash, common buckthorn (*Rhamnus cathartica*), and reed canary grass.

The following mapped resources were identified at the sampling location of Site SW-2:

Source	Mapped Resources within Site SW-2
Soil Survey	Cw (100% hydric)
NHD	Intermittent stream
FEMA NFHL	Zone AE floodway
USFWS NWI	PFO1C (2) and PFO1/EM1C wetlands
WDNR WWI	T3K (2) and T3/E2K wetlands

3.1.10 Other Features

Site 5

Site 5 is a forested upland area located north of Cedar Creek, east of Hickory Lane. A sampling point (SP 5-1) was taken because the area was dominated by scouring rush (*equisetum hymele*). The topography in this area slopes downward to the south towards Cedar Creek. Site 5 did not meet the wetland hydrology or hydric soil criteria and is not considered a wetland. Dominant vegetation observed throughout Site 4 included: box elder, green ash, and scouring rush.

The following mapped resources were identified within Site 5:

Source	Mapped Resources within Site 5
Soil Survey	Cw (100% hydric)
NHD	None
FEMA NFHL	Zone AE floodway
USFWS NWI	PFO1C wetland
WDNR WWI	T3K wetland

Site 6

Site 6 is an upland meadow located immediately north of Cedar Creek, west of Hickory Lane. A sampling point (SP 6-1) was taken because the area was dominated by reed canary grass. The topography is mostly flat. Site 6 did not meet wetland hydrology or hydric soil criteria and is not considered a wetland. Dominant vegetation observed throughout Site 4 included: box elder and reed canary grass.

The following mapped resources were identified at the sampling location of Site 6:

Source	Mapped Resources within Site 6
Soil Survey	Water (W)
NHD	None
FEMA NFHL	Zone AE floodway
USFWS NWI	PFO1/EM1C wetland
WDNR WWI	T3/E2K wetland

Drainage Feature 1 (DF-1)

Site DF-1 is a manmade roadway drainage feature located west of Hickory Lane and north of Cedar Creek. Site DF-1 receives stormwater from Hickory Lane and conveys it to the south into Cedar Creek. Portions of Site DF-1 is conveyed underground via culverts and stormwater piping. Site DF-1 is approximately 5 to 10 feet wide, and 0 to 6 inches surface water was observed throughout the site. The substrate consists of silt, sand, and gravel. Dominant vegetation present included: reed canary grass and box elder.

Drainage Feature 2 (DF-2)

Site DF-2 is a manmade roadway drainage feature located east of Hickory Lane and north of Cedar Creek. Site DF-2 receives stormwater from Hickory Lane and conveys it to the south into Cedar Creek. Portions of Site DF-2 is conveyed underground via culverts and stormwater piping. Site DF-2 is approximately 5 to 10 feet wide and up to 6 inches of surface water were observed throughout the site. The substrate consists of silt, sand, gravel, and pebbles. Dominant vegetation present included: reed canary grass, red osier dogwood, and box elder.

3.1.11 Summary

A total of four wetlands (Sites 1, 2, 3, and 4), two surface waters (Sites SW-1 and SW-2), and two roadway drainages features (DF-1 and DF-2) were identified within the survey limits. In addition, two areas (Sites 5 and 6) were investigated as potential wetlands but did not meet all three wetland indicators. **Table 3-5** summarizes the wetland and surface waters within the survey limits.

Surface water sites SW-1 and SW-2 will be considered USACE jurisdictional. Wetland Sites 1, 2, 3, and 4 are likely to be considered jurisdictional under the USACE. The manmade drainage feature sites (DF-1 and DF-2) are likely to be considered exempt from USACE jurisdiction. Note that CDM Smith's recommendations on jurisdictional status are based on experience and best professional judgement using the above guidance. The USACE and EPA make all official jurisdictional determinations.

Table 3-5: Wetland and Surface Water Investigation Summary

Site	Type	Latitude Longitude	NWI Classification	WDNR WWI Classification	Acres within Survey Limits	USACE jurisdictional?*
1	Forested wetland	43.315845N 88.151501W	PF01C/EM1C	T3K and T3/E2K	0.18	Likely
2	Forested wetland	43.316797N 88.15098W	PF01C	T3K	0.40	Likely
3	Forested wetland	43.315522N 88.150194W	PF01C	T3K	0.60	Likely
4	Forested wetland and wet meadow	43.316861N 88.149532W	PF01C	T3K	0.24	Likely
SW-1	Cedar Creek	43.316068N 88.150489W	PF01C/EM1C, R5UBH	T3K and T3/E2K	0.73	Yes
SW-2	Tributary to Cedar Creek	43.315687N 88.15084W	PF01C	T3K	0.14	Yes

*Based on best professional judgement. The USACE and EPA make all official jurisdictional determinations.

Section 4.0 Regulatory Information

1.7 U.S. Army Corps of Engineers

Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act (RHA) establish programs to regulate the discharge of dredged or fill material and other work in WOTUS, including wetlands and other special aquatic sites. These two federal laws are both administered by the USACE, with U.S. Environmental Protection Agency (EPA) oversight of the CWA.

Discharges of dredged or fill material may be permanent or temporary. Permanent discharges include those that will permanently affect a WOTUS by filling, flooding, excavation, or drainage. Permanent effects to WOTUS are considered a “loss of WOTUS” if the discharges change an aquatic area to dry land, increase the bottom elevation of a WOTUS, or change the use of a water body. In addition to losses of physical areas of WOTUS as a result of discharges, the USACE regulates the loss of functions or values of WOTUS in some circumstances when actual permanent discharges are not involved, such as clearing a forested wetland or changing the hydrology of a WOTUS upstream or downstream of a permitted activity.

Discharges of dredged or fill material and other work in WOTUS subject to regulation under Section 404 of the CWA or Section 10 of the RHA typically require permit authorization before it occurs unless the activity is exempt from regulation. Section 404 permits that are commonly issued by the USACE include Standard Individual Permits and General Permits (including Nationwide Permits [NWPs] and Regional General Permits).

The subject properties are within the USACE St. Paul District, and project activities likely fall under their regulatory jurisdiction. A jurisdictional determination request is required to determine the jurisdictional status of each wetland and surface water feature that may be affected by the proposed project.

1.8 Wisconsin Department of Natural Resources

Impacts to all wetlands and surface waters in the state of Wisconsin are protected by Chapter Department of Natural Resources (NR) 103 and Chapter NR 352 of the Wisconsin Administrative Code. These state statutes are administered by the WDNR. For projects that cannot avoid wetlands and involve the placement of material or excavation in wetlands, authorizations through exemptions or permits may be required. Exemptions are applicable in some cases where impacts cannot be avoided and will not have significant adverse impacts on wetland functions and values. The following activities within wetlands may require a WDNR exemption or permit:

- Filling - Placing dredged or fill materials into a wetland (e.g., soil, wood chips, gravel, etc.).
- Excavating - Removing material from a wetland.
- Grading - Conducting earthwork to change the grade or contours of the land.

- Mechanized Land Clearing - Clearing shrubs or trees from wetlands by bulldozing or grubbing, and removing the root structures.
- Other Activities - Placing structures, including but not limited to utility infrastructure, timber mats, sheds, soil or spoil piles, in a wetland resulting in temporary impacts.

WDNR have created wetland general permits to streamline the regulatory process for projects with minimal adverse environmental impact. To receive authorization, a project must meet all eligibility criteria of the general permit program. For activities that do not meet general permit criteria, an individual permit program is available.

Wetland boundary confirmation of wetland delineations are required through the WDNR prior to submitting a permit application. The WDNR can directly review wetland delineations, or this can be completed through the Wetland Delineation Professional Assurance Initiative. Wetland delineations completed or concurred by assured wetland delineators registered with the WDNR do not require concurrence from the WDNR and can help expedite the state permitting process.

Section 5.0 Conclusions

A total of four wetlands (Sites 1, 2, 3, and 4), two surface waters (Sites SW-1 and SW-2), and two roadway drainages features (DF-1 and DF-2) were identified within the survey limits. In addition, two areas (Sites 5 and 6) were investigated as potential wetlands but did not meet all three wetland indicators.

If impacts to wetlands or surface waters are anticipated or there is a potential to impact these features, coordination with the USACE and WDNR is required to determine the need for any required permits. Coordination with the USACE can be initiated through a jurisdictional determination request with the USACE St. Paul District. Coordination with the WDNR can be initiated by contacting the appropriate county office contact or beginning a permit application through the WDNR's ePermitting System. Prior to any WDNR permit application, the wetland boundary concurrence of this investigation must be completed either by the WDNR or through the Wetland Delineation Professional Assurance Initiative.

Section 6.0 References

Cowardin, L. M., V. Carter, F. C. Golet, and E. T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. 131pp.

Federal Emergency Management Agency (FEMA). 2021. National Flood Hazard Layer. Available at: <https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd>.

Federal Register. "40 CFR Part 230: Section 404(b) (1) Guidelines for Specification of Disposal Sites for Dredged or Fill Material," U.S. Government Printing Office, Washington, DC, 45(249), 85, 352-85, 353. 1980.

Federal Register. "Title 33: Navigation and Navigable Waters; Chapter 2. Regulatory Programs of the Corps of Engineers," U.S. Government Printing Office, Washington, DC, 47(138), 31, 810. 1982.

U.S. Army Corps of Engineers (USACE). 1987. Corps of Engineers Wetlands Delineation Manual. Environmental Laboratory, Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

USACE. 2000. Accessing and Using Meteorological Data to Evaluate Wetland Hydrology. Wetlands Regulatory Assistance Program. <https://apps.dtic.mil/sti/pdfs/ADA378910.pdf>. Accessed May 10, 2023.

USACE. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0). ERDC/EL TR-12-1. January 2012. <https://www.mvp.usace.army.mil/Portals/57/docs/regulatory/Website%20Organization/Northcentral%20and%20Northeast%20Regional%20Supplement.pdf>

USACE, St. Paul District. 2015. Special Public Notice: Guidance for Submittal of Delineation Reports to the St. Paul District Corps of Engineers and the Wisconsin Department of Natural Resources. <https://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/Wisconsin%20Special%20Public%20Notice%20-%202015.pdf>

USACE. 2020. National Wetland Plant List, version 3.5. Available at: https://wetland-plants.sec.usace.army.mil/nwpl_static/v34/home/home.html. Accessed: February 24, 2022.

U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS). 1998. Wetland Mapping Conventions; NRCS Illinois. Available online at <http://efotg.sc.egov.usda.gov/references/public/IL/MAPCON3.pdf>.

USDA NRCS. 2018. Field Indicators of Hydric Soils in the United States. Version 8.2. L.M. Vasilas, G.W. Hurt, and J.F. Berkowitz (eds.) USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

USDA NRCS. 2021. Web Soil Survey. Available at: <http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>. Accessed: October 27, 2021.

U.S. Environmental Protection Agency, 2023. Antecedent Precipitation Tool (APT), version 1.0.20. <https://www.epa.gov/wotus/antecedent-precipitation-tool-apt>

U.S. Fish and Wildlife Service. National Wetlands Inventory Wetlands Mapper. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. <http://www.fws.gov/wetlands/>

U.S. Geological Survey (USGS), 2013. The National Map viewer available on the World Wide Web. Available online at <https://viewer.nationalmap.gov/viewer/nhd.html?p=nhd>

USGS. 2021a. National Hydrography Dataset (NHD). Available at: <https://viewer.nationalmap.gov/basic/>. Accessed: October 27, 2021.

USGS. 2021b. Watershed Boundary Dataset (WBD). Available at: <https://viewer.nationalmap.gov/basic/>. Accessed: October 27, 2021.

Wilhelm, G. and Rericha, L. 2017. Flora of the Chicago Region: A Floristic and Ecological Synthesis. Indiana Academy of Science, Indianapolis, IN.

Wisconsin Department of Natural Resources. 2019. Wetland Screening and Delineation Procedures. Effective date: 10/21/2019. Waterways Bureau Program Guidance. [https://dnr.wisconsin.gov/sites/default/files/topic/Wetlands/2019 Wetland Screening and Delineation Procedures.pdf](https://dnr.wisconsin.gov/sites/default/files/topic/Wetlands/2019%20Wetland%20Screening%20and%20Delineation%20Procedures.pdf)

Appendix A

Figures

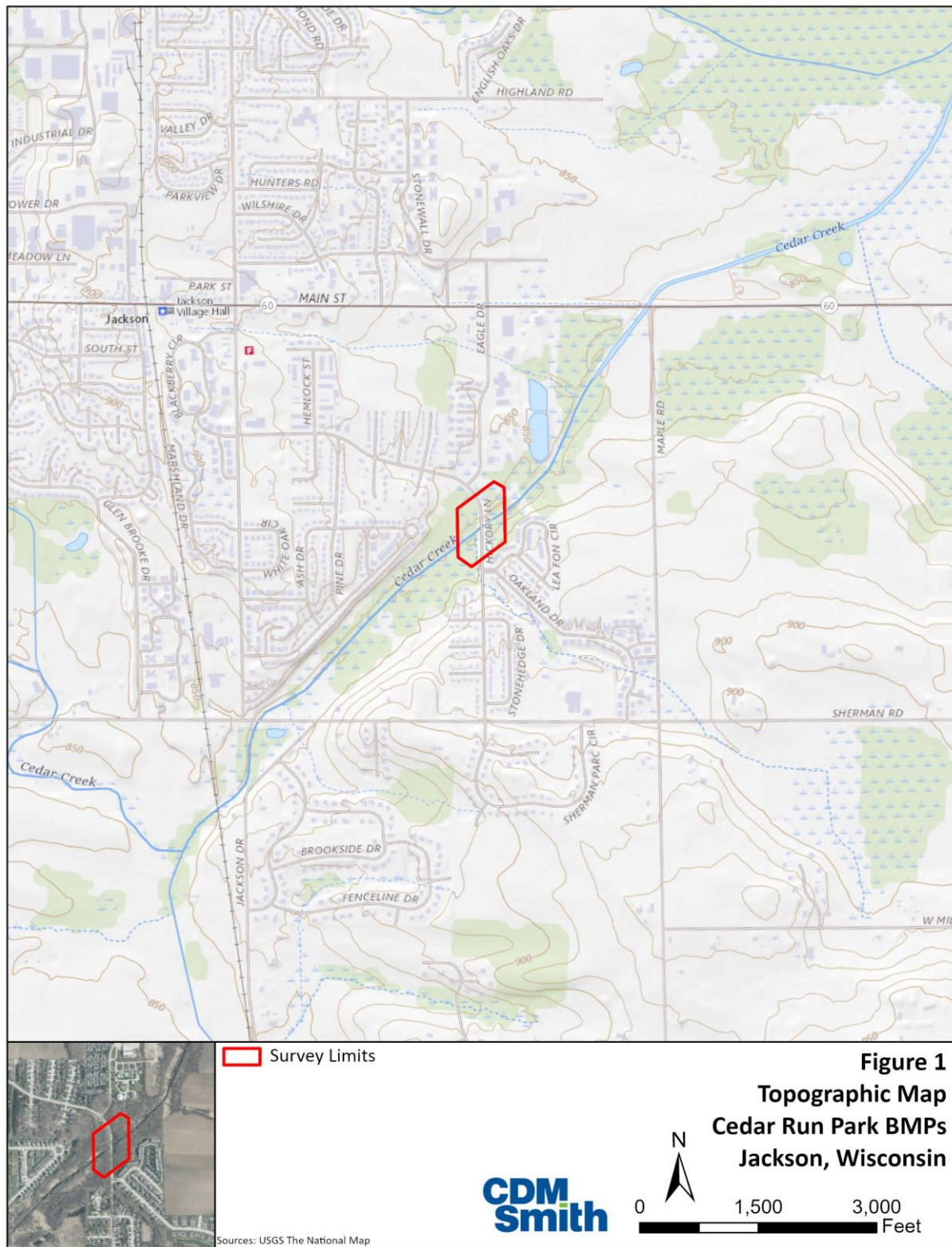


Figure 1: Topographic Map



Figure 2: Project Location Map

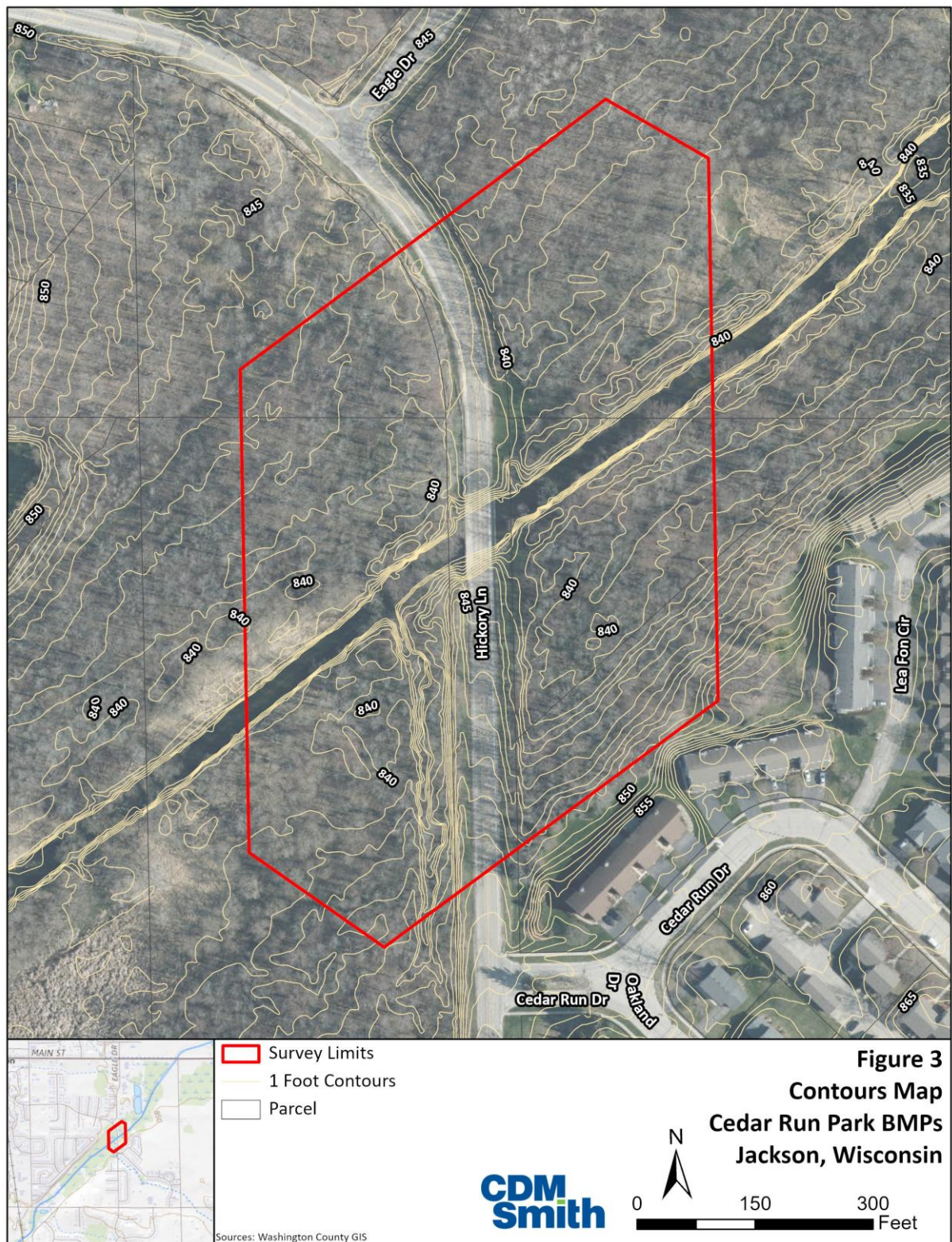


Figure 3: Contours Map

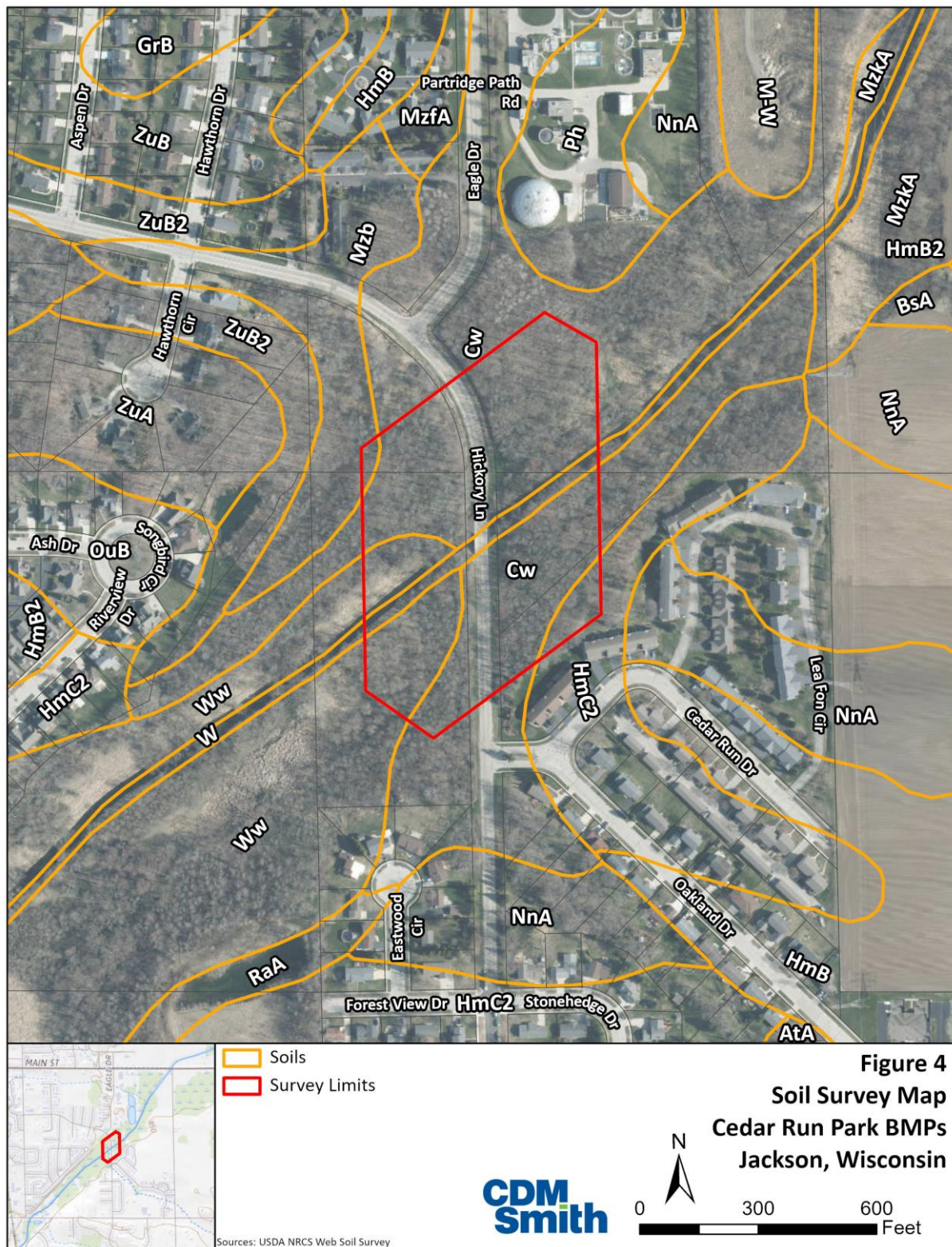


Figure 4: Soil Survey Map

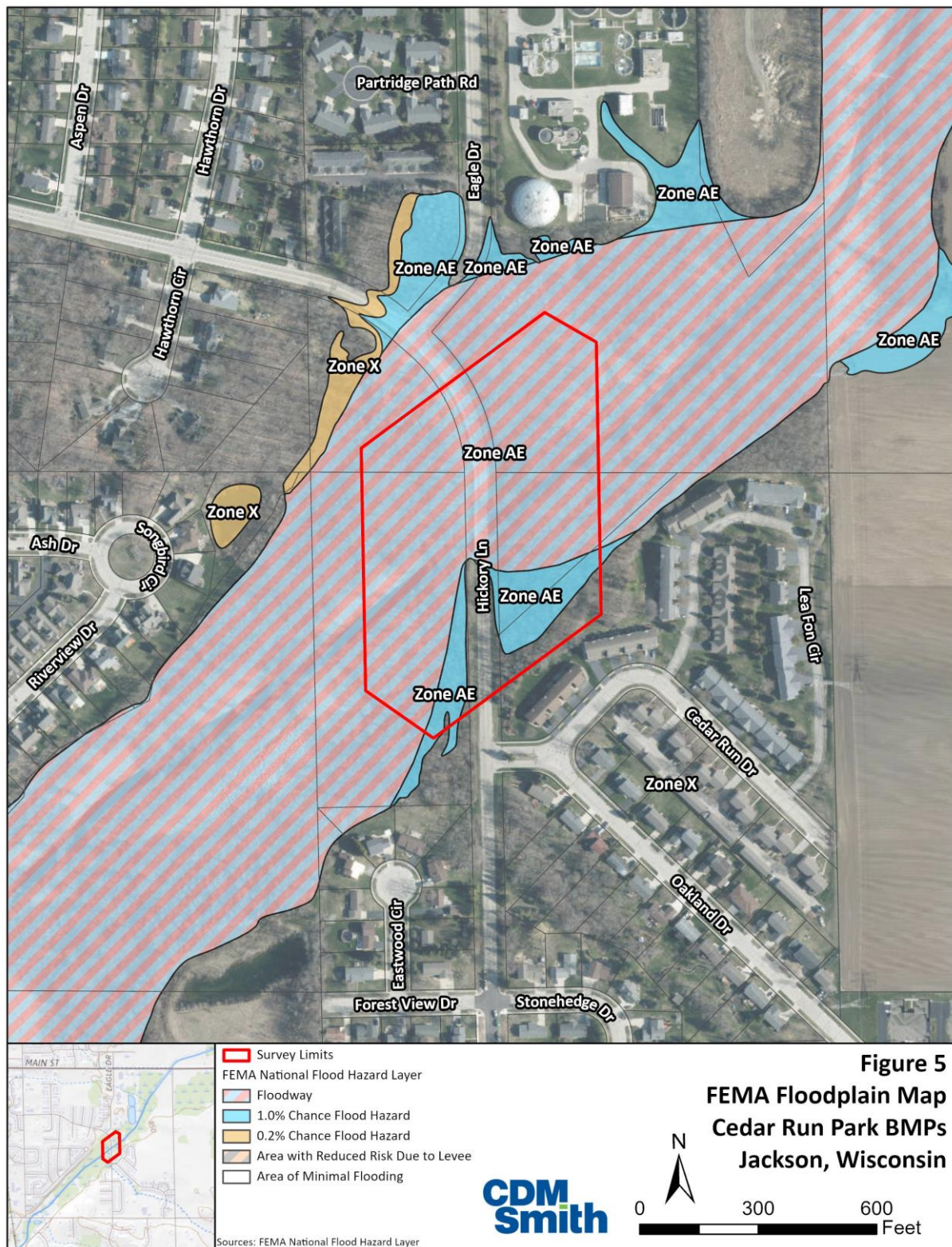


Figure 5: FEMA Floodplain Map



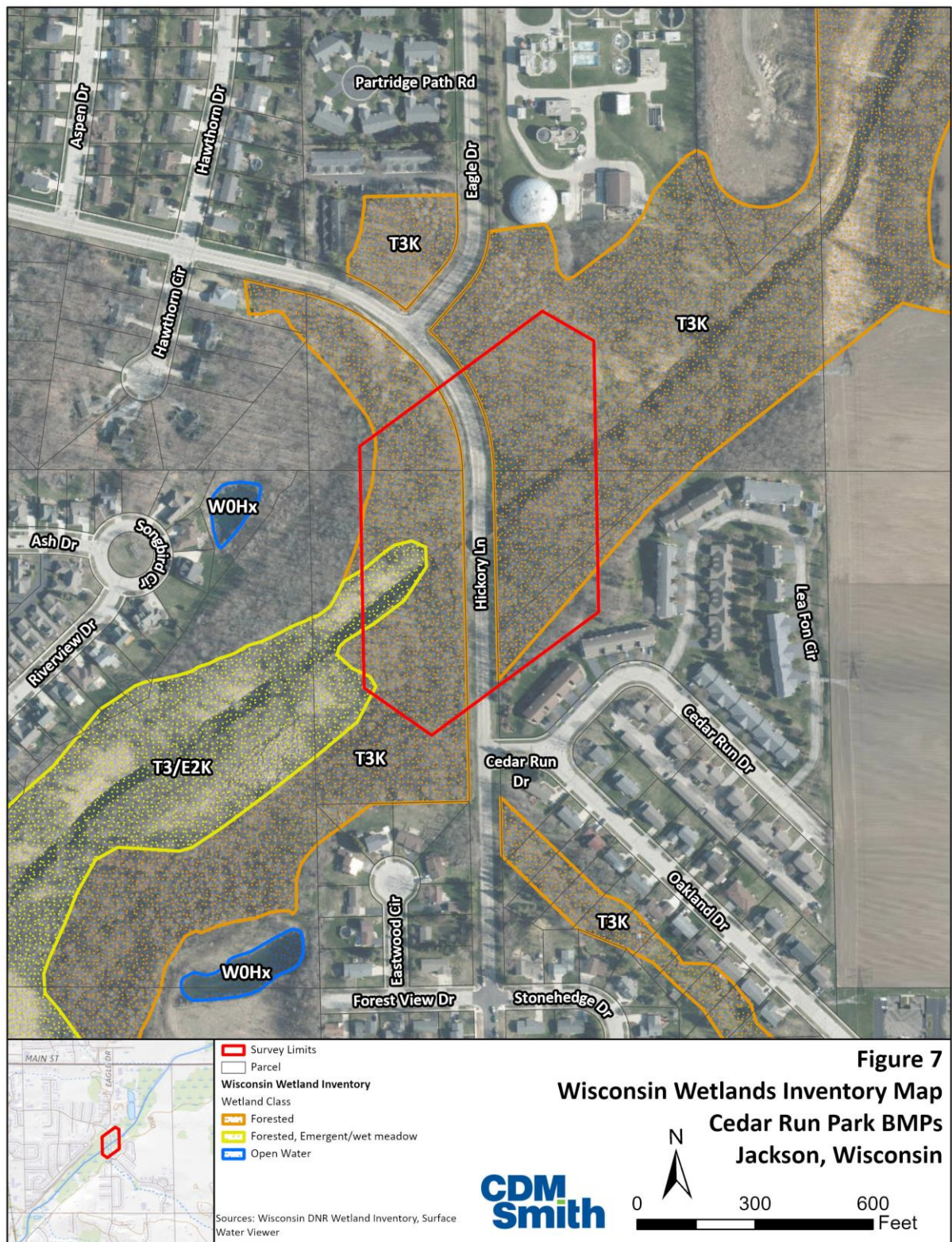


Figure 7: Wisconsin Wetlands Inventory Map

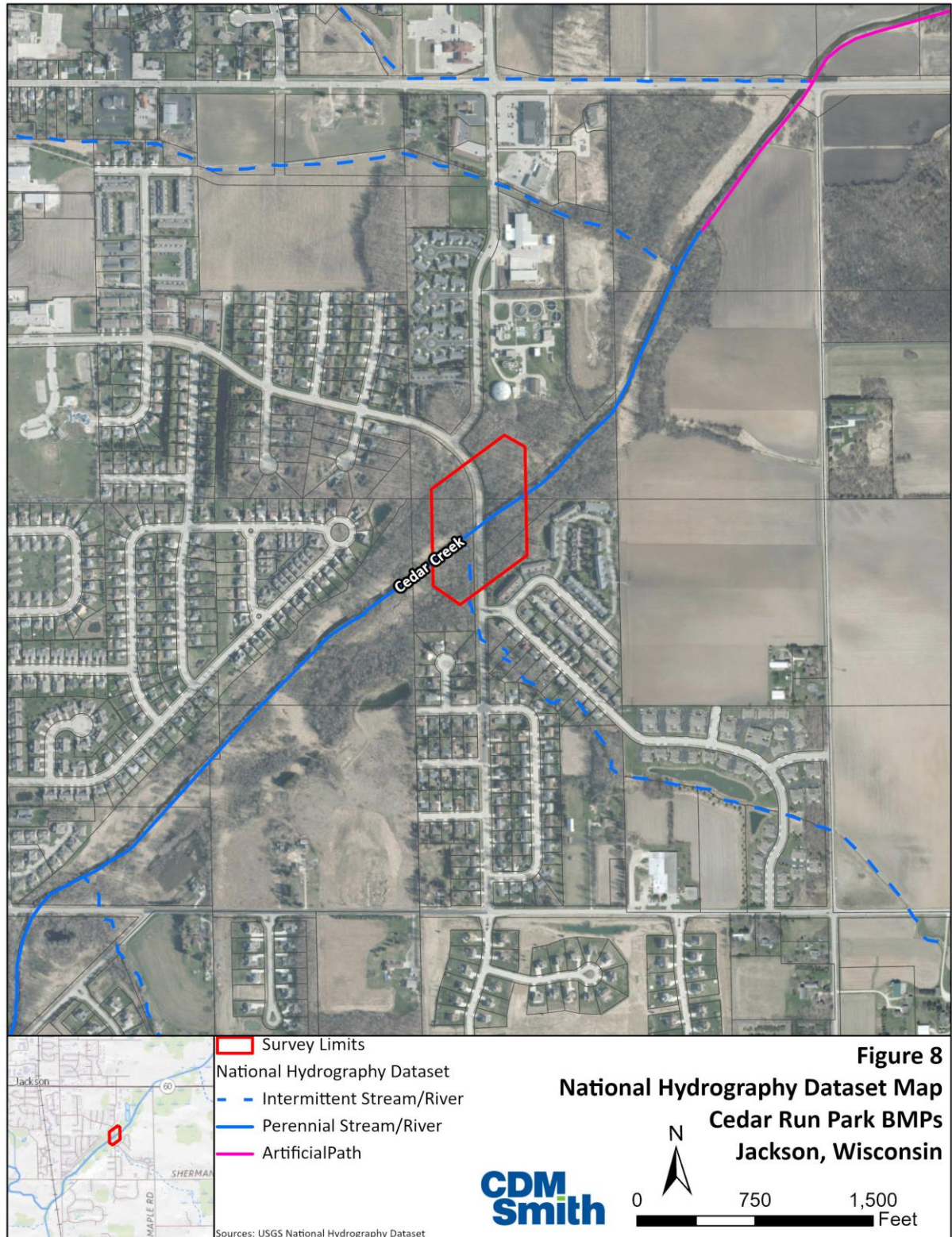


Figure 8: National Hydrography Dataset Map

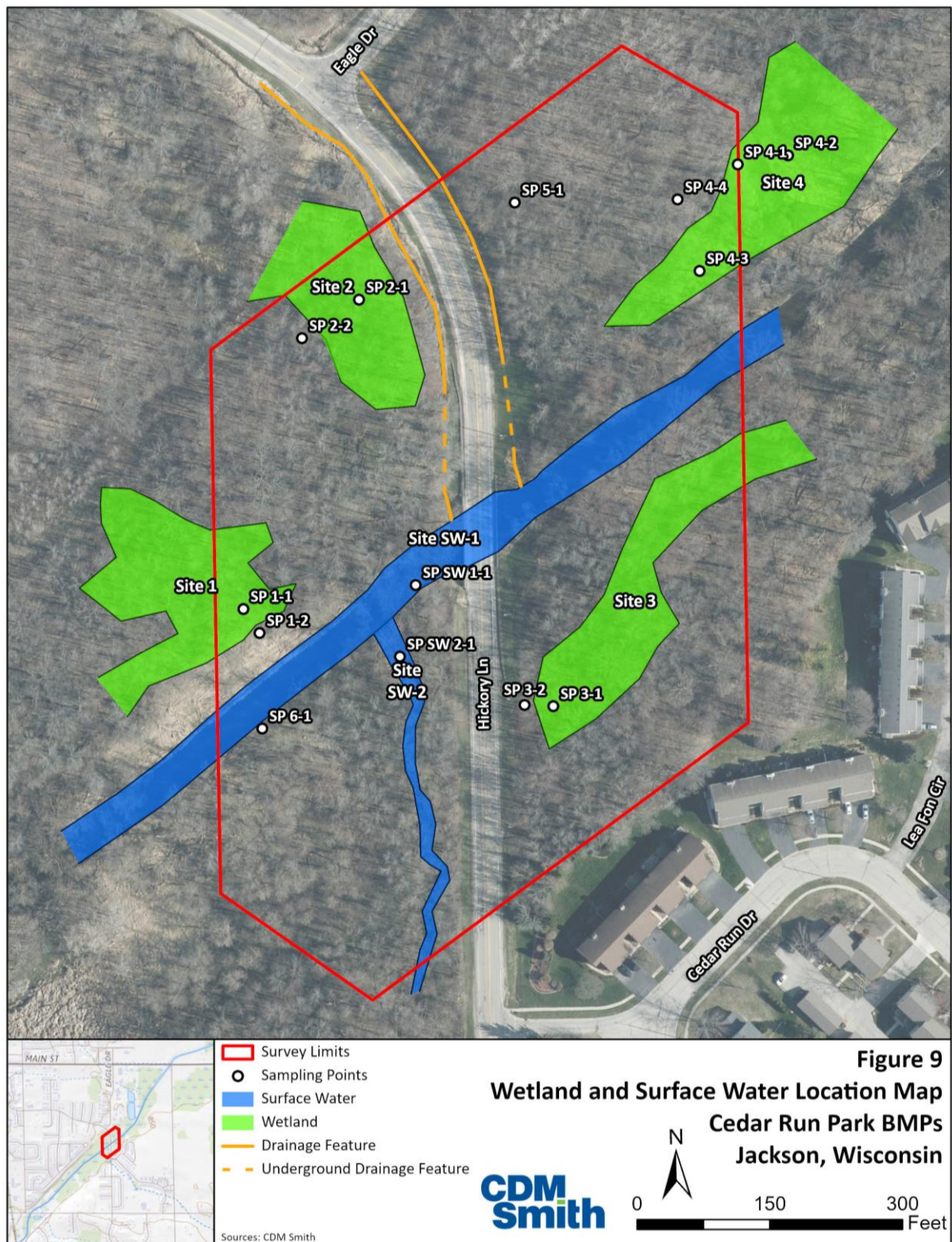


Figure 9: Wetland And Surface Water Location Map

Appendix B

Data Forms

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 1-1
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Flat area within depression Local relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR L Lat: 43.315845N Long: 88.151501W Datum: WGS 84
Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: PFO1/EM1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Site 1</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 1-1 was taken within Site 1, a forested wetland located north of Cedar Creek, west of Hickory Lane.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
---	---

Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>2</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 1-1

Tree Stratum (Plot size: <u>30 foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Acer negundo</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
2. <u>Ulmus americana</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>30</u>		<u>=Total Cover</u>		
Sapling/Shrub Stratum (Plot size: <u>15 foot radius</u>)				
1. <u>Acer negundo</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Fraxinus pennsylvanica</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Rhamnus cathartica</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>40</u>		<u>=Total Cover</u>		
Herb Stratum (Plot size: <u>5 foot radius</u>)				
1. <u>Phalaris arundinacea</u>	<u>70</u>	<u>Yes</u>	<u>FACW</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>
2. <u>Ribes missouriense</u>	<u>25</u>	<u>Yes</u>	<u>UPL</u>	
3. <u>Solidago sp.</u>	<u>5</u>	<u>No</u>	<u> </u>	
4. <u>Carex sp.</u>	<u>1</u>	<u>No</u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>101</u>		<u>=Total Cover</u>		
Woody Vine Stratum (Plot size: <u>30 foot radius</u>)				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u> </u>		<u>=Total Cover</u>		

Remarks: (Include photo numbers here or on a separate sheet.)
 The goldenrod (Solidago) and sedge (Carex) could not be identified to species level.

SOIL

Sampling Point: 1-1

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 1-2
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope %: 10
Subregion (LRR or MLRA): LRR L Lat: 43.315769N Long: 88.151433W Datum: WGS 84
Soil Map Unit Name: Wet Alluvial Land (Ww) NWI classification: PFO1/EM1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 1-2 is located upland and adjacent to wetland Site 1 and Cedar Creek to the south.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: 1-2

Tree Stratum (Plot size: <u>30 foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Crataegus mollis</u>	15	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____	(A) _____ (B) _____																			
Prevalence Index = B/A = _____																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	15	=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 foot radius</u>)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
		=Total Cover																		
Herb Stratum (Plot size: <u>10 foot radius</u>)																				
1. <u>Phalaris arundinacea</u>	80	Yes	FACW	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Urtica dioica</u>	20	Yes	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	100	=Total Cover																		
Woody Vine Stratum (Plot size: <u>30 foot radius</u>)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 1-2

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 2-1
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Mostly flat Local relief (concave, convex, none): None Slope %: 1
Subregion (LRR or MLRA): LRR L Lat: 43.316797N Long: 88.15098W Datum: WGS 84
Soil Map Unit Name: Colwood silt loam (Cw) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Site 2</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 2-1 was taken within Site 2, which is forested wetland located north of Cedar Creek, west of Hickory Lane.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <u>X</u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u>X</u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
--	--

Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>2</u> Water Table Present? Yes <u>NA</u> No <u> </u> Depth (inches): <u> </u> Saturation Present? Yes <u>NA</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Sampling Point: 2-1

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2-1

[illegible]

VEGETATION – Use scientific names of plants.

 Sampling Point: 2-2

Tree Stratum (Plot size: <u>30 foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Ulmus rubra</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
2. <u>Quercus alba</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Acer negundo</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>45</u>		<u>=Total Cover</u>		
Sapling/Shrub Stratum (Plot size: <u>15 foot radius</u>)				
1. <u>Acer negundo</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Rhamnus cathartica</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Ribes missouriense</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>40</u>		<u>=Total Cover</u>		
Herb Stratum (Plot size: <u>10 foot radius</u>)				
1. <u>Erythronium albidum</u>	<u>50</u>	<u>Yes</u>	<u>FACU</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>
2. <u>Hydrophyllum virginianum</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Geum canadense</u>	<u>15</u>	<u>No</u>	<u>FAC</u>	
4. <u>Ribes missouriense</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>100</u>		<u>=Total Cover</u>		
Woody Vine Stratum (Plot size: <u>30 foot radius</u>)				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u> </u>		<u>=Total Cover</u>		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2-2

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 3-1
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Flat in depressional area Local relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR L Lat: 43.315522N Long: 88.150194W Datum: WGS 84
Soil Map Unit Name: Colwood silt loam (Cw) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Site 3</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 3-1 is located within Site 3, which is a forested wetland located south of Cedar Creek, east of Hickory Lane.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <u>X</u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u>X</u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
---	---

Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>1</u> Water Table Present? Yes <u>NA</u> No <u> </u> Depth (inches): <u> </u> Saturation Present? Yes <u>NA</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

 Sampling Point: 3-1

Tree Stratum (Plot size: <u>30 foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Fraxinus pennsylvanica</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____	(A) _____ (B) _____																			
Prevalence Index = B/A = _____																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>20</u>	<u>=Total Cover</u>																		
Sapling/Shrub Stratum (Plot size: <u>15 foot radius</u>)																				
1. <u>Acer negundo</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Fraxinus pennsylvanica</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u>Crataegus mollis</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>30</u>	<u>=Total Cover</u>																		
Herb Stratum (Plot size: <u>10 foot radius</u>)																				
1. <u>Phalaris arundinacea</u>	<u>75</u>	<u>Yes</u>	<u>FACW</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. <u>Impatiens capensis</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u>Ranunculus sceleratus</u>	<u>5</u>	<u>No</u>	<u>OBL</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>100</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: <u>30 foot radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	_____	<u>=Total Cover</u>																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 3-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-1	10YR 3/2	100					Mucky Loam/Clay	
1-5	10YR 3/2	45	10YR 6/4	45	C	M	Loamy/Clayey	Distinct redox concentrations
			10YR 6/8	10	C	M		Prominent redox concentrations
5-12	10YR 3/2	50	10YR 6/4	30	C	M	Loamy/Clayey	Distinct redox concentrations
			10YR 6/8	10	C	M		Prominent redox concentrations
			2.5YR 4/4	10	C	M		Prominent redox concentrations
12-18	10YR 3/2	60	10YR 6/4	15	C	M		Distinct redox concentrations
			10YR 6/8	5	C	M		Prominent redox concentrations
			2.5YR 4/4	20	C	M		Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Dark Surface (S7)
☐ Histic Epipedon (A2)	☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
☐ Black Histic (A3)	☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)
☐ Hydrogen Sulfide (A4)	☐ High Chroma Sands (S11) (LRR K, L)
☐ Stratified Layers (A5)	☐ Loamy Mucky Mineral (F1) (LRR K, L)
☐ Depleted Below Dark Surface (A11)	☐ Loamy Gleyed Matrix (F2)
☐ Thick Dark Surface (A12)	☐ Depleted Matrix (F3)
☐ Mesic Spodic (A17)	☒ Redox Dark Surface (F6)
(MLRA 144A, 145, 149B)	☐ Depleted Dark Surface (F7)
☐ Sandy Mucky Mineral (S1)	☐ Redox Depressions (F8)
☐ Sandy Gleyed Matrix (S4)	☐ Marl (F10) (LRR K, L)
☐ Sandy Redox (S5)	☐ Red Parent Material (F21) (MLRA 145)
☐ Stripped Matrix (S6)	

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
☐ Coast Prairie Redox (A16) (LRR K, L, R)
☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
☐ Polyvalue Below Surface (S8) (LRR K, L)
☐ Thin Dark Surface (S9) (LRR K, L)
☐ Iron-Manganese Masses (F12) (LRR K, L, R)
☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
☐ Red Parent Material (F21) (outside MLRA 145)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 3-2
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope %: 20
Subregion (LRR or MLRA): LRR L Lat: 43.315527N Long: 88.150315W Datum: WGS 84
Soil Map Unit Name: Colwood silt loam (Cw) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 3-2 is located upland and adjacent to Site 3. The sampling point was taken along the enbankment of Hickory Lane.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

 Sampling Point: 3-2

Tree Stratum (Plot size: <u>30 foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Acer saccharinum</u>	30	Yes	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
2. <u>Fraxinus pennsylvanica</u>	5	No	FACW	
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
	35	=Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 foot radius</u>)				
1. <u>Rhamnus cathartica</u>	30	Yes	FAC	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Acer negundo</u>	20	Yes	FAC	
3. <u>Fraxinus pennsylvanica</u>	5	No	FACW	
4. <u> </u>				
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
	55	=Total Cover		
Herb Stratum (Plot size: <u>10 foot radius</u>)				
1. <u>Ribes missouriense</u>	20	Yes	UPL	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>
2. <u>Erythronium albidum</u>	15	Yes	FACU	
3. <u>Urtica dioica</u>	15	Yes	FAC	
4. <u>Rosa multiflora</u>	10	No	FACU	
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
11. <u> </u>				
12. <u> </u>				
	60	=Total Cover		
Woody Vine Stratum (Plot size: <u>30 foot radius</u>)				
1. <u> </u>				
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
			=Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 3-2

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 4-1
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Mostly flat Local relief (concave, convex, none): Concave Slope %: 1
Subregion (LRR or MLRA): LRR L Lat: 43.317189N Long: 88.149359W Datum: WGS 84
Soil Map Unit Name: Colwood silt loam (Cw) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 4-1 was taken within Site 4, which is a wet meadow and forested wetland located north of Cedar Creek, east of Hickory Lane. The surrounding area slopes slightly downward towards this sampling point location.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>4</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: 4-1

Tree Stratum (Plot size: <u>30 foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer negundo</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>70</u></td> <td>x 2 = <u>140</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals: <u>110</u> (A)</td> <td><u>270</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.45</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>70</u>	x 2 = <u>140</u>	FAC species <u>35</u>	x 3 = <u>105</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>5</u>	x 5 = <u>25</u>	Column Totals: <u>110</u> (A)	<u>270</u> (B)	Prevalence Index = B/A = <u>2.45</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>70</u>	x 2 = <u>140</u>																			
FAC species <u>35</u>	x 3 = <u>105</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>5</u>	x 5 = <u>25</u>																			
Column Totals: <u>110</u> (A)	<u>270</u> (B)																			
Prevalence Index = B/A = <u>2.45</u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>15</u>	<u>=Total Cover</u>																		
Sapling/Shrub Stratum (Plot size: <u>15 foot radius</u>)																				
1. <u>Acer negundo</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>15</u>	<u>=Total Cover</u>																		
Herb Stratum (Plot size: <u>10 foot radius</u>)																				
1. <u>Phalaris arundinacea</u>	<u>70</u>	<u>Yes</u>	<u>FACW</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. <u>Urtica dioica</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
3. <u>Ribes missouriense</u>	<u>5</u>	<u>No</u>	<u>UPL</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>80</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: <u>30 foot radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	_____	<u>=Total Cover</u>																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 4-1

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 4-2
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Mostly flat Local relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR L Lat: 43.317214N Long: 88.149146W Datum: WGS 84
Soil Map Unit Name: Colwood silt loam (Cw) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Site 4</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 4-2 was taken within Site 4, which is a wet meadow and forested wetland located north of Cedar Creek, east of Hickory Lane. The surrounding area slopes slightly downward towards the north and west.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>10</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>10</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

 Sampling Point: 4-2

Tree Stratum (Plot size: <u>30 foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ =Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
_____ =Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15 foot radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ =Total Cover				Hydrophytic Vegetation Indicators: ☒ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% ☐ 3 - Prevalence Index is ≤3.0 ¹ ☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
_____ =Total Cover																				
Herb Stratum (Plot size: <u>10 foot radius</u>)																				
1. <i>Phalaris arundinacea</i>	100	Yes	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
100 =Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
_____ =Total Cover																				
Woody Vine Stratum (Plot size: <u>30 foot radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ =Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 4-2

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 4-3
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR L Lat: 43.316861N Long: 88.149532W Datum: WGS 84
Soil Map Unit Name: Colwood silt loam (Cw) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Site 4</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 4-3 was taken within Site 4, which is a wet meadow and forested wetland located north of Cedar Creek, east of Hickory Lane. The surrounding area slopes slightly downward to the north.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
---	--

Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>10</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>8</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

 Sampling Point: 4-3

Tree Stratum (Plot size: <u>30 foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ =Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
_____ =Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15 foot radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ =Total Cover				Hydrophytic Vegetation Indicators: ☒ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% ☐ 3 - Prevalence Index is ≤3.0 ¹ ☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
_____ =Total Cover																				
Herb Stratum (Plot size: <u>10 foot radius</u>)																				
1. <i>Phalaris arundinacea</i>	100	Yes	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
_____ =Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
_____ =Total Cover																				
Woody Vine Stratum (Plot size: <u>30 foot radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ =Total Cover																				
_____ =Total Cover				Hydrophytic Vegetation Present? Yes ☒ No _____																

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 4-3

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 4-4
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope %: 5
Subregion (LRR or MLRA): LRR L Lat: 43.317085N Long: 88.149618W Datum: WGS 84
Soil Map Unit Name: Colwood silt loam (Cw) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
---	---

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 4-4 is located upland and adjacent to Site 4 within a forested area.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
---	---

Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 4-4

Tree Stratum (Plot size: <u>30 foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Crataegus mollis</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU species <u>95</u></td> <td>x 4 = <u>380</u></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals: <u>125</u> (A)</td> <td><u>480</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.84</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>25</u>	x 3 = <u>75</u>	FACU species <u>95</u>	x 4 = <u>380</u>	UPL species <u>5</u>	x 5 = <u>25</u>	Column Totals: <u>125</u> (A)	<u>480</u> (B)	Prevalence Index = B/A = <u>3.84</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>25</u>	x 3 = <u>75</u>																			
FACU species <u>95</u>	x 4 = <u>380</u>																			
UPL species <u>5</u>	x 5 = <u>25</u>																			
Column Totals: <u>125</u> (A)	<u>480</u> (B)																			
Prevalence Index = B/A = <u>3.84</u>																				
2. <u>Quercus alba</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Acer negundo</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>35</u> =Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15 foot radius</u>)																				
1. <u>Acer negundo</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>5</u> =Total Cover																				
Herb Stratum (Plot size: <u>10 foot radius</u>)																				
1. <u>Glechoma hederacea</u>	<u>50</u>	<u>Yes</u>	<u>FACU</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
2. <u>Erythronium albidum</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Solidago sp.</u>	<u>5</u>	<u>No</u>	_____																	
4. <u>Ribes missouriense</u>	<u>5</u>	<u>No</u>	<u>UPL</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>90</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>30 foot radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ =Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)
 The goldenrod (Solidago sp.) could not be identified to species level.

SOIL

Sampling Point: 4-4

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 5-1
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope %: 5
Subregion (LRR or MLRA): LRR L Lat: 43.317087N Long: 88.150311W Datum: WGS 84
Soil Map Unit Name: Colwood silt loam (Cw) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 5-1 is a forested upland area located north of Cedar Creek, east of Hickory Lane. A sampling point was taken because of the presence of scouring rush (equisetum hyemale).

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

Sampling Point: 5-1

Tree Stratum (Plot size: 30 foot radius)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Acer saccharinum</i>	20	Yes	FACW
2.	<i>Fraxinus pennsylvanica</i>	10	Yes	FACW
3.	<i>Acer negundo</i>	10	Yes	FAC
4.				
5.				
6.				
7.				
		40	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15 foot radius)				
1.	<i>Lonicera maackii</i>	10	Yes	UPL
2.	<i>Acer negundo</i>	10	Yes	FAC
3.				
4.				
5.				
6.				
7.				
		20	=Total Cover	
Herb Stratum (Plot size: 10 foot radius)				
1.	<i>Equisetum hyemale</i>	40	Yes	FAC
2.	<i>Geranium maculatum</i>	10	Yes	FACU
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		50	=Total Cover	
Woody Vine Stratum (Plot size: 30 foot radius)				
1.				
2.				
3.				
4.				
			=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals:	(A) (B)
Prevalence Index = B/A =	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 5-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 3/1	100					Loamy/Clayey	
7-12	10YR 5/3	60	10YR 6/4	5	C	M		Mixed matrix - 10YR 3/1 (35%)
12-18	10YR 5/3	80	10YR 6/4	10	C	M	Loamy/Clayey	Mixed matrix - 10YR 3/1 (10%)
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.				² Location: PL=Pore Lining, M=Matrix.				
Hydric Soil Indicators:			Indicators for Problematic Hydric Soils ³ :					
☐ Histosol (A1)			☐ Dark Surface (S7)			☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)		
☐ Histic Epipedon (A2)			☐ Polyvalue Below Surface (S8) (LRR R,			☐ Coast Prairie Redox (A16) (LRR K, L, R)		
☐ Black Histic (A3)			☐ MLRA 149B)			☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
☐ Hydrogen Sulfide (A4)			☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)			☐ Polyvalue Below Surface (S8) (LRR K, L)		
☐ Stratified Layers (A5)			☐ High Chroma Sands (S11) (LRR K, L)			☐ Thin Dark Surface (S9) (LRR K, L)		
☐ Depleted Below Dark Surface (A11)			☐ Loamy Mucky Mineral (F1) (LRR K, L)			☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
☐ Thick Dark Surface (A12)			☐ Loamy Gleyed Matrix (F2)			☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
☐ Mesic Spodic (A17)			☐ Depleted Matrix (F3)			☐ Red Parent Material (F21) (outside MLRA 145)		
☐ (MLRA 144A, 145, 149B)			☐ Redox Dark Surface (F6)			☐ Very Shallow Dark Surface (F22)		
☐ Sandy Mucky Mineral (S1)			☐ Depleted Dark Surface (F7)			☐ Other (Explain in Remarks)		
☐ Sandy Gleyed Matrix (S4)			☐ Redox Depressions (F8)					
☐ Sandy Redox (S5)			☐ Marl (F10) (LRR K, L)					
☐ Stripped Matrix (S6)			☐ Red Parent Material (F21) (MLRA 145)					
Restrictive Layer (if observed):								
Type: _____								
Depth (inches): _____						Hydric Soil Present? Yes ____ No <u>X</u>		
Remarks:								

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: 6-1
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Mostly flat Local relief (concave, convex, none): None Slope %: 0
Subregion (LRR or MLRA): LRR L Lat: 43.315473N Long: 88.151432W Datum: WGS 84
Soil Map Unit Name: Water (W) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
---	---

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point 6-1 is am upland meadow located immediately south of Cedar Creek, west of Hickory Lane. A sampling point was taken as the area was dominated by reed canary grass (Phalaris arundinacea).

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

 Sampling Point: 6-1

Tree Stratum (Plot size: <u>30 foot radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer negundo</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____	(A) _____ (B) _____																			
Prevalence Index = B/A = _____																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>5</u>	<u>=Total Cover</u>																		
Sapling/Shrub Stratum (Plot size: <u>15 foot radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	_____	<u>=Total Cover</u>																		
Herb Stratum (Plot size: <u>10 foot radius</u>)																				
1. <u>Phalaris arundinacea</u>	<u>90</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>90</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: <u>30 foot radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	_____	<u>=Total Cover</u>																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 6-1

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: SW 1-1
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Channel Local relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR L Lat: 43.315907N Long: 88.150767W Datum: WGS 84
Soil Map Unit Name: Water (W) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
---	---

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point SW 1-1 is located within Cedar Creek, which is a perennial stream that flows east. The sampling point was taken west of the Hickory Lane bridge over Cedar Creek. The following ordinary high water mark (OHWM) characteristics were identified to determine the boundary of Site SW 1: shelving, destruction of terrestrial vegetation, sediment sorting, natural line impressed on the bank, and bed and banks.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <u>X</u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u>X</u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u>X</u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
--	---

Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>48</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
At this location, Cedar Creek had a surface water depth was greater than 48 inches.

Sampling Point: SW 1-1

Tree Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
		=Total Cover			
Sapling/Shrub Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
		=Total Cover			
Herb Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation _____ 2 - Dominance Test is >50% _____ 3 - Prevalence Index is $\leq 3.0^1$ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) _____ ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
11.	_____	_____	_____	_____	
12.	_____	_____	_____	_____	
		=Total Cover			
Woody Vine Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
		=Total Cover			
Hydrophytic Vegetation Present?		Yes	No	X	Hydrophytic Vegetation Present? Yes _____ No _____ X _____

No vegetation was present within sampling point SW 1-1. Dominant vegetation that was overhanging the site includes: box elder (*Acer negundo*), reed canary grass (*Phalaris arundinacea*), green ash (*Fraxinus pennsylvanica*), and common buckthorn (*Rhamnus cathartica*).

SOIL

Sampling Point: SW 1-1

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Cedar Creek Park BMPs City/County: Washington/Wisconsin Sampling Date: 4/27/2023
Applicant/Owner: Village of Jackson State: WI Sampling Point: SW 2-1
Investigator(s): K. Walsh (CDM Smith) Section, Township, Range: T10E, R20E, S20
Landform (hillside, terrace, etc.): Channel Local relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR L Lat: 43.315687N Long: 88.15084W Datum: WGS 84
Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: PFO1C
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
---	---

Remarks: (Explain alternative procedures here or in a separate report.)
Sampling point SW 1-1 is located within an unnamed tributary to Cedar Creek, which is an intermittent stream that flows north into Cedar Creek (Site SW 1). The sampling point was taken west Hickory Lane. The following ordinary high water mark (OHWM) characteristics were identified to determine the boundary of Site SW 1: shelving, destruction of terrestrial vegetation, deposition, presence of litter and debris, sediment sorting, natural line impressed on the bank, and bed and banks.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <u>X</u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u>X</u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u>X</u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u>X</u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
--	--

Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>12</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
At this location, Cedar Creek had a surface water depth was approximately 12 inches deep. The surface water depth fluctuated between 2 and 18 inches deep within the stream.

Sampling Point: SW 2-1

Tree Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)																
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
		=Total Cover																			
Sapling/Shrub Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																				
OBL species _____	x 1 = _____																				
FACW species _____	x 2 = _____																				
FAC species _____	x 3 = _____																				
FACU species _____	x 4 = _____																				
UPL species _____	x 5 = _____																				
Column Totals: _____ (A)	_____ (B)																				
Prevalence Index = B/A = _____																					
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
		=Total Cover																			
Herb Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation _____ 2 - Dominance Test is >50% _____ 3 - Prevalence Index is $\leq 3.0^1$ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
5.	_____	_____	_____	_____																	
6.	_____	_____	_____	_____																	
7.	_____	_____	_____	_____																	
8.	_____	_____	_____	_____																	
9.	_____	_____	_____	_____																	
10.	_____	_____	_____	_____																	
11.	_____	_____	_____	_____																	
12.	_____	_____	_____	_____																	
		=Total Cover																			
Woody Vine Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
1.	_____	_____	_____	_____																	
2.	_____	_____	_____	_____																	
3.	_____	_____	_____	_____																	
4.	_____	_____	_____	_____																	
		=Total Cover																			
Hydrophytic Vegetation		Present? Yes _____ No <u> X </u>																			

No vegetation was present within sampling point SW 2-1. Dominant vegetation that was overhanging the site includes: box elder (*Acer negundo*), green ash (*Fraxinus pennsylvanica*), common buckthorn (*Rhamnus cathartica*), Missouri gooseberry (*Ribes missouriense*), and white trout lily (*Erythronium albidum*).

SOIL

Sampling Point: SW 2-1

[illegible]

Appendix C

Photos



Photo 1: Looking west towards Site 1.



Photo 2: Looking northwest towards Site 1.



Photo 3: Looking north towards Site 2.



Photo 4: Looking east towards Site 2.



Photo 5: Looking east towards Site 3.



Photo 6: Looking west towards Site 3.



Photo 7: Looking west towards Site 4.



Photo 8: Looking east towards Site 4.



Photo 9: Looking north towards Site 5.



Photo 10: Looking east towards Site 6.



. **Photo 11:** Looking east towards Site SW-1



. **Photo 12:** Looking north towards Site SW-2.



. **Photo 13:** Looking north towards Site DF-1.



. **Photo 14:** Looking north towards Site DF-2.

Public Works Report

August 27, 2024

Treatment Plant - Designed Capacity – 1.69 million gallons per day
Peak Flow Capacity – 6.0 million gallons per day

Year 2022

January	Avg. Flow 839,968 g.p.d.	Min. Flow 720,000 g.p.d.	Max. 960,000 g.p.d.
February	Avg. Flow 848,571 g.p.d.	Min. Flow 710,000 g.p.d.	Max. 1.080 MGD
March	Avg. Flow 1.499 MGD	Min. Flow 890,000 g.p.d.	Max. 3.910 MGD
April	Avg. Flow 2.245 MGD	Min. Flow 1.200 MGD	Max. 4.100 MGD
May	Avg. Flow 1.237 MGD	Min. Flow 850,000 g.p.d.	Max. 2.070 MGD
June	Avg. Flow 1.438 MGD	Min. Flow 780,000 g.p.d.	Max. 3.680 MGD
July	Avg. Flow 1.141 MGD	Min. Flow 760,000 g.p.d.	Max. 2.370 MGD
August	Avg. Flow 1.139 MGD	Min. Flow 810,000 g.p.d.	Max. 1.920 MGD
September	Avg. Flow 1.395 MGD	Min. Flow 780,000 g.p.d.	Max. 4.160 MGD
October	Avg. Flow 920,322 g.p.d.	Min. Flow 760,000 g.p.d.	Max. 1.130 MGD
November	Avg. Flow 1.259 MGD	Min. Flow 810,000 g.p.d.	Max. 2.660 MGD
December	Avg. Flow 1.267 MGD	Min. Flow 930,000 g.p.d.	Max. 2.190 MGD

Year 2023

January	Avg. Flow 1.247 MGD	Min. Flow 1.010 MGD	Max. 1.560 MGD
February	Avg. Flow 1.351 MGD	Min. Flow 950,000 g.p.d.	Max. 3.130 MGD
March	Avg. Flow 1.762 MGD	Min. Flow 1.250 MGD	Max. 2.560 MGD
April	Avg. Flow 1.594 MGD	Min. Flow 980,000 g.p.d.	Max. 3.290 MGD
May	Avg. Flow 1.094 MGD	Min. Flow 780,000 g.p.d.	Max. 1.520 MGD
June	Avg. Flow 875,333 g.p.d.	Min. Flow 750,000 g.p.d.	Max. 1.050 MGD
July	Avg. Flow 841,935 g.p.d.	Min. Flow 680,000 g.p.d.	Max. 1.050 MGD
August	Avg. Flow 1.022 MGD	Min. Flow 710,000 g.p.d.	Max. 2.070 MGD
September	Avg. Flow 968,667 g.p.d.	Min. Flow 740,000 g.p.d.	Max. 1.270 MGD
October	Avg. Flow 1.154 MGD	Min. Flow 770,000 g.p.d.	Max. 1.900 MGD
November	Avg. Flow 1.080 MGD	Min. Flow 870,000 g.p.d.	Max. 1.720 MGD
December	Avg. Flow 1.146 MGD	Min. Flow 850,000 g.p.d.	Max. 1.440 MGD

Year 2024

January	Avg. Flow 1.337 MGD	Min. Flow 980,000 g.p.d.	Max. 2.260 MGD
February	Avg. Flow 1.440 MGD	Min. Flow 1.090 MGD	Max. 2.250 MGD
March	Avg. Flow 1.502 MGD	Min. Flow 950,000 g.p.d.	Max. 2.590 MGD
April	Avg. Flow 1.427 MGD	Min. Flow 980,000 g.p.d.	Max. 3.220 MGD
May	Avg. Flow 1.325 MGD	Min. Flow 980,000 g.p.d.	Max. 1.990 MGD
June	Avg. Flow 1.544 MGD	Min. Flow 980,000 g.p.d.	Max. 2.500 MGD
July	Avg. Flow 1.146 MGD	Min. Flow 850,000 g.p.d.	Max. 1.560 MGD

Years Summary of Water Consumption

2010 Total Pumpage 239,326,000 gallons	2011 Total Pumpage 240,268,000 gallons
2012 Total Pumpage 253,492,000 gallons	2013 Total Pumpage 228,371,000 gallons
2014 Total Pumpage 230,973,000 gallons	2015 Total Pumpage 222,621,000 gallons
2016 Total Pumpage 254,531,000 gallons	2017 Total Pumpage 251,387,000 gallons
2018 Total Pumpage 241,322,000 gallons	2019 Total Pumpage 253,427,000 gallons
2020 Total Pumpage 259,413,000 gallons	2021 Total Pumpage 242,216,000 gallons
2022 Total Pumpage 222,033,000 gallons	

Year 2022

Jan.	Avg.	553,580 g.p.d.	Highest Day 707,000 gals.	Total	17,161,000 gallons
Feb.	Avg.	575,360 g.p.d.	Highest Day 683,000 gals.	Total	16,110,000 gallons
March	Avg.	578,290 g.p.d.	Highest Day 861,000 gals.	Total	17,927,000 gallons
April	Avg.	606,400 g.p.d.	Highest Day 1.084 MGD	Total	18,192,000 gallons
May	Avg.	605,190 g.p.d.	Highest Day 808,000 gals.	Total	18,761,000 gallons
June	Avg.	660,500 g.p.d.	Highest Day 1.034 MGD	Total	19,815,000 gallons
July	Avg.	685,520 g.p.d.	Highest Day 853,000 gals.	Total	21,251,000 gallons
August	Avg.	654,160 g.p.d.	Highest Day 800,000 gals.	Total	20,279,000 gallons
Sept	Avg.	602,170 g.p.d.	Highest Day 727,000 gals.	Total	18,065,000 gallons
October	Avg.	661,390 g.p.d.	Highest Day 1.185 MGD	Total	20,503,000 gallons
Nov	Avg.	561,670 g.p.d.	Highest Day 714,000 gals.	Total	16,850,000 gallons
Dec	Avg.	552,160 g.p.d.	Highest Day 712,000 gals.	Total	17,117,000 gallons

Year 2023

Jan.	Avg.	544,810 g.p.d.	Highest Day 716,000 gals.	Total	16,889,000 gallons
Feb.	Avg.	576,070 g.p.d.	Highest Day 762,000 gals.	Total	16,130,000 gallons
March	Avg.	532,060 g.p.d.	Highest Day 713,000 gals.	Total	16,494,000 gallons
April	Avg.	597,230 g.p.d.	Highest Day 869,000 gals.	Total	17,917,000 gallons
May	Avg.	651,650 g.p.d.	Highest Day 1.243 MGD	Total	20,201,000 gallons
June	Avg.	850,070 g.p.d.	Highest Day 1.018 MGD	Total	24,152,000 gallons
July	Avg.	793,870 g.p.d.	Highest Day 944,000 gals.	Total	24,610,000 gallons
August	Avg.	737,060 g.p.d.	Highest Day 1.019 MGD	Total	22,849,000 gallons
Sept	Avg.	616,330 g.p.d.	Highest Day 790,000 gals.	Total	18,490,000 gallons
Oct	Avg.	611,900 g.p.d.	Highest Day 986,000 gals.	Total	18,969,000 gallons
Nov	Avg.	531,570 g.p.d.	Highest Day 728,000 gals.	Total	15,947,000 gallons
Dec	Avg.	549,970 g.p.d.	Highest Day 770,000 gals.	Total	17,049,000 gallons

Pump Capacity Well #1- 400 g.p.m. Well #3 -900 g.p.m. Well #4 - 1200 g.p.m. Well #5 – 1,100 g.p.m. Well #6 – 800 g.p.m.

Year 2024

Jan.	Avg.	564,060 g.p.d.	Highest Day 733,000 gals.	Total	17,486,000 gallons
Feb.	Avg.	554,550 g.p.d.	Highest Day 711,000 gals.	Total	16,082,000 gallons
March	Avg.	541,840 g.p.d.	Highest Day 731,000 gals.	Total	16,797,000 gallons
April	Avg.	609,130 g.p.d.	Highest Day 903,000 gals.	Total	18,274,000 gallons
May	Avg.	609,870 g.p.d.	Highest Day 762,000 gals.	Total	18,906,000 gallons
June	Avg.	661,830 g.p.d.	Highest Day 817,000 gals.	Total	19,855,000 gallons
July	Avg.	731,480 g.p.d.	Highest Day 988,000 gals.	Total	22,676,000 gallons

WWTP – Holding & Septage Receiving

2005	\$ 87,562.01	2006	\$101,115.11	2007	\$152,201.07	2008	\$210,441.47
2009	\$183,815.34	2010	\$197,653.66	2011	\$220,576.28	2012	\$236,224.70
2013	\$235,336.46	2014	\$203,938.32	2015	\$210,644.47	2016	\$220,473.17
2017	\$232,358.23	2018	\$245,767.74	2019	\$219,822.80	2020	\$204,656.11
2021	\$209,083.10	2022	\$251,109.46	2023	\$157,332.20		

2022	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
January	1,311,750	2,700			40,650	\$11,780.25
February	1,321,050	8,000			48,350	\$12,577.15
March	2,076,350	2,000		40,750	303,750	\$26,238.30
April	1,791,650	5,400	1,500	101,700	326,050	\$27,660.95
May	1,703,450		5,200	164,850	288,100	\$28,456.35
June	1,759,050	3,000		100,400	373,050	\$28,348.65
July	1,437,400	2,700		92,100	186,800	\$20,583.70
August	1,670,350	1,200	3,500	63,700	242,850	\$22,560.55
September	1,479,850			73,350	168,950	\$19,363.30
October	1,204,370	3,000	5,500	47,650	253,200	\$18,629.21
November	1,264,850		1,000	48,300	228,250	\$18,038.55
December	1,454,750		4,000	24,100	159,600	\$16,872.50

2023	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
January	1,232,950		1,000	2,800	72,460	\$11,841.10
February	1,299,600			1,000	27,000	\$11,121.30
March	849,250			18,800	62,550	\$ 9,203.75
April	Primary Clarifiers were receiving new diffusers.					
May	1,011,750			44,350	121,650	\$13,131.00
June	1,089,100			44,100	148,950	\$14,421.05
July	928,350		3,500	6,000	110,500	\$12,546.00
August	1,212,400			8,000	121,800	\$15,649.00
September	1,083,000			10,400	100,350	\$13,962.75
October	1,148,850			8,200	280,750	\$18,999.25
November	1,020,400			16,500	302,800	\$18,764.00
December	1,262,300			2,000	198,000	\$17,693.00

2023	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
January	1,240,050			500	62,900	\$14,003.00
February	1,236,550			2,300	63,100	\$14,081.00
March	1,139,150			4,500	141,500	\$15,200.25
April	1,135,752			3,600	225,950	\$17,972.27
May	982,150			14,800	274,550	\$17,573.25
June	734,178			2,000	175,950	\$11,860.53

Morning Meadows Subdivision

Streetlights were installed by the Village in Phase 1 and 2. The lights are on. We had to move a pole with the new curbing at Daisy Lane. Phase 3 roadway has been completed and streetlights is the next item for the Village to complete.

Eagle Drive & STH 60 Intersection Improvement

The intersection has been open to traffic. Minor items need to be completed to have the barricades totally removed.

Midwest Fiber Installation

The request has been made with Mid-West for fiber to Utility owned properties. They are working on STH 60 to install fiber along the south side when the road is closed. No change.

WWTP 2024 Tertiary Filters and UV Disinfection

The building is being completed. The process continues for delivery of the filter (October 2024) and UV equipment (January 29, 2025) to stay on schedule.

Stormwater Ponds Management Inspection Program

We are waiting on two more ponds to be measured to complete the report. After reviewing the reports, the reports will be distributed to pond owners along with the invoices.

CTH P Reconstruction Project

The proposed storm sewer in the intersection of Sherman Road and CTH P is in conflict with the existing watermain. The existing watermain is in a steel casing. We are working on verifying the location of all underground utilities and raising the storm sewer over the existing water main. The Jackson Water Utility is responsible (cost) for the adjustment of storm sewer. The storm sewer adjustment will be cheaper than relocating water main since we are working in contaminated soils.

Maple Fields Subdivision

Streetlights are installed in Phase 1 and waiting for We-Energies to energize the last service. Phase 2 construction is in the roadway stage with stoning of the base course being installed. Phase 1 has been marked for curbing & sidewalk replacement. Once replaced the final lift of asphalt will be installed.

Next Generation Housing

There are a few punch list items pertaining to erosion control measures to close out the project with DF Tomasini.

Hickory Lane Reconstruction Project & Cedar Run Park – Dog Park Project

SEWRPC has been scheduled to delineate the wetlands. Once completed we can finalize the plans for a 2025 construction. Phasing of the project will be discussed at future Board of Public Works meetings.

Main Street Streetlight Replacement Project

Working through warranty items, and a hit pole by Vinton Construction doing sidewalk removal. We will try to close out the project this month. The easements for the streetlights will be finalized in the next months.

Ridgeway Drive and Chestnut Court Reconstruction Project

The funding for the project has been denied by the Village Board. Staff will complete collecting data to finalize the plans with Cedar Corp for a 2025 project re-bid.

Respectfully submitted, Brian W. Kober, P.E.