

WATER POLLUTION CONTROL PLAN

for

Sorrento Channels Reaches 3 & 7 Maintenance Project

Prepared for:

City of San Diego Transportation & Storm Water Department
2781 Caminito Chollas, MS 44
San Diego, CA 92105

Submitted by:

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Project Site Address/Location:

Along Roselle Street from approximately Estuary Way to I-5/I-805 Interchange
in Sorrento Valley, San Diego, CA

Contractor's Qualified Contact Person:

TBD

WPCP Prepared by:

URS Corporation
4225 Executive Square, Suite 1600
La Jolla, CA 92037
(858) 812-9292

WPCP Preparation Date:

10/11/2013

Project Information

1. Project Description

The project consists of clearing sediment and vegetation from Reaches 3 and 7 in the Sorrento Valley area. The maintenance will remove excavated materials from the concrete lined channels for an approximate length of 2,280 feet for Reach 3 and 1,000 feet for Reach 7. Two staging areas (Staging Areas-3A & 7A) will be utilized for the maintenance activities and several access & loading and fueling areas are also designated on the maintenance plans.

No previously undisturbed areas will be impacted by this project. The project will remove vegetation and sediment from the concrete lined channel maintenance area (approximately 3.5 acres). All staging and access & loading areas are on previously developed areas. The project is not subject to the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ, NPDES No. CAS000002) (CGP) and associated amendments because, as stated in the CGP, it consists of "routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility." The maintenance work is subject to multiple permits and a list of all the conditions will be included in the Individual Maintenance Plan (IMP) once permits are issued.

2. Unique Site Features

Reaches 3 and 7 are concrete lined channels in the Sorrento Valley area.

3. Project Schedule

The maintenance activities will take place between September 15th and February 15th and will occur over a period of 8 to 10 weeks. Work will be scheduled as early as possible in this timeframe, based on available staffing resources, to minimize the potential exposure to rain. The schedule can be extended past February 15th with written permission from the California Department of Fish and Wildlife and the US Fish and Wildlife Service.

4. Potential Pollutant Sources

The primary maintenance activities, related materials, and wastes that have the potential to pollute storm water include:

- a) Exposed soil areas from stockpiles and channel clearing activities,
- b) Fuel and other fluids from heavy equipment, and
- c) General maintenance waste materials.

Pollution Sources and Control Measures

The selected temporary sediment, erosion, and materials management control BMPs will be implemented on the maintenance site. Implementation and locations of temporary BMPs are shown on the maintenance plans. The CASQA Construction Stormwater BMP Handbook should be used as guidance in the application of the BMPs. The following lists of BMPs and narratives explain how the selected BMPs will be incorporated into the project.

Temporary Soil Stabilization Practices

TEMPORARY SOIL STABILIZATION BMPs				
BMP No.	BMP	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON
EC-1	Scheduling	X		
EC-2	Preservation of Existing Vegetation	X		
EC-3	Hydraulic Mulch		X	No stockpiling or land disturbing activities anticipated.
EC-4	Hydroseeding		X	No stockpiling or land disturbing activities anticipated.
EC-5	Soil Binder		X	No stockpiling or land disturbing activities anticipated.
EC-6	Straw Mulch		X	No stockpiling or land disturbing activities anticipated.
EC-7	Geotextiles & Mats		X	No stockpiling or land disturbing activities anticipated.
EC-8	Wood Mulching		X	No stockpiling or land disturbing activities anticipated.
Temporary Concentrated Flow Conveyance Controls				
EC-9	Earth Dikes/Drainage Swales & Lined Ditches		X	Limited run-on areas are onsite and will be diverted by gravel bag berms as necessary.
EC-10	Velocity Dissipation Devices		X	Channel work will not require outlet protection/velocity dissipation devices.
EC-11	Slope Drains		X	There are no steep slopes on the project.

Selected Temporary Soil Stabilization BMPs

Soil disturbing activities will consist of the maintenance work in the channels. Work will be scheduled as early as possible, based on available staffing resources, in the allowable timeframe (September 15th to February 15th) to minimize soil exposure to rain. Existing vegetation near the channels will be preserved to the maximum extent practicable and any disturbance activities will be limited to the required maintenance activity areas. All excavated materials will be hauled directly to an appropriate disposal facility upon removal from the channels. No stockpiling activities are anticipated. No soil disturbing activities will be permitted outside the channels, staging areas, and access & loading areas.

The CASQA Construction Stormwater BMP Handbook should be used as guidance in the application of the BMPs. Locations of the BMPs are shown on the maintenance plans.

Sediment Control Practices

TEMPORARY SEDIMENT CONTROL BMPs				
BMP No.	BMP	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON
SE-1	Silt Fence		X	Since all surfaces are paved, silt fence is not applicable.
SE-2	Sediment Basin		X	Based on project configuration and size, sediment basins are not applicable
SE-3	Sediment Trap		X	Based on project configuration and size, sediment traps are not applicable
SE-4	Check Dam		X	Based on Individual Hydraulic and Hydrology Assessment, check dams are not needed.
SE-5	Fiber Rolls	X		
SE-6	Gravel Bag Berm	X		
SE-7	Street Sweeping and Vacuuming-Daily	X		
SE-8	Sandbag Barrier		X	Other sediment control BMPs will be used.
SE-9	Straw Bale Barrier		X	Other sediment control BMPs will be used.
SE-10	Storm Drain Inlet Protection	X		

Selected Sediment Control BMPs

A majority of the project area is concrete or asphalt concrete surfaces with small portions of landscaped parkway type areas. The only sediment disturbing activities associated with the maintenance work are the removal of sediment from the channels. All excavated materials removed from the channels will be hauled directly to an appropriate disposal facility. Street sweeping/vacuuming will occur at least daily in the paved areas around the channel maintenance reaches and focused on the surrounding local streets. Storm drain inlet protection will be used for inlets located in the staging and/or access & loading areas. No soil disturbing activities will be permitted outside the channels, staging areas, and access & loading areas.

In Reach 3, a dual silt curtain system will be placed approximately 50-100 feet downstream of the work area. Placement of the silt curtains will be in coordination with the project biologist to minimize any environmental impacts. Once the silt curtains are in place, the necessary maintenance activities will be performed to install clear water diversions around the phased work areas. The silt curtains will remain in place to provide secondary protection for the duration of the maintenance activities.

In Reach 7, a gravel bag berm will be placed at the downstream end of the work area to any prevent sediment laden water from discharging from the site. A vactor truck will be used as needed to remove any ponded water upstream of the gravel bags berms.

The CASQA Construction Stormwater BMP Handbook should be used as guidance in the application of the BMPs. Locations of the BMPs are shown on the maintenance plans.

Tracking Control Practices

TRACKING CONTROL BMPs				
<i>BMP No.</i>	<i>BMP</i>	<i>CHECK IF USED</i>	<i>CHECK IF NOT USED</i>	<i>IF NOT USED, STATE REASON</i>
TC-1	Stabilized Construction Entrance/Exit	X		
TC-2	Stabilized Construction Roadway		X	All roadways to be used are paved and stabilized.
TC-3	Entrance/Outlet Tire Wash		X	Other tracking control measures will be used
SE-7	Street Sweeping and Vacuuming	X		

Selected Tracking Control BMPs

Stabilized construction entrances/exits consisting of shaker plate(s) placed on the asphalt will be used at the access points to the staging areas. Existing paved roads will be utilized and will be inspected and maintained throughout the maintenance activities. Street sweeping will occur on paved areas (including parking lots and local streets) impacted by the maintenance activities at minimum once a day.

The CASQA Construction Stormwater BMP Handbook should be used as guidance in the application of the BMPs. Locations of the BMPs are shown on the maintenance plans.

Wind Erosion Controls

Wind erosion controls will be applied as necessary to any exposed soil areas to prevent nuisance dust. The soil stabilization BMPs selected for the project will also provide wind erosion control benefits.

A sweeper will operate regularly on the local roadways to control dust created by truck traffic.

Non-Storm Water Management BMPs

NON-STORM WATER MANAGEMENT BMPs				
BMP No.	BMP	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON
NS-1	Water Conversation Practice	X		
NS-2	Dewatering Operations	X		
NS-3	Paving and Grinding Operations		X	There are no paving or grinding operations associated with this project.
NS-4	Temporary Stream Crossing		X	There are no temporary stream crossings associated with this project.
NS-5	Clear Water Diversion	X		
NS-6	Illicit Discharge/Illegal Dumping Reporting	X		
NS-7	Potable Water/Irrigation	X		
Vehicle and Equipment Operations				
NS-8	Vehicle and Equipment Cleaning		X	Vehicle/equipment cleaning will be done offsite.
NS-9	Vehicle and Equipment Fueling	X		
NS-10	Vehicle and Equipment Maintenance	X		

Selected Non-Storm Water Management BMPs

Clear Water Diversion

Clear water diversions will be used to divert the dry weather flows in the channel around the phased work areas. The first clear water diversion will begin at the upstream end of the Sorrento Valley Road bridge and terminate at the downstream end of the project. In addition to dry weather flows from the upstream watershed, the first maintenance area (Reach 3A, 3B, and 3C) has standing water likely due to the need for maintenance in Reach 2. The flow diversion will be a high-line bypass system and consist of 4 or 6 inch pumps with 6-inch diameter hose. The diverted and dewatering flows will be discharged back into the channel at the downstream end of the channel maintenance area just past the flow diversion structure in the Reach 3 (concrete channel) area. A sediment filter bag may be used on the end of the diversion hose to remove any sediment from the flows as well as decrease the velocity if necessary. The exact location will be coordinated with the project biologist to minimize environmental impacts.

The second clear water diversion will create a maintenance area (Reach 3D) immediately upstream of the first maintenance area. The diversion will be placed upstream of Access & Loading Area 3B and the dry weather flows will be pumped to the recently cleaned area

underneath Sorrento Valley Road bridge. Dewatering may be required in the second maintenance area depending on dry weather flows from storm drain outfalls into the channel.

The flow diversion systems are anticipated to operate continuously due to the constant dry weather flows from the upstream watershed. The dewatering portion of the system will only operate as needed. Maintenance work will be suspended and the system will be removed from the channel in the event of forecasted wet weather as indicated in the Wet Weather Action Plan.

The flow diversion structures are proposed to consist of a combination of water filled plastic barriers, sand bags, and visqueen. They shall not be wider than four feet at the base or over five feet tall. The normal channel flows will be restored to the original condition upon completion of the channel maintenance.

Other non-stormwater discharges

The project will include the following activities that have the potential to generate non-storm water discharges:

- Vehicles and equipment fueling or leaks

Water will be conserved to the maximum extent practicable and any unplanned potable water discharges will be controlled following the guidance of NS-7. Contractor will notify the Resident Engineer of any illicit discharges or illegal dumping encountered during the maintenance operation.

Vehicle and equipment cleaning is not allowed on the project site. Re-fueling will be restricted to heavy earth moving equipment that stays onsite overnight (not dump trucks) and will be restricted to the designated fueling areas only. Fueling areas will be located a minimum of 150 feet from the channels and locations are shown on the maintenance plans. Equipment will be inspected for fluid leaks and promptly cleaned up. There will be no storage of petroleum products or chemicals permitted onsite.

Maintenance BMPs used onsite will treat and release any storm water runoff. For Reach 3, a clear water diversion will be used to prevent any non-storm water discharges from the equipment working in the channel from discharging out of the maintenance areas. For Reach 7, a gravel bag berm will be used at the downstream end of the work area and a vac-truck will be used to remove any standing water. The vac-trucks will dispose of the standing water at an appropriate disposal facility. In the event of rain, any work in the Reach 7 channel will stop until the area has sufficiently dried out and will stop in Reach 3 until the majority of the storm flows have passed through the area.

The CASQA Construction Stormwater BMP Handbook should be used as guidance in the application of the BMPs. Locations of the BMPs are shown on the maintenance plans.

Waste Management and Materials Pollution Control BMPs

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs				
BMP No.	BMP	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON
WM-1	Material Delivery and Storage	X		
WM-2	Material Use	X		
WM-3	Stockpile Management	X		
WM-4	Spill Prevention and Control	X		
WM-5	Solid Waste Management	X		
WM-6	Hazardous Waste Management	X		
WM-7	Contaminated Soil Management	X		
WM-8	Concrete Waste Management		X	There is no concrete waste associated with this project.
WM-9	Sanitary/Septic Waste Management	X		
WM-10	Liquid Waste Management	X		

Selected Waste Management and Materials Pollution Control BMPs

The BMPs selected above will be implemented on the project. Materials associated with the application of BMPs are the only materials anticipated to be delivered, stored and/or used onsite. In the process of removing the excavated materials from the channels, the Contractor may encounter contaminated soil or other hazardous materials and will follow the guidance of the applicable BMP fact sheets. Sanitary and trash receptacle facilities will be located a minimum of 150 feet from the channels. Hazardous materials should be stored at minimum 50 feet from any storm drain facility.

The CASQA Construction Stormwater BMP Handbook should be used as guidance in the application of the BMPs. Locations of the BMPs are shown on the maintenance plans.

Water Pollution Control Drawings

The water pollution control drawings (WPCDs) are considered the maintenance plans and are included as part of the IMP package, Attachment 1. The maintenance plans show the locations of the BMPs and any additional instructions.

Weather Triggered Action Plan

The Qualified Contact Person shall monitor the weather forecast on a daily basis for predicted precipitation within the following 96 hours. The Qualified Contact Person shall monitor the forecast for the next 24, 48, 72 and 96 hours to determine if the forecast for precipitation is 50 percent or greater for any 6-hour period. If the forecast for precipitation is 50 percent or greater, the Qualified Contact Person shall calculate the amount of precipitation forecasted for each 24-hour period and the total precipitation for the forecasted storm event and record the information.

When there is a forecasted fifty percent (50%) or greater chance of likely precipitation of 0.10 inch or more, a pre-storm stormwater site inspection is required and the Qualified Contact Person shall ensure that the site is prepared for the forecasted storm event.

The following weather triggered action plan shall be implemented:

- Maintenance activities will not be initiated unless there is a minimum 10-day forecast of no precipitation.
- All work associated with excavating soil from its initial resting place shall cease immediately. The only work that shall continue in the channel is the loading and removal of already disturbed material.
- All BMPs shall be removed from the channel. These BMPs are only capable of treating low flows. They provide zero benefit to water quality and are actually a liability because of the high probability that they will be washed downstream.
- Site preparation activities shall be completed in the staging areas and access & loading areas.

List of Appendices

Appendix A – Sample Forms

List of Related Attachments

Attachment 1 – Water Pollution Control Drawings/Project Maintenance Plans

Appendix A – Sample Forms

Stormwater Maintenance BMP Inspection Report

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACTOR NAME AND ADDRESS
WPCP Manager	Phone Number (s) including Emergency (24/7) Phone Number
General Information	
Inspector's Name	Date of Inspection

Weather Conditions: Clear Partly Cloudy Cloudy

Precipitation Condition: None Misty Light Rain Rain Heavy Rain

Wind Condition: None Less than 5mph More than 5mph

Maintenance/Location

Site Inspection of Best Management Practices

If the inspection form does not contain enough lines for all locations, attach more pages for the BMP so that all locations are inspected and reported. List out all active BMPs (example: TC-1, WE-1, WM-1).

Activity	Observations and Comments
Temporary Soil Stabilization BMPs <input type="checkbox"/> Yes <input type="checkbox"/> No	
Temporary Sediment Control BMPs <input type="checkbox"/> Yes <input type="checkbox"/> No	
Wind Erosion Control BMPs <input type="checkbox"/> Yes <input type="checkbox"/> No	
Tracking Control Practices <input type="checkbox"/> Yes <input type="checkbox"/> No	

Stormwater Maintenance BMP Inspection Report

Non-Stormwater Management Practices <input type="checkbox"/> Yes <input type="checkbox"/> No	
Vehicle and Equipment Storage/Fueling/Maintenance Practices <input type="checkbox"/> Yes <input type="checkbox"/> No	
Dewatering <input type="checkbox"/> Yes <input type="checkbox"/> No	
Waste and Materials Pollution Management <input type="checkbox"/> Yes <input type="checkbox"/> No	
Hazardous Waste Management <input type="checkbox"/> Yes <input type="checkbox"/> No	

Additional Notes:

Daily Stormwater Inspection Report Certification

The information contained in this inspection report was gathered from a field site inspection.

Stormwater Inspector Name	Date Report Completed
Stormwater Inspector Signature	

The information contained in this inspection report was gathered and evaluated by qualified personnel before submittal. Based on my review of the information and inquiry of those who gathered and evaluated the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

WPCP Manager Name	Date
WPCP Manager Signature	Date

Channel Maintenance Daily Report

Date: _____ S M T W T F S (Circle Day)
 Operation Lead: _____
 Site Name/Facility: _____ Work Hours: _____ to _____
 Master Program Map No: _____ Start _____ Stop _____

Description of Work

Equipment

Equip No:	Description	Idle/Down	Additional Remarks

Channel Material Removed

Type removed	Quantity(linear ft.)
Silt/Sand	
Debris	
Vegetation	

Stockpile Area Material Removed

Type	Quantity/Unit
Sediment	
Debris	
Vegetation	
Tires (#)	

Activities/ Observations:

- | | |
|--|--|
| <input type="checkbox"/> Inspection of construction stormwater BMPs | <input type="checkbox"/> Toxic materials found* |
| <input type="checkbox"/> Reviewed any noticed and/or reported violations | <input type="checkbox"/> Cultural/Biological/Native American monitor present |
| <input type="checkbox"/> Water quality sampling activities performed | <input type="checkbox"/> Biological resources observed <input type="checkbox"/> No <input type="checkbox"/> Yes* |
| <input type="checkbox"/> Procedures for impending heavy rain fall | <input type="checkbox"/> Cultural resources observed <input type="checkbox"/> No <input type="checkbox"/> Yes* |

Daily tailgate covering:

- | | |
|---|---|
| <input type="checkbox"/> Cultural | <input type="checkbox"/> Water Quality/BMPs |
| <input type="checkbox"/> Biological | <input type="checkbox"/> Noise |
| <input type="checkbox"/> Other(list): _____ | |

* If found/observed, describe in comments including list of resources, toxic materials, and/or hazardous material manifest

