

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Madison City	Last Updated: 5/27/2009	Reporting Year: 2008
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Financial Management

	Questions	Points												
1.	Person Providing This Financial Information <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Name:</td> <td>Steve Danner-Rivers</td> </tr> <tr> <td>Telephone:</td> <td>(608) 261-9689</td> </tr> <tr> <td>E-Mail Address(optional):</td> <td>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 ? <input checked="" type="radio"/> Yes (0 points) <input type="radio"/> No (40 points) If No, please explain: <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>	0												
3.	When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: 2008 <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)	0												
4.	Did you have a special account (e.g., CWFPP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system? <input checked="" type="radio"/> Yes <input type="radio"/> No (40 points)	0												
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: 2008 <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: <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>	0												
	5.2 What amount is in your Replacement Fund? <div style="text-align: center;">Equipment Replacement Fund Activity</div>													
	<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: 10%;"></td> <td style="width: 30%; text-align: right;">\$295,262.27</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">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;">\$295,262.27</td> </tr> </table>	5.2.1 Ending Balance Reported on Last Year's CMAR:		\$295,262.27	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		\$295,262.27	
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	<p>5.2.4 Additions to Fund (e.g., portion of User Fee, earned interest, etc.) + \$350,000.00</p> <p>5.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 5.2.5.1 below*) - \$646,415.26</p> <p>5.2.6 Ending Balance as of December 31st for CMAR Reporting Year \$-1,152.99</p> <p>(All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.)</p> <p>*5.2.5.1. Indicate adjustments, equipment purchases and/or major repairs from 5.2.5 above</p> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">Construction phase of Gettle Ave Lift Station Rehabilitation</div>							
	<p>5.3 What amount should be in your replacement fund? \$0.01</p> <p>(If you had a CWFP 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.)</p>							
	<p>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)?</p> <p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No Explain:</p> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">As of the end of 2008, construction spending on the Gettle Ave Lift Station slightly exceeded available funds. The deficit was covered by existing reserves and was corrected in the 2009 budget.</div>							
6.	Future Planning							
	<p>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?</p> <p><input checked="" type="radio"/> Yes (If yes, please provide major project information, if not already listed below)</p> <p><input type="radio"/> No</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 60%;">Project Description</th> <th style="width: 20%;">Estimated Cost</th> <th style="width: 20%;">Approximate Construction Year</th> </tr> </thead> <tbody> <tr> <td>Additions to Collection System: This project is for construction of assessable sewer facilities for new development, including easement acquisition where applicable. Projects for 2009 include: future phases of the Center for Industry & Commerce Plat and / or Interstate Commerce Park (\$100,000); Elderberry Neighborhood Extension (\$375,000); the Pumpkin Hollow Sewer Interceptor Extension (\$375,000); the Northeast (Sprecher) Neighborhood Extension (\$450,000); and minor extensions to serve adjacent Town properties requesting sewer service and annexing to the City in accordance with Inter-governmental agreements (Bultman, Felland, Cottage Grove Road, Valley View Road). Amount shown is the estimate for 2009-2014.</td> <td style="text-align: center;">\$2,550,000.00</td> <td></td> </tr> </tbody> </table>	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. Projects for 2009 include: future phases of the Center for Industry & Commerce Plat and / or Interstate Commerce Park (\$100,000); Elderberry Neighborhood Extension (\$375,000); the Pumpkin Hollow Sewer Interceptor Extension (\$375,000); the Northeast (Sprecher) Neighborhood Extension (\$450,000); and minor extensions to serve adjacent Town properties requesting sewer service and annexing to the City in accordance with Inter-governmental agreements (Bultman, Felland, Cottage Grove Road, Valley View Road). Amount shown is the estimate for 2009-2014.	\$2,550,000.00		
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<p>Improvement to Sewer Study Areas: This project is for the continuing work on inflow and infiltration problems in specific areas. Proposed projects for 2009 include finding I & I sources to the Wright Street Pumping Station (\$35,000) and rehabilitation of sewer structures in the Truax Area (\$165,000). This budget item anticipates continuing work in future years as more of the problems are better defined and implementing a Sewer Access Structure (manhole) lining contract. Amount shown is the estimate for 2009-2014.</p>	<p>\$700,000.00</p>	
<p>Sewer with Reconstructed Streets: This project involves replacement of older, problematic sanitary sewers in conjunction with street reconstruction projects and street resurfacing. The work provides for the replacement of 6 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 6 inch mains under reconstructed streets will be replaced. Sewers beneath resurfaced streets are evaluated for replacement on a case-by-case basis. Amount shown is the estimate for 2009-2014.</p>	<p>\$33,100,000.00</p>	
<p>Hoard Area Sewer Replacements: In 1993 and again in 1996, residents residing in several blocks centering around Hoard and Kedzie Streets, suffered sanitary sewerage flooding into their basements. The City performed a detailed study to seek solutions to lessen the chance of future flooding. Implementation of the corrective action began with the replacement of the sewer interceptor on Johnson Street in 1997. This is for Phase 4, the final phase. Included streets shall be Oak from E Johnson to Commercial, and Hoard from Oak to Street End. This budget provides for funding for further replacement, tentatively set for 2009 and 2010.</p>	<p>\$650,000.00</p>	<p>2009</p>
<p>E. Washington Ave. Sanitary Sewer Replacement: This project is the replacement of existing, aged sanitary sewer facilities in the East Washington Avenue street right-of-way and some adjoining side streets, in conjunction with a major street reconstruction project, over several years. It is anticipated that the project shall consist of a few sewer main abandonments and many main replacements. Design work was completed in 2008 for the Final Phase (Segment 4), with construction to start in 2009. Budget in 2010 anticipates some follow up work such as lining of mains that were spared replacement.</p>	<p>\$400,000.00</p>	<p>2009</p>
<p>Felland Area Sewer Extension to Nelson Rd: This project shall acquire necessary easements and extend sanitary sewer service to the North of the Felland Neighborhood, and to Nelson Road. This shall provide service to this developing area North of Burke Road and both East and West of Felland. 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 cost recovery shall occur over time as development occurs with pro-rata payments indexed to the Construction Cost Index. The land acquisitions and construction of Phase 1 were completed in 2008. The land acquisition and construction for the final segment (Phase 2) is budgeted with this item for 2009.</p>	<p>\$1,400,000.00</p>	<p>2009</p>

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Financial Management (Continued)

	<p>Lower Badger Mill Creek Sewer Extension: This project shall extend sanitary sewer service to the Lower Badger Mill Creek Watershed, from a proposed lift station at Mid Town Road to just North of Mineral Point Road. Final plans were completed in 2007, and property acquisitions were begun. Lift station design was also completed in 2007. The Lift Station, forcemain and gravity main work along Mid Town Road is anticipated to be bid in late 2008. This budget item is for remainder of the interceptor from Mid Town Road to the North, which may be broken into two installation phases. Construction of the interceptor is also dependent on the property owner support and and documentation of the development investments.</p>	<p>\$2,625,000.00</p>	<p>2009</p>	
<p>7.</p>	<p>Financial Management General Comments:</p>			
	<div style="border: 1px solid black; padding: 10px;"> <p>Annually the City of Madison adopts a Capital Budget which funds the equipment replacement and other infrastructure improvements, listed in a project format. Each project is reviewed and the funding amount for the current budget year is determined. In addition, the budget details future year estimates for the five subsequent years for each project.</p> </div>			

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

COMPLIANCE MAINTENANCE ANNUAL REPORT

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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 the Nine Springs Wastewater Treatment Plant with minimum inflow, infiltration and exfiltration. Prevent public health hazards. Reduce inconvenience and damage by responsibly handling service interruptions. Eliminate claims 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 capacities 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 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 12/05/2005 <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: 	
4.	<p>Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained:</p>	
	<p>Cleaning 50.38 % of system/year</p> <p>Root Removal 1.93 % of system/year</p> <p>Flow Monitoring 0 % of system/year</p> <p>Smoke Testing 0 % of system/year</p> <p>Sewer Line Televising 7.11 % of system/year</p>	

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Sanitary Sewer Collection Systems (Continued)

Manhole Inspections	2.02	% of system/year
Lift Station O&M	79	# per L.S./year
Manhole Rehabilitation	0.35	% of manholes rehabed
Mainline Rehabilitation	1.28	% of sewer lines rehabed
Private Sewer Inspections	0	% of system/year
Private Sewer I/I Removal	0	% of private services
Please include additional comments about your sanitary sewer collection system below:		

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

44.06	Total Actual Amount of Precipitation Last Year
36.55	Annual Average Precipitation (for your location)
759.68	Miles of Sanitary Sewer
29	Number of Lift Stations
1	Number of Lift Station Failure
4	Number of Sewer Pipe Failures
41	Number of Basement Backup Occurrences
57	Number of Complaints
31.6	Average Daily Flow in MGD
	Peak Monthly Flow in MGD(if available)

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Sanitary Sewer Collection Systems (Continued)

NUMBER OF SANITARY SEWER OVERFLOWS (SSO) REPORTED (10 POINTS PER OCCURRENCE)					20
	Date	Location	Cause	Estimated Volume (MG)	
1.	06/09/2008 6:00:00 AM to 06/09/2008 11:30:00 AM	James Street Pump Station at 3135 James St. in Madison	Rain, Flooding	0.048	
2.	06/08/2008 9:00:00 PM to 06/08/2008 10:45:00 PM	Woodley Pump Station at 2712 Waunona Way in Madison	Rain, Flooding	0.05	
<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%;"></div>					
PERFORMANCE INDICATORS					
	0.03	Lift Station Failures(failures/ps/year)			
	0.01	Sewer Pipe Failures(pipe failures/sewer mile/yr)			
	0.00	Sanitary Sewer Overflows (number/sewer mile/yr)			
	0.05	Basement Backups(number/sewer mile)			
	0.08	Complaints (number/sewer mile)			
	0.0	Peaking Factor Ratio (Peak Monthly:Annual Daily Average)			
	0.0	Peaking Factor Ratio(Peak Hourly:Annual daily Average)			
6.	<p>Was infiltration/inflow(I/I) significant in your community last year?</p> <p style="margin-left: 20px;"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p> <p>If Yes, please describe:</p> <div style="border: 1px solid black; padding: 5px;"> During the week of June 8th The Madison area received record rainfall causing flooding throughout the area and along the Yahara River chain. As a result, the City's sanitary collection system experienced excessive infiltration/inflow. </div>				

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Sanitary Sewer Collection Systems (Continued)

7.	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 style="margin-left: 20px;"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p> <p>If Yes, please describe:</p> <div style="border: 1px solid black; padding: 5px; margin-left: 20px;"> Flow to the Nine Springs Wastewater Treatment Plant exceeded its capacity. As such, MMSD temporarily bypassed flow from two City of Madison lift stations to Lake Monona </div>	
8.	Explain any infiltration/inflow(I/I) changes this year from previous years?	
	<div style="border: 1px solid black; padding: 5px; margin-left: 20px;"> The amount and duration of rainfall received during the week of June 8th was extraordinary resulting in the declaration of a federal disaster eligible for FEMA assistance </div>	
9.	What is being done to address infiltration/inflow in your collection system?	
	<div style="border: 1px solid black; padding: 5px; margin-left: 20px;"> Impacted areas are being prioritized to identify sources of I/I. Additionally, a pilot program is being implemented to provide financial assistance to property owners in affected areas to install in-line back flow prevention devices. </div>	

Total Points Generated	20
Score (100 - Total Points Generated)	80
Section Grade	C

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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	C	2.0	3	6
TOTALS			4	10
GRADE POINT AVERAGE(GPA)=2.50		2.50		

Notes:

- A = Voluntary Range
- B = Voluntary Range
- C = Recommendation Range (Response Required)
- D = Action Range (Response Required)
- F = Action Range (Response Required)