

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Madison City

Last Updated:
5/25/2012

Reporting Year: 2011

Financial Management

	Questions	Points												
1.	Person Providing This Financial Information													
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Name:</td> <td style="border: 1px solid black; padding: 2px;">Steve Danner-Rivers</td> </tr> <tr> <td>Telephone:</td> <td style="border: 1px solid black; padding: 2px;">(608) 261-9689</td> </tr> <tr> <td>E-Mail Address(optional):</td> <td style="border: 1px solid black; padding: 2px;">sdannerrivers@cityofmadison.com</td> </tr> </table>	Name:	Steve Danner-Rivers	Telephone:	(608) 261-9689	E-Mail Address(optional):	sdannerrivers@cityofmadison.com							
Name:	Steve Danner-Rivers													
Telephone:	(608) 261-9689													
E-Mail Address(optional):	sdannerrivers@cityofmadison.com													
2.	Are User Charge or other Revenues sufficient to cover O&M Expenses for your wastewater treatment plant AND/OR collection system ?	0												
	<p style="margin-left: 40px;"> <input checked="" type="radio"/> Yes (0 points) <input type="radio"/> No (40 points) </p> <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 60%; margin-left: 40px;"></div>													
3.	When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: 2011	0												
	<p style="margin-left: 40px;"> <input checked="" type="radio"/> 0-2 years ago (0 points) <input type="radio"/> 3 or more years ago (20 points) <input type="radio"/> Not Applicable (Private Facility) </p>													
4.	Did you have a special account (e.g., CWFP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?	0												
	<p style="margin-left: 40px;"> <input checked="" type="radio"/> Yes <input type="radio"/> No (40 points) </p>													
REPLACEMENT FUNDS(PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 5)														
5.	Equipment Replacement Funds													
	5.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: 2011	0												
	<p style="margin-left: 40px;"> <input checked="" type="radio"/> 1-2 years ago (0 points) <input type="radio"/> 3 or more years ago (20 points) <input type="radio"/> Not Applicable Explain: </p> <div style="border: 1px solid black; height: 20px; width: 60%; margin-left: 40px;"></div>													
	5.2 What amount is in your Replacement Fund?													
	Equipment Replacement Fund Activity													
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">5.2.1 Ending Balance Reported on Last Year's CMAR:</td> <td style="width: 5%;"></td> <td style="width: 35%; text-align: right;">\$8,111.97</td> </tr> <tr> <td>5.2.2 Adjustments</td> <td style="text-align: center;">+</td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td colspan="3" style="font-size: small;">if necessary (e.g., earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)</td> </tr> <tr> <td>5.2.3 Adjusted January 1st Beginning Balance</td> <td></td> <td style="text-align: right;">\$8,111.97</td> </tr> </table>	5.2.1 Ending Balance Reported on Last Year's CMAR:		\$8,111.97	5.2.2 Adjustments	+	\$0.00	if necessary (e.g., earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)			5.2.3 Adjusted January 1st Beginning Balance		\$8,111.97	
5.2.1 Ending Balance Reported on Last Year's CMAR:		\$8,111.97												
5.2.2 Adjustments	+	\$0.00												
if necessary (e.g., earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)														
5.2.3 Adjusted January 1st Beginning Balance		\$8,111.97												

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	5.2.4 Additions to Fund (e.g., portion of User Fee, earned interest, etc.)	+	\$250,000.00
	5.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 5.2.5.1 below*)	-	\$160,575.58
	5.2.6 Ending Balance as of December 31st for CMAR Reporting Year		\$97,536.39
(All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.)			
*5.2.5.1. Indicate adjustments, equipment purchases and/or major repairs from 5.2.5 above			
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">Force Main Replacement for the Fayette and Hoboken Lift Stations</div>			

	5.3 What amount <u>should</u> be in your replacement fund?		\$0.01
(If you had a CWFPP loan, this amount was originally based on the Financial Assistance Agreement (FAA) and should be regularly updated as needed. Further calculation instructions and an example can be found by clicking the HELP option button.)			

	5.3.1 Is the Dec. 31 Ending Balance in your Replacement Fund above (#5.2.6) equal to or greater than the amount that should be in it(#5.3)?		
	<input checked="" type="radio"/> Yes		
	<input type="radio"/> No Explain:		
<div style="border: 1px solid black; height: 20px; width: 100%;"></div>			

6.	Future Planning		
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	6.1 During the next ten years, will you be involved in formal planning for upgrading, rehabilitating or new construction of your treatment facility or collection system?		
	<input checked="" type="radio"/> Yes (If yes, please provide major project information, if not already listed below)		
	<input type="radio"/> No		

Project Description	Estimated Cost	Approximate Construction Year
Additions to Collection System: This project is for construction of assessable sewer facilities for new development, including easement acquisition where applicable. Likely projects for 2012 include: 2 separate extensions on Highway 'M' for future service, with installation in conjunction with planned street work; installations on South Point Road; installations on Elderberry Road. Other potential assessable extensions include the Pumpkin Hollow Sewer Interceptor Extension (\$375,000); future phases of the Center for Industry & Commerce Plat and / or Interstate Commerce Park (\$100,000). Amount shown is the estimate for 2012-2017.	\$3,213,390.00	

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Financial Management (Continued)

	<p>Infiltration & Inflow Improvements: This project is for the continuing work on Inflow and Infiltration problems in specific areas. Proposed projects for 2012 includes continuing rehabilitation of sewer structures as needed and some additional work in the Waunona Way area (\$75,000). This budget item anticipates continuing work in future years as other problem areas are better defined and implementing a Sewer Access Structure (manhole) lining contract. New problem areas may require professional study. This item assumes a consultant study to be completed in early 2012 of a near East sewer shed that experiences occasional sewer flooding problems. The problems are in the area of Johns & Cottage Grove Road and Lake Edge Boulevard & Hegg Avenue. Improvements based on the study would begin in 2012. Amount shown is the estimate for 2012-2017.</p>	\$1,360,410.00		
	<p>Sewer with Reconstructed Streets: This project involves the replacement of older, problematic sanitary sewers in coordination with the City's Pavement Management Program and the Madison Water Utility. This work provides for the replacement of six inch diameter clay sewers, which are difficult to maintain and sewers nearing the end of their service life or determined to have a significant repair cost. Since 1997, the Utility has encouraged residents to replace the portion of their sewer lateral that lies within the public right-of-way by offering to pay for 75% of the cost. All six inch mains under 'reconstruction' streets will be replaced. Sewers beneath resurfaced streets are evaluated for replacement on a case-by-case basis. Amount shown is the estimate for 2012-2017.</p>	\$49,744,775.00		
	<p>Felland Area Sewer Extension to Nelson Rd: This project shall extend sanitary sewer service from the Burke Road and Felland Road intersection north to Nelson Road to serve the Nelson Neighborhood. This will also relieve the Nelson Road Lift Station which is nearing capacity and precluding further development. In 2008, an Impact Fee District was established to recover the costs of this project. The easement acquisitions have been completed and construction is scheduled for 2013.</p>	\$1,000,000.00	2013	
	<p>Lower Badger Mill Creek Sewer Extension: This project will continue the extension of sanitary sewer to serve the Lower Badger Mill Creek Watershed. Previously completed work includes a new lift station at Mid Town Road and the extension of sanitary sewer from Mid Town Rd to Valley View Rd. The remaining work in this project includes the west branch sewer extension from Valley View Road to Mineral Point Road scheduled for 2012 and the east branch sewer extension from Valley View Road to the South Point Lift Station scheduled for 2013. Ultimately, the project will provide additional capacity for new development. Property acquisitions for the West Branch took place in 2011. Amount shown is the estimate for 2012-2013</p>	\$1,500,000.00		

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Financial Management (Continued)

	<p>Trenchless Sewer Rehabilitations: This project shall rehabilitate failing sewers that meet certain criteria that does not necessitate the need for a complete replacement by means of open cutting. New technology allows the lining of existing sewer mains using cameras and remote controlled tools. Some are also rehabilitated (or lined) to address inflow and infiltration problems, where clear water flow enters the sewer system reducing pipe capacity and increasing treatment costs. The amount budgeted shall repair approximately 5 miles of sewer main at a number of locations, strategically selected based on need city wide. This item may also include replacement of inaccessible sewers by a 'direct bore' method, which is a relatively new technology for replacement of gravity sewer mains. Backyard sewer mains are a focus for this project. Amount shown is the estimate for 2012-2017</p>	<p>\$6,375,631.00</p>		
7.	Financial Management General Comments:			
	<p>Annually the City of Madison adopts a Capital Budget which funds equipment replacement and other infrastructure improvements, listed in a project format. Each project is reviewed and the funding amount for the current budget is determined. In addition, the budget details future year estimates for the five subsequent years for each project.</p>			

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Sanitary Sewer Collection Systems

Questions	Points
1. Do you have a Capacity, Management, Operation & Maintenance (CMOM) requirement in your WPDES permit?	
<input type="radio"/> Yes <input checked="" type="radio"/> No	
2. Did you have a <u>documented</u> (written records/files, computer files, video tapes, etc.) sanitary sewer collection system operation & maintenance or CMOM program last calendar year?	0
<input checked="" type="radio"/> Yes (go to question 3) <input type="radio"/> No (30 points) (go to question 4)	
3. Check the elements listed below that are included in your Operation and Maintenance (O&M) or CMOM program.:	
<div style="border: 1px solid black; padding: 5px;"> <input checked="" type="checkbox"/> Goals: Describe the specific goals you have for your collection system: Convey wastewater to Nine Springs Waste Water Treatment Plant with minimum inflow, infiltration and exfiltration. Prevent public health hazards. Reduce inconvenience and damage by responsibly handling service interruptions. Eliminate claim and legal fees related to backup by providing immediate, concerned and efficient service to all emergency calls. Protect municipal investment by increasing the useful life and capacity of the system and parts. Use operating funds efficiently. Perform all activities safely and avoid injury. </div> <input checked="" type="checkbox"/> Organization: Do you have the following written organizational elements (check only those that you have): <input checked="" type="checkbox"/> Ownership and governing body description <input checked="" type="checkbox"/> Organizational chart <input checked="" type="checkbox"/> Personnel and position descriptions <input checked="" type="checkbox"/> Internal communication procedures <input checked="" type="checkbox"/> Public information and education program <input checked="" type="checkbox"/> Legal Authority: Do you have the legal authority for the following (check only those that apply): <input checked="" type="checkbox"/> Sewer use ordinance Last Revised MM/DD/YYYY 12/13/2011 <input checked="" type="checkbox"/> Pretreatment/Industrial control Programs <input checked="" type="checkbox"/> Fat, Oil and Grease control <input checked="" type="checkbox"/> Illicit discharges (commercial, industrial) <input checked="" type="checkbox"/> Private property clear water (sump pumps, roof or foundation drains, etc) <input type="checkbox"/> Private lateral inspections/repairs <input type="checkbox"/> Service and management agreements <input checked="" type="checkbox"/> Maintenance Activities: details in Question 4 <input checked="" type="checkbox"/> Design and Performance Provisions: How do you ensure that your sewer system is designed and constructed properly? <input checked="" type="checkbox"/> State plumbing code <input checked="" type="checkbox"/> DNR NR 110 standards <input checked="" type="checkbox"/> Local municipal code requirements <input checked="" type="checkbox"/> Construction, inspection and testing <input checked="" type="checkbox"/> Others: <div style="border: 1px solid black; padding: 2px;">City of Madison Public Works Standard Specifications</div>	

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Sanitary Sewer Collection Systems (Continued)

	<p><input checked="" type="checkbox"/> Overflow Emergency Response Plan: Does your emergency response capability include (check only those that you have):</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Alarm system and routine testing <input checked="" type="checkbox"/> Emergency equipment <input checked="" type="checkbox"/> Emergency procedures <input checked="" type="checkbox"/> Communications/Notifications (DNR, Internal, Public, Media etc) <p><input checked="" type="checkbox"/> Capacity Assurance: How well do you know your sewer system? Do you have the following?</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Current and up-to-date sewer map <input checked="" type="checkbox"/> Sewer system plans and specifications <input checked="" type="checkbox"/> Manhole location map <input checked="" type="checkbox"/> Lift station pump and wet well capacity information <input checked="" type="checkbox"/> Lift station O&M manuals <p>Within your sewer system have you identified the following?</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Areas with flat sewers <input type="checkbox"/> Areas with surcharging <input type="checkbox"/> Areas with bottlenecks or constrictions <input checked="" type="checkbox"/> Areas with chronic basement backups or SSO's <input checked="" type="checkbox"/> Areas with excess debris, solids or grease accumulation <input checked="" type="checkbox"/> Areas with heavy root growth <input checked="" type="checkbox"/> Areas with excessive infiltration/inflow (I/I) <input type="checkbox"/> Sewers with severe defects that affect flow capacity <input type="checkbox"/> Adequacy of capacity for new connections <input type="checkbox"/> Lift station capacity and/or pumping problems <p><input checked="" type="checkbox"/> Annual Self-Auditing of your O&M/CMOM Program to ensure above components are being implemented, evaluated, and re-prioritized as needed.</p> <p><input type="checkbox"/> Special Studies Last Year(check only if applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Infiltration/Inflow (I/I) Analysis <input type="checkbox"/> Sewer System Evaluation Survey (SSES) <input type="checkbox"/> Sewer Evaluation and Capacity Management Plan (SECAP) <input type="checkbox"/> Lift Station Evaluation Report <input type="checkbox"/> Others: 	
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4.	Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained:	
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	Cleaning	74.61	%	of system/year
	Root Removal	0.31	%	of system/year
	Flow Monitoring	0	%	of system/year
	Smoke Testing	0	%	of system/year
	Sewer Line Televising	5.56	%	of system/year

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Sanitary Sewer Collection Systems (Continued)

Manhole Inspections	<input style="width: 50px;" type="text" value="4.61"/>	% of system/year
Lift Station O&M	<input style="width: 50px;" type="text" value="75"/>	# per L.S./year
Manhole Rehabilitation	<input style="width: 50px;" type="text" value="0.43"/>	% of manholes rehabed
Mainline Rehabilitation	<input style="width: 50px;" type="text" value="0.76"/>	% of sewer lines rehabed
Private Sewer Inspections	<input style="width: 50px;" type="text" value="0"/>	% of system/year
Private Sewer I/I Removal	<input style="width: 50px;" type="text" value="0"/>	% of private services
<p>Please include additional comments about your sanitary sewer collection system below:</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>The City of Madison Engineering Division has an aggressive preventive maintenance and inspection program. Regularly scheduled cleaning, close-circuit video inspection and main repairs combine to extend the useful life of pipeline and minimize service interruptions to customers. As a result the City collection system very low incidence of sewer main back up.</p> </div>		

5. Provide the following collection system and flow information for the past year:

<input style="width: 80px;" type="text" value="30.54"/>	Total Actual Amount of Precipitation Last Year
<input style="width: 80px;" type="text" value="32.6"/>	Annual Average Precipitation (for your location)
<input style="width: 80px;" type="text" value="753.45"/>	Miles of Sanitary Sewer
<input style="width: 80px;" type="text" value="29"/>	Number of Lift Stations
<input style="width: 80px;" type="text" value="0"/>	Number of Lift Station Failure
<input style="width: 80px;" type="text" value="5"/>	Number of Sewer Pipe Failures
<input style="width: 80px;" type="text" value="34"/>	Number of Basement Backup Occurrences
<input style="width: 80px;" type="text" value="35"/>	Number of Complaints

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Sanitary Sewer Collection Systems (Continued)

40.43	Average Daily Flow in MGD	
45.13	Peak Monthly Flow in MGD(if available)	
73	Peak Hourly Flow in MGD(if available)	

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Sanitary Sewer Collection Systems (Continued)

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4" style="text-align: left; padding: 2px;">NUMBER OF SANITARY SEWER OVERFLOWS (SSO) REPORTED (10 POINTS PER OCCURRENCE)</th> <th rowspan="2" style="width: 5%; text-align: center; vertical-align: middle;">0</th> </tr> <tr> <th style="width: 10%; padding: 2px;">Date</th> <th style="width: 40%; padding: 2px;">Location</th> <th style="width: 30%; padding: 2px;">Cause</th> <th style="width: 15%; padding: 2px;">Estimated Volume (MG)</th> </tr> <tr> <td colspan="4" style="padding: 5px;">NONE REPORTED</td> <td></td> </tr> <tr> <td colspan="5" style="padding: 5px;"> <p>Were there SSOs that occurred last year that are not listed above?</p> <p style="margin-left: 20px;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </p> <p>If Yes, list the SSOs that occurred:</p> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div> </td> </tr> </table>	NUMBER OF SANITARY SEWER OVERFLOWS (SSO) REPORTED (10 POINTS PER OCCURRENCE)				0	Date	Location	Cause	Estimated Volume (MG)	NONE REPORTED					<p>Were there SSOs that occurred last year that are not listed above?</p> <p style="margin-left: 20px;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </p> <p>If Yes, list the SSOs that occurred:</p> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>				
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Date	Location	Cause	Estimated Volume (MG)																	
NONE REPORTED																				
<p>Were there SSOs that occurred last year that are not listed above?</p> <p style="margin-left: 20px;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </p> <p>If Yes, list the SSOs that occurred:</p> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>																				
	<p>PERFORMANCE INDICATORS</p> <p><input style="width: 60px;" type="text" value="0.00"/> Lift Station Failures(failures/ps/year)</p> <p><input style="width: 60px;" type="text" value="0.01"/> Sewer Pipe Failures(pipe failures/sewer mile/yr)</p> <p><input style="width: 60px;" type="text" value="0.00"/> Sanitary Sewer Overflows (number/sewer mile/yr)</p> <p><input style="width: 60px;" type="text" value="0.05"/> Basement Backups(number/sewer mile)</p> <p><input style="width: 60px;" type="text" value="0.05"/> Complaints (number/sewer mile)</p> <p><input style="width: 60px;" type="text" value="1.1"/> Peaking Factor Ratio (Peak Monthly:Annual Daily Average)</p> <p><input style="width: 60px;" type="text" value="1.8"/> Peaking Factor Ratio(Peak Hourly:Annual daily Average)</p>																			
6.	<p>Was infiltration/inflow(I/I) significant in your community last year?</p> <p style="margin-left: 20px;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </p> <p>If Yes, please describe:</p> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>																			
7.	<p>Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year?</p> <p style="margin-left: 20px;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </p> <p>If Yes, please describe:</p> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>																			
8.	<p>Explain any infiltration/inflow(I/I) changes this year from previous years?</p>																			

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9.	What is being done to address infiltration/inflow in your collection system?	
	<p>The Engineering Division is working to identify and reduce inflow and infiltration in the Eastmorland area. CCTV inspections and condition assessments of all sanitary sewers located in this area that flow to MMSD Pump Station Number 6 have been completed. Flow testing and smoke testing will be completed over the next few months to identify capacity issues as well as cross-connections. A multi-year plan will then be developed for eliminating identified sources of I&I.</p>	

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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WPDES No.0047341

GRADING SUMMARY				
SECTION	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Financial Management	A	4.0	1	4
Collection Systems	A	4.0	3	12
TOTALS			1	4
GRADE POINT AVERAGE(GPA)=				

Notes:

A = Voluntary Range

B = Voluntary Range

C = Recommendation Range (Response Required)

D = Action Range (Response Required)

F = Action Range (Response Required)

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Resolution or Owner's Statement

NAME OF GOVERNING BODY OR OWNER	DATE OF RESOLUTION OR ACTION TAKEN
RESOLUTION NUMBER	
ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B, required for grade C, D, or F):	
Financial Management: Grade=A	
Collection Systems: Grade=A	
ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS (Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00) G.P.A. =	