COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Madison City | **Last Updated: 5/30/2013** | **Reporting Year: 2012**

Financial Management

	Questions	Points
1.	Person Providing This Financial Information	
	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
	● Yes (0 points) ○ No (40 points) If No, please explain:	
3.	When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: 2012	0
	● 0-2 years ago (0 points) ○ 3 or more years ago (20 points) ○ Not Applicable (Private Facility)	
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
	● Yes ○ No (40 points)	
	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: 2012	0
	● 1-2 years ago (0 points) ○ 3 or more years ago (20 points) ○ Not Applicable Explain:	
	5.2 What amount is in your Replacement Fund?	
	Equipment Replacement Fund Activity	
	5.2.1 Ending Balance Reported on Last Year's CMAR: $97536.39 **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** $97,536.39	

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Financial Management (Continued)

5.2.4	*Additions* to Fund (e.g., portion of User Fee, earned interest, etc.)	+	$25,000.00
5.2.5	*Subtractions* from Fund (e.g., equipment replacement, major repairs - use description box 5.2.5.1 below*.)	-	$12,811.48
5.2.6	**Ending Balance as of December 31st for CMAR Reporting Year**		$109,724.91

(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

New pump at Lois Lowry Station, Decommissioning of Soaring Sky Lift Station

5.3 What amount <u>should</u> be in your replacement fund? $0.01

(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.)

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)?

- ● Yes
- ○ No Explain:

6. Future Planning

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?

- ● Yes (If yes, please provide major project information, if not already listed below)
- ○ 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 2013 include: a sewer to serve development in the Hawks Creek area coming from Raymond Road; installations on Elderberry Road and Junction Road; future phases of the Center for Industry & Commerce Plat and / or Interstate Commerce Park. Amount shown is the estimate for 2013-2018.	$1,386,000.00	

Financial Management (Continued)

Infiltration & Inflow Improvements: This project is for continuing work on inflow and infiltration problems in specific areas. Funding in 2013 includes continuing lining of sewer mains and sewer access structures in the Waunona Way area. In 2012, a staff study outlined major improvements required for an area in the near east 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 2013 and continue three or more years. This budget item also 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. Amount shown is the estimate for 2013-2018.	$1,900,000.00	
Sewer with Reconstructed Streets: This project involves the replacement of older, problematic sewers in coordination with the City's Street Reconstruction and Pavement Management Program. Typically this provides for the replacement of clay sewers that are difficult to maintain, nearing the end of their service life, have significant repair costs, or are undersized. Also, the Sewer Utility encourages residents to replace the portion of their sewer lateral that lies within the public right-of-way by offering to fund 75% of the cost. Six inch mains under 'reconstruction' streets will be replaced because they do not meet current codes. Sewers beneath resurfaced streets are evaluated for replacement on a case-by-case basis. Amount shown is the estimate for 2013-2018.	$49,007,000.00	
Felland Area Sewer Extension to Nelson Rd: This project will extend sanitary sewer service from the intersection of Burke Road and Felland Road, north to Nelson Road in order 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 2014, or whenever development dictates a need.	$1,000,000.00	2014
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 Road to Valley View Road. The remaining work in this project includes the west branch sewer extension from Valley View Road to Mineral Point Road, scheduled for 2014, and the east branch sewer extension from Valley View Road to the South Point Lift Station, scheduled for 2015. Ultimately, the project will provide additional capacity for new development. Property acquisitions for the West Branch were completed in 2012. Amount shown is the estimate for 2013-2015	$2,000,000.00	

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Facility Name: Madison City	Last Updated: 5/30/2013	Reporting Year: 2012

Financial Management (Continued)

	Trenchless Sewer Rehabilitations: This project will rehabilitate failing sewers that meet certain criteria but do not necessitate 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 will repair approximately seven miles of sewer main at a number of strategically selected locations, based on citywide need. 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. Amount shown is the estimate for 2013-2018	$8,160,000.00	
	Frances-Carroll Lakeshore Sewer Line: Properties between Langdon Street and Lake Mendota, from Carroll Street to Frances Street are served by public sewer that runs primarily along the lakeshore. Most of the sewer was constructed between the early 1900's to 1920's and nearing the end of its design life. Most of the sewer is undersized for the present service demand. Much of the sewer is located in areas inaccessible for maintenance purposes, including under buildings and within areas showing no formal easements. This project shall systematically and strategically replace or rehabilitate these sewers to provide competent sewer in locations that can allow for maintenance. Funding for this project shall cover design, surveying, purchase of easements, rehabilitation of sewers (lining), and replacement of sewers over about a 4-year period. Amount shown is the estimate for 2013-2016.	$1,325,000.00	
	Royster Clark Redevelopment: The Project will install public sanitary sewer within a proposed redevelopment area. Construction includes approximately 2,900 feet of sewer main with approximately 115 service laterals. The sewer work would be in conjunction with full street and utility improvements. The Developer has requested the City to install these public improvements and assess the costs to the benefitting, newly created lots.	$500,000.00	2013

7.	Financial Management General Comments:	
	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 next budget year is determined. In addition, the budget details future year estimates for the five subsequent years for each project.	

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

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Madison City	Last Updated: 5/31/2013	Reporting Year: 2012

Sanitary Sewer Collection Systems

	Questions	Points
1.	Do you have a Capacity, Management, Operation & Maintenance(CMOM) requirement in your WPDES permit?	
	○ Yes ● No	
2.	Did you have a documented (written records/files, computer files, video tapes, etc.) sanitary sewer collection system operation & maintenance or CMOM program last calendar year?	0
	● Yes (go to question 3) ○ 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.:	
	☒ **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. ☒ **Organization:** Do you have the following written organizational elements (check only those that you have): ☒ Ownership and governing body description ☒ Organizational chart ☒ Personnel and position descriptions ☒ Internal communication procedures ☒ Public information and education program ☒ **Legal Authority:** Do you have the legal authority for the following (check only those that apply): ☒ Sewer use ordinance Last Revised MM/DD/YYYY 12/05/2005 ☒ Pretreatment/Industrial control Programs ☒ Fat, Oil and Grease control ☒ Illicit discharges (commercial, industrial) ☒ Private property clear water (sump pumps, roof or foundation drains, etc) ☐ Private lateral inspections/repairs ☐ Service and management agreements ☐ **Maintenance Activities: details in Question 4** ☒ **Design and Performance Provisions:** How do you ensure that your sewer system is designed and constructed properly? ☒ State plumbing code ☒ DNR NR 110 standards ☒ Local municipal code requirements ☒ Construction, inspection and testing ☒ Others: City of Madison Public Works Standard Specifications	

COMPLIANCE MAINTENANCE ANNUAL REPORT

Sanitary Sewer Collection Systems (Continued)

- [x] **Overflow Emergency Response Plan:** Does your emergency response capability include (check only those that you have):
  - [x] Alarm system and routine testing
  - [x] Emergency equipment
  - [x] Emergency procedures
  - [x] Communications/Notifications (DNR, Internal, Public, Media etc)
- [x] **Capacity Assurance:** How well do you know your sewer system? Do you have the following?
  - [x] Current and up-to-date sewer map
  - [x] Sewer system plans and specifications
  - [x] Manhole location map
  - [x] Lift station pump and wet well capacity information
  - [x] Lift station O&M manuals

  Within your sewer system have you identified the following?
  - [x] Areas with flat sewers
  - [ ] Areas with surcharging
  - [ ] Areas with bottlenecks or constrictions
  - [x] Areas with chronic basement backups or SSO's
  - [ ] Areas with excess debris, solids or grease accumulation
  - [x] Areas with heavy root growth
  - [x] Areas with excessive infiltration/inflow (I/I)
  - [ ] Sewers with severe defects that affect flow capacity
  - [ ] Adequacy of capacity for new connections
  - [ ] Lift station capacity and/or pumping problems
- [x] **Annual Self-Auditing of your O&M/CMOM Program** to ensure above components are being implemented, evaluated, and re-prioritized as needed.
- [x] **Special Studies Last Year(check only if applicable):**
  - [x] Infiltration/Inflow (I/I) Analysis
  - [x] Sewer System Evaluation Survey (SSES)
  - [ ] Sewer Evaluation and Capacity Managment Plan (SECAP)
  - [ ] Lift Station Evaluation Report
  - [ ] Others:

4. Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained:

Cleaning	49.67	% of system/year
Root Removal	.02	% of system/year
Flow Monitoring	3.48	% of system/year
Smoke Testing	0	% of system/year
Sewer Line Televising	4.29	% of system/year

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Madison City	Last Updated: 5/31/2013	Reporting Year: 2012

Sanitary Sewer Collection Systems (Continued)

Manhole Inspections	2.17	% of system/year
Lift Station O&M	76	# per L.S/year
Manhole Rehabilitation	.18	% of manholes rehabed
Mainline Rehabilitation	.83	% 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:

25.81	Total Actual Amount of Precipitation Last Year
34.48	Annual Average Precipitation (for your location)
759.68	Miles of Sanitary Sewer
29	Number of Lift Stations
0	Number of Lift Station Failure
3	Number of Sewer Pipe Failures
22	Number of Basement Backup Occurrences
22	Number of Complaints
23.62	Average Daily Flow in MGD
	Peak Monthly Flow in MGD(if available)

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Sanitary Sewer Collection Systems (Continued)

	Peak Hourly 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) — 10

	Date	Location	Cause	Estimated Volume (MG)
1.	6/15/2012 8:30:00 AM to 6/15/2012 9:30:00 AM	City SAS #6628-001 - E. Washington/Independence Lane	Plugged Sewer	0.0002 - 0.0003

Were there SSOs that occurred last year that are not listed above?

- ○ Yes
- ● No

If Yes, list the SSOs that occurred:

PERFORMANCE INDICATORS

0.00	Lift Station Failures(failures/ps/year)
0.00	Sewer Pipe Failures(pipe failures/sewer mile/yr)
0.00	Sanitary Sewer Overflows (number/sewer mile/yr)
0.03	Basement Backups(number/sewer mile)
0.03	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. Was infiltration/inflow(I/I) significant in your community last year?

- ○ Yes
- ● No

If Yes, please describe:

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?

- ○ Yes
- ● No

If Yes, please describe:

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Madison City	Last Updated: 5/31/2013	Reporting Year: 2012

Sanitary Sewer Collection Systems (Continued)

8.	Explain any infiltration/inflow(I/I) changes this year from previous years?	
	Continued reconstruction and rehab of aging clay sewers combined with 2012 drought resulted in decreased system I&I.	
9.	What is being done to address infiltration/inflow in your collection system?	
	City Engineering has identified the Hargrove & Johns basin as its top priority for eliminating I&I. Extensive flow monitoring was performed in these basins in 2012. Engineering crew performed open-cut and trenchless point repairs and a Public Works contract was awarded to line 13,505 lf of aging, VCP sewer main. An additional 44,667 lf of sewer main has been scheduled for lining over the next 3 years. Additionally, in 2013 thirteen structures will be replaced and 2,000 lf of main will be replaced and upsized to increase capacity.	

Total Points Generated	10
Score (100 - Total Points Generated)	90
Section Grade	B

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Facility Name: Madison City **Last Updated:** **Reporting Year: 2012**

WPDES No.0047341

GRADING SUMMARY				
SECTION	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Financial Management	A	4.0	1	4
Collection Systems	B	3.0	3	9
TOTALS			4	13
GRADE POINT AVERAGE(GPA)=3.25		3.25		

Notes:

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