MS4 Self-Assessment

Flood Management Program

Module 9

Name of the Permittee: City of San Antonio	MS4 Permit Number: WQ0004284000
Assessment Period:	

Permittee Instructions: Please complete the worksheet below. Please note that upon opening this Module, some content may be disabled such as the capacity to check inside the "boxes." The content can usually be activated by pressing "Enable Content" which will appear below the Toolbar in "MS Office."

ATTACHMENTS REQUESTED	Document attached
1. Attach an organizational chart.	☑ YES ☐ NO

FLOOD PROJECT MANAGEMENT **Control Measure to assess the water quality impacts in the design of all new flood management projects that are associated with the permittee or that discharge to the MS4. This process must include consideration of controls that can be used to minimize the impacts to site water quality and hydrology while still meeting the project objectives. The feasibility of retro-fitting existing structural control devices to provide additional pollutant removal from storm water shall be evaluated.**	
1. In accordance with 40 CFR § 122.26 [Phase I] has the permittee developed a *Storm Water Management Program (SWMP),* that describes how the **Flood Project Management** program will be implemented?	☑ YES ☐ NO
2. What pollutants of concern are targeted for reduction through the **Flood Project Management** program?	
Response: Within the Edwards Aquifer Recharge Zone, developers are required by TCEQ to reduce Total Suspended Solids (TSS), generally by means of permanent best management practices (BMPs) such as sand filter basins, and underground filtration systems. Total Suspended Solids (TSS) are targeted for reduction throughout the City by having maximum allowable velocities for drainage channels and discharge points. The maximum velocities are set to help reduce erosion.	
ORGANIZATIONAL STRUCTURE	
1. Is there a storm water team in place to ensure that the **Flood Project Management** program is properly implemented?	☑ YES ☐ NO
2. Describe the organizational structure and staff responsibilities necessary to implement the **Flood Project Management** program. Include the name, title, contact information, department name and key responsibilities of each team member.	
Response: Within the Transportation & Capital Improvements (TCI) Storm Water Engineering Division, there is a Floodplain Management group that reviews plats, building permits, master development plans, capital improvement projects, floodplain revisions, and floodplain permits. The current manager of the Floodplain Management team is Jacob Powell, P.E., (210) 207-0176, who reports to Art Reinhardt, P.E., Assistant Director (210) 207-7785.	
3. What co-permittee (s) and or interagency departments will participate in the implementation of the **Flood Project Management** program?	

Response: City of San Antonio Transportation & Capital Improvements (TCI); City of San Antonio Development Services Department (DSD); San Antonio River Authority; San Antonio Water System (SAWS)
4. Describe any formal agreements and key areas of responsibility shared by the permittee, co-permittee(s) and or interagency departments in the implementation of the **Flood Project Management** program.
Response: TCI works with DSD to coordinate permit, plat, and master development plan review. TCI works with SAWS when there are erosion concerns on private properties that affect adjacent properties. There is an Interlocal Agreement between the City of San Antonio (COSA) and the San Antonio River Authority (SARA) that allows SARA to provide additional review for development and redevelopments projects along the Musuem Reach Urban Segment, Eagleland, and Mission Reach portions of the San Antonio River.

5. Do program participants *(e.g., permittee, co-permittee(s), and other departments)* meet regularly to discuss the progress of the **Flood Project Management** program?	☑ YES ☐ NO

6. Describe the frequency of these meetings.
Response: TCI meets with DSD and other key stakeholders monthly at Development Process Task Force (DPTF) meetings to discuss the efficiency of the development process, changes to review procedures, etc. TCI meets with SARA and other key stakeholders monthly at Watershed Technical Committee meetings to discuss drainage issues throughout the San Antonio River watershed within and around Bexar County.

LEGAL AUTHORITY

1. Does the permittee have legal authority to implement the **Flood Project Management** program?	☑ YES ☐ NO

2. What ordinances, codes, or policies provide this legal authority?
Response: Requirements for development in San Antonio are found in the Unified Development Code (UDC). Development standards are found in Article V of the UDC.
3. Who *(e.g., specific staff, department, etc.)* has the authority to enforce this legal authority?
Response: The Director of TCI is the Floodplain Administrator for the City of San Antonio. The Director may delegate this responsibility to the Assistant Director over the Storm Water Division, who may delegate this responsibility to the manager of the Floodplain Management team.

FISCAL RESOURCES

	REPORTING PERIOD	NEXT REPORTING PERIOD
1. What is the budget for the implementation of the **Flood Project Management** program?	**Response**	**Response**
	1,838,430	**1,838,430**

SECTION I: MEASURABLE GOALS

1. What are the Measurable Goals for the **Flood Project Management** program? Include expected quantifiable results.	
Measurable Goal 1	Minimize erosion caused by storm runoff at new developments and re-developments.
Expected Quantifiable Results	Reduce frequency of customer complaints (COSA 311 calls) near developments and re-developments.
Measurable Goal 2	Review plats, building permits, FEMA Letters of Map Revision (LOMR) and CIP submittals in a timely manner.

Expected Quantifiable Results	Meet the service level goals agreed on by reviewing departments.
Measurable Goal 3	Confirmation of detention pond construction within city limits.
Expected Quantifiable Results	Goal of 100% receipt of Detention Pond Conformance Letters and Pond Maintenance Agreements.
Measurable Goal 4	
Expected Quantifiable Results	

2. Are these Measurable Goals described in the Storm Water Management Program *(SWMP)*?	☑ YES ☐ NO

SECTION II: INSPECTIONS

1. How many fulltime inspectors or other personnel are assigned to inspect flood controls?	
Response: Eight personnel are assigned to inspect flood controls.	
2. What type of flood controls exist in the permittee's jurisdiction?	
Response3 – Dams and 2 – Flood Control Tunnel Systems	
3. Is there a schedule in place to evaluate the mechanical and operational integrity of flood controls?	☑ YES ☐ NO
4. Describe the scheduling and inspection activities for the **Flood Project Management** program.	
Response: Scheduling and inspections are based on a recurring Daily, Weekly and Monthly schedule.	
5. How are flood controls prioritized for inspections and maintenance?	
Response Priority is based on an established recurring Daily, Weekly and Monthly schedule.	

SECTION III: TRAINING/EDUCATION

STAFF

1. Does the permittee require staff to complete special, continuous and or annual training or obtain certification or licensing to implement and manage the **Flood Project Management** program?	☑ YES ☐ NO
2. If yes, describe the applicable training, certification or licensing and the required frequency for each.	
Response: Hydrologic and hydraulic modeling; Low Impact Development (LID) workshops; Natural Channel Design (NCD) workshops; FEMA and NFIP training	
3. Does the permittee have a system in place to notify staff when required training is due, and does it document the training completion dates?	☐ YES ☑ NO
Response	

CONTRACTORS

1. Is any part of this program contracted? If yes, what part is contracted?	☑ YES ☐ NO
Response: Capital project design is typically contracted to private engineering companies. This work is often within the floodplain.	

SECTION IV: RECORDS MANAGEMENT

1. Does the permittee have a database in place to track activities of the **Flood Project Management** program?	☑ YES ☐ NO
2. What information is tracked in the database for the **Flood Project Management** program?	
Response: Permit submittal documents (construction plans, reports, hydrologic and hydraulic models, etc.); review comments and responses; permit submittal and issue dates; approved documents; GIS files for past, present, and future projects	

3. Who has access to this database?	
Response: Floodplain Management team staff, and some components of Development Services	
4. Who is responsible for updating the database?	
Response: TCI as well as the IT department.	
5. Does the permittee update its SWMP to reflect the changes and progress with the Flood Project Management program? As needed, the City provides information bulletins (IBs), Rule Interpretation Decisions (RIDs), and code amendments that may affect design and review of new development and redevelopment.	☑ YES ☐ NO
SECTION V: ASSESSMENT	
1. Does the permittee assess the effectiveness of the **Flood Project Management** program?	☑ YES ☐ NO
2. Based on the results of the effectiveness assessment, describe the positive results of the **Flood Project Management** program.	
Response: Improvement of floodplain management throughout the City; removal of homes and properties from the FEMA floodplain; reducing erosion issues by managing runoff velocity for constructed projects;	
3. Based on the results of the effectiveness assessment, what changes are proposed to enhance the **Flood Project Management** program?	
Response: Incorporation of a Storm Water Design Criteria Manual; Additional training for review staff and developers with the help of the San Antonio River Authority (SARA)	
4. Does the permittee have adequate staff and equipment to implement the **Flood Project Management** program?	☑ YES ☐ NO
5. Does the permittee assess the **Flood Project Management** program to determine if it meets Measurable Goals and other indicators?	☑ YES ☐ NO
6. Does the permittee assess the **Flood Project Management** program's compliance with the permit requirements?	☑ YES ☐ NO
7. Does the permittee generate an assessment report of the **Flood Project Management** program for its records?	☑ YES ☐ NO
8. What departments are involved in the **Flood Project Management** program assessment?	
Response: Transportation and Capital Improvement Department (TCI)	

Completed by (Print Name): Arthur Reinhardt		
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