WATER POLLUTION CONTROL PLAN

for

Nestor Channel Maintenance Task Order 26

Prepared for:

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

Submitted by:

Bruce McIntyre 619.462.1515 Principal Planner HELIX Environmental Planning, Inc.

Project Site Location:

Map No. 131: Grove Ave. (S) from 30th Street (W) to Paxton Dr. (E) Map No. 132: Coronado Ave. (N) from 27th St. (W) to I-5 (E) Map No. 133: Green St. from Coronado Ave. (S) to Elm St. (N) Map No. 134: Cedar Street in San Diego (N), Thermal Avenue (W), Palm Ave. (S)

Contractor's Qualified Contact Person:

Appropriate City Employee TBD

WPCP Prepared by:

Michael McGrath McGrath Consulting PO Box 2488 El Cajon, CA 92021 619.250.2025

WPCP Preparation Date:

05/17/2017

Table of Contents

Project Information
Project Description
Unique Site Features4
Project Schedule4
Potential Pollutant Sources
Pollution Sources and Control Measures
Temporary Soil Stabilization Practices6
Selected Temporary Soil Stabilization BMPs6
Sediment Control Practices7
Selected Sediment Control BMPs7
Tracking Control Practices
Selected Tracking Control BMPs
Wind Erosion Controls
Non-Storm Water Management BMPs9
Selected Non-Storm Water Management BMPs9
Waste Management and Materials Pollution Control BMPs10
Selected Waste Management and Materials Pollution Control BMPs11
Other Waste Management and Materials Pollution Control BMPs11
Additional Maintenance Required by the City11
Water Pollution Control Drawings
BMP Maintenance, Inspection, and Repair
References
Appendix A – Individual Maintenance Plans
A-1 – Maps No. 131, 132, and 13315
A-2 – Map No. 134
Appendix B – Certification
Certification
Appendix C – City of San Diego Form DS-560, Storm Water Requirements Applicability Checklist 19
Appendix D – Inspection Form

Project Information

Project Description

The project consists of clearing vegetation and sediment from the concrete and earthen channel in the Nestor Creek Channel. The Nestor Channel is located within the Otay River watershed and flows directly into the Otay River. The first area of maintenance begins on the east end of the channel parallel to 1330 30th St.; where it flows predominately west, downstream alongside Interstate (I)-5 with concrete-lined sections for approximately 1,150 feet. The second area of maintenance begins on the central section of the channel parallel to Mendoza Elementary School located at 2050 Coronado Ave.; where it flows predominately North, downstream alongside I-5 with earthen lined sections for approximately 1,340 feet. The third area of maintenance begins on the North end of the channel parallel to Palm Ave.; where it flows predominately Northwest, downstream parallel to I-5 with concrete and earthen lined sections for approximately 600 feet. Even with the Nestor Channel being concrete and earthen lined, the Individual Hydrologic and Hydraulic Analysis (IHHA) has determined that an erosive velocity will not be exceeded. Temporary velocity reducing check dams will be used at the start of each section of the project as-needed in the event that flows are present within the channel. The final condition for this concrete and earthen lined channel should be one that assists in reducing the flood event occurrence frequency by increasing the capacity of the channel and restoring the flow lines back to historic elevations. The channel is expected to be a stable concrete and earthen lined channel, under this condition, based on both prior maintenance history and the flow velocity calculations provided in the IHHA. Therefore, no post-maintenance stabilization measures are recommended.

The project will remove vegetation and sediment from the channel maintenance area. 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." This project will, however, comply with the San Diego Regional MS4 Permit (Order No. R9-2013-0001, as amended by Order Nos. R9-2015-0001 and R9-2015-0100). The maintenance work, methodologies, and Best Management Practices (BMPs) are listed in the Individual Maintenance Plan (IMP) Maintenance Methodology Tables and Master Maintenance Program (MMP) within the IMP.

Maintenance operations will be fully contained within the channel (See sheet 5-D of the IMP for methodology). For the remainder of the project, 5 access and loading areas and 3 staging areas have been designated. The first staging area will be located in the vacant lot North of 1330 30th St. The second Staging area will be located along the channel at Mendoza Elementary School located at 2050 Coronado Ave. The third staging area will be located in a parking area at Imperial Sands modular home park at 1810 Palm Ave. Access areas will be located along the channel and at upstream areas of the channel. Excavated material will be

trucked out daily. Fueling will be done at least 150' from waters of the U.S./State and equipment will be left onsite overnight. The adjacent road and parking lot, as well as surrounding streets will be swept by city street sweepers daily (at a minimum).

Unique Site Features

The site consists of five separate reaches of the Nestor Creek Channel. These reaches are as follows:

- 1. Map No. 131 (Reach 11 and 12): West of 1247 30th Street
 - a. Trapezoidal, concrete-lined channel
 - b. Trapezoidal, Soil-Lined Channel
- 2. Map No. 132 (Reach 9): Grove Ave. between 25th St. and 27th St.
 - a. Rectangle earthen bottom, and concrete sided channel
- 3. Map No. 133 (Reach 4): North of Coronado Avenue to Elm Avenue a. Trapezoidal, soil-lined channel
- 4. Map No. 134 (Reach 1): North of Palm Avenue, West of Thermal Avenue and South of Cedar Street
 - a. Rectangular, concrete-lined channel
 - b. Trapezoidal, rip rap and soil lined channel

Project Schedule

Maps No. 131, No. 132, and No. 133 work will take 14 days, 7 days a week from 6:00AM to 6:00PM. Map No. 134 will take 7 days, 7 days a week from 6:00AM to 6:00 PM. The schedules for the maintenance activities are located within the IMP in the IMP Maintenance Methodology Tables. The start of work will be scheduled as early as possible in a reasonable timeframe, based on available staffing resources and regulatory permits, to minimize the potential exposure to rain. The schedule can be extended with written permission from the City of San Diego.

Potential Pollutant Sources

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

- Exposed soil areas from channel clearing activities
- Fuel and other fluids from heavy equipment
- General maintenance waste materials, and
- Sediment and disturbed soil

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 plan. The California Stormwater Quality Association (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.

TEMPO	TEMPORARY SOIL STABILIZATION BMPs							
BMP No.	IP No. BMP		BMP CHEC USI		CHECK IF NOT USED	IF NOT USED, STATE REASON		
EC-1	Scheduling	Х						
EC-2	Preservation of Existing Vegetation	Х						
EC-3	Hydraulic Mulch		X	No stockpiling or land disturbing activities anticipated.				
EC-4	Hydroseeding		Х	No stockpiling or land disturbing activities anticipated.				
EC-5	Soil Binder		Х	No stockpiling or land disturbing activities anticipated.				
EC-6	Straw Mulch		Х	No stockpiling or land disturbing activities anticipated.				
EC-7	Geotextiles & Mats		Х	No stockpiling or land disturbing activities anticipated.				
EC-8	Wood Mulching	X No stockpilin activities ant		No stockpiling or land disturbing activities anticipated.				
Tempora	ary Concentrated Flow Conveyar	nce Controls	5					
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		Х	Channel work will not require outlet protection/velocity dissipation devices.				
EC-11	Slope Drains		X	There are no steep slopes on the project.				

Temporary Soil Stabilization Practices

Selected Temporary Soil Stabilization BMPs

Soil disturbing activities will consist of the maintenance work in the channel. The City will ensure all necessary personnel and equipment will be made available during the specific timeframe of the maintenance operation. City crews will conduct all work within a 35 day period of time in order to minimize the timeframe of soil disturbing activities. Existing vegetation near the channel and along the banks 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 channel. No stockpiling activities are anticipated. No soil disturbing activities will be permitted outside the channel and access and 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 plan.

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					
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 IHHA, check dams are not needed.			
SE-5	Fiber Rolls	Х					
SE-6	Gravel Bag Berm		Х	Other sediment control BMPs will be used.			
SE-7	Street Sweeping and Vacuuming-Daily	X					
SE-8	Sandbag Barrier	X					
SE-9	Straw Bale Barrier		Х	Other sediment control BMPs will be used.			
SE-10	Storm Drain Inlet Protection	Х					

Selected Sediment Control BMPs

A majority of the project area is concrete or asphalt paved surfaces with small portions of landscaped parkway type areas. The only sediment disturbing activities associated with the maintenance work would be the removal of sediment from the channel. All excavated materials removed from the channel will be hauled directly to an appropriate disposal facility. Street sweeping will occur at least daily on 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 access and loading areas. No soil disturbing activities will be permitted outside the channel and access and loading areas.

In this channel, sandbag barriers will be placed at the downstream and/or upstream ends of the work area to prevent any sediment laden water from discharging to and from the site. Dewatering pumps (6" or smaller) will be used as needed to redirect any ponded or sediment

laden water that may accumulate upstream or the sand bag barriers, to the most southern/western discharge location of the project.

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 plan.

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

Tracking Control Practices

Selected Tracking Control BMPs

Existing paved roads/parking lots will be utilized, 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 plan.

Wind Erosion Controls

Materials excavated shall be damp and unaffected by wind. A sweeper will operate regularly on the local roadways to control potential dust created by truck traffic.

NON-ST	NON-STORM WATER MANAGEMENT BMPs								
BMP No.	BMP	CHECK IF USED	CHECK IF NOT USED	IF NOT USED, STATE REASON					
NS-1	Water Conservation Practice	X							
NS-2	Dewatering Operations	X		Dewatering pumps (6" or smaller) will remove any ponded water in channel prior to excavation.					
NS-3	Paving and Grinding Operations		Х	There are no paving or grinding operations associated with this project.					
NS-4	Temporary Stream Crossing		Х	There are no temporary stream crossings associated with this project.					
NS-5	Clear Water Diversion		Х	N/A					
NS-6	Illicit Discharge/Illegal Dumping Reporting	X							
NS-7	Potable Water/Irrigation		Х	No irrigation required; vegetated banks will not be disturbed.					
Vehicle	and Equipment Operations								
NS-8	Vehicle and Equipment Cleaning		Х	Vehicle/equipment cleaning will be done offsite.					
NS-9	Vehicle and Equipment Fueling		X	Fueling will be done at least 150' away from waters of the US/State.					
NS-10	Vehicle and Equipment Maintenance		Х	Vehicle/equipment maintenance will be done offsite.					

Selected Non-Storm Water Management BMPs

Dewatering pumps will be used to divert potential run-on from dry weather flows into the channel. The dewatering pumps shall be placed at the upstream and/or downstream ends of the channel. Sandbag barriers will be utilized to obstruct and pond dry weather flows, such that the pumps may remove any ponded water. In addition to dry weather flows from the upstream watershed, the maintenance area within the channel may have standing water likely due to the need for maintenance. The ponded water in these areas will also be removed and contained by the pumps prior to excavation.

In the event dewatering pumps are needed, they are anticipated to operate continuously during maintenance.

Water will be conserved to the maximum extent practicable and any unplanned potable water discharges will be controlled following the guidance of NS-7. City Crews will notify the

Operations & Maintenance Superintendent of any illicit discharges or illegal dumping encountered during the maintenance operation.

The barriers obstructing flows are proposed to be constructed of sandbags. The barrier starting at 30th Street will be approximately 30 feet wide and three feet tall. The barrier starting at Coronado Avenue will be approximately 68 feet wide and three feet tall. The barrier starting at Palm Avenue will be approximately 28 feet wide and two feet tall. The normal channel flows will be restored to the original condition upon completion of the channel maintenance.

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 plan.

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	Х					
WM-2	Material Use	Х		No materials proposed for delivery to			
WM-3	Stockpile Management	Х		No Stockpiles proposed			
WM-4	Spill Prevention and Control	X					
WM-5	Solid Waste Management	Х					
WM-6	Hazardous Waste Management	Х					
WM-7	Contaminated Soil Management		Х	None is anticipated but this BMP will be followed if Contaminated Soil is found			
WM-8	Concrete Waste Management		Х	There is no concrete waste associated with this project.			
WM-9	Sanitary/Septic Waste Management		X	No Temp restrooms proposed			
WM- 10	Liquid Waste Management	X					

Waste Management and Materials Pollution Control BMPs

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 material anticipated to be delivered, stored and/or used onsite. In the process of removing the excavated materials from the channel, city crews may encounter contaminated soil or other hazardous materials and will follow the guidance of the applicable BMP fact sheets.

Other Waste Management and Materials Pollution Control BMPs

The project will include the following activities that have the potential for pollutant discharges:

• Vehicle and equipment leaks

Vehicle and equipment cleaning is not allowed on the project site. Fueling will be done at least 150' away from waters of the US/State. Equipment will be inspected for fluid leaks and promptly cleaned up. There will be no storage of petroleum products or chemicals permitted onsite. Vehicles and equipment are routinely inspected for leaks and immediately serviced if necessary. If any leaks were noticed they will be cleaned up immediately with dry methods and disposed of as a regulated waste.

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 plan.

Additional Maintenance Required by the City

- 1. The city shall notify California Department of Fish and Wildlife, in writing, at least five days prior to initiation of construction prior to completion of construction (project) activities. Notification shall be sent to CDFW's south coast office, Attn: Streambed Alteration Program-SM No. 1600-2011-0271-R5
- 2. Avoid the introduction of invasive plant species with physical erosion controls.
- 3. Prior to commencing any maintenance activity which may impact sensitive biological resources, the monitoring biologist shall verify that the following actions have been taken, as appropriate:
 - Fencing, Flagging, signage or other means to protect sensitive resources to remain after maintenance has been implemented
 - Noise attenuation measures needed to protect sensitive wildlife are in place and effective; and/or
 - Nesting Birds have been identified and necessary maintenance setbacks have been established if maintenance is to occur between January 15 and August 31.
- 4. If any wildlife is encountered during the course of maintenance, said wildlife shall be allowed to leave the maintenance area unharmed.

See Master Maintenance Program Protocol Requirements in IMP for additional descriptions of BMP.

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.

BMP Maintenance, Inspection, and Repair

The Qualified Contact Person will assign a monitor for daily inspection of the BMPs during maintenance activities. Each morning, the monitor will check the National Weather Service Forecast (http://www.srh.noaa.gov), complete a BMP inspection checklist, perform any necessary BMP maintenance or repairs, and report the results to the Qualified Contact Person. Sample forms are included in Appendix A. The completed BMP inspection checklists will be kept with the WPCP. A tracking or follow-up procedure shall follow any inspection that identifies deficiencies in BMPs. Common maintenance and repair measures for BMPs include replacement or repair of compromised fiber rolls, silt fence, gravel/sand bags, or inlet protection measures, removal of accumulated sediment 1/3 of the BMP height, and removal of inlet protection prior to rain events to prevent flooding hazards.

References

California Regional Water Quality Control Board San Diego Region Order No. R9-2013-0001, NPDES No. CAS0109266, National Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements for Discharges from the Municipal Separate Storm Sewer Systems (MS4S) Draining the Watersheds within the San Diego and as Amended by R9-2015-0001.

CASQA 2009, *Stormwater BMP Handbook Portal: Construction*, November 2009, <u>www.casqa.org</u>

Project IMP and IHHA, prepared by RICK Engineering.

State Water Resources Control Board (2009). Order 2009-0009-DWQ, NPDES General Permit No. CAS000002: National Pollutant Discharges Elimination System (NPDES) California General Permit for Storm Water Discharge Associated with Construction and Land Disturbing Activities. Available on-line at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.

State Water Resources Control Board (2010). Order 2010-0014-DWQ, NPDES General Permit No. CAS000002: National Pollutant Discharges Elimination System (NPDES) California General Permit for Storm Water Discharge Associated with Construction and Land Disturbing Activities. Available on-line at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.

State Water Resources Control Board (2012). Order 2012-0006-DWQ, NPDES General Permit No. CAS000002: National Pollutant Discharges Elimination System (NPDES) California General Permit for Storm Water Discharge Associated with Construction and Land Disturbing Activities. Available on-line at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.

SWRCB Order No. 2009-0009-DWQ, NPDES General Permit No. CAS000002, Waste Discharge Requirements (WDRS) for Discharges of Storm Water Runoff Associated with Construction Activity, September 2009.

Appendix A – Individual Maintenance Plans

A-1 – Maps No. 131, 132, and 133

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURDED OF DESTROYED THE OUTY OF SAME A CONNER RECORD OF MONTON DESTROYED, AND TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

3. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.

4. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE CITY OF SAN DIEGO MUNICIPAL CODE AND STORM WATER STANDARDS MANUAL. 5. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC

IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT- ISSUING AUTHORITY.

6. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARK-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO FIELD ENGINEERING DIVISION (858) 627-3200.

7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE CITY INSPECTOR. 8. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY

THE CITY OF SAN DIEGO. 9. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALI

COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY, ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.

GROUND WATER DISCHARGE

1. ALL GROUND WATER EXTRACTION AND SIMILAR WASTE DISCHARGES TO SURFACE WATER NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF SATE ORDER NO R9-2009-0002 NPDES CAG919002.

2. THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATION AND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMMODATE THE INCREASED RATES.

3. ALL GROUND WATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2007-0034 NPDES NO. CAG919001.

SHEET INDEX

TITLE	SHEET		SHEET 1			
NESTO	R CREEK	CHANNEL MMP MAP #133	SHEET 2			
NESTO	R CREEK	CHANNEL MMP MAP #132	SHEET 3			
NESTO	R CREEK	CHANNEL MMP MAP #131	SHEET 4			
MAINTE AND B	ENANCE MI MP NOTES	ETHODOLOGIES	SHEET 5			
MASTE PROTO ENVIRO	R MAINTEI COL REQU NMENTAL	NANCE PROGRAM (MMP) ——— ——— JIREMENTS AND PEIR MITIGATION MEASURES	——— SHEET 6			
TOP	OGRAP	HY SOURCE				
CITY C)F SAN DII	EGO SANGIS 1999 2 FOOT CONTOURS	S, NAVD29			
BEN	CHMAR	SK				
N.W.B ELEV.	.P TOP HE 13.244 M	EADWALL AT 19TH STREET AND DAH .S.L.	LIA AVENUE			
BRAS HOLLI ELEV.	S PLUG A STER STR 31.553 M	T SW CURB RETURN AT INTERSECTI REET AND INGRID AVENUE .S.L.	ON OF			
S.E.B. ELEV.	.P CORNEF 66.97 M.	R OF CORONADO AVENUE AND 27TH S.L.	STREET			
N.W.B FLEV	.P AT INT 75.629 M	ERSECTION OF CORONADO AVENUE A	ND MADDEN AVENUE			
REFI	ERENCE	EDRAWINGS				
IMPRO CITY	VEMENT F OF SAN D	PLANS FOR PLAYA PARQUE NEGO DWG NO.21570-D	NESTOR CITY OF	CREEK DETENTION SAN DIEGO DWG NO	BASIN D. 22424-D	
IMPRO UNIT	VEMENT F 2,CITY OF	PLANS FOR RANCHO DE LA PLAYA F SAN DIEGO DWG NO.17561-D				
PLANS IN BA SAN I	S FOR THE YVIEW DRI DIEGO DWG	E IMPROVEMENT OF CORONADO AVEN IVE-IN THEATRE TRACT NO.2,CITY O 3 NO.8894-D	IUE F			
SOUTI CITY	H BAY REO OF SAN D	CLAMATION SEWER AND PUMP STATI IEGO DWG NO.28690-D	ON			
PLAN WHITN	FOR THE	IMPROVEMENT OF 27TH STREET FO VISION, CITY OF SAN DIEGO DWG NO.	R 14297-D			
IMPRO CITY	VEMENT F OF SAN D	PLANS FOR CREEKSIDE VILLAGE, HEGO DWG NO.27309-D				
PLANS DETEN CITY	S FOR THE NTION BAS OF SAN D	E IMPROVEMENT OF NESTOR CREEK IN-GABION EMBANKMENT PROTECTION IEGO DWG NO.23199-D	I			
PLANS PARK	S FOR THE UNIT NO.	E IMPROVEMENT OF SOUTH BAY INDL 1, CITY OF SAN DIEGO DWG NO. 1719	JSTRIAL 9-D			
		CONSTRUCTION CHAN	GE TABLE		WARNING	The City
HANGE	DATE	EFFECTED OR ADDED SHEET	NUMBERS	APPROVAL NO.	0 1/2 1	
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					IF THIS BAR DOES	
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MAINTENANCE PLANS FOR: NESTOR CREEK CHANNEL MMP MAP#131,132, & 133



STORM WATER PROTECTION NOTES

1.	THIS	PROJECT	IS	SUBJECT	ΤO	MUNICIPAL	STORM	WATER	PERMIT	ORDER
NC)	<u>R9200</u>	70	001	_;	AND RISK	LEVEL	/TYPE: (СНЕСК С	NE BELOW

	AND RISK LEVEL/IYPE: CHECK ONE E
WPCP	,
🗆 CGP RISK LEVEL 1	□ CGP LUP TYPE 1
🗆 CGP RISK LEVEL 2	\Box CGP LUP TYPE 2
🗆 CGP RISK LEVEL 3	\Box CGP LUP TYPE 3

- 2. WDID NO: NOT APPLICABLE 3. CHECK ONE
 - □ THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT,
 - THEREFORE A WEATHER TRIGGERED ACTION PLAN (WTAP) IS REQUIRED. □ THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE (5) ACRES PER PHASE. 🖾 NOT APPLICABLE
- 4. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP
- 5. WATERSHED: ____OTAY___

OR SWPPP AS APPLICABLE.

CARSON P. EDGINGTON

- 6. HYDROLOGIC SUB AREA NAME: __OTAY VALLEY
- 7. HYDROLOGIC SUB AREA NUMBER: _____910.2____

WATER POLLUTION CONTROL PLAN FOR NESTOR CREEK CHANNEL MAINTENANCE PROJECT PREPARED BY: McGRATH CONSULTING PO BOX 2488 EL CAJON, CA. 92021 (619) 443-3811

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DÉSIGN.





5620 FRIARS ROAD SAN DIEGO, CA 92110 (FAX) 619-291-4165



DATE

R.C.E. NO. 76519

STREET DATA TABLE CLASSIFICATION STREET NAME

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO. MAINTENANCE OF CONCRETE & EARTHENED CHANNELS TO REMOVE ACCUMULATED SEDIMENT AND OTHER DEBRIS

STANDARD SPECIFICATIONS: DOCUMENT NO. PITS070112-01

PITS070112-02

PITS070112-04

PITS070112-06 STANDARD DRAWINGS DOCUMENT NO. PITS070112-03

PITS070112-05 CASQA MANUAL

LEGEND

DESCRIPTION

STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2012 EDITION CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2012 EDITION CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2012 EDITION CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECIFICATIONS, 2010 EDITION DESCRIPTION

CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION CALIFORNIA DEPARTMENT OF TRANSPORTION U.S. CUSTOMARY STANDARD PLANS, 2010 EDITION CALIFORNIA STORMWATER QUALITY ASSOCIATION, STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK PORTAL: CONSTRUCTION, JANUARY 2015

<u>SYMBOL</u>

EXISTING IMPROVEMENTS	
ITEM	<u>SYMBOL</u>
EXIST. CONTOURS	
EXIST. CURB INLET EXIST. STORM DRAIN MAIN	₽ SD
EXIST. SEWER MAIN	S
EXIST. WATER MAIN	W
CHANNEL MAINTENANCE AREA	$\frown \checkmark \land $
ACCESS & LOADING AREA	
STAGING AREA	

STORM WATER MANAGEMENT BMPs <u>ITEM</u>

SILT FENCE	SEE	CASQA	MANUAL	SE-1
FIBER ROLLS OR STRAW WATTLES	SEE	CASQA	MANUAL	SE-5
STREET SWEEPING AND VACUUMING DAILY	- SEE	CASQA	MANUAL	SE-7
SANDBAG BARRIER	SEE	CASQA	MANUAL	SE-8
STORM DRAIN INLET PROTECTION	- SEE	CASQA	MANUAL	SE-10
SCHEDULING	SEE	CASQA	MANUAL	EC-1
PRESERVE EXISTING VEGETATION	SEE	CASQA	MANUAL	EC-2
SPILL PREVENTION AND CONTROL	SEE	CASQA	MANUAL	WM-4
SOLID WASTE MANAGEMENT	SEE	CASQA	MANUAL	WM-5
LIQUID WASTE MANAGEMENT	SEE	CASQA	MANUAL	WM-10
HAZARDOUS WASTE MANAGEMENT	SEE	CASQA	MANUAL	WM-6
STOCKPILE MANAGEMENT	SEE	CASQA	MANUAL	WM-3
MATERIAL DELIVERY AND STORAGE	SEE	CASQA	MANUAL	WM-1
MATERIAL USE	SEE	CASQA	MANUAL	WM-2
ILLICIT DISCHARGE/ ILLEGAL DUMPING REPORTING	SEE	CASQA	MANUAL	NS-6
WATER CONSERVATION PRACTICE	SEE	CASQA	MANUAL	NS-1
DEWATTERING OPERATIONS	SEE	CASQA	MANUAL	NS-2
(NOT ALL WILL BE GRAPHICALLY ILLUSTRATED WITHIN	SITE	MAPS)		

CONSTRUCTION SITE STORM WATER PRIORITY: LOW

TITLE S	EL 33				
CI' TRA	LY OF NSPORTA	I.O. NO P.T.S NO			
FOR CITY	ENGINEEF	ξ	DATE		V.T.M
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	REC				XXXX-XXXX
					NAD83 COORDINATES
AS-BUILTS					XXX-XXXX LAMBERT COORDINATES
CONTRACTOR INSPECTOR		DATE STARTE	ED		-1-D

PEED IPH)	ADT (VEHICLES)	R/W (FT)	







FACILITY/CHANNEL	NESTOR CREEK CHANNEL REACH 11 &	12 (W/O 1247 30TH STREET)			
DIMENSIONS	<u>NESTOR CREEK CHANNEL</u> TRAPAZOIDAL, CONCRETE-LINED 1000' LENGTH APPROX. 18-31' TOP WIDTH 6-10' BOTTOM WIDTH 6-8' IN DEPTH 6-36" OF SEDIMENT 110 - 1120 CUBIC YARDS MAXIMUM CUBIC YARDS: 1120	TRAPEZOIDAL, SOIL LINED 150' LENGTH APPROX. 18-31' TOP WIDTH 6-10' BOTTOM WIDTH 6-8' IN DEPTH 6-36" OF SEDIMENT 20-170 CUBIC YARDS MAXIMUM CUBIC YARDS: 170			
MAINTENANCE METHOD	MECHANIZED SEDIMENT & VEGETATION REN	10VAL			
EQUIPMENT (EQUIPMENT WILL BE EQUIVALENT OR SMALLER IN SIZE/TYPE)	 * EXCAVATOR (CAT 345) * TRACK STEER (CAT 289S) * DUMP TRUCKS (10/12 YD) * 6"PUMPS OR SMALLER * FRONT END LOADER (CAT 950) 				
SCHEDULE	IN-CHANNEL WORK WILL TAKE 14 DAYS - 7	DAYS A WEEK; 6:00 AM TO 6:00 PM;			
	DEPARTMENT (PUD)/ STREET DIVISION ON	WEEKENDS/HOLIDAYS)			
MAINTENANCE PROCEDURE					
CHANNEL SEQUENCE	(STATION 10+00.00 TO STATION 21+33.73)				
ACCESS & LOADING AREA(S)	<u>NESTOR CREEK CHANNEL</u> ACCESS & LOADING - FRONT END LOADER/T CHANNEL VIA EXCAVA METHOD (STRAPS/CAB	RACK STEER ENTER/EXIT(S) TOR BY MEANS OF LIFTING/HOISTING LES/CHAINS).			
	AT ACCESS AREA.	FROM SIDE OF CHANNEL			
STAGING AREA	FRONT END LOADER/TRACK STEER AND EX IN VACANT EARTHEN LOT THAT IS PART (WILL BE HAULED IMMEDIATELY TO STAGING SITE.	CAVATOR WILL BE STAGED ON SITE DF ACCESS AREA. ALL MATERIALS G AREA 'B'/ A LEGAL DISPOSAL			
METHODOLOGY	1. INSTALL PUMPS AND CHECK DAMS TO FA WORK AREA. INSTALL PUMP ADJACENT TO PORTION OF NESTOR CHANNEL. PUMP WATE HOSE(S) TO LOCATION(S) DOWNSTREAM AND WESTERN LIMIT OF THE PROJECT.	ACILITATE THE DEWATERING OF WATER PRESENT IN EASTERN R WESTWARD THROUGH TEMPORARY POSSIBLY JUST BEYOND THE			
	IF NEEDED, CONTINUE PUMPING ACTIVITIES TRANSPORT WATER FROM WORK AREA DOW AREA	DURING MAINTENANCE TO NSTREAM BEYOND END OF WORK			
	2. FRONT END LOADER/TRACK STEER ENTE BY MEANS OF LIFTING/HOISTING FROM AC	R/EXIT(S) CHANNEL VIA EXCAVATOR CESS & LOADING AREA.			
	3. FRONT END LOADER/TRACK STEER PUSH CHANNEL TO EXCAVATOR.	ES DEBRIS FROM LENGTH OF			
	4. EXCAVATOR STATIONED OUTSIDE THE CH AREA.	ANNEL WITHIN ACCESS & LOADING			
	5. EXCAVATOR SCOOPS MATERIAL & LOADS MATERIAL INTO WAITING DUMP TRUCK LOCATED ALONG ACCESS AND LOADING AREA.				
	6. DUMP TRUCKS HAUL MATERIAL TO STAG SITE.	ING AREA 'B'/ A LEGAL DISPOSAL			
	7. FRONT END LOADER/TRACK STEER EXITS	S CHANNEL.			
POST-MAINTENANCE	1. DEMOBILIZE EQUIPMENT. 2. REMOVE TEMPORARY CONSTRUCTION BMP	'S.			
OTHER NOTES	1. SWEEPERS WILL SWEEP ADJACENT PUBLI LOADING SITES NIGHTLY.	C RIGHTS-OF-WAY AND IMMEDIATE TRUCK			
	2.EQUIPMENT FUELED OUTSIDE CHANNEL & OF US/STATE.	LOCATED AT LEAST 150' FROM WATERS			

WILL BE RESPONSIBLE FOR IMPLEMENTING THE WATER POLLUTION CONTROL PLAN (WPCP). ALL WORK SHALL BE COMPLETED BETWEEN SEPTEMBER 15TH AND FEBRUARY 15TH UNLESS AN EXTENSION IS GRANTED IN CONFORMANCE WITH ALL APPLICABLE PERMITS.

2. CONTRACTOR WILL LIMIT ALL CONSTRUCTION RELATED ACTIVITIES TO THE PROJECT FOOTPRINT.

3. EXISTING VEGETATION TO BE PRESERVED IN PLACE SHALL BE CLEARLY MARKED WITH A BUFFER AREA FOLLOWING THE GUIDANCE OF BMP FACT SHEET EC-2.

4.CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUCH ON STREETS AND OTHER PAVED SURFACES DUE TO EXCAVATION ACTIVITIES.STREET SWEEPING AND VACUUMING WILL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET SE-7.

5. WEATHER TRIGGERED ACTION PLAN SHALL BE IMPLEMENTED WHEN THERE IS A FORECASTED 50% OR GREATER CHANCE OF LIKELY PRECIPITATION OF 0.1 INCH OR GREATER BY THE NATIONAL WEATHER SERVICE FORECAST.

6. CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER AFTER EACH RUNOFF -PRODUCING RAINFALL.

7. TEMPORARY EROSION OR SEDIMENT CONTROL MEASURES WILL BE REMOVED UPON COMPLETION OF MAINTENANCE UNLESS THEIR REMOVAL WOULD RESULT IN GREATER ENVIRONMENTAL IMPACT THAN LEAVING THEM IN PLACE.

8. HAZARDOUS MATERIALS USED DURING MAINTENANCE WILL NOT BE STORED WITHIN 50 FEET FROM STORM WATER FACILITIES. HAZARDOUS MATERIALS SHALL BE MANAGED AND STORED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. A REGISTERED FIRST-RESPONSE, PROFESSIONAL HAZARDOUS MATERIALS CLEAN-UP/REMEDIATION SERVICE SHALL BE LOCALLY AVAILABLE ON CALL.

9. THE TREATMENT, STORAGE, AND DISPOSAL OF WASTEWATER DURING THE LIFE OF THE PROJECT MUST BE DONE IN ACCORDANCE WITH WASTE DISCHARGE REQUIREMENTS ESTABLISHED BY THE SAN DIEGO WATER BOARD PURSUANT TO CWC 13260.

10. SPILLS SHALL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET WM-4. SPILL CLEANUP MATERIALS SHALL BE AVAILABLE ONSITE AT ALL TIMES. 11. THE CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO EXTINGUISH SMALL BRUSH FIRES (FROM SPARKING

VEHICLES, ETC.) ON-SITE DURING ALL PHASES OF PROJECT ACTIVITIES, ALONG WITH TRAINED PERSONNEL FOR USE OF SUCH EQUIPMENT. 12. THE CONTRACTOR SHALL MONITOR THE 5 DAY WEATHER FORECAST.IF ANY PRECIPITATION IS FORECASTED, THE SITE SHALL BE SECURED TO PREVENT ANY CONSTRUCTION RELATED MATERIALS FROM LEAVING THE SITE AND ENTERING THE CHANNELS.NO CONSTRUCTION ACTIVITIES SHALL OCCUR DURING RAIN EVENTS.

13. SAMPLING AND ANALYSIS, MONITORING AND REPORTING, AND POST-MAINTENANCE MANAGEMENT OF THE PROJECT SHALL BE CONDUCTED AS DETERMINED NECESSARY BY THE CITY OF SAN DIEGO. 14.CHANNELS WILL BE INSPECTED WITHIN 72 HOURS OF THE FIRST 2-YEAR STORM FOLLOWING MAINTENANCE.IF SUBSTANTIAL EROSION HAS OCCURRED,EROSION CONTROL MEASURES RECOMMENDED BY THE FIELD ENGINEER WILL BE IMPLEMENTED TO REMEDIATE EROSION AREAS AND TO MINIMIZE FUTURE EROSION.



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J-17204-C

NESTOR CREEK CHANNEL	MMP	MAP	NO.	132
IMP MAINTENANCE METH	ODOL	.OGY	TAB	LE

FACILITY/CHANNEL	NESTOR CREEK CHANNEL REACH 9 (GROVE AVENUE BETWEEN 25TH AND 27TH STREET)
DIMENSIONS	NESTOR CREEK CHANNEL RECTANGLE EARTHEN BOTTOM, CONCRETE SIDES 1110' LENGTH APPROX. 29-34' TOP WIDTH 29'-34' BOTTOM WIDTH MAXIMUM CUBIC YARDS REMOVED: 0
MAINTENANCE METHOD	MECHANIZED VEGETATION REMOVAL
EQUIPMENT (EQUIPMENT WILL BE EQUIVALENT OR SMALLER IN SIZE/TYPE)	* EXCAVATOR (CAT 345) * TRACK STEER (CAT 289S)/BULLDOZER * DUMP TRUCKS (10/12 YD) * PUMPS 6″OR SMALLER * FRONT END LOADER (CAT 950) * TREE CHIPPER
SCHEDULE	IN-CHANNEL WORK WILL TAKE 14 DAYS - 7 DAYS A WEEK; 6:00 AM TO 6:00 PM;
STAFFING	8 TO 12 PEOPLE
MAINTENANCE PROCEDURE	
CHANNEL SEQUENCE	<u>1. NESTOR CREEK CHANNEL (NORTH OF GROVE AVENUE)</u> (STATION 10+00 TO 15+38.64) <u>2. NESTOR CREEK CHANNEL (NORTH OF GROVE AVENUE)</u> (STATION 100+00.00 TO 104+42.91)
ACCESS & LOADING	NESTOR CREEK CHANNEL
AREA(S)	ACCESS & LOADING - DOZER ENTER/EXIT(S) CHANNEL VIA
	LOADING AREA - EXCAVATOR LOADS TRUCKS FROM ABOVE CHANNEL ALONG ESTABLISHED LOADING AREA.
STAGING AREA	ALL EQUIPMENT WILL BE STAGED ON SITE ON PAVED AREA OR IN VACANT EARTHEN LOT ADJACENT TO ACCESS AREA.ALL MATERIALS WILL BE HAULED IMMEDIATELY TO STAGING A LEGAL DISPOSAL SITE (MIRAMAR LANDFILL)
METHODOLOGY	1.INSTALL PUMPS AND CHECK DAMS TO FACILITATE THE DEWATERING OF WORK AREA.INSTALL PUMP ADJACENT TO WATER PRESENT IN EASTERN PORTION OF NESTOR CHANNEL.PUMP WATER WESTWARD THROUGH TEMPORARY HOSE(S) TO LOCATION(S) DOWNSTREAM AND POSSIBLY JUST BEYOND THE WESTERN LIMIT OF THE PROJECT.IF NEEDED, CONTINUE PUMPING ACTIVITIES DURING MAINTENANCE TO TRANSPORT WATER FROM WORK AREA DOWNSTREAM BEYOND END OF WORK AREA.
	2.FRONT END LOADER/TRACK STEER/EXCAVATOR/BULLDOZER ENTER/EXIT(S) CHANNEL AT ACCESS AND LOADING AREA.
	3. FRONT END LOADER/TRACK STEER/EXCAVATOR/BULLDOZER PUSHES VEGETATION FROM LENGTH OF CHANNEL TO EXCAVATOR.
	4.FRONT END LOADER/TRACK STEER/EXCAVATOR/BULLDOZER SCOOPS MATERIAL AND LOADS MATERIAL INTO WAITING DUMP TRUCKS,LOCATED AT BOTTOM OFACCESS RAMPS.
	5. DUMP TRUCKS HAUL MATERIAL TO LEGAL DISPOSAL SITE.
	6. FRONT END LOADER/TRACK STEER/EXCAVATOR/BULLDOZER EXIT CHANNEL
	7. DRY WEATHER DIVERSION BERM, DIVERSION PUMP(S) AND HOSES.
POST-MAINTENANCE	1. DEMOBILIZE EQUIPMENT. 2. REMOVE TEMPORARY CONSTRUCTION BMPS.
OTHER NOTES	1. SWEEPERS WILL SWEEP ADJACENT PUBLIC RIGHTS-OF-WAY AND IMMEDIATE TRUCK LOADING SITES NIGHTLY.
	2. EQUIPMENT FUELED OUTSIDE CHANNEL & LOCATED AT LEAST 150' FROM WATERS OF US/STATE.
	3. DEWATERING PUMP(S) MAY BE USED AT VARIOUS LOCATIONS TO REMOVE PONDED WATER PRIOR TO EQUIPMENT ENTERING THE CHANNEL.WATER WILL BE DISCHARGED JUST WEST OF THE PROJECT MAINTENANCE LIMITS.

MAINTENANCE BMPs (CONT.)

15. CONTRACTOR SHALL PROVIDE TRAINING FOR ALL PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ONSITE BMPs.

16. THE QUALIFIED CONTACT PERSON WILL ASSIGN A MONITOR FOR DAILY INSPECTION OF THE BMP'S EACH MORNING. THE MONITOR WILL CHECK THE NATIONAL WEATHER SERVICE FORECAST, COMPLETE BMP INSPECTION CHECKLIST, PERFORM ANY NECESSARY BMP MAINTENANCE/REPAIRS, AND REPORT THE RESULTS TO THE QUALIFIED CONTACT PERSON. COMPLETED INSPECTION CHECKLIST WILL BE KEPT WITH THE WPCP.

17. PREVIOUSLY UNDISTURBED STAGING AREAS WILL BE REVEGETATED WITHIN 30 DAYS OF COMPLETION OF MAINTENANCE ACTIVITIES. THE REVEGETATED AREAS WILL BE MONITORED FOR A PERIODS OF NOT LESS THAN 25 MONTHS AFTER PLANTING.

18. FINAL LOCATION OF CHANNEL CENTERLINE WILL BE DETERMINED IN THE FIELD AND COORDINATED WITH THE NECESSARY PROJECT SPECIALIST (BIOLOGIST, HISTORICAL MONITOR, ETC.)

<u>NES</u> IMF	TOR CREEK CHANNEL MMP MAP NO. 133 P MAINTENANCE METHODOLOGY TABLE	
FACILITY/CHANNEL	NESTOR CREEK CHANNEL REACH 4 (N/O CORONADO AVENUE TO ELM	AVENUE)
DIMENSIONS	NESTOR CREEK CHANNEL TRAPEZOIDAL, SOIL-LINED 1340' LENGTH APPROX. 47-68' TOP WIDTH 32-42' BOTTOM WIDTH 5-9' IN DEPTH 3-30" OF SEDIMENT 400-5200 CUBIC YARDS MAXIMUM CUBIC YARDS: 5400	
MAINTENANCE METHOD	MECHANIZED SEDIMENT & VEGETATION REMOVAL	
EQUIPMENT (EQUIPMENT WILL BE EQUIVALENT OR SMALLER IN SIZE/TYPE)	 DOZER (CAT D6) EXCAVATOR (CAT 345) TRACK STEER (CAT 289S) DUMP TRUCKS (10/12 YD) PUMPS 6"OR SMALLER LONG REACH EXCAVATOR (CAT 330) 	
SCHEDULE STAFFING	IN-CHANNEL WORK WILL TAKE 14 DAYS - 7 DAYS A WEEK; 6:00 AM TO 6 10 TO 20 PEOPLE (EXTRA TRUCKING SUPPORT FROM PUBLIC UTILITIES	:00 PM;
MAINTENANCE PROCEDURE CHANNEL SEQUENCE	DEPARTMENT (PUD)/ STREET DIVISION ON WEEKENDS/HOLIDAYS) 1. NESTOR CREEK CHANNEL (NORTH OF CORONADO AVENUE) (STATION 22+93.17) 2. NESTOR CREEK CHANNEL (SOUTH OF ELM AVENUE) (STATION 10+00.00)	
ACCESS & LOADING AREA(S)	NESTOR CREEK CHANNEL ACCESS & LOADING - DOZER ENTER/EXIT(S) CHANNEL VIA ESTABLISHED EARTHEN ACCESS RAMPS. LOADING AREA - EXCAVATOR LOADS TRUCKS FROM ABOVE CHANNEL ALONG ESTABLISHED LOADING AREA.	
STAGING AREA	ALL EQUIPMENT WILL BE STAGED ON SITE (ON ACCESS RAMPS)FOR THE DURATION OF THE PROJECT. ALL MATERIALS WILL BE HAULED IMMEDIATE TO STAGING AREA 'B'/ A LEGAL DISPOSAL SITE.	LY
METHODOLOGY	1. INSTALL PUMPS AND CHECK DAMS TO FACILITATE THE DEWATERING OF WORK AREA (IF NEEDED ONLY). INSTALL PUMP ADJACENT TO WATER PRES IN SOUTHERN PORTION OF NESTOR CHANNEL. PUMP WATER NORTHWARD THROUGH TEMPORARY HOSE(S) TO LOCATION(S) DOWNSTREAM AND POSSIBL JUST BEYOND THE NORTHLY LIMIT OF THE PROJECT.	ENT Y
	IF NEEDED, CONTINUE PUMPING ACTIVITIES DURING MAINTENANCE TO TRANSPORT WATER FROM WORK AREA DOWNSTREAM BEYOND END OF WOR AREA	к
	2. DOZER ENTER/EXIT(S) CHANNEL FROM R.O.W. BY MEANS VIA ESTABLISHE ACCESS RAMPS	ED
	4. EXCAVATOR STATIONED OUTSIDE THE CHANNEL WITHIN ACCESS & LOAD AREA.	DING
	5. EXCAVATOR SCOOPS MATERIAL & LOADS MATERIAL INTO WAITING DUM TRUCK LOCATED ALONG ACCESS AND LOADING AREA (SEE AVAILABLE OPT BELOW).	P FIONS
	6. DUMP TRUCKS HAUL MATERIAL TO STAGING AREA 'B'/ A LEGAL DISPO SITE.	SAL
	OPTION ONE:	
	* WITH LONG ARM CAT 345 EXCAVATOR 1)MATERIALS WILL INITIALLY BE REMOVED FROM WESTERN PORTIONS OF CHANNEL WITH THE CAT 345 EXCAVATOR 2)MATERIALS FROM THE EASTERN PORTION OF THE CHANNEL WILL BE PULLED/SHUTTLEDTO THE WESTERN BANKS OF THE CHANNEL WITH THE C 330 LONG REACH 3)MATERIALS WILL BE LOADED ONTO WAITING TRUCKS WITH THE CAT 345 EXCAVATORTRUCKS HAUL MATERIALS TO STAGING AREA 'B'/LEGAL DISPO SITE	THE AT 5 SAL
	OPTION TWO: *WITHOUT LONG ARM CAT 345 EXCAVATOR 1)DOZER ENTERS CHANNEL AND PUSHES MATERIALS TO CAT 345 EXCAVAT 2)CAT 345 EXCAVATOR LOADS MATERIALS ONTO WITING TRUCKS	TOR
POST-MAINTENANCE	1. DEMOBILIZE EQUIPMENT.	
OTHER NOTES	1. SWEEPERS WILL SWEEP ADJACENT PUBLIC RIGHTS-OF-WAY AND IMMEDIA	ATE TRUCK
	2. EQUIPMENT FUELED OUTSIDE CHANNEL & LOCATED AT LEAST 150' FRO OF US/STATE.	M WATERS
	ENGINEER OF WORK	ROFESS/ONAL P. EDGINGINEER NO. 76519
	CARSON P. EDGINGTON R.C.E. 76519 DATE	OF CALIFOUR
	MAINTENANCE METHODOLOGY TABLES NESTOR CREEK CHANNE MMP MAP #131,132 & 133	; FOR: L 3
	CITY OF SAN DIEGO, CALIFORNIA TRANSPORTATION AND STORMWATER DEPARTMENT SHEET 5 OF 6 SHEETS	I.O. NO P.T.S NO
	FOR CITY ENGINEER DATE	V.T.M
	DESCRIPTIONBYAPPROVEDDATEFILMEDORIGINALRECImage: State S	<pre> XXXX-XXXX NAD83 COORDINATES XXX-XXXX </pre>
	AS-BUILTS DATE STARTED	LAMBERT COORDINATES
	DATE COMPLETED	

MASTER MAINTENANCE	PROGRAM (MMP)) PROTOCOL	REQUIREMENTS:

1. BIO-1: RESTRICT VEHICLES TO ACCESS DESIGNATED IN THE MMP.

- 2. BIO-2: FLAG AND DELINEATE ALL SENSITIVE BIOLOGICAL RESOURCES TO REMAIN WITHIN OR ADJACENT TO MAINTENANCE AREA PRIOR TO INITIATION OF MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE SITE SPECIFIC INDIVIDUAL BIOLOGICAL ASSESSMENT (IBA), INDIVIDUAL HYDROLOGY AND HYDRAULIC ASSESSMENT (IHHA), AND/OR INDIVIDUAL MAINTENANCE PLAN (IMP) PREPARED FOR THE WORK.
- 3. BIO-3: CONDUCT A PRE-MAINTENANCE MEETING ON SITE PRIOR TO THE START OF ANY MAINTENANCE ACTIVITY THAT OCCURS WITHIN OR ADJACENT TO SENSITIVE BIOLOGICAL RESOURCES. THE PRE-MAINTENANCE MEETING SHALL INCLUDE A QUALIFIED BIOLOGIST, FIELD ENGINEER, PLANNER, EQUIPMENT OPERATORS/SUPERINTENDENT AND OTHER KEY PERSONNEL CONDUCTING OR INVOLVED IN CHANNEL MAINTENANCE ACTIVITIES. THE QUALIFIED BIOLOGIST SHALL POINT OUT OR IDENTIFY SENSITIVE BIOLOGICAL RESOURCES TO BE AVOIDED DURING MAINTENANCE, FLAG/DELINEATE SENSITIVE RESOURCES TO BE AVOIDED, REVIEW SPECIFIC MEASURES TO PROTECT SENSITIVE BIOLOGICAL RESOURCES AS NECESSARY. THE BIOLOGIST SHALL ALSO REVIEW THE PROPOSED EROSION CONTROL METHODS TO CONFIRM THEY WILL NOT POSE RISK TO WILDLIFE (E.G., NON-BIODEGRADABLE BLANKETS MAY ENTANGLE WILDLIFE).
- 4. BIO-4: AVOID THE INTRODUCTION OF INVASIVE PLANT SPECIES WITH PHYSICAL EROSION CONTROL MEASURES.
- 5. BIO-5: CONDUCT APPROPRIATE PRE-MAINTENANCE SURVEYS IF MAINTENANCE IS PROPOSED DURING THE BREEDING SEASON OF A SENSITIVE ANIMAL SPECIES (JANUARY 15 TO AUGUST 31). IF SENSITIVE ANIMAL SPECIES COVERED BY THE PROGRAM ENVIRONMENTAL IMPACT REPORT (PEIR) ARE IDENTIFIED, THEN APPLICABLE MEASURES FROM THE MITIGATION MONITORING AND REPORTING PLAN (MMRP) SHALL BE IMPLEMENTED UNDER THE DIRECTION OF A QUALIFIED BIOLOGIST TO AVOID SIGNIFICANT DIRECT AND/OR INDIRECT IMPACTS TO IDENTIFIED SENSITIVE ANIMAL SPECIES. IF SENSITIVE ANIMAL SPECIES ARE IDENTIFIED DURING PRE-MAINTENANCE SURVEYS THAT ARE NOT COVERED BY THE PEIR, SWD SHALL CONTACT THE APPROPRIATE WILDLIFE AGENCIES AND ADDITIONAL ENVIRONMENTAL REVIEW UNDER CEQA WILL BE REQUIRED.
- 6. BIO-6: REMOVE ARUNDO THROUGH ONE, OR A COMBINATION OF, THE FOLLOWING METHODS;(1) FOLIAR SPRAY (SPRAYING HERBICIDE ON LEAVES AND STEMS WITHOUT CUTTING FIRST) WHEN ARUNDO OCCURS IN MONOTYPIC STANDS, OR (2) CUT AND PAINT (CUTTING STEMS CLOSE TO THE GROUND AND SPRAYING OR PAINTING HERBICIDE ON CUT STEM SURFACE) WHEN ARUNDO IS INTERMIXED WITH NATIVE PLANTS. WHEN SEDIMENT SUPPORTING ARRUNDO MUST BE REMOVED, THE SEDIMENT SHALL BE EXCAVATED TO A DEPTH SUFFICIENT TO REMOVE THE RHIZOMES, WHEREVER FEASIBLE. FOLLOWING REMOVAL OF SEDIMENT CONTAINING RHIZOMES, LOOSE RHIZOME MATERIAL SHALL BE REMOVED FROM THE CHANNEL AND DISPOSED OFFSITE. AFTER THE INITIAL TREATMENT, THE AREA OF REMOVAL SHALL BE INSPECTED ON A QUARTERLY BASIS FOR UP TWO YEARS, OR UNTIL NO RESPROUTING IS OBSERVED DURING AN INSPECTION. IF RESPROUTING IS OBSERVED, THE CUT AND PAINT METHOD SHALL BE APPLIED TO ALL RESPROUTS.
- 7. BIO-7: AVOID MECHANIZED MAINTENANCE WITHIN 300 FEET OF A COOPER'S HAWK NEST, 900 FEET OF A NORTHERN HARRIER'S NEST, OR 500 FEET OF ANY OTHER RAPTOR'S NEST UNTIL ANY FLEDGLINGS HAVE LEFT THE NEST.
- 8. WM-1: DISPOSE AND TRANSPORT COMPOSTABLE GREEN WASTE MATERIAL TO AN APPROVED COMPOSTING FACILITY, IF AVAILABLE.
- 9. WM-2: RE-USE EXCAVATED MATERIAL, WHENEVER POSSIBLE, AS FILL MATERIAL, AGGREGATE SAND REPLENISHMENT, OR OTHER RAW MATERIAL USES.RE-USED MATERIAL (AGGREGATES, SOIL, SAND OR SILT) SHALL BE DOCUMENTED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- 10. WM-3: SEPARATE WASTE TIRES FROM EXCAVATED MATERIAL AND TRANSPORT THEM TO AN APPROPRIATE DISPOSAL FACILITY. IF MORE THAN NINE TIRES ARE IN A VEHICLE OR WASTE BIN AT ANY ONE TIME, THEY SHALL BE TRANSPORTED UNDER A COMPLETED COMPREHENSIVE TRIP LOG (CTL) TO DOCUMENT THAT THE TIRES WERE TAKEN TO AN APPROPRIATE DISPOSAL FACILITY.
- 11. WM-4: LOG AND TRANSPORT ANY HAZARDOUS MATERIALS ENCOUNTERED DURING MAINTENANCE TO A HAZARDOUS WASTE STORAGE, RECYCLING, TREATMENT OR DISPOSAL FACILITY. PERSONNEL HANDLING HAZARDOUS MATERIALS SHALL HAVE THE APPROPRIATE TRAINING TO HANDLE, STORE, TRANSPORT, AND/OR DISPOSE THE MATERIAL. HAZARDOUS MATERIALS (E.G., MACHINE OIL, MERCURY SWITCHES, AND REFRIGERANT GASES) SHALL BE REMOVED FROM APPLIANCES AND DISPOSED IN ACCORDANCE WITH THIS PROTOCOL.
- 12. WQ-2: PREVENT OFF-SITE SEDIMENT TRANSPORT DURING MAINTENANCE THROUGH THE USE OF EROSION AND SEDIMENT CONTROLS WITHIN STORM WATER FACILITIES, ALONG ACCESS ROUTES AND AROUND STOCKPILE/STAGING AREAS. INSTALL BMPS SUCH AS SILT FENCES, FIBER ROLLS; GRAVEL BAGS; TEMPORARY SEDIMENT BASINS; STABILIZED MAINTENANCE ACCESS POINTS (E.G., SHAKER PLATES); CONTAINMENT BARRIERS (E.G., SILT FENCE, FIBER ROLLS AND/OR BERMS) FOR MATERIAL STOCKPILES; AND PROPERLY FITTED COVERS FOR MATERIAL TRANSPORT VEHICLES. REMOVE TEMPORARY EROSION OR SEDIMENT CONTROL MEASURES UPON COMPLETION OF MAINTENANCE UNLESS THEIR REMOVAL WOULD RESULT IN GREATER ENVIRONMENTAL IMPACT THAN LEAVING THEM IN PLACE.
- 13. WQ-3: STORE BMP MATERIALS ON-SITE TO PROVIDE COMPLETE PROTECTION OF EXPOSED AREAS AND PREVENT OFF-SITE SEDIMENT TRANSPORT.
- 14. WQ-4: PROVIDE TRAINING FOR PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ON-SITE BMPS.
- 15. WQ-7: AVOID STORING HAZARDOUS MATERIALS USED DURING MAINTENANCE WITHIN 50 FEET FROM STORM WATER FACILITIES. HAZARDOUS MATERIALS SHALL BE MANAGED AND STORED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- 16. WQ-8: STORE MAINTENANCE-RELATED TRASH IN AREAS AT LEAST 50 FEET FROM STORM WATER FACILITIES, AND REMOVE ANY TRASH RECEPTACLES REGULARLY (AT LEAST WEEKLY).
- 17.WQ-10: INSPECT EARTHEN-BOTTOM STORM WATER FACILITIES WITHIN 30 DAYS OF THE FIRST 2-YEAR STORM FOLLOWING MAINTENANCE.IMPLEMENT EROSION CONTROL MEASURES RECOMMENDED BY THE FIELD ENGINEER, SUCH AS FIBER BLANKETS, TO REMEDIATE SUBSTANTIAL EROSION WHICH HAS OCCURRED AND TO MINIMIZE FUTURE EROSION.

PEIR ENVIRONMENTAL MITIGATION MEASURES

GENERAL MITIGATION MEASURE 1 OF THE MITIGATION MONITORING AND REPORTING PROGRAM (MMRP) ADOPTED FOR THE MMP REQUIRES ALL OF THE MITIGATION MEASURES IDENTIFIED IN THE PROGRAM EIR (PEIR) BE INCLUDED WITH THE MAINTENANCE DOCUMENTS AND CONTRACT SPECIFICATIONS FOR EACH MAINTENANCE ACTIVITY. TO FULFILL THIS REQUIREMENT, THE MMRP IS INCLUDED IN ITS ENTIRETY AS ATTACHMENT 1 TO THIS IMP.

ADDITIONAL MAINTENANCE REQUIREMENTS

1. THE CITY SHALL NOTIFY CALIFORNIA DEPARTMENT OF FISH & WILDLIFE (CDFW), IN WRITING, AT LEAST FIVE DAYS PRIOR TO INITIATION OF CONSTRUCTION PRIOR TO COMPLETION OF CONSTRUCTION (PROJECT) ACTIVITIES.NOTIFICATION SHALL BE SENT TO CDFW'S SOUTH COAST OFFICE, ATTN: STREAMBED ALTERATION PROGRAM-SM# 1600-2011-0271-R5.

2. AVOID THE INTRODUCTION OF INVASIVE PLANT SPECIES WITH PHYSICAL EROSION CONTROL MEASURES.

- 3. PRIOR TO COMMENCING ANY MAINTENANCE ACTIVITY WHICH MAY IMPACT SENSITIVE BIOLOGICAL RESOURCES, THE MONITORING BIOLOGIST SHALL VERIFY THAT THE FOLLOWING ACTIONS HAVE BEEN TAKEN, AS APPROPRIATE: -FENCING, FLAGGING, SIGNAGE OR OTHER MEANS TO PROTECT SENSITIVE RESOURCES TO REMAIN AFTER
- MAINTENANCE HAS BEEN IMPLEMENTED;

Riverside - Orange - San Luis Obispo - Bakersfield - Sacramento - Phoenix - Tucsc

- -NOISE ATTENUATION MEASURES NEEDED TO PROTECT SENSITIVE WILDLIFE ARE IN PLACE AND EFFECTIVE; AND/OR
- -NESTING BIRDS HAVE BEEN IDENTIFIED AND NECESSARY MAINTENANCE SETBACKS HAVE BEEN ESTABLISHED IF MAINTENANCE IS TO OCCUR BETWEEN JANUARY 15 AND AUGUST 31.

4. IF ANY WILDLIFE IS ENCOUNTERED DURING THE COURSE OF MAINTENANCE, SAID WILDLIFE SHALL BE ALLOWED TO LEAVE THE MAINTENANCE AREA UNHARMED.





J-17204-C

rickengineering.com

ENGINEER OF WORK



CARSON P. EDGINGTON R.C.E. 76519 DATE

NOTES A	AND [DETAILS FOR	28		
		NESTOR CRE MMP MAP #1	EK CH 131,132	ANNEI 2 & 133	3
TRA	CITY O NSPORTAT	F SAN DIEGO, CALIF(NON AND STORMWATER DE SHEET 6 OF 6 SHEETS)RNIA :partment		I.O.NO P.T.S NO
FOR CITY	ENGINEER		DATE		V.T.M
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	REC				_
					XXXX-XXXX
					NAD83 COORDINATES
					XXX-XXXX
AS-BUILTS					LAMBERT COORDINATES
CONTRACTOR		DATE START	īed		СЛ
INSPECTOR		DATE COMPI	LETED		U_0_

A-2 – Map No. 134

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

3. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.

4. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE CITY OF SAN DIEGO MUNICIPAL CODE AND STORM WATER STANDARDS MANUAL. 5. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC

IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY. SATISFACTORY TO THE PERMIT- ISSUING AUTHORITY.

6. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARK-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO FIELD ENGINEERING DIVISION (858) 627-3200.

7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE CITY INSPECTOR. 8. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY

THE CITY OF SAN DIEGO. 9. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALI COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY, ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT

LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.

GROUND WATER DISCHARGE

1. ALL GROUND WATER EXTRACTION AND SIMILAR WASTE DISCHARGES TO SURFACE WATER NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF SATE ORDER NO R9-2009-0002 NPDES CAG919002.

2. THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATION AND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMMODATE THE INCREASED RATES.

3. ALL GROUND WATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2007-0034 NPDES NO. CAG919001.

NESTOR CREEK DETENTION BASIN

CITY OF SAN DIEGO DWG NO. 22424-D

SHEET INDEX

TITLE SHEET	SHEET	1
NESTOR CREEK CHANNEL MMP MAP #134	SHEET	2
MAINTENANCE METHODOLOGIES	SHEET	3
MASTER MAINTENANCE PROGRAM (MMP) PROTOCOL REQUIREMENTS AND PEIR ENVIRONMENTAL MITIGATION MEASURES	SHEET	4

TOPOGRAPHY SOURCE

CITY OF SAN DIEGO SANGIS 1999 2 FOOT CONTOURS. NAVD29

BENCHMARK

N.W.B.P TOP HEADWALL AT 19TH STREET AND DAHLIA AVENUE ELEV. 13,244 M.S.L.

BRASS PLUG AT SW CURB RETURN AT INTERSECTION OF HOLLISTER STREET AND INGRID AVENUE ELEV. 31.553 M.S.L.

S.E.B.P CORNER OF CORONADO AVENUE AND 27TH STREET ELEV. 66.97 M.S.L.

N.W.B.P AT INTERSECTION OF CORONADO AVENUE AND MADDEN AVENUE

ELEV. 75.629 M.S.L. **REFERENCE DRAWINGS**

IMPROVEMENT PLANS FOR PLAYA PARQUE CITY OF SAN DIEGO DWG NO. 21570-D

IMPROVEMENT PLANS FOR RANCHO DE LA PLAYA UNIT 2, CITY OF SAN DIEGO DWG NO.17561-D

PLANS FOR THE IMPROVEMENT OF CORONADO AVENUE IN BAYVIEW DRIVE-IN THEATRE TRACT NO.2, CITY OF SAN DIEGO DWG NO. 8894-D

SOUTH BAY RECLAMATION SEWER AND PUMP STATION CITY OF SAN DIEGO DWG NO. 28690-D

PLAN FOR THE IMPROVEMENT OF 27TH STREET FOR WHITNEY SUBDIVISION, CITY OF SAN DIEGO DWG NO. 14297-D

IMPROVEMENT PLANS FOR CREEKSIDE VILLAGE, CITY OF SAN DIEGO DWG NO. 27309-D

PLANS FOR THE IMPROVEMENT OF NESTOR CREEK DETENTION BASIN-GABION EMBANKMENT PROTECTION CITY OF SAN DIEGO DWG NO. 23199-D

PLANS FOR THE IMPROVEMENT OF SOUTH BAY INDUSTRIAL PARK UNIT NO. 1, CITY OF SAN DIEGO DWG NO. 17199-D

	WARNING			
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	0 1/2 1
				IF THIS BAR DOES
				NOT MEASURE 1" THEN DRAWING IS
				NOT TO SCALE.



MAINTENANCE PLANS FOR: NESTOR CREEK CHANNEL MMP MAP#134



STORM WATER PROTECTION NOTES

1.	THIS	PROJECT	IS	SUBJECT	ΤO	MUNICIPAL	STORM	WATER	PERMIT	ORDER	
NO		R9200	70	201	_:	AND RISK	LEVEL/	TYPE: (СНЕСК О	NE BELOV	N

	AND KISP	\ LEVEL		UNEUN	UNE	D
WPCP			,			
🗆 CGP RISK LEVEL 1			CGP LU	IP TYPE	. 1	
🗆 CGP RISK LEVEL 2			CGP LU	IP TYPE	2	
🗆 CGP RISK LEVEL 3			CGP LU	IP TYPE	3	

- 2. WDID NO: NOT APPLICABLE 3. CHECK ONE
 - □ THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT.
 - THEREFORE A WEATHER TRIGGERED ACTION PLAN (WTAP) IS REQUIRED. □ THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE (5) ACRES PER PHASE.
- 🖾 NOT APPLICABLE
- 4. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP OR SWPPP AS APPLICABLE.
- 5. WATERSHED: ____OTAY___

CARSON P. EDGINGTON

- 6. HYDROLOGIC SUB AREA NAME: __OTAY VALLEY
- 7. HYDROLOGIC SUB AREA NUMBER: _____910.2

WATER POLLUTION CONTROL PLAN FOR NESTOR CREEK CHANNEL MAINTENANCE PROJECT PREPARED BY: McGRATH CONSULTING PO BOX 2488 EL CAJON, CA. 92021 (619) 443-3811

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.



5620 FRIARS ROAD SAN DIEGO, CA 92110 619-291-0707 neering Company (FAX) 619-291-4165



DATE

R.C.E. NO. 76519

STREET DATA TABLE							
STREET NAME	CLASSIFICATION	SPEED (MPH)	(

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO. MAINTENANCE OF CONCRETE & EARTHENED CHANNELS TO REMOVE ACCUMULATED SEDIMENT AND OTHER DEBRIS

STANDARD SPECIFICATIONS: DOCUMENT NO. PITS070112-01

PITS070112-02

PITS070112-04

PITS070112-06 STANDARD DRAWINGS DOCUMENT NO. PITS070112-03

PITS070112-05

CASQA MANUAL LEGEND

DESCRIPTION

STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2012 EDITION CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2012 EDITION CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2012 EDITION CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECIFICATIONS, 2010 EDITION DESCRIPTION CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC

WORKS CONSTRUCTION, 2012 EDITION CALIFORNIA DEPARTMENT OF TRANSPORTION U.S. CUSTOMARY STANDARD PLANS, 2010 EDITION CALIFORNIA STORMWATER QUALITY ASSOCIATION, STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK PORTAL: CONSTRUCTION, JANUARY 2015

<u>SYMBOL</u>

EXISTING IMPROVEMENTS	
ITEM	<u>SYMBOL</u>
EXIST. CONTOURS	
EXIST. LOT LINE	
EXIST. CURB INLET	<u> </u>
EXIST. STORM DRAIN MAIN	
EXIST. SEWER MAIN	S
EXIST. WATER MAIN	W
CHANNEL MAINTENANCE AREA	\sim
ACCESS & LOADING AREA	
STAGING AREA	

STORM WATER MANAGEMENT BMPs ITEM

SILT FENCE	SEE	CASQA	MANUAL	SE-1
FIDER RULLS OR STRAW WATTLES	SEE	CASUA	MANUAL	3E-3
STREET SWEEPING AND VACUUMING DAILY	- SEE	CASQA	MANUAL	SE-7
SANDBAG BARRIER	SEE	CASQA	MANUAL	SE-8
STORM DRAIN INLET PROTECTION	- SEE	CASQA	MANUAL	SE-10
SCHEDULING	SEE	CASQA	MANUAL	EC-1
PRESERVE EXISTING VEGETATION	SEE	CASQA	MANUAL	EC-2
SPILL PREVENTION AND CONTROL	SEE	CASQA	MANUAL	WM-4
SOLID WASTE MANAGEMENT	SEE	CASQA	MANUAL	WM-5
LIQUID WASTE MANAGEMENT	SEE	CASQA	MANUAL	WM-10
HAZARDOUS WASTE MANAGEMENT	SEE	CASQA	MANUAL	WM-6
STOCKPILE MANAGEMENT	SEE	CASQA	MANUAL	WM-3
MATERIAL DELIVERY AND STORAGE	SEE	CASQA	MANUAL	WM-1
MATERIAL USE	SEE	CASQA	MANUAL	WM-2
ILLICIT DISCHARGE/ ILLEGAL DUMPING REPORTING	SEE	CASQA	MANUAL	NS-6
WATER CONSERVATION PRACTICE	SEE	CASQA	MANUAL	NS-1
DEWATTERING OPERATIONS	SEE	CASQA	MANUAL	NS-2
(NOT ALL WILL BE GRAPHICALLY ILLUSTRATED WITHIN	SITE	MAPS)		

CONSTRUCTION SITE STORM WATER PRIORITY: LOW MATNEESHOEE PORNS FOR: **NESTOR CREEK CHANNEL** MMP MAP #134 CITY OF SAN DIEGO. CALIFORNIA . NO. TRANSPORTATION AND STORMWATER DEPARTMENT P.T.S NO._ SHEET 1 OF 4 SHEETS .Т.М. FOR CITY ENGINEER DESCRIPTION BY APPROVED DATE FILMED ORIGINAL REC XXXX-XXXX ADT R/W (VEHICLES) (FT) NAD83 COORDINATES XXX-XXXX AMBERT COORDINATES AS-BUILTS _ DATE STARTED. CONTRACTOR NSPECTOR _ _ DATE COMPLETED.



) 2017 Rick Engineering Compar

<u>NES</u> IM	TOR CREEK CHANNEL MMP MAP NO. 134 P MAINTENANCE METHODOLOGY TABLE
FACILITY/CHANNEL	NESTOR CREEK CHANNEL REACH 1 (NORTH OF PALM AVE, WEST OF THERMAL AV AND SOUTH OF CEDAR STREET)
DIMENSIONS	RECTANGULAR, CONCRETE-LINEDTRAPEZOIDAL, RIP RAP AND SOIL LINED535' LENGTH65' LENGTH28' TOP WIDTH28' TOP WIDTH28' BOTTOM WIDTH16.5'-28' BOTTOM WIDTH8-9' IN DEPTH7-9' IN DEPTH6"-12" OF SEDIMENT6"-12" OF SEDIMENT270-560 CUBIC YARDS20-70 CUBIC YARDSMAXIMUM CUBIC YARDS: 600MAXIMUM CUBIC YARDS: 200
MAINTENANCE METHOD	MECHANIZED SEDIMENT & VEGETATION REMOVAL
EQUIPMENT (EQUIPMENT WILL BE EQUIVALENT OR SMALLER IN SIZE/TYPE)	 * EXCAVATOR (CAT 345) * FRONT-END LOADER * TRACK STEER (CAT 289S) * DUMP TRUCKS (10/12 YD) * 6"PUMPS OR SMALLER
SCHEDULE	IN-CHANNEL WORK WILL TAKE 7 DAYS - 7 DAYS A WEEK; 6:00 AM TO 6:00 PM;
SIAFFING	8 TO 10 PEOPLE (EXTRA TRUCKING SUPPORT FROM PUBLIC UTILITIES DEPARTMENT (PUD)/STREET DIVISION ON WEEKENDS/HOLIDAYS)
MAINTENANCE PROCEDURE	
CHANNEL SEQUENCE	<u>1. NESTOR CREEK CHANNEL</u> (STATION 10+00.00 TO 16+30.48)
ACCESS & LOADING	NESTOR CREEK CHANNEL
AREA(S)	ACCESS & LOADING - FRONT-END LOADER/TRACK STEER ENTER/EXIT(S) CHANNEL VIA EASEMENT ABUTTING SOIL PORTION OF THE PROJECT). LOADING AREA - EXCAVATOR LOADS TRUCKS FROM NORTH SIDE OF
	EARTHEN PORTION OF CHANNEL THE ENTIRE LENGTH OF THE PROJ
STAGING AREA	FRONT-END LOADER/TRACK STEER AND EXCAVATOR WILL BE STAGED ON SITE IN VACANT EARTHEN LOT THAT IS PART OF ACCESS AREA. ALL MATERIALS WILL BE HAULED IMMEDIATELY TO STAGING AREA 'B'/A LEGAL DISPOSAL SITE.
METHODOLOGY	1. INSTALL PUMPS AND CHECK DAMS TO FACILITATE THE DEWATERING OF WORK AREA.INSTALL PUMP ADJACENT WHERE THE CONCRETE PORTION OF THE CHANNEL ABUTS THE EARTHEN PORTION. PUMP WATER NORTHWESTWARD, JUST BEYOND THE LIMIT OF THE PROJECT.
	2. FRONT END LOADER/TRACK STEER ENTER/EXIT(S) CHANNEL FROM THE ACCESS & LOADING AREA.
	3. FRONT END LOADER/TRACK STEER PUSHES DEBRIS FROM LENGTH OF CHANNEL TO EXCAVATOR.
	4. EXCAVATOR STATIONED OUTSIDE THE CHANNEL WITHIN ACCESS & LOADING AREA.
	5.1.EXCAVATOR SCOOPS MATERIAL & LOADS MATERIAL INTO WAITING DUMP TRUCK LOCATED ALONG ACCESS AND LOADING AREA.
	6.DUMP TRUCKS HAUL MATERIAL TO STAGING AREA 'B'/A LEGAL DISPOSAL SITE.
	7. FRONT END LOADER/TRACK STEER EXITS CHANNEL.
POST-MAINTENANCE	1. DEMOBILIZE EQUIPMENT. 2. REMOVE TEMPORARY CONSTRUCTION BMPS.
OTHER NOTES	1. SWEEPERS WILL SWEEP ADJACENT PUBLIC RIGHTS-OF-WAY AND IMMEDIATE TRUCK LOADING SITES NIGHTLY.
	2. EQUIPMENT FUELED OUTSIDE CHANNEL & LOCATED AT LEAST 150' FROM WATERS OF US/STATE.





J-17204-C

ENGINEER	OF WO	<u>RK</u>		* REGISI	N0.76519
CARSON P.EDG	INGTON	R.C.E. 76519	DATE	TIFE	OF CALIFORNIX
MAINTEN	NANCE	METHODOLC	GY TA	ABLES	FOR:
	1	NESTOR CRE MMP M	EK CH AP #13	ANNEI 34	
TRA	CITY OF S NSPORTATION SHI	SAN DIEGO, CALIF(I AND STORMWATER DE EET 3 OF 4 SHEETS	ORNIA PARTMENT		I.O.NO P.T.S NO
TRA FOR CITY	CITY OF S NSPORTATION SHI	SAN DIEGO, CALIF(AND STORMWATER DE EET 3 OF 4 SHEETS	DRNIA PARTMENT DATE		I.O. NO P.T.S NO V.T.M
TRA FOR CITY DESCRIPTION	CITY OF S NSPORTATION SHI ENGINEER BY	SAN DIEGO, CALIF(AND STORMWATER DE EET 3 OF 4 SHEETS APPROVED	DRNIA PARTMENT DATE	FILMED	I.O. NO P.T.S NO V.T.M
TRA FOR CITY DESCRIPTION ORIGINAL	CITY OF NSPORTATION SHI ENGINEER BY REC	SAN DIEGO, CALIF(AND STORMWATER DE EET 3 OF 4 SHEETS APPROVED	DRNIA PARTMENT DATE	FILMED	I.O. NO P.T.S NO V.T.M
TRA FOR CITY DESCRIPTION ORIGINAL	CITY OF NSPORTATION ENGINEER BY REC	SAN DIEGO, CALIF(AND STORMWATER DE EET 3 OF 4 SHEETS APPROVED	DATE	FILMED	I.O. NO P.T.S NO V.T.M = XXXX-XXXX NAD83 COORDINATES
TRA FOR CITY DESCRIPTION ORIGINAL AS-BUILTS	CITY OF S NSPORTATION ENGINEER BY REC	SAN DIEGO, CALIF(AND STORMWATER DE EET 3 OF 4 SHEETS APPROVED	DATE	FILMED	I.O. NO.
TRA FOR CITY DESCRIPTION ORIGINAL AS-BUILTS CONTRACTOR	CITY OF S NSPORTATION ENGINEER BY REC	SAN DIEGO, CALIF(AND STORMWATER DE EET 3 OF 4 SHEETS APPROVED	DATE DATE	FILMED	I.O. NO P.T.S NO V.T.M _



MASTER MAINTENANCE	PROGRAM (MMP)) PROTOCOL	REQUIREMENTS:

1. BIO-1: RESTRICT VEHICLES TO ACCESS DESIGNATED IN THE MMP.

- 2. BIO-2: FLAG AND DELINEATE ALL SENSITIVE BIOLOGICAL RESOURCES TO REMAIN WITHIN OR ADJACENT TO MAINTENANCE AREA PRIOR TO INITIATION OF MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE SITE SPECIFIC INDIVIDUAL BIOLOGICAL ASSESSMENT (IBA), INDIVIDUAL HYDROLOGY AND HYDRAULIC ASSESSMENT (IHHA), AND/OR INDIVIDUAL MAINTENANCE PLAN (IMP) PREPARED FOR THE WORK.
- 3. BIO-3: CONDUCT A PRE-MAINTENANCE MEETING ON SITE PRIOR TO THE START OF ANY MAINTENANCE ACTIVITY THAT OCCURS WITHIN OR ADJACENT TO SENSITIVE BIOLOGICAL RESOURCES. THE PRE-MAINTENANCE MEETING SHALL INCLUDE A QUALIFIED BIOLOGIST, FIELD ENGINEER, PLANNER, EQUIPMENT OPERATORS/SUPERINTENDENT AND OTHER KEY PERSONNEL CONDUCTING OR INVOLVED IN CHANNEL MAINTENANCE ACTIVITIES. THE QUALIFIED BIOLOGIST SHALL POINT OUT OR IDENTIFY SENSITIVE BIOLOGICAL RESOURCES TO BE AVOIDED DURING MAINTENANCE, FLAG/DELINEATE SENSITIVE RESOURCES TO BE AVOIDED, REVIEW SPECIFIC MEASURES TO PROTECT SENSITIVE BIOLOGICAL RESOURCES AS NECESSARY. THE BIOLOGIST SHALL ALSO REVIEW THE PROPOSED EROSION CONTROL METHODS TO CONFIRM THEY WILL NOT POSE RISK TO WILDLIFE (E.G., NON-BIODEGRADABLE BLANKETS MAY ENTANGLE WILDLIFE).
- 4. BIO-4: AVOID THE INTRODUCTION OF INVASIVE PLANT SPECIES WITH PHYSICAL EROSION CONTROL MEASURES.
- 5. BIO-5: CONDUCT APPROPRIATE PRE-MAINTENANCE SURVEYS IF MAINTENANCE IS PROPOSED DURING THE BREEDING SEASON OF A SENSITIVE ANIMAL SPECIES (JANUARY 15 TO AUGUST 31). IF SENSITIVE ANIMAL SPECIES COVERED BY THE PROGRAM ENVIRONMENTAL IMPACT REPORT (PEIR) ARE IDENTIFIED, THEN APPLICABLE MEASURES FROM THE MITIGATION MONITORING AND REPORTING PLAN (MMRP) SHALL BE IMPLÉMENTED UNDER THE DIRECTION OF A QUALIFIED BIOLOGIST TO AVOID SIGNIFICANT DIRECT AND/OR INDIRECT IMPACTS TO IDENTIFIED SENSITIVE ANIMAL SPECIES. IF SENSITIVE ANIMAL SPECIES ARE IDENTIFIED DURING PRE-MAINTENANCE SURVEYS THAT ARE NOT COVERED BY THE PEIR, SWD SHALL CONTACT THE APPROPRIATE WILDLIFE AGENCIES AND ADDITIONAL ENVIRONMENTAL REVIEW UNDER CEQA WILL BE REQUIRED.
- 6. BIO-6: REMOVE ARUNDO THROUGH ONE, OR A COMBINATION OF, THE FOLLOWING METHODS; (1) FOLIAR SPRAY (SPRAYING HERBICIDE ON LEAVES AND STEMS WITHOUT CUTTING FIRST) WHEN ARUNDO OCCURS IN MONOTYPIC STANDS, OR (2) CUT AND PAINT (CUTTING STEMS CLOSE TO THE GROUND AND SPRAYING OR PAINTING HERBICIDE ON CUT STEM SURFACE) WHEN ARUNDO IS INTERMIXED WITH NATIVE PLANTS. WHEN SEDIMENT SUPPORTING ARRUNDO MUST BE REMOVED, THE SEDIMENT SHALL BE EXCAVATED TO A DEPTH SUFFICIENT TO REMOVE THE RHIZOMES, WHEREVER FEASIBLE. FOLLOWING REMOVAL OF SEDIMENT CONTAINING RHIZOMES, LOOSE RHIZOME MATERIAL SHALL BE REMOVED FROM THE CHANNEL AND DISPOSED OFFSITE. AFTER THE INITIAL TREATMENT, THE AREA OF REMOVAL SHALL BE INSPECTED ON A QUARTERLY BASIS FOR UP TWO YEARS, OR UNTIL NO RESPROUTING IS OBSERVED DURING AN INSPECTION. IF RESPROUTING IS OBSERVED, THE CUT AND PAINT METHOD SHALL BE APPLIED TO ALL RESPROUTS.
- 7. BIO-7: AVOID MECHANIZED MAINTENANCE WITHIN 300 FEET OF A COOPER'S HAWK NEST, 900 FEET OF A NORTHERN HARRIER'S NEST, OR 500 FEET OF ANY OTHER RAPTOR'S NEST UNTIL ANY FLEDGLINGS HAVE LEFT THE NEST.
- 8. WM-1: DISPOSE AND TRANSPORT COMPOSTABLE GREEN WASTE MATERIAL TO AN APPROVED COMPOSTING FACILITY, IF AVAILABLE.
- 9. WM-2: RE-USE EXCAVATED MATERIAL, WHENEVER POSSIBLE, AS FILL MATERIAL, AGGREGATE SAND REPLENISHMENT. OR OTHER RAW MATERIAL USES. RE-USED MATERIAL (AGGREGATES, SOIL, SAND OR SILT) SHALL BE DOCUMENTED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- 10. WM-3: SEPARATE WASTE TIRES FROM EXCAVATED MATERIAL AND TRANSPORT THEM TO AN APPROPRIATE DISPOSAL FACILITY. IF MORE THAN NINE TIRES ARE IN A VEHICLE OR WASTE BIN AT ANY ONE TIME, THEY SHALL BE TRANSPORTED UNDER A COMPLETED COMPREHENSIVE TRIP LOG (CTL) TO DOCUMENT THAT THE TIRES WERE TAKEN TO AN APPROPRIATE DISPOSAL FACILITY.
- 11. WM-4: LOG AND TRANSPORT ANY HAZARDOUS MATERIALS ENCOUNTERED DURING MAINTENANCE TO A HAZARDOUS WASTE STORAGE, RECYCLING, TREATMENT OR DISPOSAL FACILITY. PERSONNEL HANDLING HAZARDOUS MATERIALS SHALL HAVE THE APPROPRIATE TRAINING TO HANDLE, STORE, TRANSPORT, AND/OR DISPOSE THE MATERIAL. HAZARDOUS MATERIALS (E.G., MACHINE OIL, MERCURY SWITCHES, AND REFRIGERANT GASES) SHALL BE REMOVED FROM APPLIANCES AND DISPOSED IN ACCORDANCE WITH THIS PROTOCOL.
- 12, WQ-2: PREVENT OFF-SITE SEDIMENT TRANSPORT DURING MAINTENANCE THROUGH THE USE OF EROSION AND SEDIMENT CONTROLS WITHIN STORM WATER FACILITIES, ALONG ACCESS ROUTES AND AROUND STOCKPILE/STAGING AREAS. INSTALL BMPS SUCH AS SILT FENCES, FIBER ROLLS; GRAVEL BAGS; TEMPORARY SEDIMENT BASINS; STABILIZED MAINTENANCE ACCESS POINTS (E.G., SHAKER PLATES); CONTAINMENT BARRIERS (E.G., SILT FENCE, FIBER ROLLS AND/OR BERMS) FOR MATERIAL STOCKPILES; AND PROPERLY FITTED COVERS FOR MATERIAL TRANSPORT VEHICLES. REMOVE TEMPORARY EROSION OR SEDIMENT CONTROL MEASURES UPON COMPLETION OF MAINTENANCE UNLESS THEIR REMOVAL WOULD RESULT IN GREATER ENVIRONMENTAL IMPACT THAN LEAVING THEM IN PLACE.
- 13. WQ-3: STORE BMP MATERIALS ON-SITE TO PROVIDE COMPLETE PROTECTION OF EXPOSED AREAS AND PREVENT OFF-SITE SEDIMENT TRANSPORT.
- 14. WQ-4: PROVIDE TRAINING FOR PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ON-SITE BMPS.
- 15. WQ-7: AVOID STORING HAZARDOUS MATERIALS USED DURING MAINTENANCE WITHIN 50 FEET FROM STORM WATER FACILITIES. HAZARDOUS MATERIALS SHALL BE MANAGED AND STORED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE. AND FEDERAL REGULATIONS.
- 16. WQ-8: STORE MAINTENANCE-RELATED TRASH IN AREAS AT LEAST 50 FEET FROM STORM WATER FACILITIES. AND REMOVE ANY TRASH RECEPTACLES REGULARLY (AT LEAST WEEKLY).
- 17. WQ-10: INSPECT EARTHEN-BOTTOM STORM WATER FACILITIES WITHIN 30 DAYS OF THE FIRST 2-YEAR STORM FOLLOWING MAINTENANCE. IMPLEMENT EROSION CONTROL MEASURES RECOMMENDED BY THE FIELD ENGINEER, SUCH AS FIBER BLANKETS, TO REMEDIATE SUBSTANTIAL EROSION WHICH HAS OCCURRED AND TO MINIMIZE FUTURE EROSION.

PEIR ENVIRONMENTAL MITIGATION MEASURES

GENERAL MITIGATION MEASURE 1 OF THE MITIGATION MONITORING AND REPORTING PROGRAM (MMRP) ADOPTED FOR THE MMP REQUIRES ALL OF THE MITIGATION MEASURES IDENTIFIED IN THE PROGRAM EIR (PEIR) BE INCLUDED WITH THE MAINTENANCE DOCUMENTS AND CONTRACT SPECIFICATIONS FOR EACH MAINTENANCE ACTIVITY. TO FULFILL THIS REQUIREMENT, THE MMRP IS INCLUDED IN ITS ENTIRETY AS ATTACHMENT 1 TO THIS IMP.

ADDITIONAL MAINTENANCE REQUIREMENTS

1. THE CITY SHALL NOTIFY CALIFORNIA DEPARTMENT OF FISH & WILDLIFE (CDFW), IN WRITING, AT LEAST FIVE DAYS PRIOR TO INITIATION OF CONSTRUCTION PRIOR TO COMPLETION OF CONSTRUCTION (PROJECT) ACTIVITIES. NOTIFICATION SHALL BE SENT TO CDFW'S SOUTH COAST OFFICE, ATTN: STREAMBED ALTERATION PROGRAM-SM# 1600-2011-0271-R5.

2. AVOID THE INTRODUCTION OF INVASIVE PLANT SPECIES WITH PHYSICAL EROSION CONTROL MEASURES.

- 3. PRIOR TO COMMENCING ANY MAINTENANCE ACTIVITY WHICH MAY IMPACT SENSITIVE BIOLOGICAL RESOURCES, THE MONITORING BIOLOGIST SHALL VERIFY THAT THE FOLLOWING ACTIONS HAVE BEEN TAKEN, AS APPROPRIATE: -FENCING, FLAGGING, SIGNAGE OR OTHER MEANS TO PROTECT SENSITIVE RESOURCES TO REMAIN AFTER
- MAINTENANCE HAS BEEN IMPLEMENTED;
- -NOISE ATTENUATION MEASURES NEEDED TO PROTECT SENSITIVE WILDLIFE ARE IN PLACE AND EFFECTIVE; AND/OR
- -NESTING BIRDS HAVE BEEN IDENTIFIED AND NECESSARY MAINTENANCE SETBACKS HAVE BEEN ESTABLISHED IF MAINTENANCE IS TO OCCUR BETWEEN JANUARY 15 AND AUGUST 31.

4. IF ANY WILDLIFE IS ENCOUNTERED DURING THE COURSE OF MAINTENANCE, SAID WILDLIFE SHALL BE ALLOWED TO LEAVE THE MAINTENANCE AREA UNHARMED.





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ENGINEER OF WORK

Appendix B – Certification

Certification

This WPCP must be certified by the applicant.

[Please sign and date below.]

The Water Pollution Control Plan Preparer must print and sign the following certification.

I have read and understand that the City of San Diego has adopted minimum requirements for managing urban runoff, including storm water from construction and land development activities. I certify that the BMPs selected on this form will be implemented to minimize the potentially negative impacts of this project's construction and land development activities on water quality. I further agree to install, monitor, maintain, or revise the selected BMPs to ensure their effectiveness. I also understand that non-compliance with the City's Storm Water Standards may result in enforcement by the City, including fines, cease and desist orders, or other actions.

Applicant Signature:	Mr. Okey	Date:	05/17/2017
Name and Title:	Michael McGrath QSD/QSP	Tel. Number	619.250.2025

The applicant must print and sign the following certification before a permit will be issued.

I have read and understand that the City of San Diego has adopted minimum requirements for managing urban runoff, including storm water from construction and land development activities. I certify that the BMPs selected on this form will be implemented to minimize the potentially negative impacts of this project's construction and land development activities on water quality. I further agree to install, monitor, maintain, or revise the selected BMPs to ensure their effectiveness. I also understand that non-compliance with the City's Storm Water Standards may result in enforcement by the City, including fines, cease and desist orders, or other actions.

Applicant Signature:	Date:	
Name and Title:	Tel. Number	

Appendix C – City of San Diego Form DS-560, Storm Water Requirements Applicability Checklist



City of San Diego Development Services 1222 First Ave., MS-302 San Diego, CA 92101 (619) 446-5000

Storm Water Requirements Applicability Checklist

F	0	RN	1
DS	5-	56	50

FEBRUARY 2016

Project Number (for City Use Only):

SECTION 1. Construction Storm Water BMP Requirements:

All construction sites are required to implement construction BMPs in accordance with the performance standards in the <u>Storm Water Standards Manual</u>. Some sites are additionally required to obtain coverage under the State Construction General Permit (CGP)¹, which is administered by the State Water Resources Control Board.

For all project complete PART A: If project is required to submit a SWPPP or WPCP, continue to PART B.

PART A: Determine Construction Phase Storm Water Requirements.

1. Is the project subject to California's statewide General NPDES permit for Storm Water Discharges Associated with Construction Activities, also known as the State Construction General Permit (CGP)? (Typically projects with land disturbance greater than or equal to 1 acre.)

2. Does the project propose construction or demolition activity, including but not limited to, clearing, grading, grubbing, excavation, or any other activity that results in ground disturbance and contact with storm water runoff?

Yes; WPCP required, skip 3-4

□ No; next question

3. Does the project propose routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility? (Projects such as pipeline/utility replacement)

Yes; WPCP required, skip 4

□ No; next question

4. Does the project only include the following Permit types listed below?

- Electrical Permit, Fire Alarm Permit, Fire Sprinkler Permit, Plumbing Permit, Sign Permit, Mechanical Permit, Spa Permit.
- Individual Right of Way Permits that exclusively include only ONE of the following activities: water service, sewer lateral, or utility service.
- Right of Way Permits with a project footprint less than 150 linear feet that exclusively include only ONE of the following activities: curb ramp, sidewalk and driveway apron replacement, pot holing, curb and gutter replacement, and retaining wall encroachments.

Yes; no document required

Check one of the boxes to the right, and continue to PART B:

- If you checked "Yes" for question 1,
 a SWPPP is REQUIRED. Continue to PART B
- □ If you checked "No" for question 1, and checked "Yes" for question 2 or 3, a WPCP is REQUIRED. If the project proposes less than 5,000 square feet of ground disturbance AND has less than a 5-foot elevation change over the entire project area, a Minor WPCP may be required instead. Continue to PART B.
- If you checked "No" for all questions 1-3, and checked "Yes" for question 4 PART B does not apply and no document is required. Continue to Section 2.

1. More information on the City's construction BMP requirements as well as CGP requirements can be found at: www.sandiego.gov/stormwater/regulations/index.shtml

Printed on recycled paper. Visit our web site at <u>www.sandiego.gov/development-services</u>.

Upon request, this information is available in alternative formats for persons with disabilities.

Page 2 of 4	City of San Diego	Development Service	s Department •	Storm Water	^r Requirements	Applicability	Checklist
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PART B: Determine Construction Site Priorit

This prioritization must be completed within this form, noted on the plans, and included in the SWPPP or WPCP. The city reserves the right to adjust the priority of projects both before and after construction. Construction projects are assigned an inspection frequency based on if the project has a "high threat to water quality." The City has aligned the local definition of "high threat to water quality" to the risk determination approach of the State Construction General Permit (CGP). The CGP determines risk level based on project specific sediment risk and receiving water risk. Additional inspection is required for projects within the Areas of Special Biological Significance (ASBS) watershed. **NOTE:** The construction priority does **NOT** change construction BMP requirements that apply to projects; rather, it determines the frequency of inspections that will be conducted by city staff.

		ASBS				
		a. Projects located in the ASBS watershed.				
		High Priority				
		a. Projects 1 acre or more determined to be Risk Level 2 or Risk Level 3 per the Con General Permit and not located in the ASBS watershed.	struction			
		b. Projects 1 acre or more determined to be LUP Type 2 or LUP Type 3 per the Cons General Permit and not located in the ASBS watershed.	struction			
3.	Medium Priority					
		a. Projects 1 acre or more but not subject to an ASBS or high priority designation.				
		b. Projects determined to be Risk Level 1 or LUP Type 1 per the Construction Generator not located in the ASBS watershed.	ral Permit	and		
4.	X	Low Priority				
		a. Projects requiring a Water Pollution Control Plan but not subject to ASBS, high, or priority designation.	or medium	ı		
su	ditional	information for determining the requirements is found in the <u>Storm Water Standards</u>	<u>Manual</u> .			
PA Provel 3N	ditional ART C: opjects the opment IPs. "vos" is	information for determining the requirements is found in the <u>Storm Water Standards</u>] Determine if Not Subject to Permanent Storm Water Requirements. at are considered maintenance, or otherwise not categorized as "new development projects" according to the <u>Storm Water Standards Manual</u> are not subject to Permanen as checked for any number in Part C. proceed to Part F and check "Not standards for any number in Part C.	<u>Manual</u> . ects" or "re t Storm W Subject :	de- Vater		
PA Pro vel BM	ditional ART C: opects the opment IPs. "yes" is rmane "no" is Does t. existin	information for determining the requirements is found in the <u>Storm Water Standards</u>] Determine if Not Subject to Permanent Storm Water Requirements. at are considered maintenance, or otherwise not categorized as "new development projects" according to the <u>Storm Water Standards Manual</u> are not subject to Permanen S checked for any number in Part C, proceed to Part F and check "Not S at Storm Water BMP Requirements". checked for all of the numbers in Part C continue to Part D. he project only include interior remodels and/or is the project entirely within an g enclosed structure and does not have the potential to contact storm water?	Manual. ects" or "re t Storm W Subject	de- Vater to		
PA Provel 3N [f] Pe	ditional ART C: opjects the opment IPs. "yes" is frmane "no" is Does t existim Does t	information for determining the requirements is found in the <u>Storm Water Standards</u>] Determine if Not Subject to Permanent Storm Water Requirements. at are considered maintenance, or otherwise not categorized as "new development projects" according to the <u>Storm Water Standards Manual</u> are not subject to Permanen S checked for any number in Part C, proceed to Part F and check "Not S at Storm Water BMP Requirements". checked for all of the numbers in Part C continue to Part D. he project only include interior remodels and/or is the project entirely within an g enclosed structure and does not have the potential to contact storm water? he project only include the construction of overhead or underground utilities without	Manual. ects" or "re t Storm W Subject	de- Vater to		
PA Provel BM If Pe	ditional ART C: opects the opment IPs. "yes" is ermane "no" is Does t existin Does t creatir	information for determining the requirements is found in the Storm Water Standards I Determine if Not Subject to Permanent Storm Water Requirements. at are considered maintenance, or otherwise not categorized as "new development projec projects" according to the Storm Water Standards Manual are not subject to Permanen as checked for any number in Part C, proceed to Part F and check "Not S at Storm Water BMP Requirements". checked for all of the numbers in Part C continue to Part D. he project only include interior remodels and/or is the project entirely within an g enclosed structure and does not have the potential to contact storm water? he project only include the construction of overhead or underground utilities without any new impervious surfaces?	Manual. ects" or "re t Storm W Subject U Yes	de- Vater to		

Cit	y of San Diego • Development Services Department • Storm Water Requirements Applicability Checklist	Page 3	3 of 4
PA	RT D: PDP Exempt Requirements.		
PI	DP Exempt projects are required to implement site design and source control l	BMPs.	
If be	"yes" was checked for any questions in Part D, continue to Part F and check th eled "PDP Exempt."	ıe box l	la-
If	"no" was checked for all questions in Part D, continue to Part E.		
1.	Does the project ONLY include new or retrofit sidewalks, bicycle lanes, or trails that:		
	• Are designed and constructed to direct storm water runoff to adjacent vegetated areas, or oth non-erodible permeable areas? Or;	ıer	
	• Are designed and constructed to be hydraulically disconnected from paved streets and roads?	? Or;	
	• Are designed and constructed with permeable pavements or surfaces in accordance with the Green Streets guidance in the City's Storm Water Standards manual?		
	Yes; PDP exempt requirements apply X No; next question		
2.	Does the project ONLY include retrofitting or redeveloping existing paved alleys, streets or road and constructed in accordance with the Green Streets guidance in the <u>City's Storm Water Stand</u>	ls design <mark>lards M</mark> a	ied anual?
	Yes; PDP exempt requirements apply X No; project not exempt. PDP requirements app	ply	
Sto If If be	orm Water Quality Management Plan (SWQMP). "yes" is checked for any number in PART E, continue to PART F. "no" is checked for every number in PART E, continue to PART F and check the eled "Standard Development Project".	ie box l	a-
1.	New Development that creates 10,000 square feet or more of impervious surfaces collectively over the project site. This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.	The Yes	X No
2.	Redevelopment project that creates and/or replaces 5,000 square feet or more of impervious surfaces on an existing site of 10,000 square feet or more of impervious surfaces. This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.	The Yes	X No
3.	New development or redevelopment of a restaurant. Facilities that sell prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption (SIC 5812), and where the land development creates and/or replace 5,000 square feet or more of impervious surface.	g Tyes	X No
4.	New development or redevelopment on a hillside. The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site) and where the development will grade on any natural slope that is twenty-five percent or greater.	The Yes	X No
5.	New development or redevelopment of a parking lot that creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site).	The Yes	X No
6.	New development or redevelopment of streets, roads, highways, freeways, and driveways. The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site).	The Yes	X No

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7.	New development or redevelopment discharging directly to an Environmentally Sensitive Area. The project creates and/or replaces 2,500 square feet of impervious surface (collectively over project site), and discharges directly to an Environmentally Sensitive Area (ESA). "Discharging directly to" includes flow that is conveyed overland a distance of 200 feet or less from the project to the ESA, or conveyed in a pipe or open channel any distance as an isolated flow from the project to the ESA (i.e. not commingled with flows from adjacent lands).	The Yes	X No
8.	New development or redevelopment projects of a retail gasoline outlet (RGO) that create and/or replaces 5,000 square feet of impervious surface. The development project meets the following criteria: (a) 5,000 square feet or more or (b) has a projected Average Daily Traffic (ADT) of 100 or more vehicles per day.	Tres Yes	X No
9.	New development or redevelopment projects of an automotive repair shops that creates and/or replaces 5,000 square feet or more of impervious surfaces. Development projects categorized in any one of Standard Industrial Classification (SIC) codes 5013, 5014, 5541, 7532-7534, or 7536-7539.	T Yes	X No
10.	Other Pollutant Generating Project. The project is not covered in the categories above, results in the disturbance of one or more acres of land and is expected to generate pollutants post construction, such as fertilizers and pesticides. This does not include projects creating less than 5,000 sf of impervious surface and where added landscaping does not require regular use of pesticides and fertilizers, such as slope stabilization using native plants. Calculation of the square footage of impervious surface need not include linear pathways that are for infrequent vehicle use, such as emergency maintenance access or bicycle pedestrian use, if they are built with pervious surfaces of if they sheet flow to surrounding pervious surfaces.	nt □ Yes	X No
PA	ART F: Select the appropriate category based on the outcomes of PART C throu	ıgh PA	RT E.
1.	The project is NOT SUBJECT TO STORM WATER REQUIREMENTS.		
2.	The project is a STANDARD DEVELOPMENT PROJECT . Site design and source control BMP requirements apply. See the <u>Storm Water Standards Manual</u> for guidance.		¥
3.	The project is PDP EXEMPT . Site design and source control BMP requirements apply. See the <u>Storm Water Standards Manual</u> for guidance.		
4.	The second secon		
	structural pollutant control BMP requirements apply. See the <u>Storm Water Standards Manual</u> for guidance on determining if project requires a hydromodification plan management		
Na	me of Owner or Agent <i>(Please Print)</i> : Title:		
Na	me of Owner or Agent <i>(Please Print):</i> mature: Date:		

Appendix D – Inspection Form

WATER POLLUTION CONTROL PLAN INSPECTION FORM

SITE INFORMATION

Data:			Time of D	2.4	
Date:				ay:	
The information contained in he information and inquiry of pelief, true, accurate, and co	n this inspection repo of those who gathere omplete.	ort was gathere d and evaluate	ed and evaluated by qualifie ad the information, the infor	d personnel before subi mation submitted is, to t	mittal. Based on my review of he best of my knowledge an
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ENERAL INSPECTIC	ON INFORMATIC)N			
_ocation of work:			Station Numbe	r:	
VPCP onsite?	🗌 Yes 🗌] No			
s site work occurring?	Yes] No			
Description of Work:					
Rest Management Prac	tice's Inspected :	and Impleme	anted On-site		
best management Frac	ince a mapecieu a	and impleme			
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Erosion Control Tracking Control Sweeping / Dust	Sediment Co	ntrol Containment laintenance	Good Houseke	eping W	aste Management on-stormwater Control te-specific Hazards
Erosion Control Tracking Control Sweeping / Dust Additional Comments: needed to do the work such	Sediment Co	ntrol Containment laintenance maintenance r er, constructio	Good Houseke	eping W No terials Si ual conditions, situation tent of bank material, p	aste Management on-stormwater Control te-specific Hazards as or special requirements resence of utilities, etc.
Erosion Control Tracking Control Sweeping / Dust Additional Comments: needed to do the work such	Sediment Co	ntrol Containment laintenance maintenance r er, constructio	Good Houseke	eping W No terials Si ual conditions, situation nent of bank material, pr	aste Management on-stormwater Control te-specific Hazards as or special requirements resence of utilities, etc.
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Erosion Control Tracking Control Sweeping / Dust Additional Comments: needed to do the work such	Sediment Co	ntrol Containment laintenance maintenance r er, constructio	Good Houseke	eping W No terials Si ual conditions, situation tent of bank material, pr	aste Management on-stormwater Control te-specific Hazards as or special requirements resence of utilities, etc.
Erosion Control Tracking Control Sweeping / Dust Additional Comments: needed to do the work such	Sediment Co	ntrol Containment laintenance maintenance r er, constructio	Good Houseke	eping W No terials Si ual conditions, situation nent of bank material, pr	aste Management on-stormwater Control te-specific Hazards as or special requirements resence of utilities, etc.
Erosion Control Tracking Control Sweeping / Dust Additional Comments: Reeded to do the work such Channel Material Remo	Sediment Co	ntrol Containment laintenance maintenance r er, constructio	Good Houseke	eping W No terials Si ual conditions, situation nent of bank material, pr ockpile Area Materia	aste Management on-stormwater Control te-specific Hazards as or special requirements resence of utilities, etc.
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Erosion Control Tracking Control Sweeping / Dust Additional Comments: needed to do the work such Channel Material Remo Type Removed Silt/Sand	Sediment Co	ntrol Containment laintenance r er, constructio	Good Houseke	eping W W terials Si ual conditions, situation nent of bank material, pr ockpile Area Materia Type Sediment	aste Management on-stormwater Control te-specific Hazards as or special requirements resence of utilities, etc.
Erosion Control Tracking Control Sweeping / Dust Additional Comments: needed to do the work such Channel Material Remo Type Removed Silt/Sand Debris	Sediment Co	ntrol Containment laintenance maintenance r er, constructio	Good Houseke	eping W No terials Si ual conditions, situation nent of bank material, pr ockpile Area Materia Type Sediment Debris	aste Management on-stormwater Control te-specific Hazards as or special requirements resence of utilities, etc.
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Erosion Control Tracking Control Sweeping / Dust Additional Comments: needed to do the work such Khannel Material Remo Type Removed Silt/Sand Debris Vegetation iquipment Equipment Number	Sediment Co Spill Control/ Equipment M Control	ntrol Containment laintenance maintenance r er, constructio r Feet) cription	Good Houseke	eping W Na terials Si ual conditions, situation nent of bank material, pr ockpile Area Materia Type Sediment Debris Vegetation Tires (#)	aste Management on-stormwater Control te-specific Hazards as or special requirements resence of utilities, etc.