

Stormwater Management Plan Update Review

August 7, 2018



Introduction to GHD



At a glance



Revenue is reported in AUD. The USD figure shown here was converted using the exchange rates applicable to the months in which the revenue was earned.



GHD in California

- Bakersfield
- Concord
- Emeryville
- Eureka
- Cameron Park
- Fresno
- Irvine
- Rancho Cordova
- Sacramento
- San Diego
- San Francisco
- Santa Rosa
- Sonoma



Stormwater Management Plan



Traditional Small Municipal Separate Storm Sewer System (MS4)

2013 NPDES Phase II Small MS4 Permit

Updated Stormwater Management Plan covers 2016 through 2021

- Comply with the requirements of the General Permit
- Reflect the City's current stormwater management conditions and practices
- Create the Roadmap to ongoing Improvement



Stormwater Management Plan Implementation

- City Council Approval Required
- MCMs and BMPs Scheduled
- PEAIP
- Annual Report



Stormwater Management Plan

Minimum Control Measures



- **Program Management Element**
- Public Education and Outreach Program
- Public Involvement and Participation Program
- Illicit Discharge Detection and Elimination Program
- Construction Site Runoff Control Program
- Post Construction Stormwater Management Program
- Pollution Prevention/Good Housekeeping for City Operations Program
- **Water Quality Monitoring Program**
- **Program Effectiveness Assessment and Improvement Program**
- **Online Annual Reporting**

Stormwater Management Plan Best Management Practices



- Details
- Schedule
- Goals
- Responsible Parties
- **Effectiveness Measurement**

Table 4.1 MCM-1, Public Education and Outreach

No.	BMP	Description	Measurable Goals	Responsible Party	Year					
					1	2	3	4	5	
1-1	Coordinate Media and Outreach Effort	The City shall coordinate its public education and outreach efforts with other local agencies and stakeholders. The City shall work with Tulare County and other local cities and agencies to produce educational Stormwater spots on radio, television, internet, and print media. Coordination efforts will also be made for joint public presentations and booth representation at local community events.	<ol style="list-style-type: none"> Establish a written agreement with local agencies for a public Stormwater education and outreach program that will set up the following: <ul style="list-style-type: none"> <input type="checkbox"/> A set number of joint spots in radio, TV, and print per year. <input type="checkbox"/> A linked internet resource between agencies on various local Stormwater programs. <input type="checkbox"/> A set number of events for joint booth representation per year. <input type="checkbox"/> A set number of joint public presentations per year. <p>This BMP focuses on the establishment of the joint agreements for items listed above. The specific numbers of items, such as advertisements made or events held, will be determined through the joint effort of the local agencies.</p> <ol style="list-style-type: none"> Meet with local agencies to evaluate and revise, as necessary, the joint efforts placed towards a public Stormwater education and outreach program. 	Director of Public Works	X					
1-2	Brochure Education Program	In coordination with other local agencies, the City will produce and distribute five different brochures. One brochure will be "Protect Your Water", general Stormwater information, and will be intended for public distribution. The other brochures will target more specific activities known to contribute Stormwater pollutants and be distributed to the appropriate user groups.	<ol style="list-style-type: none"> Design and produce the five brochures for public distribution. Provide the "Protect Your Water" brochure to government offices and make available for public distribution. Distribute the "Protect Your Water" on an ongoing basis at appropriate public events and upon request. Distribute the "Protect Your Water" to City parks for posting or distribution. Distribute the "Home Owners Guide" brochures to 100% of the City residences; mail with water utility bills. Distribute the "Home Owners Guide" brochures on an ongoing basis as individuals request utility service connection and as a response to telephone and email inquiries. Distribute the "Restaurant/Commercial Guide" and "Automotive Guide" brochures to 100% of inspected facilities via applicable business inspections. Distribute the "Construction Site Stormwater Runoff Control Guide" brochures to 100% of contractors. Keep track of the number of brochures distributed each year and to which group, i.e. restaurants, residences, etc. Keep track of the amount of collected material at each of the recycling facilities in the City to determine the effect of the Public Outreach and Education Program. 	Director of Public Works	X					
						X	X		X	X
						X	X		X	X
						X	X		X	X
								X		
							X	X	X	X
								X	X	X



Stormwater Management Plan 2016 Revisions



Update Minimum Control Measures (MCMs) and Best Management Practices (BMPs)

- MCM-1 Public Education and Outreach
 - Update Stormwater Management Website
 - Provide Informational Booth at Public Events
 - Track Attendance and Flyer Distribution
- MCM-2 Public Involvement and Participation
 - Provide Public Forums for Discussion
 - Coordinate with other Local Agencies and Stakeholders
 - Inventory Storm Drain Stenciling
 - Creek Clean-up Program



Stormwater Management Plan 2016 Revisions



Update Minimum Control Measures (MCMs) and Best Management Practices (BMPs)

- MCM-3 Illicit Discharge Detection and Elimination
 - Develop Storm Sewer System Outfall Mapping
 - Investigate Illicit Discharges within 72 hours and Conduct Follow-up Inspections
 - Coordinate with Health Department on Illicit Discharge Inventory
 - Prepare Spill Response Plan and Procedure for Handling Illegal Dumping
 - Develop Employee Training Program and Conduct Training Annually



Stormwater Management Plan 2016 Revisions

Update Minimum Control Measures (MCMs) and Best Management Practices (BMPs)

- MCM-4 Construction Site Runoff Controls
 - Develop, Implement, and Enforce a Program to Prevent Construction Site Discharges
 - Conduct Random Construction Site Inspections
 - Develop Inventory of Construction Design Details to Promote Stormwater Quality and Conservancy
 - Revise Grading Permit to Require Erosion and Sediment Control Plans
 - Provide Training and Education for Developers and City Staff



Stormwater Management Plan 2016 Revisions

Update Minimum Control Measures (MCMs) and Best Management Practices (BMPs)

- MCM-5 Post-Construction Stormwater Management
 - Design Guidelines
 - Develop Guidance Documents
 - Document and Track Training
- MCM-6 Pollution Prevention and Good Housekeeping for City Operations
 - Inventory and Map City-owned Facilities
 - Develop SWPPPs for Hotspots
 - Incorporate Water Quality and Habitat Enhancement Features
 - Reduce Use of Water, Pesticides, Herbicides, and Fertilizers
 - Biennial Assessment and Training



Stormwater Management Plan 2016 Revisions

New Minimum Control Measures (MCMs) and Best Management Practices (BMPs)

- MCM-7 Program Management
 - Certification Statement of Authority to Comply
 - Enforcement Response Plan
- MCM-8 Water Quality Monitoring Program
 - Receiving Water Monitoring Program
 - Upstream undergoing development
 - Downstream in urban area
 - Potentially establish a monitoring fund



Stormwater Management Plan 2016 Revisions

New Minimum Control Measures (MCMs) and Best Management Practices (BMPs)

- MCM-9 Program Effectiveness Assessment and Improvement Plan (PEAIP)
 - Identify Strategy to Assess Prioritized BMPs and Program Implementation as a Whole
 - Use Monitoring and Assessment Program Information to ID Areas for Program Improvement
 - Modify BMPs, New and Existing, to Improve Effectiveness in Each Priority Area
 - Consult with Regional Water Quality Control Board in Setting Expectations for BMP Modifications
 - Scope
 - Timing
 - Frequency





Stormwater Management Plan 2016 Revisions

New Minimum Control Measures (MCMs) and Best Management Practices (BMPs)

- Annual Reporting Program
 - State Water Board SMARTS
 - Beginning July 1 and Ending June 30
 - Present to EO of RWQCB



www.ghd.com