



## California Regional Water Quality Control Board, San Diego Region

February 28, 2014

**Certified Mail – Return Receipt Requested**  
Article Number: 7011 0470 0002 8961 8163

Mr. Kris McFadden  
City of San Diego  
Transportation and Storm Water Department  
9370 Chesapeake Drive, Suite 100 MS 1900  
San Diego, CA 92123

**In reply/refer to:**  
795829: amonji

**Subject: Clean Water Act Section 401 Water Quality Certification No. R9-2013-0116 for the Soledad Canyon/Sorrento Creek and Flintkote Channel Maintenance Project**

Mr. McFadden:

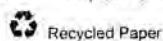
Enclosed find Clean Water Act Section 401 Water Quality Certification No. R9-2013-0116 (Certification) issued by the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) in response to the application submitted by City of San Diego (City) for the **Soledad Canyon/Sorrento Creek and Flintkote Channel Maintenance Project** (Project). A description of the Project and Project location can be found in the Certification and site maps which are included as attachments to the Certification.

The City is enrolled under State Water Resources Control Board Order No. 2003-017-DWQ as a condition of the Certification and is required to implement and comply with all terms and conditions of the Certification in order to ensure that water quality standards are met for the protection of wetlands and other aquatic resources. Failure to comply with this Certification may subject the City to enforcement actions by the San Diego Water Board including administrative enforcement orders requiring the City to cease and desist from violations or to clean up waste and abate existing or threatened conditions of pollution or nuisance; administrative civil liability in amounts of up to \$10,000 per day per violation; referral to the State Attorney General for injunctive relief; and, referral to the District Attorney for criminal prosecution.

Any petition for reconsideration of this Certification must be filed with the State Water Resources Control Board within 30 days of certification action pursuant to section 3867 of Title 23 of the California Code of Regulations (23 CCR). If no petition is received, it will be assumed that the City has accepted and will comply with all terms and conditions of the Certification.


HENRY ABARBANEL, CHAIR | DAVID GIBSON, EXECUTIVE OFFICER

2375 Northside Drive, Suite 100, San Diego, CA 92108 | (619) 516-1900 | [www.waterboards.ca.gov/sandiego](http://www.waterboards.ca.gov/sandiego)



In the subject line of any response, please include reference number 795829:amonji. For questions or comments, please contact Alan Monji by telephone at (619) 521-3968 or by email at Alan.Monji@waterboards.ca.gov.

Respectfully,

  
for James G. Smith, AED  
DAVID W. GIBSON  
Executive Officer

Enclosure:

Clean Water Act Section 401 Water Quality Certification No. R9-2013-0116 for the Soledad Canyon/Sorrento Creek and Flintkote Channel Maintenance Project

DWG:jgs:db:kd:atm

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State Water Resources Control Board, Division of Water Quality  
401 Water Quality Certification and Wetlands Unit  
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Tech Staff Info & Use	
Certification No.	R9-2013-0116
Party ID	39658
WDID	9 000002620
Regulatory ID	391373
Place ID	795829
Person ID	531423

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION**

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Clean Water Act Section 401 Water Quality Certification  
and Waste Discharge Requirements  
for Discharge of Dredged and/or Fill Materials

**PROJECT: Soledad Canyon/Sorrento Creek and Flintkote  
Channel Maintenance  
Certification Number R9-2013-0116  
WDID: 9 000002620**

Reg. Meas. ID: 391373 Place ID: 795829 Party ID: 39658 Person ID: 531423
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**APPLICANT: City of San Diego  
Transportation and Storm Water Department  
9370 Chesapeake Drive, Suite 100 MS 1900  
San Diego, CA 92123**

**ACTION:**

<input type="checkbox"/> Order for Low Impact Certification	<input type="checkbox"/> Order for Denial of Certification
<input checked="" type="checkbox"/> Order for Technically-conditioned Certification	<input type="checkbox"/> Waiver of Waste Discharge Requirements
<input checked="" type="checkbox"/> Enrollment in SWRCB GWDR Order No. 2003-017 DWQ	<input type="checkbox"/> Enrollment in Isolated Waters Order No. 2004-004 DWQ

**PROJECT DESCRIPTION**

An application dated June 14, 2013 was submitted by the City of San Diego Transportation & Storm Water Department (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (33 U.S.C. § 1341) for the proposed Soledad Canyon/Sorrento Creek-Flintkote Channel Maintenance Project (Project). The California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) deemed the application to be complete on December 9, 2013. The Applicant proposes to discharge dredged or fill material to waters of the United States and/or State associated with channel maintenance activities at the Project site.

The Project is located in northwestern San Diego in the community of Torrey Pines at the Interstate 5/Interstate 805 interchange within the City of San Diego's Coastal Overlay Zone and Torrey Pines Community Plan and Local Coastal Program (LCP). The major drainage facilities that serve the region consist of the Soledad Canyon Creek Channel (Sorrento Creek Channel or Reach 3), the Los Peñasquitos Creek channel, the 11000 Roselle Street/11000 Flintkote Avenue Channel (Flintkote Channel or Reach 7), and the Dunhill Street at Roselle Street Channel (Dunhill Street Channel). The Project center reading for the Soledad Canyon/Sorrento Creek reach (Reach 3) is located at latitude 32°53'58"N and longitude 117°13'20"W. The Project center reading for the Flintkote Channel (Reach 7) is located at latitude 32°54'15"N and longitude 117°13'49"W. The Applicant must pay all required fees for

this Certification, in the amount of \$31,907.00, prior to the start of project construction. On June 20, 2014, the San Diego Water Board provided public notice of the Project application pursuant to California Code of Regulations, title 23, section 3858 by posting information describing the Project on the San Diego Water Board's web site and providing a period of twenty-one days for public review and comment. No comments were received.

The Applicant proposes to remove up to 8,000 cubic yards of accumulated vegetation and sediment from the concrete-lined portion of Soledad Canyon/Sorrento Creek Channel (Reach 3) annually, and up to 300 cubic yards of accumulated vegetation and sediment from the concrete-lined Flintkote Channel (Reach 7) annually. Post construction Best Management Practices (BMPs) are not anticipated to be needed for the channel maintenance activities.

The Project will use clear water diversion structures to divert dry weather flows in the Sorrento Creek channel around the phased work areas to facilitate channel maintenance. Within Reach 3 the first clear water diversion will begin at the upstream end of the Sorrento Valley Road Bridge and terminate at the downstream end of the Project. In addition to dry weather flows from the upstream watershed, the first maintenance area (Reach 3A, 3B, and 3C) has standing water likely due to the need for maintenance in Reach 2 (off-site). The flow diversion will consist of a high-line bypass system comprised of 4 or 6-inch pumps with a 6-inch diameter hose. The diverted and dewatering flows will be discharged back into the channel at the downstream end of the channel maintenance area just past the flow diversion structure in the Reach 3 (concrete channel) area. Flows will be discharged back into the creek at a rate of 4 cubic feet per second (cfs). Because the proposed flow rates at the discharge point are minimal, downstream erosion is not expected to occur.

A sediment filter bag will be used at the end of the diversion hose to remove any sediment from the flows as well as decrease the velocity. The exact location will be coordinated with the project biologist to minimize environmental impacts. The second clear water diversion will create a maintenance area (Reach 3D) immediately upstream of the first maintenance area. The diversion will be placed upstream of "Access & Loading Area 3B" and the dry weather flows will be pumped to the recently cleaned area underneath Sorrento Valley Road Bridge. Dewatering may be required in the second maintenance area depending on dry weather flows from storm drain outfalls into the channel. The flow diversion systems are anticipated to operate continuously due to the constant dry weather flows from the upstream watershed. The dewatering portion of the system will only operate as needed. The flow diversion structures are proposed to consist of a combination of water filled plastic barriers, sand bags, and visqueen. They shall not be wider than four feet at the base or over five feet tall. Maintenance work will be suspended and the system will be removed from the channel in the event of forecasted wet weather as indicated in the City of San Diego's *Water Pollution Control Plan for Sorrento Channels Reaches 3 and 7 Maintenance Project, Weather Triggered Action Plan* section.

Within Reach 7, crews will vector (vacuum) any standing water at the upstream end to capture incoming flows and install temporary check dams, as a BMP, at the downstream end of each maintenance section. The normal channel flows will be restored to the original condition upon completion of the channel maintenance.

The Project application includes a description of the design objectives, operation, and degree of treatment expected to be attained from equipment, facilities, or activities (including construction and post-construction BMPs) to treat waste and reduce runoff or other effluents which may be discharged. Compliance with the Certification conditions will help ensure that construction and post-construction discharges from the Project will not cause on-site or off-site downstream erosion, damage to downstream properties, or otherwise damage stream habitats in violation of water quality standards in the Water Quality Control Plan for the San Diego Basin (9) (Basin Plan).

Channel maintenance will permanently impact 0.81 acre (1,802 linear feet) of freshwater marsh located in a concrete lined stream channel and 2.65 acres (1,478 linear feet) of unvegetated concrete lined stream channel. Impacts to these aquatic resources are associated with the use of mechanized equipment and the removal of accumulated sediment and vegetation from the channel bottoms of Reaches 3 and 7. The Applicant performed a detailed review of as-built records, previous preliminary hydraulic analyses, San-GIS topography, ESRI ArcGIS aerial imagery, field survey data from previous channel maintenance activities, and other sources to determine the maintenance needs of Reaches 3 and 7. The Applicant reports that the maintenance regime as it is currently proposed is the minimum necessary to restore improved flood flow and provide critical flood protection to adjacent roads, businesses, and infrastructure. There are no alternatives available that would avoid or result in less adverse impacts to aquatic resources.

The draft *Los Peñasquitos Canyon Preserve Conceptual Wetland Enhancement Plan* dated October 24, 2013, prepared by URS and the *El Cuervo del Sur Conceptual Wetland Habitat Mitigation and Monitoring Plan* dated October 24, 2013 prepared by URS Corporation (hereinafter referred to collectively as the Mitigation Plans), describe the enhancement and establishment mitigation that will be provided for three City of San Diego channel maintenance Projects including: this Project; the future Mission Bay High School project; and the future Tripp and Industrial Area project. Water Quality Certification applications for the Mission Bay High School and the Tripp and Industrial Area channel maintenance projects have not been submitted to the San Diego Water Board. Following submittal of the applications the San Diego Water Board will determine the impacts to waters of the United States and/or State attributable to these projects and the necessary compensatory mitigation.

The overall mitigation package for all three projects will occur within the Los Peñasquitos watershed and will include a total of 6.64 acres (3,750 LF) of wetland enhancement and 2.3 acres (560 LF) of wetland establishment. The Applicant reports that 3.82 acres of wetland enhancement mitigation from the overall mitigation package will be utilized as compensatory mitigation for the permanent loss of 0.81 acres of freshwater marsh habitat associated with the Project. Additionally, a portion of the remaining overall mitigation package, 1.91 acres of wetland establishment and 5.53 acres of wetland enhancement, will be utilized to meet mitigation requirements established by the City of San Diego and the California Coastal Commission for 1.91 acres of wetland impacts that occurred in Reaches 3 and 7 during emergency channel maintenance work conducted in 2011. The 2011 emergency channel maintenance work was authorized by enrollment under the State Water Resource Control Board Water Clean Water Act Section 401 Water Quality Certification for emergency actions permitted by U.S. Army Corps of Engineers' Regional General Permit 63 for Repair and

Protection Activities in Emergency Situations. The Project impacts of 0.81 acres are within the same footprint as the 1.91 acres of wetland impacts that occurred in 2011. The remaining available mitigation acreage for future channel maintenance projects is 2.3 acres of wetland establishment and 1.11 acres of wetland enhancement.

The enhancement mitigation proposed for the overall mitigation package, including the 3.82 acres of enhancement required for this Project, is located within the Los Peñasquitos Canyon Preserve along sections of Los Peñasquitos and Lopez Canyon Creeks within the Peñasquitos Hydrologic Unit. The establishment mitigation proposed for the overall mitigation package is located within Los Peñasquitos Canyon adjacent to Los Peñasquitos Creek.

The proposed Project is the first channel maintenance project within the Los Peñasquitos watershed permitted under the City of San Diego's Master Storm Water System Maintenance Program (MMP) and the associated Coastal Development Permit (CDP) issued by the California Coastal Commission. The Applicant has submitted the two mitigation plans mentioned above to cover all mitigation requirements for the Project as well as the anticipated mitigation requirements for the Mission Bay High School and Trip and Industrial Channel Maintenance Areas projects. The Mitigation Plans have been submitted to the San Diego Water Board and will be implemented as part of this Project. However, adequate compensatory mitigation for impacts attributable to the future Mission Bay High School and Trip and Industrial Channel Maintenance Areas projects will be determined during evaluation of the Water Quality Certification applications for these projects.

The enhancement of 3.82 acre of waters of the United States and/or State required by this Certification will proceed in accordance with the Mitigation Plans. Any subsequent versions of the Mitigation Plans are subject to approval by the San Diego Water Board. The Mitigation Plans are incorporated in this Certification by reference as if set forth herein. The Mitigation Plans provide for implementation of compensatory mitigation which offsets adverse water quality impacts attributed to the Project in a manner that protects and restores the abundance, types and conditions of aquatic resources and supports their beneficial uses. Implementation of the Mitigation Plans will reduce significant environmental impacts to resources within the San Diego Water Board's purview to a less than significant level. Based on all of these considerations, implementation of the Mitigation Plans will adequately compensate for the loss of beneficial uses and habitat within waters of the United States and/or State attributable to the Project.

Additional Project details are provided in Attachments 1 through 5 of this Certification.

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### Attachments:

1. Definitions
2. Project Location Maps
3. Project Site Plans
4. Mitigation Figures
5. CEQA Mitigation Monitoring and Reporting Program

## I. STANDARD CONDITIONS

Pursuant to section 3860 of title 23 of the California Code of Regulations, the following three standard conditions apply to all water quality certification actions:

- A. This Certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to section 13330 of the Water Code and chapter 28, article 6 (commencing with title 23, section 3867), of the California Code of Regulations.
- B. This Certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility and requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent Certification application was filed pursuant to California Code of Regulations title 23, section 3855 subdivision (b), and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
- C. This Certification action is conditioned upon total payment of any fee required under title 23, chapter 28 (commencing with section 3830) of California Code of Regulations and owed by the applicant.

## II. GENERAL CONDITIONS

- A. **Term of Certification.** Water Quality Certification No. R9-2013-0116 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 U.S.C. §1344) permit issued by the U.S. Army Corps of Engineers for this Project, or b) five (5) years from the date of issuance of this Certification, whichever occurs first.
- B. **Duty to Comply.** The Applicant must comply with all conditions and requirements of this Certification. Any Certification noncompliance constitutes a violation of the Water Code and is grounds for enforcement action or Certification termination, revocation and reissuance, or modification.
- C. **General Waste Discharge Requirements.** The requirements of this Certification are enforceable through Water Quality Order No. 2003-0017-DWQ, *Statewide General Waste Discharge Requirements for Discharges of Dredged or Fill Material that have Received State Water Quality Certification* (Water Quality Order No. 2003-0017-DWQ). This provision shall apply irrespective of whether a) the federal permit for which the Certification was obtained is subsequently retracted or is expired, or b) the Certification is expired. Water Quality Order No. 2003-0017-DWQ is accessible at:

[http://www.waterboards.ca.gov/water\\_issues/programs/cwa401/docs/generalorders/gowdr401regulated\\_projects.pdf](http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/generalorders/gowdr401regulated_projects.pdf).



- D. **Project Conformance with Application.** All water quality protection measures and BMPs described in the application and supplemental information for water quality certification are incorporated by reference into this Certification as if fully stated herein. Notwithstanding any more specific conditions in this Certification, the Applicant shall construct, implement and comply with all water quality protection measures and BMPs described in the application and supplemental information. The conditions within this Certification shall supersede conflicting provisions within the application and supplemental information submitted as part of this Certification action.
- E. **Project Conformance with Water Quality Control Plans or Policies.** Notwithstanding any more specific conditions in this Certification, the Project shall be constructed in a manner consistent with the Basin Plan and any other applicable water quality control plans or policies adopted or approved pursuant to the Porter Cologne Water Quality Act (Division 7, commencing with Water Code Section 13000) or section 303 of the Clean Water Act (33 U.S.C §1313.)
- F. **Project Modification.** The Applicant must submit any changes to the Project, including Project operation, which would have a significant or material effect on the findings, conclusions, or conditions of this Certification, to the San Diego Water for prior review and written approval. If the San Diego Water Board is not notified of a significant change to the Project, it will be considered a violation of this Certification.
- G. **Certification Distribution Posting.** During Project construction, the Applicant must maintain a copy of this Certification at the Project site. This Certification must be available at all times to site personnel and agencies. A copy of this Certification shall also be provided to any contractor or subcontractor performing construction work, and the copy shall remain in their possession at the Project site.
- H. **Inspection and Entry.** The Applicant must allow the San Diego Water Board or the State Water Resources Control Board, and/or their authorized representative(s) (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents as may be required under law, to:
1. Enter upon the Project or Compensatory Mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Certification;
  2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Certification;
  3. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Certification; and

4. Sample or monitor, at reasonable times, for the purposes of assuring Certification compliance, or as otherwise authorized by the Clean Water Act or Water Code, any substances or parameters at any location.
- I. **Enforcement Notification.** In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
  - J. **Certification Actions.** This Certification may be modified, revoked and reissued, or terminated for cause including but not limited to the following:
    1. Violation of any term or condition of this Certification;
    2. Monitoring results indicate that continued Project activities could violate water quality objectives or impair the beneficial uses of the Soledad Creek, Sorrento Creek, and Los Penasquitos Creek or their tributaries;
    3. Obtaining this Certification by misrepresentation or failure to disclose fully all relevant facts;
    4. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; and
    5. Incorporation of any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.

The filing of a request by the Applicant for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Certification condition.

- K. **Duty to Provide Information.** The Applicant shall furnish to the San Diego Water Board, within a reasonable time, any information which the San Diego Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Certification or to determine compliance with this Certification.
- L. **Property Rights.** This Certification does not convey any property rights of any sort, or any exclusive privilege.

### III. CONSTRUCTION BEST MANAGEMENT PRACTICES

- A. **Approvals to Commence Construction.** The Applicant shall not commence Project construction until all necessary federal, state, and local approvals are obtained.
- B. **Personnel Education.** Prior to the start of the Project, and annually thereafter, the Applicant must educate all personnel on the requirements in this Certification, pollution prevention measures, spill response measures, and BMP implementation and maintenance measures.
- C. **Spill Containment Materials.** The Applicant must, at all times, maintain appropriate types and sufficient quantities of materials on-site to contain any spill or inadvertent release of materials that may cause a condition of pollution or nuisance if the materials reach waters of the United States and/or State.
- D. **Water Pollution Control Plan.** The Project must be designed to comply with the City of San Diego's *Water Pollution Control Plan for Sorrento Channels Reaches 3 and 7 Maintenance Project, October 11, 2013*, prepared by URS Corporation.
- E. **General Construction Storm Water Permit.** Prior to start of Project construction, the Applicant must, as applicable, obtain coverage under, and comply with, the requirements of State Water Resources Control Board Water Quality Order No. 2009-0009-DWQ, the *General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activity*, (General Construction Storm Water Permit) and any reissuance. If Project construction activities do not require coverage under the General Construction Storm Water Permit, the Applicant must develop and implement a runoff management plan (or equivalent construction BMP plan) to prevent the discharge of sediment and other pollutants during construction activities.
- F. **Waste Management.** The Applicant must properly manage, store, treat, and dispose of wastes in accordance with applicable federal, state, and local laws and regulations. Waste management shall be implemented to avoid or minimize exposure of wastes to precipitation or storm water runoff. The storage, handling, treatment, or disposal of waste shall not create conditions of pollution, contamination or nuisance as defined in Water Code section 13050. Upon Project completion, all Project generated debris, building materials, excess material, waste, and trash shall be removed from the Project site(s) for disposal at an authorized landfill or other disposal site in compliance with federal, state and local laws and regulations.
- G. **Waste Management.** Except for a discharge permitted under this Certification, the dumping, deposition, or discharge of trash, rubbish, unset cement or asphalt, concrete, grout, damaged concrete or asphalt, concrete or asphalt spoils, wash water, organic or earthen material, steel, sawdust or other construction debris waste from Project activities directly into waters of the United States and or State, or adjacent to such waters in any manner which may permit its being transported into the waters, is prohibited.

- H. **Downstream Erosion.** Discharges of concentrated flow during construction or after Project completion must not cause downstream erosion or damage to properties or stream habitat.
- I. **Construction Equipment.** All equipment must be washed prior to transport to the Project site and must be free of sediment, debris, and foreign matter. All equipment used in direct contact with surface water shall be steam cleaned prior to use. All equipment using gas, oil, hydraulic fluid, or other petroleum products shall be inspected for leaks prior to use and shall be monitored for leakage. Stationary equipment (e.g., motors, pumps, generator, etc.) shall be positioned over drip pans or other types of containment.
- J. **Process Water.** Water containing mud, silt, or other pollutants from equipment washing or other activities, must not be discharged to waters of the United States and/or State or placed in locations that may be subjected to storm water runoff flows. Pollutants discharged to areas within a stream diversion must be removed at the end of each work day or sooner if rain is predicted.
- K. **Surface Water Diversion.** All surface waters, including ponded waters, must be diverted away from areas of active grading, construction, excavation, vegetation removal, and/or any other activity which may result in a discharge to the receiving water. Diversion activities must not result in the degradation of beneficial uses or exceedance of the receiving water quality objectives. Any temporary dam or other artificial obstruction constructed must only be built from materials such as clean gravel which will cause little or no siltation. Normal flows must be restored to the affected stream immediately upon completion of work at that location.
- L. **Re-vegetation and Stabilization.** All areas that have 14 or more days of inactivity must be stabilized within 14 days of the last activity. The Applicant shall implement and maintain BMPs to prevent erosion of the rough graded areas. After completion of grading, all areas must be re-vegetated with native species appropriate for the area. The re-vegetation palette must not contain any plants listed on the California Invasive Plant Council Invasive Plant Inventory, which can be accessed at <http://www.cal-ipc.org/paf/>.
- M. **Hazardous Materials.** Except as authorized by this Certification, substances hazardous to aquatic life including, but not limited to, petroleum products, unused cement/concrete, asphalt, and coating materials, must be prevented from contaminating the soil and/or entering waters of the United States and/or State. BMPs must be implemented to prevent such discharges during each Project activity involving hazardous materials.
- N. **Vegetation Removal.** Removal of vegetation must occur by hand, mechanically, or through application of United States Environmental Protection Agency (USEPA) approved herbicides deployed using applicable BMPs to minimize adverse effects to beneficial uses of waters of the United States and/or State. Discharges related to the application of aquatic pesticides within waters of the United States must be done in compliance with State Water Resources Control Board Water Quality Order No. 2004-

0009-DWQ, the *Statewide General National Pollution Discharge Elimination System Permit for the Discharge of Aquatic Weed Control in Waters of the United States*, and any subsequent reissuance as applicable.

- O. **Limits of Disturbance.** The Applicant shall clearly define the limits of Project disturbance to waters of the United States and/or State using highly visible markers such as flag markers, construction fencing, or silt barriers prior to commencement of Project construction activities within those areas.
  
- P. **On-site Qualified Biologist.** The Applicant shall designate an on-site qualified biologist to monitor Project construction activities within or adjacent to waters of the United States and/or State to ensure compliance with the Certification requirements. The biologist shall be given the authority to stop all work on-site if a violation of this Certification occurs or has the potential to occur. Records and field notes of the biologist's activities shall be kept on-site and made available for review upon request by the San Diego Water Board.
  
- Q. **Beneficial Use Protection.** The Applicant must take all necessary measures to protect the beneficial uses of waters of Soledad Creek, Sorrento Creek, and Los Penasquitos Creek. This Certification requires compliance with all applicable requirements of the Basin Plan. If at any time, an unauthorized discharge to surface waters (including rivers or streams) occurs or monitoring indicates that the Project is violating, or threatens to violate, water quality objectives, the associated Project activities shall cease immediately and the San Diego Water Board shall be notified in accordance with Notification Requirement VII.A of this Certification. Associated Project activities may not resume without approval from the San Diego Water Board.

#### IV. PROJECT IMPACTS AND COMPENSATORY MITIGATION

- A. **Project Impact Avoidance and Minimization.** The Project must avoid and minimize adverse impacts to waters of the United States and/or State to the maximum extent practicable.
  
- B. **Project Impacts and Compensatory Mitigation.** Unavoidable Project impacts to Sorrento Creek, Soledad Creek, Los Penasquitos Creek, and their unnamed tributaries within the Penasquitos Watershed must not exceed the type and magnitude of impacts described in the table below. At a minimum, compensatory mitigation required to offset unavoidable temporary and permanent Project impacts to waters of the United States and/or State must be achieved as described in Table 1 below:

**Table 1**

<b>Permanent Impacts</b>	<b>Impacts (acres)</b>	<b>Impacts (linear ft.)</b>	<b>Mitigation for Impacts (acres)</b>	<b>Mitigation Ratio (area mitigated :area impacted)</b>	<b>Mitigation for Impacts (linear ft.)</b>	<b>Mitigation Ratio (linear feet mitigated :linear feet impacted)</b>
Streambed – Concrete Lined Channel	2.65	1,478	0	NA	0	NA
Wetland – Concrete Lined Channel	0.81	1,802	3.82 <sup>1,2</sup> Enhancement	2:1 <sup>1</sup>	3,750 <sup>1,2,3</sup>	2.1:1

1. This mitigation covers the previous impacts of 1.91 acres that occurred attributable to emergency channel maintenance work conducted under prior Certification in 2011 at a 2:1 ratio. The current impacts of 0.81 acre are within the same impact footprint as the 1.91 acre impact that occurred during 2011; therefore mitigation for the current Project impacts is satisfied by the same mitigation as that required for the 2011 impacts.
2. The total length of the mitigation site is 3,750 LF.
3. The wetland enhancement mitigation site will be located within the Los Penasquitos Canyon Preserve.

C. **Other Project Related Mitigation.** For impacts that occurred in Reaches 3 and 7 during the 2011 emergency channel maintenance project, the City of San Diego and the California Coastal Commission required compensatory mitigation, summarized in Table 2 below, to offset unavoidable temporary and permanent project impacts to waters of the United States and/or State. The mitigation summarized in Table 2 below must also be achieved to offset unavoidable temporary and permanent impacts attributable to the Project covered under this Certification to waters of the United States and/or State:

**Table 2**

	<b>Mitigation to comply with City of San Diego and California Coastal Commission requirements<sup>1</sup></b>	
	<b>Wetland Establishment – El Cuervo Del Sur Site</b>	<b>Wetland Enhancement – Los Penasquitos Canyon Preserve Site</b>
Sorrento Valley Area Project, Concrete Lined Channels Reach 3 and 7	1.91 acres <sup>2,3</sup> 560 LF <sup>4</sup>	5.53 acres <sup>2,3</sup> 3,750 LF <sup>4</sup>

1. Permits issued by the City of San Diego and the California Coastal Commission both required mitigation ratios in excess of 1:1 with a "no net loss" requirement. To fulfill these requirements, a combination of wetland establishment and enhancement will be implemented.
2. The City of San Diego, California Coastal Commission and the San Diego Water Board are requiring mitigation for impacts in the concrete-lined areas of Sorrento Channel.
3. Remaining available mitigation acreage for future channel maintenance projects is 2.3 acres of wetland establishment and 1.11 acres of wetland enhancement.

4. The total length of the Los Penasquitos Canyon Preserve Mitigation Site is 3,750 LF. The total length of the El Cuervo Del Sur Mitigation Site is 560 LF.
- D. **Compensatory Mitigation Plan Implementation.** The Applicant must fully and completely implement the Mitigation Plans; any deviations from, or revisions to, the Mitigation Plans must be pre-approved by the San Diego Water Board.
- E. **Performance Standards.** Compensatory mitigation required under this Certification shall be considered as achieved once it has met the ecological success performance standards contained in the Mitigation Plans to the satisfaction of the San Diego Water Board.
- F. **Compensatory Mitigation Site Design.** The compensatory mitigation site(s) shall be designed, to the maximum extent practicable, to be self-sustaining once performance standards have been achieved. This includes minimization of active engineering features (e.g., pumps) and appropriate siting to ensure that natural hydrology and landscape context support long-term sustainability in conformance with the following conditions:
1. Most of the channels through the mitigation sites shall be characterized by equilibrium conditions, with no evidence of severe aggradation or degradation;
  2. As viewed along cross-sections, the channel and buffer area(s) shall have a variety of slopes, or elevations, that are characterized by different moisture gradients. Each sub-slope shall contain physical patch types or features that contribute to irregularity in height, edges, or surface and to complex topography overall; and
  3. The mitigation sites shall have a well-developed plant community characterized by a high degree of horizontal and vertical interspersions among plant zones and layers.
- G. **Temporary Project Impact Areas.** The Applicant must restore all areas of temporary impacts and all other areas of temporary disturbance which could result in a discharge or a threatened discharge of pollutants to waters of the United States and/or State. Restoration must include grading of disturbed areas to pre-project contours and re-vegetation with native species. The Applicant must implement all necessary BMPs to control erosion and runoff from areas associated with the Project.
- H. **Long Term Management and Maintenance.** The compensatory mitigation site(s), must be managed, protected, and maintained, in perpetuity, in conformance with the long term management plan and the final ecological success performance standards identified in the Mitigation Plans. The aquatic habitats, riparian areas, buffers and uplands that comprise the mitigation site(s) must be protected in perpetuity from land-use and maintenance activities that may threaten water quality or beneficial uses within the mitigation area(s) in a manner consistent with the following requirements:
1. Any maintenance activities on the mitigation site(s) that do not contribute to the success of the mitigation site(s) and enhancement of beneficial uses and ecological

functions and services are prohibited;

2. Maintenance activities must be limited to the removal of trash and debris, removal of exotic plant species, replacement of dead native plant species, and remedial measures deemed necessary for the success of the compensatory mitigation project;
  3. The Mitigation site(s) must be maintained, in perpetuity, free of perennial exotic plant species including, but not limited to, pampas grass, giant reed, tamarisk, sweet fennel, tree tobacco, castor bean, and pepper tree. Annual exotic plant species must not occupy more than 5 percent of the mitigation site(s); and
  4. If at any time a catastrophic natural event (e.g., fire, flood) causes damage(s) to the mitigation site(s) or other deficiencies in the compensatory mitigation project, the Applicant must take prompt and appropriate action to repair the damage(s) including replanting the affected area(s) and address any other deficiencies. The San Diego Water Board may require additional monitoring by the Applicant to assess how the compensatory mitigation site(s) or project is responding to a catastrophic natural event.
- I. **Timing of Mitigation Site Construction.** The construction of proposed mitigation must be completed no later than 18 months following the start of Project construction. Delays in implementing mitigation must be compensated for by an increased mitigation implementation of 10% of the cumulative compensatory mitigation for each month of delay.
- J. **Mitigation Site(s) Preservation Mechanism. Within 60 days from the start of Project construction,** the Applicant must provide the San Diego Water Board a draft preservation mechanism (e.g. deed restriction, conservation easement, etc.) that will protect all mitigation areas and their buffers in perpetuity. **Within 180 days of the issuance of this Certification,** the Applicant must submit proof of a completed final preservation mechanism that will protect all mitigation areas and their buffers in perpetuity. The conservation easement, deed restriction, or other legal limitation on the mitigation properties must be adequate to demonstrate that the sites will be maintained without future development or encroachment on the sites which could otherwise reduce the functions and values of the sites for the variety of beneficial uses of waters of the of the United States and/ or State that it supports. The legal limitation must prohibit, without exception, all residential, commercial, industrial, institutional, and transportation development, and any other infrastructure development that would not maintain or enhance the wetland and streambed functions and values of the sites. The preservation mechanism must clearly prohibit activities that would result in soil disturbance or vegetation removal, other than the removal of non-native vegetation. Other infrastructure development to be prohibited includes, but is not limited to, additional utility lines, maintenance roads, and areas of maintained landscaping for recreation.



## V. MONITORING AND REPORTING REQUIREMENTS

- A. **Representative Monitoring.** Samples and measurements taken for the purpose of monitoring under this Certification shall be representative of the monitored activity.
- B. **Monitoring Reports.** Monitoring results shall be reported to the San Diego Water board at the intervals specified in section VI of this Certification.
- C. **Monitoring and Reporting Revisions.** The San Diego Water Board may make revisions to the monitoring program at any time during the term of this Certification and may reduce or increase the number of parameters to be monitored, locations monitored, the frequency of monitoring, or the number and size of samples collected.
- D. **Records of Monitoring Information.** Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurements;
  - b. The individual(s) who performed the sampling or measurements;
  - c. The date(s) analyses were performed;
  - d. The individual(s) who performed the analyses;
  - e. The analytical techniques or methods used; and
  - f. The results of such analyses.
- E. **Functional Assessment of Mitigation Sites.** A function assessment of the mitigation sites must be performed in order to assess the current and potential ecological conditions (ecological integrity) of the mitigation sites. These conditions reflect the overall level of ecological function of an aquatic resource. Within 30 days of initiating Project construction, the Applicant shall develop and submit, for San Diego Water Board approval, a monitoring plan that implements either California Rapid Assessment Method (CRAM) monitoring or a similar functional assessment monitoring method appropriate for the mitigation sites. The Applicant must conduct a quantitative function-based assessment of the health of streambed/wetland habitat to establish pre-project baseline conditions, set success criteria, and assess the mitigation sites progress towards meeting the success criteria established in the Mitigation Plans. Monitoring must be conducted within 60 days from start of Project construction authorized under this Certification and annually following construction completion for a period of five years. The annual monitoring results shall be submitted with the Annual Progress Report. An evaluation, interpretation, and tabulation of all assessment data shall be submitted with the appropriate Annual Project Monitoring Report.
- F. **Annual Project Progress Reports.** The Applicant must submit annual Project progress reports describing status of the Project and compliance with all requirements of this Certification to the San Diego Water Board prior to **May 1** of each year following

the issuance of this Certification, until the Project has reached completion. The report must include the following information:

1. The names, qualifications, and affiliations of the persons contributing to the report;
2. The status, progress, and anticipated schedule for completion of Project construction activities including the installation and operational status of best management practices project features for erosion and storm water quality treatment;
3. A description of Project construction delays encountered or anticipated that may affect the schedule for construction completion;
4. A description of each incident of noncompliance during the annual monitoring period and its cause, the period of the noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and
5. The Applicant must submit Annual Project Progress Reports even if channel maintenance activities do not occur within the reporting period.

H. **Annual Compensatory Mitigation Monitoring Report.** The Applicant must submit compensatory mitigation monitoring reports, annually, by **May 1** of each year containing sufficient information to demonstrate how the compensatory mitigation project is progressing towards accomplishing its objectives and meeting its performance standards. Mitigation monitoring reports must be submitted annually for a period of not less than five years, sufficient to demonstrate that the compensatory mitigation project has accomplished its objectives and met ecological success performance standards contained in the Mitigation Plans. Following Project implementation the San Diego Water Board may reduce or waive compensatory mitigation monitoring requirements upon a determination that performance standards have been achieved. Conversely the San Diego Water Board may extend the monitoring period beyond five years upon a determination that the performance standards have not been met or the compensatory mitigation project is not on track to meet them.

The monitoring reports must include, but not be limited to, the following information:

1. Names, qualifications, and affiliations of the persons contributing to the report;
2. An evaluation, interpretation, and tabulation of the parameters being monitored, including the results of the Mitigation Plan monitoring program, and all quantitative and qualitative data collected in the field;
3. A description of the mitigation site(s):
  - a. Detritus cover;
  - b. General topographic complexity characteristics;

- c. General upstream and downstream habitat and hydrologic connectivity; and
  - d. Source of hydrology;
4. Monitoring data interpretations and conclusions as to how the compensatory mitigation project(s) is progressing towards meeting performance standards and whether the performance standards have been met;
  5. A description of the progress toward implementing a plan to manage the compensatory mitigation project after performance standards have been achieved to ensure the long term sustainability of the resource in perpetuity, including a discussion of long term financing mechanisms, the party responsible for long term management, and a timetable for future steps;
  6. Qualitative and quantitative comparisons of current mitigation conditions with pre-construction conditions and previous mitigation monitoring results, including the results of the functional assessment monitoring required under section V.E of this Certification;
  7. Stream photo documentation must be conducted prior to, during, and after mitigation project construction in accordance with guidelines posted at [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/401\\_certification/docs/StreamPhotoDocSOP.pdf](http://www.waterboards.ca.gov/sandiego/water_issues/programs/401_certification/docs/StreamPhotoDocSOP.pdf). In addition, photo documentation must include Geographic Positioning System (GPS) coordinates for each of the photo points referenced;
  8. A qualitative comparison to adjacent preserved streambed areas;
  9. As-built drawings of the compensatory mitigation project site(s), no bigger than 11"X17"; and
  10. A survey report documenting boundaries of the compensatory mitigation site(s).
- J. **Reporting Authority.** The submittal of information required under this Certification, or in response to a suspected violation of any condition of this Certification, is required pursuant to Water Code section 13267 and 13383. Civil liability may be administratively imposed by the San Diego Water Board for failure to submit information pursuant to Water Code sections 13268 or 13385.
- K. **Electronic and Paper Media Documents.** The Applicant must submit all reports and information required under this Certification in both hardcopy (paper) and electronic format. The preferred electronic format for each report submission is one file in PDF format that is also Optical Character Recognition (OCR) capable. All paper and electronic documents submitted to the San Diego Water Board must include the following identification numbers in the header or subject line: Certification No. R9-2013-0116; PIN 795829.

L. **Document Signatory Requirements.** All applications, reports, or information submitted to the San Diego Water Board must be signed as follows:

1. For a corporation, by a responsible corporate officer of at least the level of vice president.
2. For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
3. For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.
4. A duly authorized representative may sign applications, reports, or information if:
  - a. The authorization is made in writing by a person described above.
  - b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
  - c. The written authorization is submitted to the San Diego Water Board Executive Officer.

If such authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the Project, a new authorization satisfying the above requirements must be submitted to the San Diego Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative.

M. **Document Certification Requirements.** All applications, reports, or information submitted to the San Diego Water Board must be certified as follows:

*"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."*

N. **Document Submittal Address.** The Applicant must submit reports required under this Certification, or other information required by the San Diego Water Board, to:

Executive Officer  
California Regional Water Quality Control Board  
San Diego Region  
Attn: 401 Certification No. R9-2013-0116: PIN 795829  
2375 Northside Drive, Suite 100  
San Diego, California 92108

## VI. NOTIFICATION REQUIREMENTS

- A. **Twenty Four Hour Non-Compliance Reporting.** The Applicant shall report any noncompliance which may endanger health or the environment. Any such information shall be provided orally to the San Diego Water Board within **24 hours** from the time the Applicant becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Applicant becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The San Diego Water Board, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- B. **Hazardous Substance Discharge.** Except for a discharge which is in compliance with this Certification, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, shall as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the County of San Diego, in accordance with California Health and Safety Code section 5411.5 and the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.17), and immediately notify the State Water Board or the San Diego Water Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of section 13271 of the Water Code unless the Applicant is in violation of a Basin Plan prohibition.
- C. **Oil or Petroleum Product Discharge.** Except for a discharge which is in compliance with this Certification, any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.1). This requirement does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Clean Water Act section 311, or the discharge is in violation of a Basin Plan prohibition.
- D. **Anticipated Noncompliance.** The Applicant shall give advance notice to the San Diego Water Board of any planned changes in the Project or the Compensatory Mitigation project which may result in noncompliance with Certification conditions or requirements.

- E. **Transfers.** This Certification is not transferable in its entirety or in part to any person or organization except after notice to the San Diego Water Board in accordance with the following terms:
1. **Transfer of Property Ownership:** The Applicant must notify the San Diego Water Board of any change in ownership of the Project area. Notification of change in ownership must include, but not be limited to, a statement that the Applicant has provided the purchaser with a copy of the Section 401 Water Quality Certification and that the purchaser understands and accepts the certification requirements and the obligation to implement them or be subject to liability for failure to do so; the seller and purchaser must sign and date the notification and provide such notification to the San Diego Water Board **within 10 days of the transfer of ownership.**
  2. **Transfer of Mitigation Responsibility:** Any notification of transfer of responsibilities to satisfy the mitigation requirements set forth in this Certification must include a signed statement from an authorized representative of the new party (transferee) demonstrating acceptance and understanding of the responsibility to comply with and fully satisfy the mitigation conditions and agreement that failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the San Diego Water Board under Water Code section 13385, subdivision (a). Notification of transfer of responsibilities meeting the above conditions must be provided to the San Diego Water Board **within 10 days of the transfer date.**
  3. **Transfer of Post-Construction BMP Maintenance Responsibility:** The Applicant assumes responsibility for the inspection and maintenance of all post-construction structural BMPs until such responsibility is legally transferred to another entity. At the time maintenance responsibility for post-construction BMPs is legally transferred the Applicant must submit to the San Diego Water Board a copy of such documentation and must provide the transferee with a copy of a long-term BMP maintenance plan that complies with manufacturer specifications. The Applicant must provide such notification to the San Diego Water Board within **10 days** of the transfer of BMP maintenance responsibility.

Upon properly noticed transfers of responsibility, the transferee assumes responsibility for compliance with this Certification and references in this Certification to the Applicant will be interpreted to refer to the transferee as appropriate. Transfer of responsibility does not necessarily relieve the Applicant of this Certification in the event that a transferee fails to comply.

- F. **Discharge Commencement.** The Applicant must notify the San Diego Water Board in writing **at least 5 days prior to** the start of Project construction.

## VII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

- A. The City of San Diego is the Lead Agency under the California Environmental Quality Act (CEQA) (Public Resources Code section 21000, et seq.) section 21067, and CEQA Guidelines (California Code of Regulations, title 14, section 15000 et seq.) section 15367, and has filed a Notice of Determination dated October 24, 2011 for the Final Environmental Impact Report (FEIR) titled *Master Storm Water Maintenance Program Final Recirculated Program Environmental Impacts Report* (State Clearing House Number 2004101032). The Lead Agency has determined the Project will have a significant effect on the environment and mitigation measures were made a condition of the Project.
- B. The San Diego Water Board is a Responsible Agency under CEQA (Public Resources Code section 21069; CEQA Guidelines section 15381). The San Diego Water Board has considered the Lead Agency's FEIR and finds that the Project as proposed will have a significant effect on resources within the San Diego Water Board's purview.
- C. The San Diego Water Board has required mitigation measures as a condition of this Certification to avoid or reduce the environmental effects of the Project to resources within the Board's purview to a less than significant level.
- D. The Lead Agency has adopted a mitigation monitoring and reporting program pursuant to Public Resources Code section 21081.6 and CEQA Guidelines section 15097 to ensure that mitigation measures and revisions to the Project identified in the FEIR are implemented. The Mitigation Monitoring and Reporting Program (MMRP) is included and incorporated by reference in Attachment 5 to this Certification. The Applicant shall implement the Lead Agency's MMRP described in the FEIR, as it pertains to resources within the San Diego Water Board's purview. The San Diego Water Board has imposed additional MMRP requirements as specified in section VI of this Certification.
- E. As a Responsible Agency under CEQA, the San Diego Water Board will file a Notice of Determination in accordance with CEQA Guidelines section 15096 subdivision (i).

## VIII. SAN DIEGO WATER BOARD CONTACT PERSON


Alan Monji, Environmental Scientist  
California Regional Water Quality Control Board, San Diego Region  
2375 Northside Drive, Suite 100  
San Diego, California 92108  
Telephone: (619) 521-3968  
Email: [Alan.Monji@waterboards.ca.gov](mailto:Alan.Monji@waterboards.ca.gov)

## IX. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **Soledad Canyon/Sorrento Creek and Flintkote Channel Maintenance** (Certification No. R9-2013-0116) will comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plans"), 306 ("National Standards of Performance"), and 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Board Order No. 2003-0017-DWQ, "*Statewide General Waste Discharge Requirements for Dredged or Fill Discharges that have Received State Water Quality Certification (General WDRs)*," which requires compliance with all conditions of this Water Quality Certification. Please note that enrollment under Order No. 2003-017-DWQ is conditional and, should new information come to our attention that indicates a water quality problem, the San Diego Water Board may issue individual waste discharge requirements at that time.

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited to, and all proposed mitigation being completed in strict compliance with, the applicants' Project description and/or the description in this Certification, and (b) compliance with all applicable requirements of the Basin Plan.

I, David W. Gibson, Executive Officer, do hereby certify the forgoing is a full, true, and correct copy of Certification No. R9-2013-0116 issued on February 28, 2014.

  
\_\_\_\_\_  
DAVID W. GIBSON *James G. Smith, AED*  
Executive Officer  
San Diego Water Board

*28 Feb 2014*  
\_\_\_\_\_  
Date

for



# ATTACHMENT 1

## DEFINITIONS

**Activity** - when used in reference to a permit means any action, undertaking, or project including, but not limited to, construction, operation, maintenance, repair, modification, and restoration which may result in any discharge to waters of the state.

**Buffer** - means an upland, wetland, and/or riparian area that protects and/or enhances aquatic resource functions associated with wetlands, rivers, streams, lakes, marine, and estuarine systems from disturbances associated with adjacent land uses.

**California Rapid Assessment Method (CRAM)** - is a wetland assessment method intended to provide a rapid, scientifically-defensible and repeatable assessment methodology to monitor status and trends in the conditions of wetlands for applications throughout the state. It can also be used to assess the performance of compensatory mitigation projects and restoration projects. CRAM provides an assessment of overall ecological condition in terms of four attributes: landscape context and buffer, hydrology, physical structure and biotic structure. CRAM also includes an assessment of key stressors that may be affecting wetland condition and a "field to PC" data management tool (eCRAM) to ensure consistency and quality of data produced with the method.

**Compensatory Mitigation Project** - means compensatory mitigation implemented by the Applicant as a requirement of this Certification (i.e., applicant -responsible mitigation), or by a mitigation bank or an in-lieu fee program.

**Discharge of dredged material** – means any addition of dredged material into, including redeposit of dredged material other than incidental fallback within, the waters of the United States and/or State.

**Discharge of fill material** – means the addition of fill material into waters of the United States and/or State.

**Dredged material** – means material that is excavated or dredged from waters of the United States and/or State.

**Ecological Success Performance Standards** – means observable or measurable physical (including hydrological), chemical, and/or biological attributes that are used to determine if a compensatory mitigation project meets its objectives.

**Enhancement** – means the manipulation of the physical, chemical, or biological characteristics of an aquatic resource to improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

**Establishment** – means the manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist. Creation results in a gain in aquatic resource area.

**Fill material** – means any material used for the primary purpose of replacing an aquatic area with dry land or of changing the bottom elevation of a water body.

**Isolated wetland** – means a wetland with no surface water connection to other aquatic resources.

**Mitigation Bank** – means a site, or suite of sites, where resources (e.g., wetlands, streams, riparian areas) are restored, established, enhanced, and/or preserved for the purpose of providing mitigation for impacts authorized by this Certification.

**Preservation** - means the removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

**Re-establishment** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/ historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

**Rehabilitation** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/ historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

**Restoration** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

**Start of Project Construction** - For the purpose of this Certification, "start of Project construction" means to engage in a program of on-site construction, including site clearing, grading, dredging, landfilling, changing equipment, substituting equipment, or even moving the location of equipment specifically designed for a stationary source in preparation for the fabrication, erection or installation of the building components of the stationary source within waters of the United States and/or State.

**Uplands** - means non-wetland areas that lack any field-based indicators of wetlands or other aquatic conditions. Uplands are generally well-drained and occur above (i.e., up-slope) from nearby aquatic areas. Wetlands can, however, be entirely surrounded by uplands. For example, some natural seeps and constructed stock ponds lack aboveground hydrological connection to other aquatic areas. In the watershed context, uplands comprise the landscape matrix in which aquatic areas form. They are the primary sources of sediment, surface runoff, and associated chemicals that are deposited in aquatic areas or transported through them.

**Water quality objectives and other appropriate requirements of state law** – means the water quality objectives and beneficial uses as specified in the appropriate water quality control plan(s); the applicable provisions of sections 301, 302, 303, 306, and 307 of the Clean Water Act; and any other appropriate requirement of state law.

City of San Diego  
Soledad Canyon/Sorrento Creek  
and Flintkote Channel Maintenance  
Certification No. R9-2013-0116

- 1 -

## **ATTACHMENT 2**

### **LOCATION MAP**



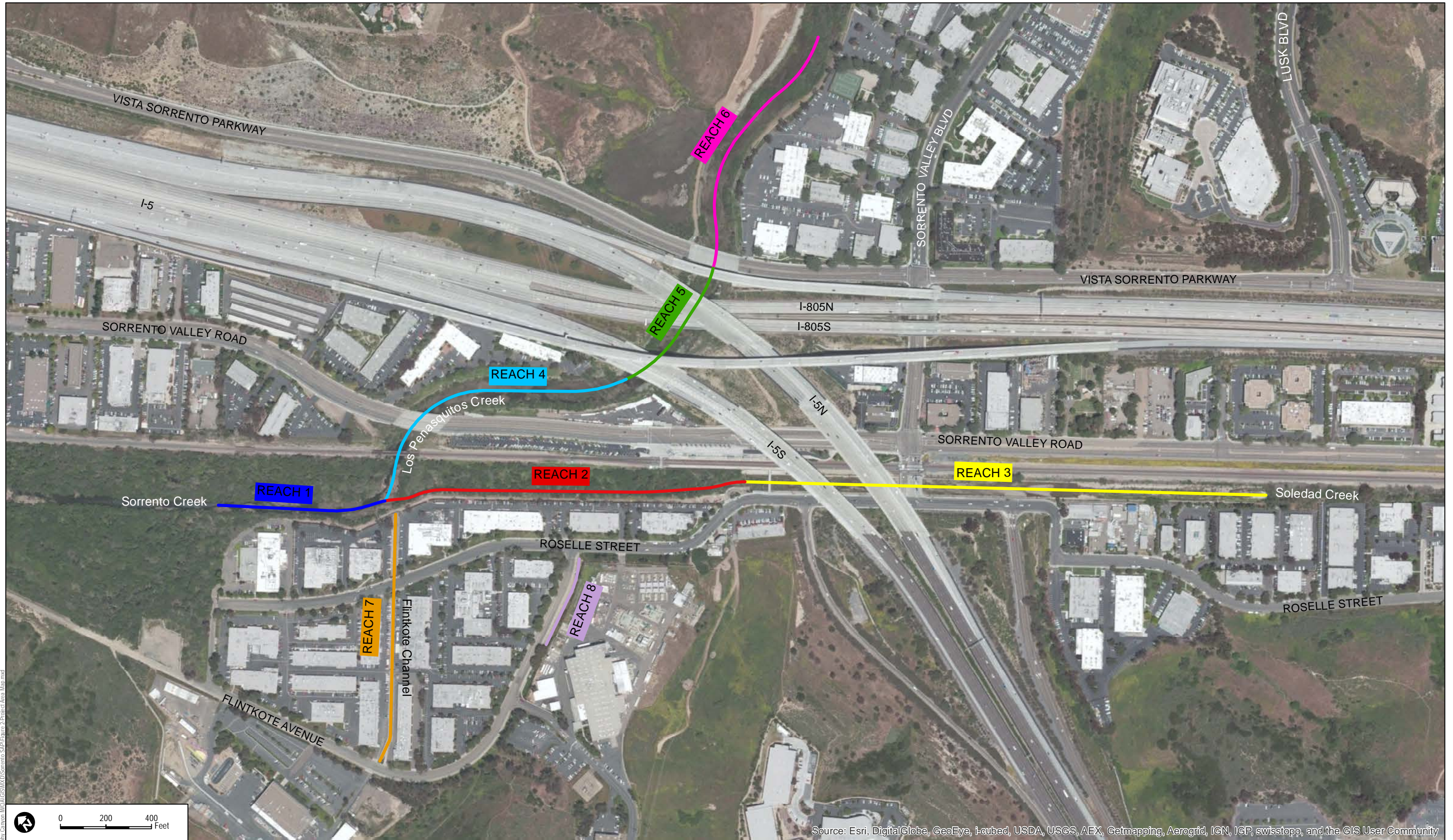
P:\400-Hydro\cd\07105\_Murphy\_Canyon\_IWD\GIS\WXD\Sorrento\_SAP\Fig1\_Vicinity\_Map.mxd

**DUDEK**

7165-03-08000  
JUNE 2013

Sorrento Creek Channel Maintenance Project

**FIGURE 1**  
**Vicinity Map**



Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**DUDEK**

7165-03-08000  
JUNE 2013

SOURCES  
Reaches provided by URS  
Figure modified after 2013 H&H Reaches - Sorrento Valley Channel Reach Number Map, URS 2013

SORRENTO CREEK CHANNEL MAINTENANCE PROJECT

**FIGURE 2**  
**Project Area**

DRAFT

P:\400\_Hydro\Technology\7165\_Murphy\_Canyon\MODAL\GIS\MKD\Sorrento\_SAFI\Figure 2-Project Area\_Map.mxd

City of San Diego  
Soledad Canyon/Sorrento Creek  
and Flintkote Channel Maintenance  
Certification No. R9-2013-0116

- 1 -

**ATTACHMENT 3**  
**PROJECT SITE PLANS**



**URS**

150 0 150 300 Feet  
SCALE CORRECT WHEN PRINTED AT 11x17

SCALE 1" = 300' (1:30000)

CREATED BY: PM DATE: 8/2/2013  
P.M. BE PROJ. NO. 27679070.02000 ATTACHMENT 6

**PREVIOUSLY MITIGATED, 2011 EMERGENCY AREAS, AND PROPOSED WORK**  
SORRENTO CREEK/INTOTOSLEDAD CHANNEL  
MASTER STORM WATER MAINTENANCE PROGRAM  
CITY OF SAN DIEGO

PROJECT: Sorrento Creek Channel Rehabilitation (2007)  
2011 Proposed Work Area (IBA, 2011)  
2013 Proposed Work Area (IBA, 2013)  
Revised: 2012

- Portion of Sorrento Creek project previously mitigated at original El Cuervo site
- Maintenance area to be mitigated at proposed El Cuervo Del Sur
- 2011 Emergency Maintenance Area
- Proposed Work Area (Reach 3 & 7 only)
- Proposed Maintenance Area Access
- Proposed Maintenance Area Slugging

**GENERAL NOTES**

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A NOTICE TO PROCEED HAS BEEN ISSUED.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- 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 PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. 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.
- 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.
- 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.
- "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.
- ALL EXISTING AND/OR PROPOSED PUBLIC UTILITY SYSTEM AND SERVICE FACILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH SECTION 144.0240 OF THE MUNICIPAL CODE.
- 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.
- 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.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.
- 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 SHALL 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 NOTES**

- ALL GROUND WATER EXTRACTION 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 AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2008-0002 NPDES CAG919002.
- 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.
- ALL GROUND WATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS 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 STATE ORDER NO R9-2007-0034 NPDES NO. CAG919001.

**REFERENCE DRAWINGS**

REFERENCE DRAWING DESCRIPTION	DRAWING NUMBER
CALTRANS (REACH 3)	CONTRACT # 022454
GRADING PLAN	14543-D
ROSELLE IMP. PLAN	15532-D

**SHEET INDEX**

SHEET DESCRIPTION	SHEET #/RANGE
TITLE SHEET	1
SOLEDAD CANYON CREEK	2-3
FLINTKOTE CHANNEL	4
TYPICAL SECTIONS	5
NOTES	6-12

**TOPOGRAPHY SOURCE**

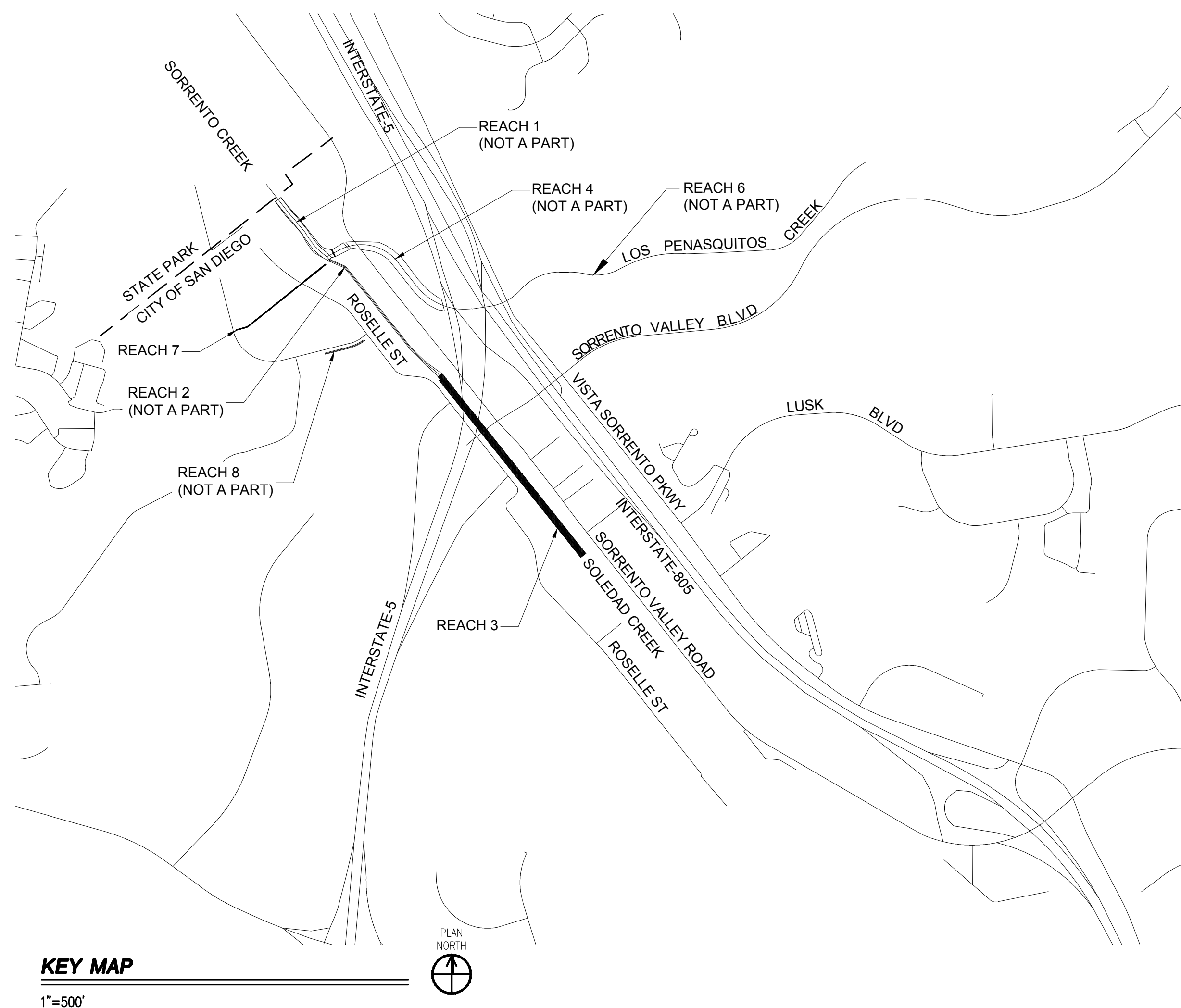
DATUM: NAD 1983 STATEPLANE CALIFORNIA VI FIPS 0406 FEET  
 TOPO ELEVATIONS FOR PICTORIAL PURPOSES ONLY  
 TOPOGRAPHY DATE: 1999

**STORM WATER PROTECTION NOTES**

- THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0001; AND RISK LEVEL/TYPE: CHECK ONE BELOW
  - WPCP
  - CGP RISK LEVEL 1
  - CGP RISK LEVEL 2
  - CGP RISK LEVEL 3
  - CGP LUP TYPE 1
  - CGP LUP TYPE 2
  - CGP LUP TYPE 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
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP OR SWPPP AS APPLICABLE.

**MAINTENANCE PLANS FOR:**

**SORRENTO CHANNELS REACH 3 & 7**



**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 CHANNELS TO REMOVE ACCUMULATED SEDIMENT AND OTHER DEBRIS

**STANDARD SPECIFICATIONS:**

DOCUMENT NO.	DESCRIPTION
PITS070112-01	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2012 EDITION
PITS070112-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2012 EDITION
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2012 EDITION
PITS070112-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S CUSTOMARY STANDARD SPECIFICATIONS, 2010 EDITION

**STANDARD DRAWINGS:**

DOCUMENT NO.	DESCRIPTION
PITS070112-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION
PITS070112-05	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S CUSTOMARY STANDARD PLANS, 2010 EDITION

**LEGEND**

**EXISTING IMPROVEMENTS**

ITEM	SYMBOL
CHANNEL MAINTENANCE AREA	
STAGING AREAS	
ACCESS AREAS / ROUTES	
ENVIRONMENTAL SENSITIVE AREAS (ESA)	
EX WATER MAIN	
EX STORM DRAIN	
EX SEWER MAIN	
MAJOR CONTOUR	
MINOR CONTOUR	
PARCEL LINE	

**MAINTENANCE BMPs**

ITEM	SYMBOL
STABILIZED CONSTRUCTION ENTRANCE WITH SHAKER PLATES	
SILT CURTAIN	
TEMPORARY FLOW DIVERSION SET UP	
TEMPORARY FLOW DIVERSION HOSE LINE	

**REFERENCE DRAWINGS**

**SHEET INDEX**

**KEY MAP**

1"=500'

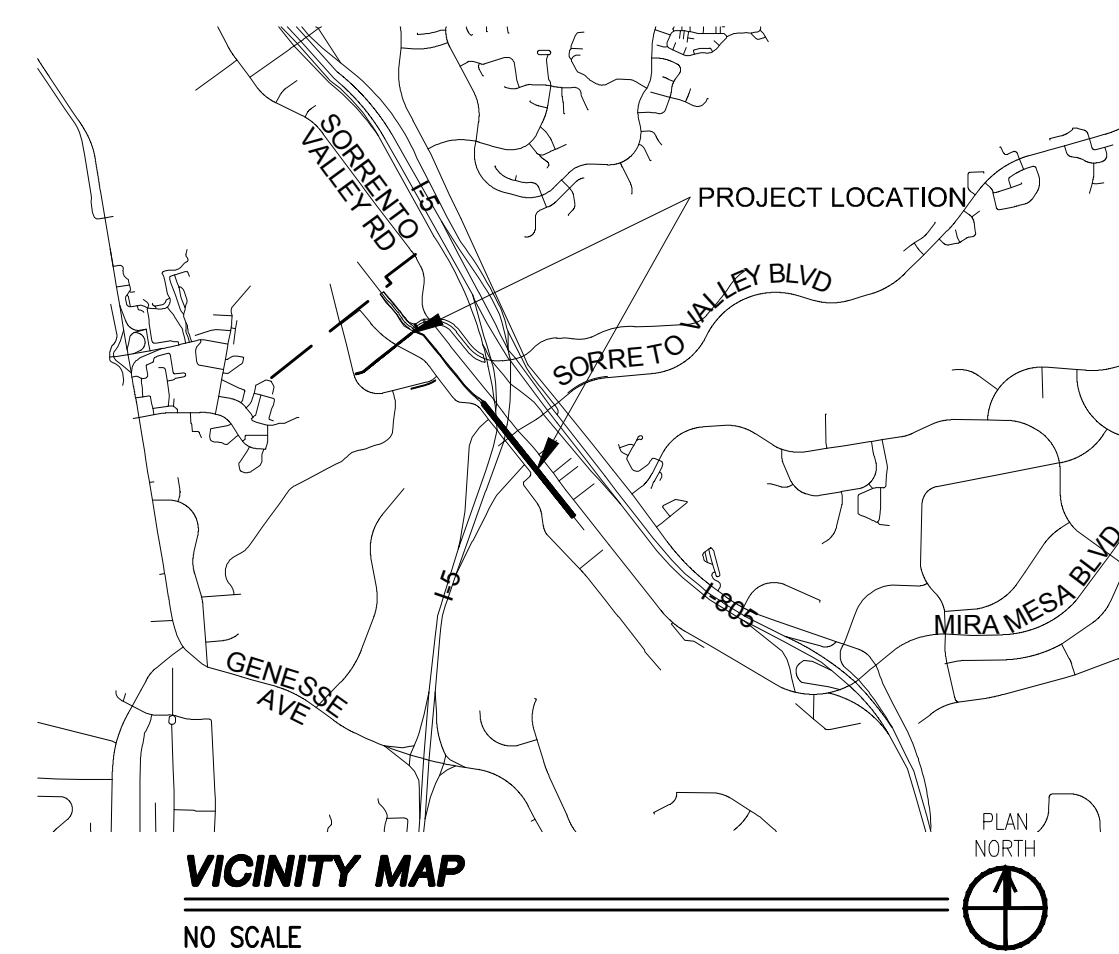
**DECLARATION OF RESPONSIBLE CHARGE**

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.

URS CORPORATION  
 4225 EXECUTIVE SQUARE, SUITE 1600  
 LA JOLLA, CA 92037  
 858-812-9292  
 858-812-9293

MATTHEW C. MOORE R.C.E. NO. 56780 EXP. 06-30-2013 DATE

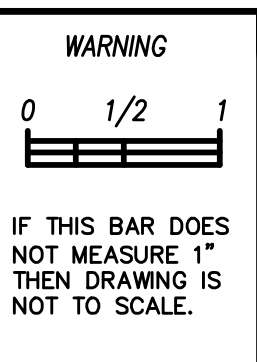


ENGINEERING PERMIT NO: N/A  
 DISCRETIONARY PERMIT NO: \_\_\_\_\_  
 WQID NO: N/A  
 RETAINING WALL PROJECT NO: N/A  
 CONSTRUCTION SITE  
 STORM WATER PRIORITY: LOW

**MAINTENANCE PLANS FOR SORRENTO CHANNELS REACHES 3 AND 7**

CITY OF SAN DIEGO, CALIFORNIA SHEET 1 OF 12 SHEETS		I.O. NO. _____
FOR CITY ENGINEER		PROJECT NO. _____
DESCRIPTION	BY	DATE
ORIGINAL	URS	
AS-BUILTS		
CONTRACTOR	DATE STARTED	
INSPECTOR	DATE COMPLETED	

CONSTRUCTION CHANGE TABLE			
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.



**CITY OF SAN DIEGO**  
**DEVELOPMENT SERVICES DEPARTMENT**

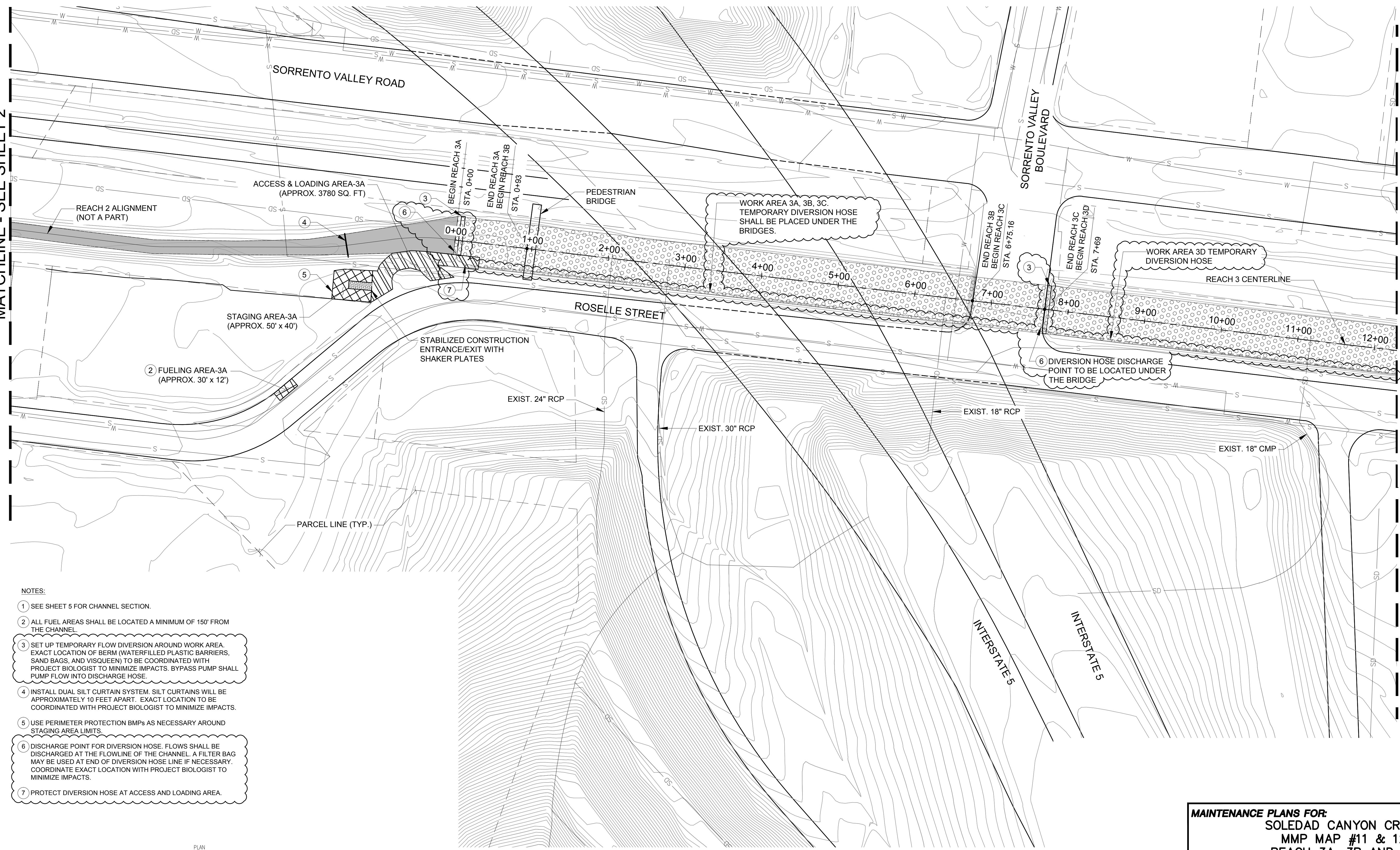


STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)



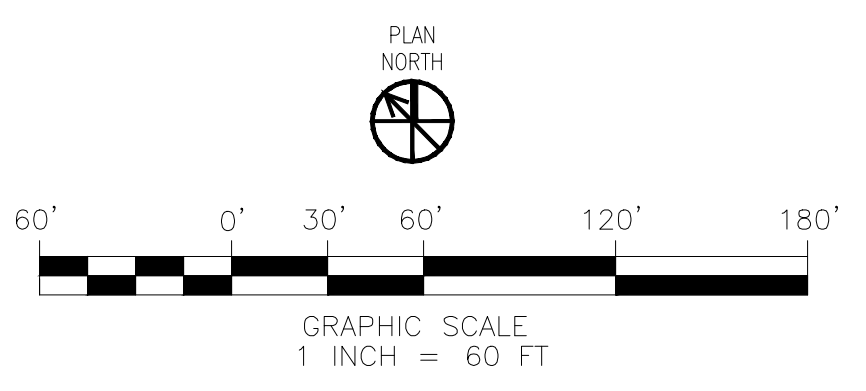
MATCHLINE - SEE SHEET 2

MATCHLINE - SEE SHEET 3 - STA. 12+29.4



NOTES:

- 1 SEE SHEET 5 FOR CHANNEL SECTION.
- 2 ALL FUEL AREAS SHALL BE LOCATED A MINIMUM OF 150' FROM THE CHANNEL.
- 3 SET UP TEMPORARY FLOW DIVERSION AROUND WORK AREA. EXACT LOCATION OF BERM (WATERFILLED PLASTIC BARRIERS, SAND BAGS, AND VISQUEEN) TO BE COORDINATED WITH PROJECT BIOLOGIST TO MINIMIZE IMPACTS. BYPASS PUMP SHALL PUMP FLOW INTO DISCHARGE HOSE.
- 4 INSTALL DUAL SILT CURTAIN SYSTEM. SILT CURTAINS WILL BE APPROXIMATELY 10 FEET APART. EXACT LOCATION TO BE COORDINATED WITH PROJECT BIOLOGIST TO MINIMIZE IMPACTS.
- 5 USE PERIMETER PROTECTION BMPs AS NECESSARY AROUND STAGING AREA LIMITS.
- 6 DISCHARGE POINT FOR DIVERSION HOSE. FLOWS SHALL BE DISCHARGED AT THE FLOWLINE OF THE CHANNEL. A FILTER BAG MAY BE USED AT END OF DIVERSION HOSE LINE IF NECESSARY. COORDINATE EXACT LOCATION WITH PROJECT BIOLOGIST TO MINIMIZE IMPACTS.
- 7 PROTECT DIVERSION HOSE AT ACCESS AND LOADING AREA.



URS CORPORATION  
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LA JOLLA, CA 92037  
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858-812-9293

MATTHEW C. MOORE R.C.E. NO. 56780 EXP. 06-30-2013 DATE

FOR CITY ENGINEER					DATE	V.T.M.
DESCRIPTION	BY	APPROVED	DATE	FILMED		
ORIGINAL	URS					
AS-BUILTS						
CONTRACTOR					DATE STARTED	
INSPECTOR					DATE COMPLETED	

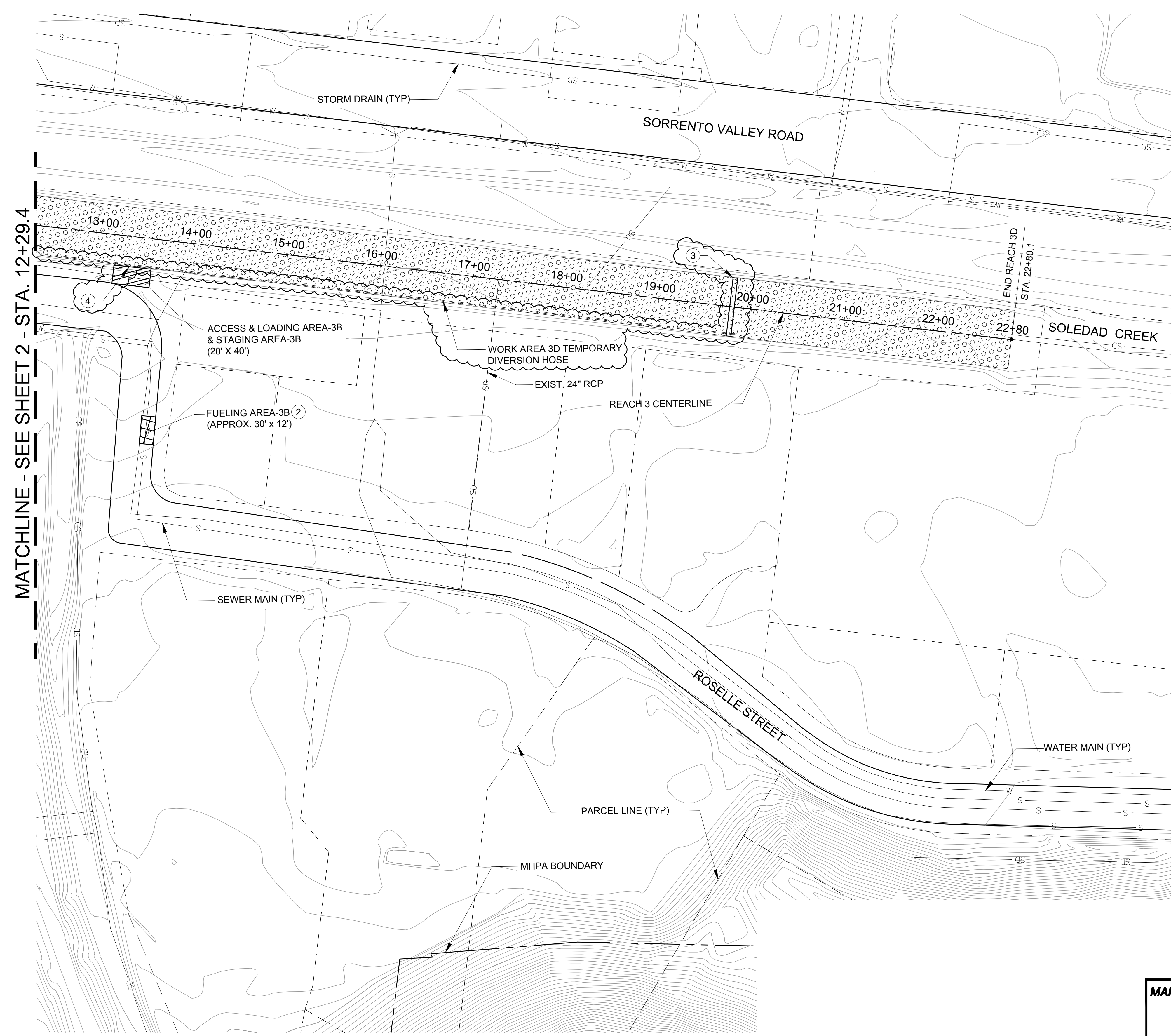
**MAINTENANCE PLANS FOR:  
SOLEDAD CANYON CREEK  
MMP MAP #11 & 12  
REACH 3A, 3B AND 3C**

CITY OF SAN DIEGO, CALIFORNIA  
DEVELOPMENT SERVICES DEPARTMENT  
SHEET 2 OF 12 SHEETS

I.O. NO. \_\_\_\_\_  
PROJECT NO. \_\_\_\_\_

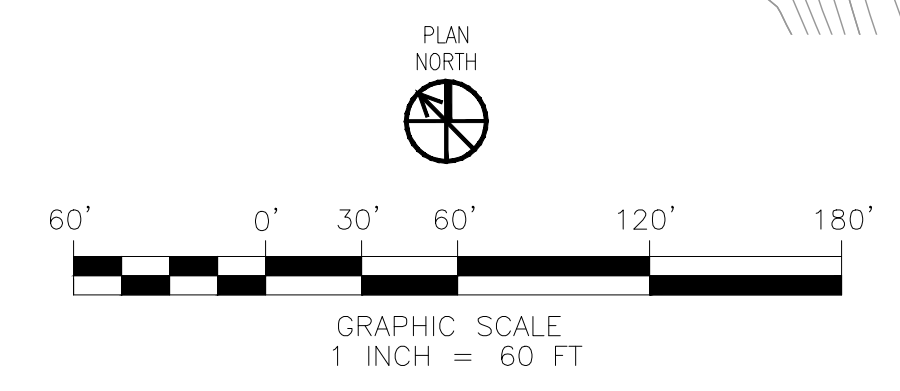
XXXX-XXXX  
NAD83 COORDINATES

XXX-XXXX  
LAMBERT COORDINATES



- NOTES:
- 1 SEE SHEET 2 FOR CHANNEL SECTION.
  - 2 ALL FUEL AREAS SHALL BE LOCATED A MINIMUM OF 150' FROM THE CHANNEL.
  - 3 SET UP TEMPORARY FLOW DIVERSION AROUND WORK AREA. EXACT LOCATION OF BERM (WATERFILLED PLASTIC BARRIERS, SAND BAGS, AND VISQUEEN) TO BE COORDINATED WITH PROJECT BIOLOGIST TO MINIMIZE IMPACTS. BYPASS PUMP SHALL PUMP FLOW INTO DISCHARGE HOSE.
  - 4 PROTECT DIVERSION HOSE AT ACCESS AND LOADING AREA.

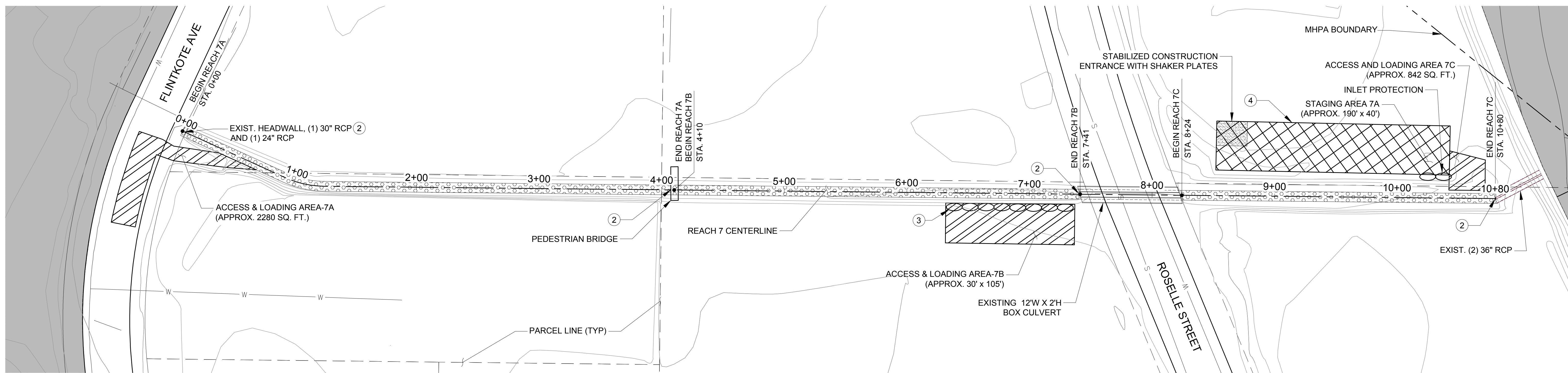
MATCHLINE - SEE SHEET 2 - STA. 12+29.4



URS CORPORATION  
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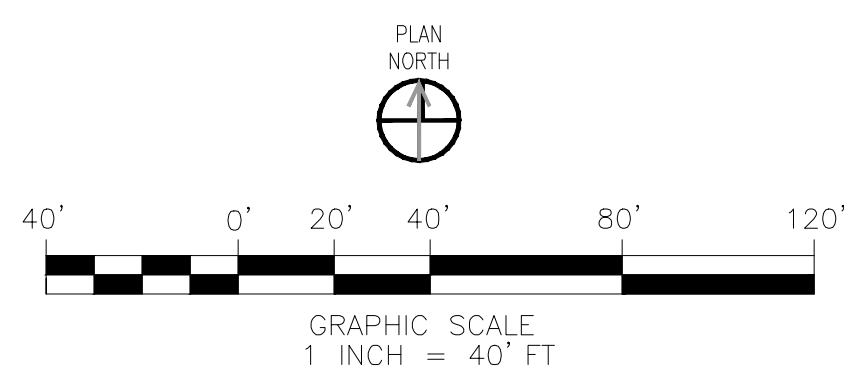
MATTHEW C. MOORE R.C.E. NO. 56780 EXP. 06-30-2013 DATE

FOR CITY ENGINEER					DATE	V.T.M.
DESCRIPTION	BY	APPROVED	DATE	FILMED		
ORIGINAL	URS					XXXX-XXXX NAD83 COORDINATES
AS-BUILTS						XXX-XXXX LAMBERT COORDINATES
CONTRACTOR		DATE STARTED				
INSPECTOR		DATE COMPLETED				



**NOTES:**

- 1 SEE SHEET 5 FOR CHANNEL SECTION.
- 2 CONSTRUCT TEMPORARY GRAVEL BAG BERM. VACTOR TRUCK SHALL BE USED TO REMOVE ANY PONDED WATER.
- 3 GRAVEL BAGS SHALL BE USED AT GAPS IN THE BASE OF THE RETAINING WALL.
- 4 USE PERIMETER PROTECTION BMPs AS NECESSARY AROUND STAGING AREA LIMITS.

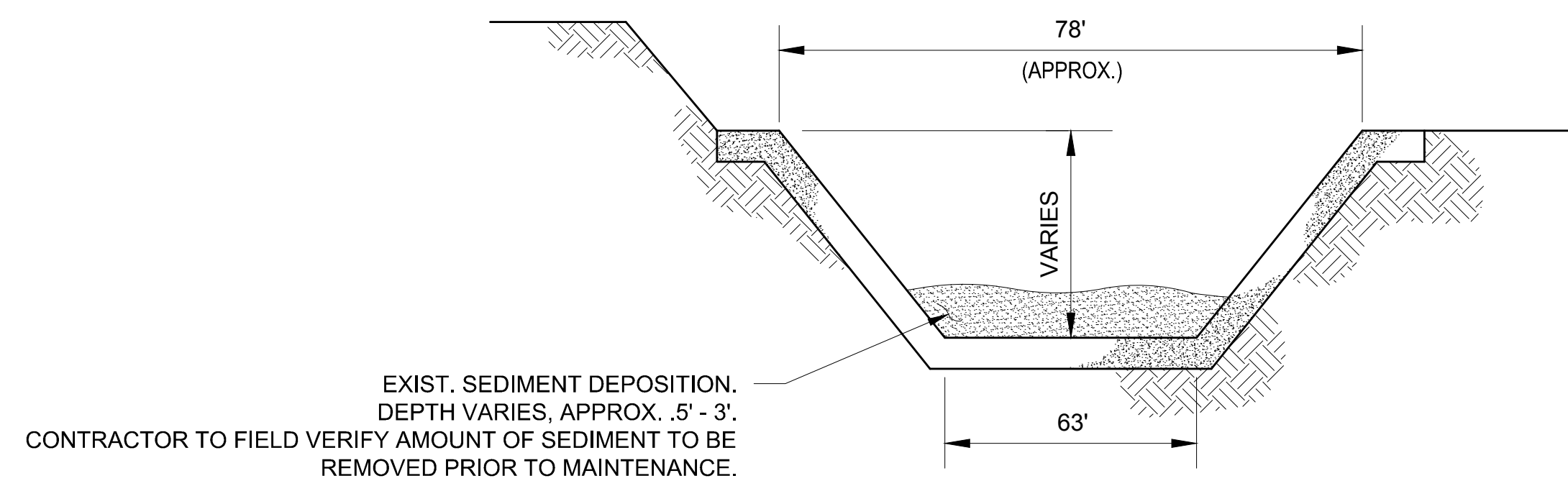


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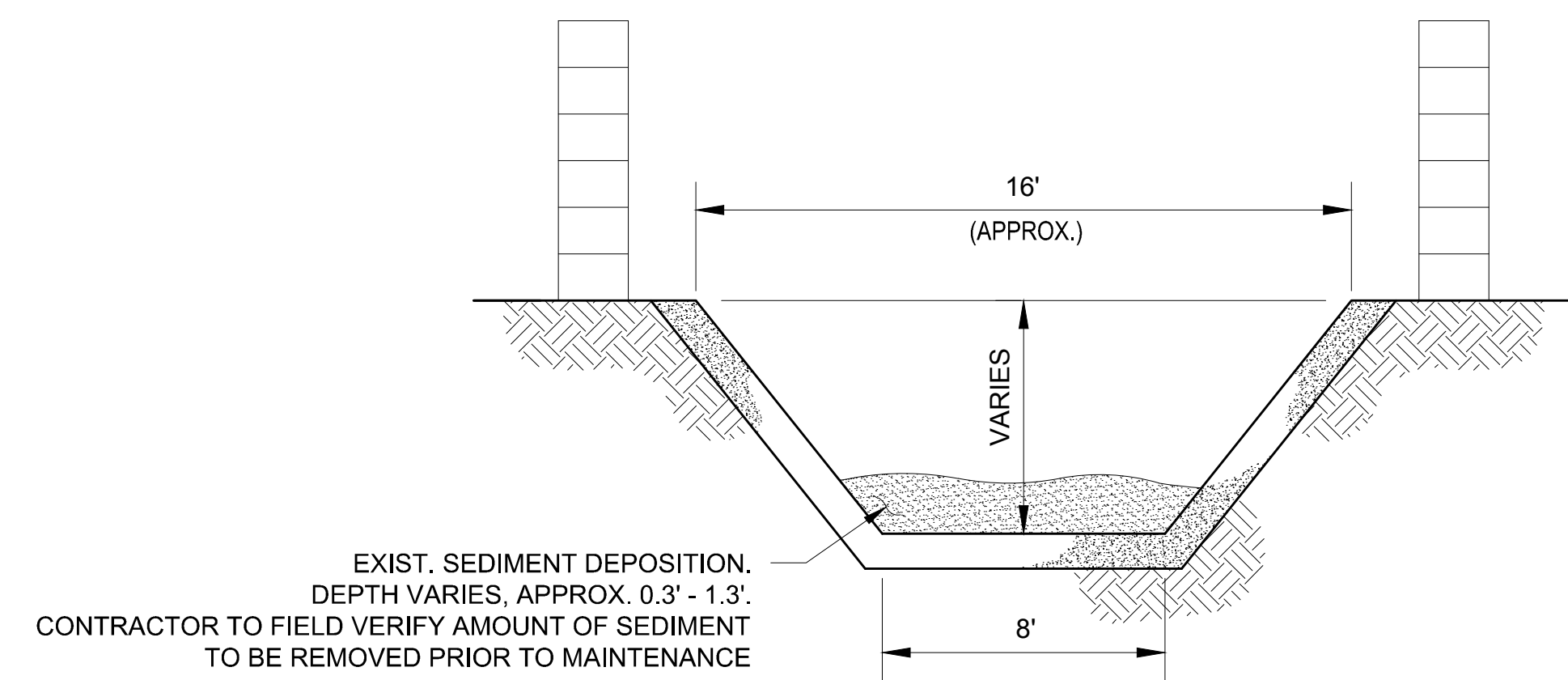
MATTHEW C. MOORE R.C.E. NO. 56780 EXP. 06-30-2013 DATE

**MAINTENANCE PLANS FOR:  
 FLINTKOTE CHANNEL  
 MMP MAP #9  
 REACH 7A, 7B & 7C**

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 4 OF 12 SHEETS				I.O. NO. _____ PROJECT NO. _____
FOR CITY ENGINEER			DATE	V.T.M.
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	URS			
AS-BUILTS				XXXX-XXXX NAD83 COORDINATES
CONTRACTOR _____ DATE STARTED _____				XXX-XXXX LAMBERT COORDINATES
INSPECTOR _____ DATE COMPLETED _____				



REACH 3 CHANNEL SECTION (TYPICAL)  
NOT TO SCALE



REACH 7 CHANNEL SECTION (TYPICAL)  
NOT TO SCALE

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MATTHEW C. MOORE R.C.E. NO. 56780 EXP. 06-30-2013 DATE

MAINTENANCE PLANS FOR:					Sorrento Channels CHANNEL TYPICAL SECTION	
CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 5 OF 12 SHEETS					I.O. NO. _____ PROJECT NO. _____	
FOR CITY ENGINEER _____					DATE _____	
DESCRIPTION	BY	APPROVED	DATE	FILMED	V.T.M. _____	
ORIGINAL	URS				XXXX-XXXX NAD83 COORDINATES	
					XXX-XXXX LAMBERT COORDINATES	
AS-BUILTS						
CONTRACTOR _____					DATE STARTED _____	
INSPECTOR _____					DATE COMPLETED _____	

**MAINTENANCE BMP NOTES:**

- ALL BEST MANAGEMENT PRACTICES (BMPs) WILL BE IMPLEMENTED PRIOR TO OR CONCURRENT WITH CONSTRUCTION AND MAINTAINED THROUGHOUT THE PROJECT. A QUALIFIED CONTACT PERSON 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.
- CONTRACTOR WILL LIMIT ALL CONSTRUCTION RELATED ACTIVITIES TO THE PROJECT FOOTPRINT.
- EXISTING VEGETATION TO BE PRESERVED IN PLACE SHALL BE CLEARLY MARKED WITH A BUFFER AREA FOLLOWING THE GUIDANCE OF BMP FACT SHEET EC-2.
- REMOVAL OF VEGETATION MUST OCCUR BY HAND, MECHANICALLY, OR USING U.S. ENVIRONMENTAL PROTECTION AGENCY APPROVED HERBICIDES DEPLOYED WITH APPLICABLE BMPs TO PREVENT IMPACTS TO BENEFICIAL USES OF WATERS OF THE U.S. AND/OR STATE. USE OF AQUATIC PESTICIDES MUST BE DONE IN ACCORDANCE WITH STATE WATER RESOURCES CONTROL BOARD WATER QUALITY ORDER NO. 2004-0009-DWQ, AND ANY SUBSEQUENT REISSUANCE AS APPLICABLE. REMOVAL OF VEGETATION MUST OCCUR OUTSIDE OF THE AVIAN NESTING SEASON (MARCH 15-AUGUST 31).
- REMOVAL AND DISPOSAL OF EXOTIC INVASIVE SPECIES SHALL BE DONE IN A MANNER THAT PREVENTS THE SPREAD OF EXOTIC INVASIVE SPECIES TO OTHER AREAS.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ADEQUATE WIND EROSION CONTROL IS AVAILABLE ONSITE FOLLOWING BMP FACT SHEET WE-1.
- STABILIZED CONSTRUCTION ROADWAYS AND ENTRANCE/EXITS WILL BE INSTALLED TO PREVENT TRACKING FOLLOWING THE GUIDANCE OF BMP FACT SHEET TC-1 AND TC-2.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON STREETS AND OTHER PAVED SURFACES DUE TO EXCAVATION AND STOCKPIILING ACTIVITIES. STREET SWEEPING AND VACUUMING WILL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET SE-7.
- THE PERIMETER OF THE SITES SHALL BE PROTECTED AGAINST RUN-ON AND RUNOFF USING LINEAR SEDIMENT BARRIERS SUCH AS DRAINAGE SWALES, SILT FENCE, FIBER ROLLS, AND/OR GRAVEL BAG BERMS. THE SEDIMENT CONTROL BMPs MAY BE USED INTERCHANGEABLY BASED ON SITE CONDITIONS AND STORMWATER CONCENTRATION.
- CONTRACTOR TO PLACE LINEAR SEDIMENT BARRIERS AROUND WORK ZONE FOLLOWING THE GUIDANCE OF BMP FACT SHEETS SC-1, SC-5, SC-6 AND/OR SC-8. SC-1 OR SC-5 SHALL BE USED WHERE APPROPRIATE IN CONJUNCTION WITH CONSTRUCTION FENCE, WHICH WILL BE USED AS SUPPORT. FIBER ROLLS MUST BE ADEQUATELY SECURED SO THAT STORMWATER CANNOT GET AROUND OR UNDER THEM.
- GRAVEL BAG BERMS MAY BE USED TO FORM BARRIERS ACROSS SLOPES TO INTERCEPT RUNOFF AND RELEASE IT AS SHEET FLOW, PROVIDING SOME SEDIMENT REMOVAL. GRAVEL BAGS CAN BE USED WHERE FLOWS ARE MODERATELY CONCENTRATED, SUCH AS IN DITCHES AND SWALES. GRAVEL BAGS SHALL BE USED AS A LINEAR SEDIMENT BARRIER IF FLOW EXCEEDS THE ABILITY OF FIBER ROLLS TO CONTROL. GRAVEL BAG BERMS WILL BE IMPLEMENTED FOLLOWING THE GUIDANCE OF BMP FACT SHEET SE-6.
- FIBER ROLLS SHALL ALSO BE USED IN VEGETATED AREAS, ON SLOPES, AND TO FORM BERMS AROUND STOCKPILES. FIBER ROLLS SHALL BE IMPLEMENTED FOLLOWING THE GUIDANCE OF BMP FACT SHEET SC-5. SILT FENCE MAY ALSO BE USED AT TOES OF STOCKPILES.
- 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.
- SOIL ROUGHENING CAN BE USED IN CONJUNCTION WITH HYDRAULICALLY APPLIED STABILIZATION METHODS, GEOTEXTILES, FIBER ROLLS, OR MULCH TO PROTECT, TEMPORARY STOCKPILES, OR SWALES FOLLOWING THE GUIDANCE OF BMP FACT SHEETS EC-4, EC-5, & EC-7.
- CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER AFTER EACH RUNOFF-PRODUCING RAINFALL.
- 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.
- WASTE AND STOCKPILES SHALL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEETS WM-3, WM-5, WM-6, WM-7, AND WM-10. COMPOSTABLE GREEN WASTE MATERIALS SHALL BE TRANSPORTED TO AN APPROVED COMPOSTING FACILITY WHEN FEASIBLE.
- EXPOSED WASTE MATERIALS AND SOIL STOCKPILES SHALL BE TEMPORARILY STORED IN STAGING AREAS UNTIL REMOVAL TO A PERMITTED DISPOSAL FACILITY. EXPOSED WASTE MATERIALS AND SOIL STOCKPILES SHALL BE PROTECTED IN PLACE USING SILT FENCE, FIBER ROLLS, GRAVEL BAGS, PLASTIC COVERS, AND/OR DRAINAGE SWALES FOLLOWING THE GUIDANCE OF BMP FACT SHEETS SE-1, SE-5, SE-6, EC-7 AND/OR EC-9. MANAGEMENT OF STOCKPILES TEMPORARILY MUST ALSO COMPLY WITH R9-2007-0104, CONDITIONAL WAIVERS OF WASTE DISCHARGE REQUIREMENTS FOR SPECIFIC TYPES OF DISCHARGE WITHIN THE SAN DIEGO REGION, CONDITIONAL WAIVER 8.

- EXCAVATED MATERIALS FROM THE CHANNELS SHALL BE PROCESSED TO SEPARATE OUT SEDIMENT, VEGETATION, AND TRASH TO THE MEP.
- WASTE TIRES SHALL BE SEPARATED FROM EXCAVATED MATERIALS AND TRANSPORTED 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.
- EXCAVATED MATERIALS WILL BE REUSED, 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.
- 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/REMEDIAION SERVICE SHALL BE LOCALLY AVAILABLE ON CALL.
- MAINTENANCE-RELATED TRASH WILL BE STORED IN AN APPROPRIATE RECEPTACLE WITH A COVER IN THE STAGING AREAS AT LEAST 150 FEET FROM STORM WATER FACILITIES, AND TRASH RECEPTACLES WILL BE EMPTIED/REMOVED REGULARLY (AT LEAST ONCE PER WEEK).
- 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.
- CONSTRUCTION DEWATERING OPERATIONS SHALL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET NS-2. GROUNDWATER DEWATERING SHALL BE MANAGED IN ACCORDANCE WITH THE GENERAL WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES FROM TEMPORARY GROUNDWATER EXTRACTION AND SIMILAR WASTE DISCHARGES TO SAN DIEGO BAY. TRIBUTARIES THERETO UNDER TIDAL INFLUENCE, AND STORM DRAINS OR OTHER CONVEYANCE SYSTEMS TRIBUTARY THERETO (WDR) ORDER NO. R9-2007-0034, NPDES NO. CAG919001.
- SANITARY FACILITIES WILL BE PROVIDED ONSITE FOR THE USE OF PERSONNEL AND WILL BE PROPERLY MAINTAINED, INCLUDING BEING EQUIPPED WITH SECONDARY CONTAINMENT FOLLOWING THE GUIDANCE OF BMP FACT SHEET WM-9
- SPILLS SHALL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET WM-4. SPILL CLEANUP MATERIALS SHALL BE AVAILABLE ONSITE AT ALL TIMES.
- MATERIAL USE, DELIVERY AND STORAGE SHALL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEETS WM-1 AND WM-2.
- WATER SHALL BE CONSERVED FOLLOWING THE GUIDANCE OF BMP FACT SHEET NS-1 SO AS NOT TO ALLOW UNAUTHORIZED NON-STORMWATER DISCHARGES.
- BMP MATERIAL SHALL BE STORED ONSITE TO PROVIDE COMPLETE PROTECTION OF EXPOSED AREAS AND PREVENT OFFSITE SEDIMENT TRANSPORT.
- VEHICLE AND EQUIPMENT FUELING/MAINTENANCE SHALL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEETS NS-9 AND NS-10. THE FUELING AREA SHALL BE LOCATED AT LEAST 150 FEET AWAY FROM THE CHANNELS. NO ROUTINE MAINTENANCE AND NO STORAGE OF PETROLEUM PRODUCTS OR CHEMICALS ARE PERMITTED ONSITE. RE-FUELING WILL BE RESTRICTED TO HEAVY EARTH MOVING EQUIPMENT (NOT DUMP TRUCKS). EQUIPMENT WILL BE INSPECTED DAILY FOR FLUID LEAKS AND PROMPTLY CLEANED UP.
- STATIONARY EQUIPMENT (CRANES, MOTORS, PUMPS, ETC.) LOCATED IN OR ADJACENT TO THE CHANNELS SHALL BE POSITIONED OVER DRIP PANS.
- THE CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO EXTINGUISH SMALL BRUSH FIRES (FROM SPARKING VEHICLES, ETC.) ONSITE DURING ALL PHASES OF PROJECT ACTIVITIES, ALONG WITH TRAINED PERSONNEL FOR USE OF SUCH EQUIPMENT.
- 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. STOCKPILES SHALL BE REMOVED FROM THE PROJECT SITE WITHIN 48 HOURS OF FORECASTED RAIN. NO CONSTRUCTION ACTIVITIES SHALL OCCUR DURING RAIN EVENTS.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE TRAINING FOR ALL PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ONSITE BMPs.
- THE QUALIFIED CONTACT PERSON WILL ASSIGN A MONITOR FOR DAILY

- INSPECTION OF THE BMPs. 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 CHECKLISTS WILL BE KEPT WITH THE WPCP.
- PREVIOUSLY UNDISTURBED STAGING AREAS WILL BE REVEGETATED WITHIN 30 DAYS OF COMPLETION OF MAINTENANCE ACTIVITIES. THE REVEGETATED AREAS WILL BE MONITORED FOR A PERIOD OF NOT LESS THAN 25 MONTHS AFTER PLANTING.
  - FINAL LOCATION OF CHANNEL CENTERLINE WILL BE DETERMINED IN THE FIELD AND COORDINATED WITH NECESSARY PROJECT SPECIALISTS (BIOLOGIST, HISTORICAL MONITOR, ETC.).
  - FLOW DIVERSIONS SHALL BE GRAVITY SYSTEMS UNLESS OTHERWISE AUTHORIZED BY DFG. DIVERSIONS SHALL BE ENGINEERED, INSTALLED AND MAINTAINED TO ASSURE RESISTANCE TO WASHOUT AND EROSION OF THE STREAM BED AND BANKS. NORMAL FLOWS SHALL BE RESTORED TO THE AFFECTED STREAM IMMEDIATELY UPON COMPLETION OF THE WORK AT THAT LOCATION.

**REACH 3 MAINTENANCE PROCEDURE:**

**PRE-MAINTENANCE ACTIVITIES:**

- PRECONSTRUCTION MEETING - CONDUCT A PRE-MAINTENANCE MEETING ON-SITE PRIOR TO THE START OF ANY MAINTENANCE ACTIVITY. QUALIFIED SPECIALISTS SHALL: INDICATE/IDENTIFY ANY SENSITIVE BIOLOGICAL/HISTORICAL/WATER QUALITY RESOURCES TO BE AVOIDED DURING MAINTENANCE, FLAG/DELINEATE SENSITIVE RESOURCES TO BE AVOIDED DURING MAINTENANCE, REVIEW SPECIFIC MEASURES TO BE IMPLEMENTED TO MINIMIZE DIRECT/INDIRECT IMPACTS, AND DIRECT CREWS OR OTHER PERSONNEL TO PROTECT SENSITIVE RESOURCES AS NECESSARY.
- TRAINING - CONDUCT TRAINING FOR PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ON-SITE BMPs.
- BMP INSTALLATION - INSTALL CONSTRUCTION BMPs (SEDIMENT, EROSION CONTROL, ETC.) IN ACCORDANCE WITH THE WATER POLLUTION CONTROL PLAN.
- MOBILIZE EQUIPMENT AT STAGING AREAS.

**CHANNEL SEQUENCE:**

- REACH 3A - STATION 0+00 TO 0+93 - ACCESS RAMP TO MTS PEDESTRIAN BRIDGE THAT CROSSES CHANNEL
- REACH 3B - STATION 0+93 TO 6+75 - MTS PEDESTRIAN BRIDGE THAT CROSSES CHANNEL TO SORRENTO VALLEY BLVD (SVB) BRIDGE
- REACH 3C - STATION 6+75 TO 7+69 - UNDERNEATH SORRENTO VALLEY BLVD (SVB) BRIDGE
- REACH 3D - STATION 7+69 TO 22+80 - SOUTH OF SORRENTO VALLEY BLVD (SVB) BRIDGE TO END OF CONCRETE-LINED CHANNEL

**METHODOLOGY:**

**REACH 3A:**

- DRY WEATHER FLOW DIVERSION BERM (WATER FILLED BARRIERS, SANDBAGS, AND VISQUEEN), PLACED AT NORTHERN LIMITS OF CHANNEL CLEANING.
- SECOND DRY WEATHER FLOW DIVERSION BERM, DIVERSION PIPES, & PUMPS PLACED WITHIN CHANNEL IMMEDIATELY UPSTREAM OF SORRENTO VALLEY ROAD BRIDGE.
- MAINTENANCE AREA BETWEEN THE FLOW DIVERSION BERMS DEWATERED AS NECESSARY
- RUBBER TRACKED SKID-STEER(S), DUMP TRUCK & LOADER ENTER/EXIT(S) REACH 3A VIA PERMANENT ACCESS RAMP AT ACCESS & LOADING AREA-3A.
- RUBBER TRACKED SKID-STEER(S) MOVE MATERIAL INTO PILES FOR LOADER. LOADER LOADS MATERIAL INTO WAITING DUMP TRUCK.
- DUMP TRUCK HAULS MATERIAL OUT OF CHANNEL VIA RAMP AT ACCESS & LOADING AREA-3A TO LEGAL DISPOSAL SITE.

**REACH 3B:**

- EQUIPMENT ENTER/EXIT(S) REACH 3B FROM ACCESS & LOADING AREA-3A VIA REACH 3A.
- EXCAVATOR SCOOPS MATERIAL & PLACES MATERIAL IN PILES FOR RUBBER TRACKED SKID-STEER(S).
- RUBBER TRACKED SKID-STEER(S) MOVE MATERIAL FROM REACH 3B UNDER THE MTS PEDESTRIAN BRIDGE TO THE LOADER.
- LOADER LOADS MATERIAL DEPOSITED BY RUBBER TRACKED SKID-STEER(S) INTO WAITING DUMP TRUCK.
- DUMP TRUCK HAULS MATERIAL OUT OF CHANNEL VIA RAMP AT ACCESS & LOADING AREA-3A TO LEGAL DISPOSAL SITE.

**REACH 3C:**

- SKID-STEER ENTERS/EXIT(S) REACH 3C FROM ACCESS & LOADING AREA-3A VIA REACHES 3A & 3B AND VIA ACCESS & LOADING AREA-3B VIA REACH 3D
- SKID-STEER MOVES MATERIAL FROM REACH 3C (UNDER SVB BRIDGE INTO EITHER REACH 3B OR 3D DEPENDING ON WHICH IS CLOSER.)
- ONCE MATERIAL IS IN REACH 3B OR 3D IT IS HANDLED IN THE MANNER DESCRIBED IN THOSE REACHES.
- REMOVE DRY WEATHER DIVERSION BERM FROM NORTHERN LIMITS OF CHANNEL CLEARING.

**REACH 3 MAINTENANCE PROCEDURE CONT.:**

**REACH 3D:**

- INSTALL DRY WEATHER FLOW DIVERSION BERM, DIVERSION PIPES, & PUMPS PLACED WITHIN CHANNEL UPSTREAM OF ACCESS & LOADING AREA-3B.
- CREWS REMOVE GUARDRAILS, FENCE, &/OR BOLLARDS TO OPEN GATE FOR ACCESS & LOADING AREA-3B
- LOADER & EXCAVATOR ENTER CHANNEL AT ACCESS & LOADING AREA-3B
- LOADER CONSTRUCTS TEMPORARY RAMP WITH IN-CHANNEL MATERIAL TO BETTER FACILITATE ACCESS.
- EXCAVATOR MOVES UPSTREAM OR DOWNSTREAM FROM ACCESS & LOADING AREA-3B & PLACES MATERIAL IN PILES FOR LOADER.
- LOADER MOVES MATERIAL TO ACCESS & LOADING AREA-3D.
- SECOND EXCAVATOR USES ONE OF THE OPTIONS BELOW TO SCOOP MATERIAL WITHIN CHANNEL & LOADS WAITING DUMP TRUCK STATIONED IN PUBLIC RIGHT-OF-WAY (ROSELLE ST).
- OPTION A: EXCAVATOR IS STATIONED OUTSIDE THE CHANNEL IN ACCESS & LOADING AREA-3D; OR
- OPTION B: TEMPORARY IN CHANNEL LOADING PAD AREA IS CONSTRUCTED WITH IN-CHANNEL MATERIAL, IF AVAILABLE.
- DUMP TRUCK HAULS MATERIAL TO LEGAL DISPOSAL SITE.
- REMOVE REMAINING DRY WEATHER DIVERSION BERMS.

**POST-CONSTRUCTION:**

- DEMOLIBIZE EQUIPMENT.
- REPLACE FENCE, BOLLARDS, & GUARDRAILS AT ACCESS & LOADING AREA-3D.
- RESTORE SITE, INCLUDING TEMPORARY ACCESS & LOADING AREA(S), TO PRE-MAINTENANCE OR AS-BUILT CONDITION.
- REMOVE STANDING WATER (IF ANY) WITHIN DRAINAGE FACILITY WITH PUMPS OR VACTOR.
- REMOVE TEMPORARY CONSTRUCTION BMPs.

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EXP. 06-30-2013

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<b>MAINTENANCE PLANS FOR:</b>					
<b>SORRENTO CHANNELS MAINTENANCE BMP NOTES</b>					
CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 6 OF SHEETS					I.O. NO. _____ PROJECT NO. _____
FOR CITY ENGINEER _____				DATE _____	V.T.M. _____
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	xxx				
					XXXX-XXXX NAD83 COORDINATES
					XXX-XXXX LAMBERT COORDINATES
AS-BUILTS					
CONTRACTOR _____			DATE STARTED _____		
INSPECTOR _____			DATE COMPLETED _____		

**ADDITIONAL MAINTENANCE REQUIREMENTS:**

- THE MASTER LIST OF BMPs, INCLUDED AS APPENDIX B IN THE WPCP, SHOULD BE CONSULTED FOR ADDITIONAL BIOLOGICAL, CULTURAL, AND WATER QUALITY RELATED REQUIREMENTS.
- AN ONSITE PRE-MAINTENANCE MEETING SHOULD BE CONDUCTED PRIOR TO THE START OF THE PROJECT. IN ATTENDANCE AT THE MEETING SHOULD BE THE: MAINTENANCE CONTRACTOR, CITY STORM WATER DIVISION REPRESENTATIVES, MITIGATION MONITORING COORDINATOR, QUALIFIED WATER QUALITY SPECIALIST, PROJECT BIOLOGIST/MONITOR, QUALIFIED ARCHAEOLOGIST/HISTORICAL MONITOR/PALEONTOLOGICAL MONITOR, AND ANY OTHER KEY PERSONNEL. SENSITIVE HISTORICAL AND BIOLOGICAL RESOURCES SHOULD BE IDENTIFIED TO BE AVOIDED DURING THE MAINTENANCE ACTIVITIES AS WELL AS ANY CONDITIONS FOR POSSIBLE NIGHT AND/OR WEEKEND WORK. THE WATER QUALITY SPECIALIST SHOULD IDENTIFY MITIGATION MEASURES, PROTOCOLS AND BMPs TO BE CARRIED OUT DURING THE MAINTENANCE. THE MASTER LIST OF BMPs PROVIDES DETAILED INFORMATION ON PROCEDURES TO BE FOLLOWED.
- THE CITY SHALL NOTIFY DFG, IN WRITING, AT LEAST FIVE DAYS PRIOR TO INITIATION OF CONSTRUCTION (PROJECT) ACTIVITIES AND AT LEAST FIVE DAYS PRIOR TO COMPLETION OF CONSTRUCTION (PROJECT) ACTIVITIES, EACH TIME PROJECT ACTIVITIES OCCUR. NOTIFICATION SHALL BE SENT TO DFG'S SOUTH COAST OFFICE, ATTN: STREAMBED ALTERATION PROGRAM - SM # 1600-2011-0271-R5.
- AVOID THE INTRODUCTION OF INVASIVE PLANT SPECIES WITH PHYSICAL EROSION CONTROL MEASURES.
- 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 RAPTORS HAVE BEEN IDENTIFIED AND NECESSARY MAINTENANCE SETBACKS HAVE BEEN ESTABLISHED IF MAINTENANCE IS TO OCCUR BETWEEN JANUARY 15 AND AUGUST 31. SEE THE MASTER LIST OF BMPs FOR ADDITIONAL INFORMATION.
- A QUALIFIED BIOLOGICAL MONITOR THAT CAN RECOGNIZE CLAPPER RAILS AND THEIR VOCALIZATIONS SHALL BE PRESENT DURING ALL THE PROJECT MAINTENANCE ACTIVITY WITHIN THE CHANNELS. ENFORCE THE LIMITS OF MAINTENANCE AND ENSURE THAT NO HARM TO CLAPPER RAILS OCCURS. BEFORE EACH WORKDAY IN THE PILOT CHANNEL BEGINS, THE BIOLOGICAL MONITOR SHALL WALK UPSTREAM TO DOWNSTREAM ON EITHER SIDE OF THE CHANNEL TO EVALUATE IF CLAPPER RAILS HAVE ENTERED THE PROJECT AREA. THE BIOLOGICAL MONITOR WILL FOLLOW PROCEDURES OUTLINED IN THE MASTER LIST OF BMPs.
- CONTRACTOR SHALL HAVE A QUALIFIED BIOLOGIST ON SITE DAILY DURING PROJECT ACTIVITY TO ENSURE THAT AGREEMENT CONDITIONS ARE BEING MET AND MINIMIZE IMPACTS TO HABITAT. THE BIOLOGIST WILL BE KNOWLEDGEABLE OF VIREO BIOLOGY AND ECOLOGY. THE BIOLOGIST SHALL BE AUTHORIZED TO STOP CONSTRUCTION IF NECESSARY TO PROTECT FISH AND WILDLIFE RESOURCES. IF ANY PROTECTED SPECIES ARE FOUND THE BIOLOGIST SHALL INFORM DFG. IF THERE IS A THREAT OF HARM TO ANY PROTECTED SPECIES OR OTHER AQUATIC WILDLIFE THE BIOLOGIST SHALL HALT CONSTRUCTION AND NOTIFY DFG. CONSULTATION WITH DFG IS REQUIRED BEFORE RE-COMMENCING WORK. THE QUALIFIED BIOLOGIST WILL FOLLOW PROCEDURES OUTLINED IN THE MASTER LIST OF BMPs.
- IF ANY WILDLIFE IS ENCOUNTERED DURING THE COURSE OF MAINTENANCE, SAID WILDLIFE SHALL BE ALLOWED TO LEAVE THE MAINTENANCE AREA UNHARMED.
- IF A LISTED SPECIES IS LOCATED WITHIN 500 FEET OF A PROPOSED MAINTENANCE ACTIVITY AND MAINTENANCE WOULD OCCUR DURING THE ASSOCIATED BREEDING SEASON, AN ANALYSIS OF THE NOISE GENERATED BY MAINTENANCE ACTIVITY SHALL BE COMPLETED BY A QUALIFIED ACOUSTICIAN (POSSESSING CURRENT NOISE ENGINEER LICENSE OR REGISTRATION WITH MONITORING NOISE LEVEL EXPERIENCE WITH LISTED ANIMAL SPECIES) AND APPROVED BY THE ADD ENVIRONMENTAL DESIGNER. THE MASTER LIST OF BMPs PROVIDES DETAILED INFORMATION ON PROCEDURES TO BE FOLLOWED.
- ALL LIGHTING ADJACENT TO, OR WITHIN, THE MHPA SHALL BE SHIELDED, UNIDIRECTIONAL, LOW PRESSURE SODIUM ILLUMINATION (OR SIMILAR) AND DIRECTED AWAY FROM SENSITIVE AREAS USING APPROPRIATE PLACEMENT AND SHIELDS. IF LIGHTING IS REQUIRED FOR NIGHTTIME MAINTENANCE, IT SHALL BE DIRECTED AWAY FROM THE PRESERVE AND THE TOPS OF ADJACENT TREES WITH POTENTIALLY NESTING RAPTORS, USING APPROPRIATE PLACEMENT AND SHIELDING.

**MAINTENANCE PROTOCOL REQUIREMENTS:**

- WQ-2: PREVENT OFFSITE SEDIMENT TRANSPORT DURING MAINTENANCE THROUGH THE USE OF EROSION AND SEDIMENT CONTROLS WITHIN STORM WATER FACILITIES, ALONG ACCESS ROUTES AND AROUND THE STOCKPILE/STAGING AREAS. INSTALL BMPs SUCH AS SILT FENCES, FIBER ROLLS, GRAVEL BAGS, TEMPORARY SEDIMENT BASINS, STABILIZED MAINTENANCE ACCESS POINTS (E.G. SHAKE PLATES), CONTAINMENT BARRIERS (E.G. SILT FENCE, FIBER ROLLS, AND/OR BERMS), FOR MAINTENANCE STOCKPILES AND PROPERLY FITTED COVERS FOR MATERIAL TRANSPORT VEHICLES. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURE UPON COMPLETION OF MAINTENANCE UNLESS THEIR REMOVAL WOULD RESULT IN GREATER ENVIRONMENTAL IMPACT THAT LEAVING THEM IN PLACE.
- WQ-3: STORE BMP MATERIALS ONSITE TO PROVE COMPLETE PROTECTION OF EXPOSED AREAS AND PREVENT OFFSITE SEDIMENT TRANSPORT.
- WQ-4: PROVIDE TRAINING FOR PERSONNEL RESPONSIBLE FOR PROPER INSTALLATION, INSPECTION AND MAINTENANCE OF ONSITE BMPs.
- WQ-5: REVEGETATE SPOIL AND STAGING AREAS WITHIN 30 DAYS OF COMPLETION OF MAINTENANCE ACTIVITIES. MONITOR AND MAINTAIN REVEGETATED AREAS FOR A PERIOD OF NOT LESS THAN 25 MONTHS FOLLOWING PLANTING.
- WQ-6: IMPLEMENT SAMPLING AND ANALYSIS, MONITORING AND REPORTING, AND POST MAINTENANCE MANAGEMENT PROGRAMS PER NPDES AND/OR CITY REQUIREMENTS.
- WQ-7: AVOID STORING HAZARDOUS MATERIAL 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.
- WQ-8: STORM MAINTENANCE RELATED TRASH IN AREAS AT LEAST 50 FEET AWAY FROM STORM WATER FACILITIES AND REMOVE ANY TRASH RECEPTACLE REGULARLY (AT LEAST WEEKLY).
- BIO-1: RESTRICT VEHICLES TO ACCESS DESIGNATED IN THE MASTER PROGRAM.
- 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 IBA, IHHA, AND/OR IMP.
- BIO-3: CONDUCT A PRE-MAINTENANCE ONSITE 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 ALOST REVIEW THE PROPOSED EROSION CONTROL METHODS TO CONFIRM THEY WILL NOT POSE RISK TO WILDLIFE (E.G., NON-BIODEGRAABLE BLANKETS MAY ENTANGLE WILDLIFE).
- BIO-4: AVOID THE INTRODUCTION OF INVASIVE PLANT SPECIES WITH PHYSICAL EROSION CONTROL MEASURES.
- BIO-5: CONDUCT APPROPRIATE PRE-MAINTENANCE PROTOCOL SURVEYS IF MAINTENANCE IS PROPOSED DURING THE BREEDING SEASON OF A SENSITIVE ANIMAL SPECIES. IF SENSITIVE ANIMAL SPECIES COVERED BY THE PEIR ARE IDENTIFIED, THEN APPLICABLE MEASURES FROM THE 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.
- 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 ARUNDO 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.
- 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 RAPTORS NEST UNTIL ANY FLEDGLINGS HAVE LEFT THE NEST.
- WM-1: DISPOSE AND TRANSPORT COMPOSTABLE GREEN WASTE MATERIAL TO AN APPROVED COMPOSTING FACILITY, IF AVAILABLE.
- WM-2: REUSE 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.

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- 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.
- WM-4: LOG AND TRANSPORT ANY HAZARDOUS MATERIALS ENCOUNTERED DURING MAINTENANCE UNDER A HAZARDOUS MATERIALS MANIFEST TO AN APPROVED HAZARDOUS WASTE STORAGE, RECYCLING, TREATMENT OR DISPOSAL FACILITY. PERSONNEL HANDLING HAZARDOUS MATERIALS SHALL HAVE THE APPROPRIATE TRAINING TO HANDLE, STORE, TRANSPORT AND/OR DISPOSE. HAZARDOUS MATERIALS (E.G., MACHINE OIL, MERCURY SWITCHES AND REFRIGERANT GASES) SHALL BE REMOVED FROM APPLIANCES AND DISPOSED IN ACCORDANCE WITH THIS PROTOCOL.

**REACH 7 MAINTENANCE PROCEDURE:**

**PRE-MAINTENANCE ACTIVITIES:**

- PRECONSTRUCTION MEETING - CONDUCT A PRE-MAINTENANCE MEETING ON-SITE PRIOR TO THE START OF ANY MAINTENANCE ACTIVITY. QUALIFIED SPECIALISTS SHALL: INDICATE/IDENTIFY ANY SENSITIVE BIOLOGICAL/HISTORICAL/WATER QUALITY RESOURCES TO BE AVOIDED DURING MAINTENANCE, FLAG/DELINEATE SENSITIVE RESOURCES TO BE AVOIDED DURING MAINTENANCE, REVIEW SPECIFIC MEASURES TO BE IMPLEMENTED TO MINIMIZE DIRECT/INDIRECT IMPACTS, AND DIRECT CREWS OR OTHER PERSONNEL TO PROTECT SENSITIVE RESOURCES AS NECESSARY.
- TRAINING - CONDUCT TRAINING FOR PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ON-SITE BMPs.
- BMP INSTALLATION - INSTALL CONSTRUCTION BMPs IN ACCORDANCE WITH THE WATER POLLUTION CONTROL PLAN.
- MOBILIZE EQUIPMENT AT STAGING AREAS.

**CHANNEL SEQUENCE:**

- REACH 7A - STATION 0+00 TO 4+10 - CONCRETE ACCESS RAMP (FLINKOTE AVE) TO PEDESTRIAN BRIDGE ACROSS CHANNEL
- REACH 7B - STATION 4+10 TO 7+41 - PEDISTRIAN BRIDGE ACROSS CHANNEL TO ROSELLE ST
- REACH 7C - STATION 8+24 TO 10+80 - ROSELLE ST TO (2) 36" REINFORCED CONCRETE PIPES

**METHODOLOGY:**

**REACH 7A:**

- VECTOR REMOVES STANDING WATER FROM CHANNEL & THEN IS POSITIONED AT UPSTREAM END TO CAPTURE ANY INCOMING FLOWS.
- CREWS INSTALL TEMPORARY GRAVEL BAG CHECK DAM ACROSS CHANNEL AT DOWNSTREAM END OF REACH 7A.
- SKID-STEER(S) ENTER/EXIT(S) CHANNEL FROM EXISTING ACCESS RAMP (ACCESS & LOADING AREA-7A)
- SKID-STEER MOVES MATERIAL TO ACCESS & LOADING AREA-7A.
- SKID-STEER LOADS WAITING DUMP TRUCK AT ACCESS & LOADING AREA-7A.
- DUMP TRUCK(S) HAUL MATERIAL TO LEGAL DISPOSAL SITE.

**REACH 7B:**

- CREWS INSTALL TEMPORARY GRAVEL BAG CHECK DAM ACROSS CHANNEL AT DOWNSTREAM END OF REACH 7B.
- GRADALL LOWERS SKID-STEER INTO CHANNEL AT ACCESS & LOADING AREA-7B.
- SKID-STEER MOVES MATERIAL FROM PEDESTRIAN BRIDGE TO ACCESS & LOADING AREA-7B.
- GRADALL STATIONED OUTSIDE AND ABOVE CHANNEL BANK IN ACCESS & LOADING AREA-7B SCOOPS MATERIAL IN CHANNEL & LOADS INTO DUMP TRUCK.
- DUMP TRUCK(S) HAUL MATERIAL TO LEGAL DISPOSAL SITE.

**REACH 7C:**

- VECTOR REMOVES STANDING WATER FROM CHANNEL & THEN IS POSITIONED AT UPSTREAM END TO CAPTURE ANY INCOMING FLOWS.
- CREWS REMOVE FENCE AT ACCESS & LOADING AREA-7C.
- CREWS INSTALL TEMPORARY GRAVEL BAG CHECK DAM ACROSS CHANNEL AT DOWNSTREAM END OF REACH 7C.
- SKID-STEER ENTER/EXIT(S) CHANNEL FROM ACCESS & LOADING AREA-7C.
- SKID-STEER MOVES MATERIAL TO ACCESS & LOADING AREA-7C.
- EXCAVATOR STATIONED OUTSIDE & ABOVE CHANNEL BANK IN ACCESS & LOADING AREA-7C EXCAVATES MATERIAL FROM CHANNEL.
- EXCAVATOR LOADS MATERIAL INTO WAITING DUMP TRUCK IN STAGING AREA-7C.
- DUMP TRUCK(S) HAULS MATERIAL TO A LEGAL DISPOSAL SITE.

OPTIONAL METHODOLOGY FOR REACH 7B & 7C IF PRIVATE PROPERTY ACCESS IS NOT GRANTED

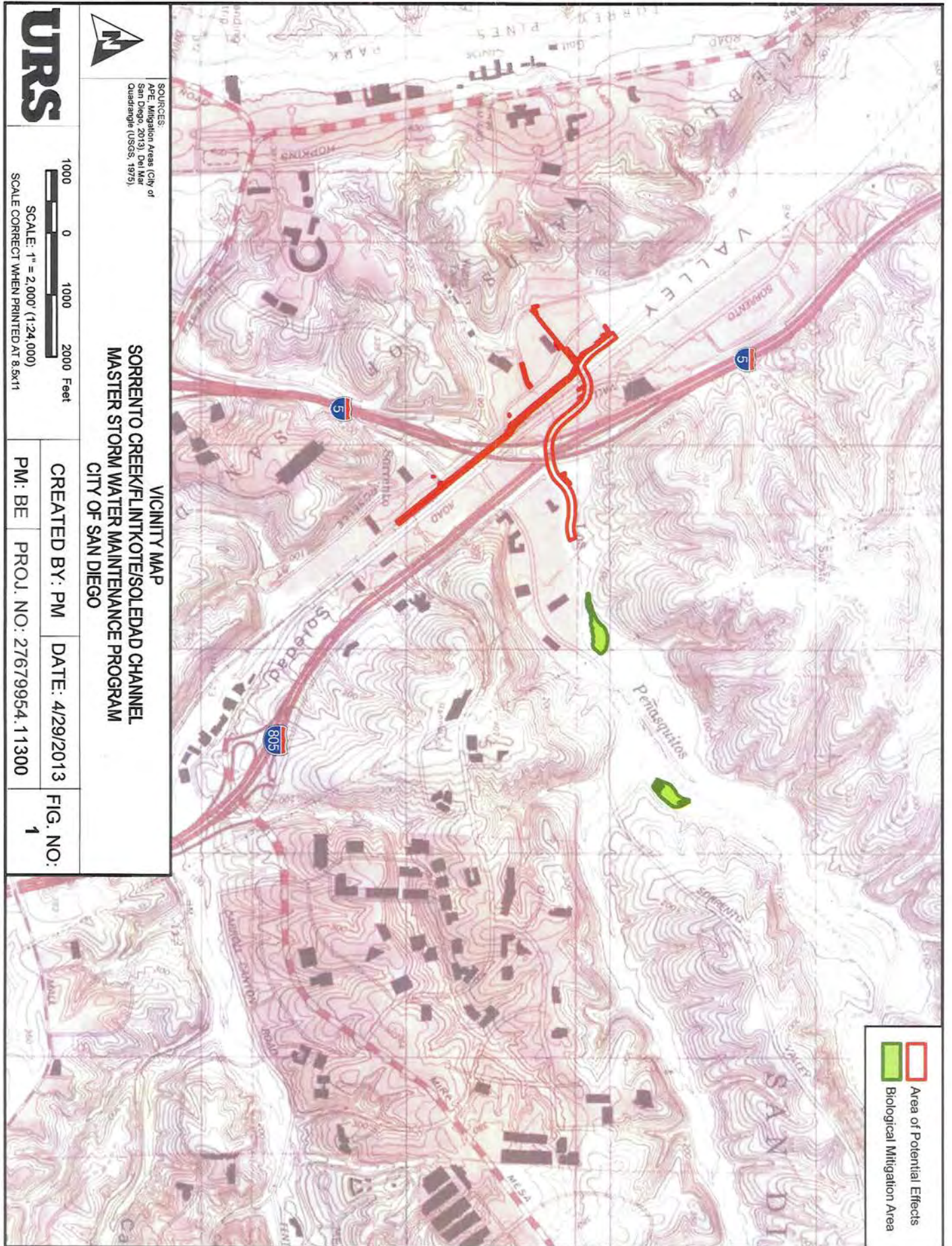
- VECTORS ARE PARKED IN ROSELLE ST NEAR STATION 7+41 AND 8+24.
- CREWS MANUALLY PUSH MATERIAL WITH SHOVELS TO VECTOR TUBE. VECTORS HAUL MATERIAL TO A LEGAL DISPOSAL SITE.

**POST-CONSTRUCTION**

- DEMOBILIZE EQUIPMENT.
- REPLACE FENCE AT ACCESS & LOADING AREA-7C.
- RESTORE SITE, INCLUDING TEMPORARY ACCESS/LOADING AREA(S), TO PRE-MAINTENANCE OR AS-BUILT CONDITION.
- REMOVE TEMPORARY CONSTRUCTION BMPs.

<b>MAINTENANCE PLANS FOR:</b>					
<b>SORRENTO CHANNELS MAINTENANCE NOTES</b>					
CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 7 OF 12 SHEETS					I.O. NO. _____ PROJECT NO. _____
FOR CITY ENGINEER _____ DATE _____					V.T.M. _____
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	xxx				XXXX-XXXX NAD83 COORDINATES
AS-BUILTS					XXX-XXXX LAMBERT COORDINATES
CONTRACTOR _____ DATE STARTED _____					<b>-7-D</b>
INSPECTOR _____ DATE COMPLETED _____					

**ATTACHMENT 4**  
**MITIGATION DESIGN PLANS**



SOURCES:  
APE Mitigation Areas (City of San Diego, 2013), Del Mar Quadrangle (USGS, 1975)

VICINITY MAP  
SORRENTO CREEK/FLINTKOTE/SOLEDAD CHANNEL  
MASTER STORM WATER MAINTENANCE PROGRAM  
CITY OF SAN DIEGO

1000 0 1000 2000 Feet

SCALE: 1" = 2,000' (1:24,000)  
SCALE CORRECT WHEN PRINTED AT 8.5x11

CREATED BY: PM

DATE: 4/29/2013

FIG. NO:

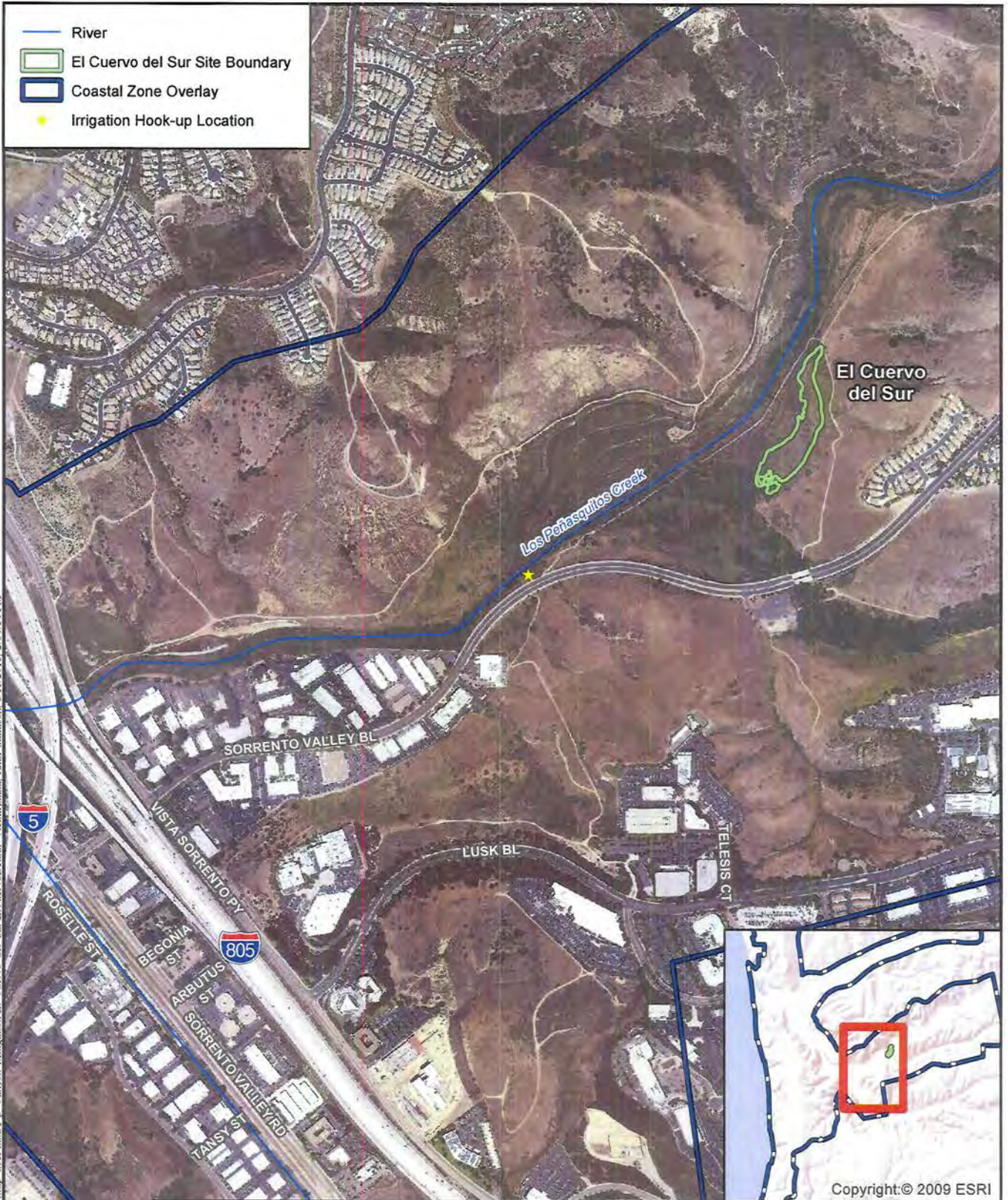
PM: BE

PROJ. NO: 27679954.11300

1

- Area of Potential Effects
- Biological Mitigation Area





Path: G:\s:\projects\1577\27679954\map\_docs\msd\PO\_Canyon\_Mitigation\El\_Cuervo\_del\_Sur\ElCuervoDelSur\_Terratum\msd\_colm\_mitigation\_613\_2013\_2:04:34\_PM

- River
- El Cuervo del Sur Site Boundary
- Coastal Zone Overlay
- Irrigation Hook-up Location


Copyright: © 2009 ESRI

	SOURCES: Site Boundary (URS, 2013), Roads, Rivers, Coastal Zone (SanGIS, 2011), Aerial Imagery (SanGIS, 2012).		<b>VICINITY MAP</b> <b>EL CUERVO DEL SUR HMMP</b> <b>CITY OF SAN DIEGO</b>	
		CREATED BY: DA	DATE: 6/13/2013	FIG. NO: <b>3</b>
	SCALE: 1" = 1,000' (1:12,000) SCALE CORRECT WHEN PRINTED AT 8.5X11		PM: BE	PROJ. NO: 27679954.08300



Path: C:\p\proj\15733\0905\Drawings\157330905\Drawings\157330905\157330905.dwg, 6/14/2013, 12:54:42 PM

Planting Zones	Phase I	Phase II
Herbaceous Wetland	1	0.41
Riparian Scrub	0.94	0.55
Riparian Transitional	0.31	0.51
<b>Total</b>	<b>2.25 acres</b>	<b>1.47 acres</b>



**URS**

SOURCES: Site Boundary, Buffer, Vegetation, Soil Disposal Area (URS, 2013), Soil (SSURGO, USDA, 2007), Aerial Imagery (SanGIS, 2012), Vertical Datum: NAVD 83.

**CONCEPTUAL GRADING PLAN  
EL CUERVO DEL SUR HMMP  
CITY OF SAN DIEGO**

45 0 45 90 Feet

SCALE: 1" = 90' (1:1,080)

SCALE CORRECT WHEN PRINTED AT 11X17

CREATED BY: LR	DATE: 6/14/2013	FIG. NO: <b>10</b>
PM: BE	PROJ. NO: 27679954.08300	



**ATTACHMENT 5**

**MITIGATION MONITORING AND REPORTING PROGRAM**

**ENVIRONMENTAL MITIGATION REQUIREMENTS:**

**CHAPTER 11.0 MITIGATION MONITORING AND REPORTING PROGRAM**

Section 21081.6 of the State of California Public Resources Code requires a Lead or Responsible Agency that approves or carries out a project where an environmental impact report (EIR) has identified significant environmental effects to adopt a "reporting or monitoring program for adopted or required changes to mitigate or avoid significant environmental effects." The City of San Diego is the lead Agency for the Master Program PEIR, and, therefore, is responsible for implementation of the MMRP. Because the PEIR recommends measures to mitigate these impacts, an MMRP is required to ensure that adopted mitigation measures are implemented.

As Lead Agency for the proposed project under CEQA, the City of San Diego will administer the MMRP for the following environmental issue areas: biological resources, historical resources, land use policies, paleontological resources, and water quality.

**GENERAL**

**General Mitigation 1:** Prior to commencement of work, the ADD Environmental Designee of the Entitlements Division shall verify that mitigation measures for impacts to biological resources (Mitigation Measures 4.3.1 through 4.3.20), historical resources (Mitigation Measures 4.4.1 and 4.4.2), land use policy (Mitigation Measures 4.1.1 through 4.1.13), paleontological resources (Mitigation Measure 4.7.1), and water quality (Mitigation Measures 4.8.1 through 4.8.3) have been included in entirety on the submitted maintenance documents and contract specifications, and included under the heading, "Environmental Mitigation Requirements." In addition, the requirements for a Pre-maintenance Meeting shall be noted on all maintenance documents.

**General Mitigation 2:** Prior to the commencement of work, a Pre-maintenance Meeting shall be conducted and include, as appropriate, the MMC, SWD Project Manager, Biological Monitor, Historical Monitor, Paleontological Monitor, Water Quality Specialist, and Maintenance Contractor, and other parties of interest.

**General Mitigation 3:** Prior to the commencement of work, evidence of compliance with other permitting authorities is required, if applicable. Evidence shall include either copies of permits issued, letters of resolution issued by the Responsible Agency documenting compliance, or other evidence documenting compliance and deemed acceptable by the ADD Environmental Designee.

**General Mitigation 4:** Prior to commencement of work and pursuant to Section 1600 et seq. of the State of California Fish & Game Code, evidence of compliance with Section 1605 is required, if applicable. Evidence shall include either copies of permits issued, letters of resolution issued by the Responsible Agency documenting compliance, or other evidence documenting compliance and deemed acceptable by the ADD Environmental Designee.

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**BIOLOGICAL RESOURCES**

Potential impacts to biological resources would be reduced to below a level of significance through implementation of the following mitigation measures as well as Mitigation Measures 4.1-1 through 4.1-25.

**Mitigation Measure 4.3.1:** Prior to commencement of any activity within a specific annual maintenance program, a qualified biologist shall prepare an IBA for each area proposed to be maintained. The IBA shall be prepared in accordance with the specifications included in the Master Program.

**Mitigation Measure 4.3.2:** No maintenance activities within a proposed annual maintenance program shall be initiated before the City's Assistant Deputy Director (ADD) Environmental Designee and state and federal agencies with jurisdiction over maintenance activities have approved the IMPs and IBAs including proposed mitigation for each of the proposed activities. In their review, the ADD Environmental Designee and agencies shall confirm that the appropriate maintenance protocols have been incorporated into each IMP.

**Mitigation Measure 4.3.3:** No maintenance activities within a proposed annual maintenance program shall be initiated until the City's ADD Environmental Designee and Mitigation Monitoring Coordinator (MMC) have approved the qualifications for biologist(s) who shall be responsible for monitoring maintenance activities which may impact sensitive biological resources.

**Mitigation Measure 4.3.4:** Prior to undertaking any maintenance activity included in an annual maintenance program, a mitigation account shall be established to provide sufficient funds to implement all biological mitigation associated with the proposed maintenance activities. The fund amount shall be determined by the ADD Environmental Designee. The account shall be managed by the City's SWD, with quarterly status reports submitted to DSD. The status reports shall separately identify upland and wetland account activity. Based upon the impacts identified in the IBAs, money shall be deposited into the account, as part of the project submittal, to ensure available funds for mitigation.

**Mitigation Measure 4.3.5:** Prior to commencing any activity that could impact wetlands, evidence of compliance with other permitting authorities is required, if applicable. Evidence shall include copies of permits issued, letters of resolution issued by the Responsible Agency documenting compliance, or other evidence documenting compliance and deemed acceptable by the ADD Environmental Designee.

**Mitigation Measure 4.3.6:** Prior to commencing any activity where the IBA indicates significant impacts to biological resources may occur, a pre-maintenance meeting shall be held on site with the following in attendance: City's SWD Maintenance Manager (MM), MMC, and Maintenance Contractor (MC). The biologist selected to monitor the activities shall be present. At this meeting, the monitoring biologist shall identify and discuss the maintenance protocols that apply to the maintenance activities.

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At the pre-maintenance meeting, the monitoring biologist shall submit to the MMC and MC a copy of the maintenance plan (reduced to 11"x17") that identifies areas to be protected, fenced, and monitored. This data shall include all planned locations and design of noise attenuation walls or other devices. The monitoring biologist also shall submit a maintenance schedule to the MMC and MC indicating when and where monitoring is to begin and shall notify the MMC of the start date for monitoring.

**Mitigation Measure 4.3.7:** Within three months following the completion of mitigation monitoring, two copies of a written draft report summarizing the monitoring shall be prepared by the monitoring biologist and submitted to the MMC for approval. The draft monitoring report shall describe the results including any remedial measures that were required. Within 90 days of receiving comments from the MMC on the draft monitoring report, the biologist shall submit one copy of the final monitoring report to the MMC.

**Mitigation Measure 4.3.8:** Within six months of the end of an annual storm water facility maintenance program, the monitoring biologist shall complete an annual report which shall be distributed to the following agencies: the City of San Diego DSD, CDFG, RWQCB, USFWS, and Corps. At a minimum, the report shall contain the following information:

- Tabular summary of the biological resources impacted during maintenance and the mitigation;
- Master table containing the following information for each individual storm water facility or segment which is regularly maintained;
  - Date and type of most recent maintenance;
  - Description of mitigation which has occurred; and
  - Description of the status of mitigation which has been implemented for past maintenance activities.

**Mitigation Measure 4.3.9:** Wetland impacts resulting from maintenance shall be mitigated in one of the following three ways: (1) habitat creation, restoration, and/or enhancement concurrent with maintenance, (2) habitat creation, restoration, and/or enhancement prior to maintenance, or (3) mitigation credits. The amount of mitigation when mitigation is proposed to be accomplished through concurrent creation, restoration or enhancement, the amount of planting shall be in accordance with ratios in Table 4.3-10 unless different mitigation ratios are required by state or federal agencies with jurisdiction over the impacted wetlands. In this event, the mitigation ratios required by these agencies will supersede, and not be in addition to, the ratios defined in Table 4.3-10. When previously created, restored or enhanced wetland habitat is proposed to be used for mitigation, the ratio shall be 1:1, provided the habitat has been determined to be successfully established by the ADD Environmental Designee in consultation with the Resource Agencies prior to commencing the maintenance activity. Mitigation credits may be used at a ratio of 1:1, provided the mitigation credits are from a mitigation bank which has been approved by the Resource Agencies. No maintenance shall commence until the ADD Environmental Designee has

11-3

determined that mitigation proposed for a specific maintenance activity meets one of these three two options.

**Table 4.3-10  
WETLAND MITIGATION RATIOS**

WETLAND TYPE	MITIGATION RATIO <sup>1</sup>
Southern riparian forest	3:1
Southern sycamore riparian woodland	3:1
Riparian woodland	3:1
Coastal saltmarsh	4:1
Coastal brackish marsh	4:1
Southern willow scrub	2:1
Mule fat scrub	2:1
Riparian scrub <sup>1</sup>	2:1
Freshwater marsh <sup>2</sup>	4:1
Cismontane alkali marsh	4:1
Disturbed wetland	4:1
Streambed/natural flood channel	N/A:1

<sup>1</sup> Mitigation ratio within the Coastal Zone will be 3:1  
<sup>2</sup> Mitigation ratio within the Coastal Zone will be 4:1  
Mitigation done in advance or through purchase of mitigation credits would be at a 1:1 ratio.

Mitigation locations for wetland impacts shall be selected using the following order of preference, based on the best mitigation value to be achieved.

1. Within impacted watershed, within City limits.
2. Within impacted watershed, outside City limits on City-owned or other publicly-owned land.
3. Outside impacted watershed, within City limits.
4. Outside impacted watershed, outside City limits on City-owned or other publicly-owned land.

In order to mitigate for impacts in an area outside the limits of the watershed within which the impacts occur, the SWD must demonstrate to the satisfaction of the ADD Environmental Designee in consultation with the Resource Agencies that no suitable location exists within the impacted watershed.

**Mitigation Measure 4.3.10:** Whenever maintenance will impact wetland vegetation, a wetland mitigation plan shall be prepared in accordance with the Conceptual Wetland Restoration Plan contained in Appendix H of the Biological Technical Report, included as Appendix D.3 of the PEIR.

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Mitigation which involves habitat enhancement, restoration or creation shall include a wetland mitigation plan containing the following information:

- Conceptual planting plan including planting zones, grading, and irrigation;
- Seed mix/planting palette;
- Planting specifications;
- Monitoring program including success criteria; and
- Long-term maintenance and preservation plan.

Mitigation which involves habitat acquisition and preservation shall include the following:

- Location of proposed acquisition;
- Description of the biological resources to be acquired including support for the conclusion that the acquired habitat mitigates for the specific maintenance impact; and
- Documentation that the mitigation area would be adequately preserved and maintained in perpetuity.

Mitigation which involves the use of mitigation credits shall include the following:

- Location of the mitigation bank;
- Description of the credits to be acquired including support for the conclusion that the acquired habitat mitigates for the specific maintenance impact; and
- Documentation that the credits are associated with a mitigation bank which has been approved by the appropriate Resource Agencies.

**Mitigation Measure 4.3.11:** Upland impacts shall be mitigated through payment into the City's Habitat Acquisition Fund, acquisition and preservation of specific land, or purchase of mitigation credits in accordance with the ratios identified in Table 4.3-11. Upland mitigation shall be completed within six months of the date the related maintenance has been completed.

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**Table 4.3-11  
UPLAND HABITAT MITIGATION RATIOS<sup>1</sup>**

Vegetation Type	Tier	Location of Impact with Respect to the MHPA	
		Inside	Outside
Coast live oak woodland	I	2:1	1:1
Scrub oak chaparral	I	2:1	1:1
Southern foredunes	I	2:1	1:1
Beach	I	2:1	1:1
Diegan coastal sage scrub	II	1:1	1:1
Coastal sage-chaparral scrub	II	1:1	1:1
Broom baccharis scrub	II	1:1	1:1
Southern mixed chaparral	IIA	1:1	0.5:1
Non-native grassland	IIIB	1:1	0.5:1
Eucalyptus woodland	IV	--	--
Non-native vegetation/ornamental	IV	--	--
Disturbed habitat/ruderal	IV	--	--
Developed	IV	--	--

<sup>1</sup> Assumes mitigation occurs within an MHPA

**Mitigation Measure 4.3.12:** Loss of habitat for the coastal California gnatcatcher shall be mitigated through the acquisition of suitable habitat or mitigation credits at a ratio of 1:1. Mitigation shall take place within the MHPA, and shall be accomplished within six months of the date maintenance is completed.

**Mitigation Measure 4.3.13:** 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 have been implemented;
- Noise attenuation measures needed to protect sensitive wildlife are in place and effective; and/or
- Nesting raptors have been identified and necessary maintenance setbacks have been established if maintenance is to occur between January 15 and August 31.

The designated biological monitor shall be present throughout the first full day of maintenance, whenever mandated by the associated IBA. Thereafter, through the duration of the maintenance activity, the monitoring biologist shall visit the site weekly to confirm that measures required to protect sensitive resources (e.g., flagging, fencing, noise barriers) continue to be effective. The monitoring biologist shall document monitoring events via a Consultant Site Visit Record. This record shall be sent to the MM each month. The MM will forward copies to MMC.

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**Mitigation Measure 4.3.14:** Whenever off-site mitigation would result in a physical disturbance to the proposed mitigation area, the City will conduct an environmental review of the proposed mitigation plan in accordance with CEQA. If the off-site mitigation would have a significant impact on biological resources associated with the mitigation site, mitigation measures will be identified and implemented in accordance with the MMRP resulting from that CEQA analysis.

**Mitigation Measure 4.3.15:** Impacts to listed or endemic sensitive plant species shall be offset through implementation of one or a combination of the following actions:

- Impacted plants would be salvaged and relocated;
- Seeds from impacted plants would be collected for use at an off-site location;
- Off-site habitat that supports the species impacted shall be enhanced and/or supplemented with seed collected on site; and/or
- Comparable habitat at an off-site location shall be preserved.

Mitigation which involves relocation, enhancement or transplanting sensitive plants shall include the following:

- Conceptual planting plan including grading and, if appropriate, temporary irrigation;
- Planting specifications;
- Monitoring Program including success criteria; and
- Long-term maintenance and preservation plan.

**Mitigation Measure 4.3.16:** Maintenance activities shall not occur within the following areas:

- 300 feet from any nesting site of Cooper's hawk (*Accipiter cooperii*);
- 1,500 feet from known locations of the southern pond turtle (*Clemmys marmorata pallida*);
- 900 feet from any nesting sites of northern harriers (*Circus cyaneus*);
- 4,000 feet from any nesting sites of golden eagles (*Aquila chrysaetos*); or
- 300 feet from any occupied burrow or burrowing owls (*Athene cunicularia*).

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**MAINTENANCE PLANS FOR  
SORRENTO CHANNELS  
ENVIRONMENTAL MITIGATION REQUIREMENTS**

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 8 OF 12 SHEETS		I.O. NO. _____ PROJECT NO. _____
FOR CITY ENGINEER _____ DATE _____		V.T.M. _____
DESCRIPTION	BY	APPROVED
DATE	FILMED	
ORIGINAL	XXX	
AS-BUILTS		
CONTRACTOR _____ DATE STARTED _____	INSPECTOR _____ DATE COMPLETED _____	

XXXX-XXXX  
NAD83 COORDINATES  
XXX-XXXX  
LAMBERT COORDINATES

**-8-D**