

Municipal Waterways Maintenance Plan Annual Report Fiscal Year 2025



October 2025

City of San Diego Stormwater Department

2781 Caminito Chollas

San Diego, CA 92105

Executive Summary

The City of San Diego's (City) Stormwater Department (SWD) protects and enhances San Diego's vibrant communities through exceptional public service and infrastructure that reflects the importance of clean water and flood-safe communities. The SWD also views stormwater as a valuable resource which supports public health, the economy, the environment, and the water supply. The SWD works to provide clean waterways and flood-safe communities across San Diego by maintaining stormwater facilities in accordance with the City Charter and Council Policy.

Stormwater facilities are typically located within environmentally sensitive areas that are also habitat for sensitive wildlife and plants, which are regulated by local, state, and federal agencies. With stakeholder and regulatory agency input, SWD developed the Municipal Waterways Maintenance Plan (MWMP) which balances the City's need to be responsive and transparent, provide flood control, and to minimize and mitigate any adverse environmental effects that result from its activities (City of San Diego, 2020a). The MWMP covers project- and program-level activities and authorizes maintenance and repair across stormwater assets and was adopted by City Council in March 2020.

The SWD completes an annual report to document stormwater facility maintenance activities and associated mitigation pursuant to Section 4.1 of the MWMP, Environmental Impact Report (EIR) Section 4.4.1.5, and the requirements of several regulatory permits. This current fiscal year (FY) 2025 annual report covers the MWMP activities that occurred between July 1, 2024 and June 30, 2025 in which SWD removed approximately 12,094 cubic yards (18,150 tons) of sediment and vegetation.

During FY 2025, SWD performed the following maintenance projects (listed from North to South):

Repeat Maintenance-

- Alpha 1 (5-05-006)
- Ocean View 1 (5-05-008)
- Mission Gorge 2 (4-07-004)

Emergency Maintenance-

- Imperial 1 (5-05-304)

In FY 2025, SWD remained in compliance with all MWMP regulatory permits and agreements during the implementation of project-level as well as program-level activities at its facilities. For routine maintenance projects approved and completed as part of the MWMP, SWD will conduct ongoing repeat maintenance within the assessed and mitigated impact areas in compliance with its approvals. In such instances, SWD will provide the necessary pre- maintenance notification to the agencies. At facilities where certain approvals may lapse, SWD will obtain follow-up authorization prior to the start of maintenance. Emergency maintenance was completed in FY 2025 when it was determined that there was a sudden and imminent threat to life, property, and/or essential public services requiring immediate action. During this fiscal year, the SWD also completed numerous minor maintenance activities. By definition, minor maintenance activities do not result in significant environmental impacts, do not require compensatory mitigation, and the details of such activities are not included in this annual report.

The MWMP and approved regulatory permits require that compensatory mitigation be provided to offset impacts to biological resources (e.g. uplands or wetlands) related to maintenance activities. Compensatory mitigation sites associated with the FY 2025 repeat and emergency channel maintenance projects are as follows:

- Stadium Wetland Mitigation Project (San Diego River)
- Otay Reed Wetland Mitigation Project

Additionally, this report provides information on routine and repeat channel maintenance projects prioritized for FY 2026 (July 1, 2025 - June 30, 2026).

Table of Contents

1.0 INTRODUCTION	1
1.1 Background	1
1.2 Regulatory Approvals	3
1.3 Annual Report Requirements	4
2.0 ROUTINE, REPEAT, AND EMERGENCY MAINTENANCE ACTIVITIES (FY 2025)	6
2.1 Alpha 1 (5-05-006) - Repeat Channel Maintenance	9
2.2 Ocean View 1 (5-05-008) - Repeat Channel Maintenance	10
2.3 Mission Gorge 2 (4-07-004) - Repeat Channel Maintenance	11
2.4 Imperial 1 (5-05-304) - Emergency Channel Maintenance	12
3.0 MITIGATION SITES	13
3.1 Mitigation Sites Associated with MWMP Facilities	16
3.1.1 Stadium Wetland Mitigation Project (San Diego River)	16
3.2 Mitigation Projects Authorized Under MWMP Permits	17
3.2.1 Otay Reed Wetland Mitigation Project	17
4.0 CONCLUSIONS AND FUTURE PROJECTS	19
5.0 REFERENCES	21

Tables

Table 1: MWMP Facilities Maintenance and Associated Mitigation for Fiscal Year 2025	7
Table 2: Alpha 1 Repeat Channel Maintenance Impacts	9
Table 3: Ocean View 1 Repeat Channel Maintenance Impacts	10
Table 4: Mission Gorge 2 Repeat Maintenance Impacts	11
Table 5: Mitigation Sites Associated with MWMP Facilities - FY 2025 Status	14
Table 6: Mitigation Projects Authorized Under MWMP Permits- FY 2025 Status	15
Table 7: Annual Work Plan (July 1, 2025 - June 30, 2026)	19

Diagram

Diagram 1: Mitigation Process	13
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Appendices

A	Municipal Waterways Maintenance Plan Annual Report Figures
B	Master Stormwater Facility and Mitigation List
C	Pre- and Post- Maintenance Photos
D	Pre- and Post- Construction Photos

1.0 Introduction

1.1 Background

Under City of San Diego (City) Charter Section 26.1 and Council Policy 800-04 (City of San Diego, 2012), the City is responsible for maintaining adequate drainage facilities to remove stormwater runoff in an efficient, economic, and environmentally and aesthetically acceptable manner for the protection of property and life. The City is responsible for the maintenance of public drainage facilities that are designed and constructed to City standards and located within a public street or drainage easement dedicated to the City. The City's Stormwater Department (SWD) does the necessary work to meet these needs with a vision of providing clean waterways and flood-safe communities across San Diego.

The SWD operates and maintains drainage channels, ditches, and basins that convey stormwater and urban runoff (e.g. from irrigated landscaped areas, driveways, and streets) to downstream receiving waters for the purpose of reducing flood risk and for the effective management of water resources in the City. Other components of the City's stormwater system include but are not limited to over 1,000 miles of storm drainpipe, 6 miles of levees, 15 pump stations, and over 46,000 structures.

Maintenance of channels primarily involves the removal of sediment, vegetation, debris, and trash to maximize stormwater conveyance capacity in support of the City's Municipal Separate Storm Sewer System (MS4) permit. The SWD conducts a comprehensive list of both maintenance and repair activities that are outlined in the MWMP and discussed in this report. The long-term performance of the entire system is dependent upon ongoing and proper maintenance of channel sections essential for flood control.

Historically, maintenance of stormwater conveyance system facilities occurred on an as-needed basis as a part of normal City operations without public review or regulatory permits. In 2013, the City adopted the Master Storm Water System Maintenance Program (MMP) to govern channel operation and maintenance activities based on a certified final recirculated Programmatic Environmental Impact Report (PEIR). Subsequently, a lawsuit was filed against the MMP (*San Diegans for Open Government et al. v. City of San Diego*, San Diego Superior Court Case No. 37-2011-00101571), and the City entered into a settlement agreement that required, among other things, that the MMP PEIR be considered null and void as of September 2018 (*SDOG v. City of San Diego* 2013).

In response, the City prepared the Municipal Waterways Maintenance Plan (MWMP) and its Environmental Impact Report (EIR) to guide SWD activities. The MWMP was approved by City Council in 2020 and was developed through a collaborative and iterative process involving City staff and multiple stakeholders including nonprofit organizations, community groups, resource agencies, and the public.

The following are the primary objectives of the MWMP:

1. Public safety and flood risk reduction
 - Protect life and property adjacent to, downstream, and upstream of affected channels from flooding and environmental degradation.
2. Responsiveness to reduce flood risk
 - Provide for timely and consistent routine operations and maintenance in the affected channels and associated stormwater conveyance infrastructure.

3. Avoid, minimize, and/or mitigate potential effects to environmental resources
 - Avoid, minimize, and/or mitigate significant adverse environmental effects resulting from routine maintenance of stormwater facilities.
 - Incorporate and adapt to water quality management strategies intended to protect water quality and address flooding impacts.
4. Proactive and timely approval process
 - Provide project-level analysis upfront to expedite subsequent authorizations for routine and preventative maintenance activities within stormwater facilities.
 - Identify a review-and-approval process to include additional stormwater facilities and maintenance activities that follow the protocols and requirements of the MWMP.
 - Reduce the need to conduct emergency maintenance during significant storm events by implementing preventative maintenance activities.

The objectives of the MWMP outline the responsibility of the SWD to be responsive to newly identified flood risks while obtaining streamlined approvals for routine preventative maintenance that reduce these risks. To accomplish this, the MWMP identifies the following:

1. A range of plan-wide activities that may occur throughout the stormwater system where flood risks may arise and that would be conducted in accordance with a regulatory framework identified under the MWMP and associated permits.
2. A list of Facility Maintenance Plans (FMPs) that provide specific details and requirements for many but not all facilities that are likely to require routine maintenance and repair.

Together, these two components provide operational flexibility as well as site-specific information about SWD facilities that require maintenance and repair, and streamlines the review and approval process that is required before maintenance can begin. In preparing the MWMP, once the purpose and intent of the plan were established, the SWD conducted technical and environmental analysis in support of its EIR to determine the scope, scale, and potential environmental impacts at each facility where an FMP was developed. In addition to the FMPs, the SWD included a majority of its systemwide facilities and maintenance needs in the EIR review process. The MWMP and its EIR were analyzed and considered by each of the six regulatory agencies that issued permits and approvals for the MWMP. Overall, the EIR analyzed SWD activities at the project-level for facilities where an FMP was developed and at the program-level (discussed in more detail below) for activities that included but were not limited to minor maintenance, compensatory mitigation sites, and emergencies. This was done in compliance with the California Environmental Quality Act (CEQA).

As a result of these efforts, a final MWMP was developed that included a framework for conducting routine maintenance for 66 Facility Maintenance Plans (FMPs) (50 channels/ditches, 6 basins, and 10 structure groups) that were analyzed at the project-level in the EIR. Program-level activities included in the MWMP cover minor maintenance or repair projects that do not impact Environmentally Sensitive Lands (ESL) (including jurisdictional/coastal resources), as well as changed conditions for new or substantially amended FMPs, design and construction of compensatory mitigation sites, and emergency maintenance or repair projects. Both the project- and program-level elements were implemented to support the maintenance needs of the City's stormwater system. The SWD can also amend the MWMP, as necessary, to identify additional or project-specific activities and facilities that may not have been included or considered. The MWMP EIR (Project No. 616992; SCH No. 2017071022) was certified by the San Diego City Council in June 2020 (City of San Diego, 2020b).

In accordance with the MWMP goals and objectives, the SWD completes annual evaluations for FMP covered facilities to prioritize upcoming maintenance (further discussed in Section 2.0) based on hydrologic and hydraulic (H&H) analysis, potential flood risks, and stakeholder input. The priority list of facilities the SWD anticipates maintaining in any upcoming fiscal year is required to be distributed to the regulatory agencies before July 1st of each year. This provides the agencies the location and quantity of facilities the SWD expects to submit for their review and approval. Because resource agency review must occur within a short timeframe, the SWD attempts to begin its prioritization, planning and permitting phase early, often before the fiscal year in which maintenance would occur. However, depending on resource availability and other factors, this is sometimes not possible and the SWD relies on the agencies to assist by helping expedite the review and approval of its submittals when necessary.

In general, the goal of the SWD is to avoid and minimize impacts to environmental resources for the activities that it performs. When the SWD completes its planned routine maintenance projects, it also ensures permit conditions and required mitigation measures are implemented. For emergency projects every effort is made to minimize impacts and environmental monitoring is completed in support of permit and notification requirements. These activities are then reported to the resource agencies annually and include details about the compensatory mitigation provided or obtained for each completed project where mitigation was required.

The remainder of this report discusses MWMP approvals, reporting requirements, and the activities implemented by the SWD over the past fiscal year to meet the goals of the MWMP. Section 1.3 details the requirements of this report.

1.2 Regulatory Approvals

Many of the maintenance activities identified in the MWMP require regulatory approval to ensure compliance with the Clean Water Act (CWA), Endangered Species Act (ESA), California Coastal Act, California Fish and Game Code, California Porter-Cologne Act, CEQA, and the City of San Diego Municipal Code. Additionally, as part of the streamlined review process established by the MWMP for project and program level activities prior to the start of work, the SWD often works with the public, various stakeholders, non-governmental organizations, and environmental groups to avoid, minimize, and/or mitigate MWMP related impacts.

The following is a brief status of each of the regulatory permits and the coordination completed in association with the MWMP:

Local

- The MWMP EIR (Project No. 616992; SCH No. 2017071022) and associated Mitigation, Monitoring, and Reporting Program were certified and adopted by the San Diego City Council on June 9, 2020
- A Master Site Development Permit (SDP; No. 2392210) was approved by the San Diego City Council on June 23, 2020 and does not have an expiration date.

State

- A Master 401 Water Quality Certification (No. R9-2021-0115) was issued by the California Regional Water Quality Control Board (RWQCB) San Diego Region on May 13, 2021 and is valid until May 13, 2026 (or when the USACE RGP 102 Section 404 permit expires, if sooner).

- A Master Streambed Alteration Agreement (SAA; No.1600-2019-0226-R5) was issued by the California Department of Fish and Wildlife (CDFW) on May 10, 2021 and is valid until April 30, 2031.
- A Coastal Development Permit (CDP; No. 6-20-0356 on appeal A-6-SAN-20-0029) was approved by the California Coastal Commission (CCC) on May 12, 2021 an extension was granted on July 15, 2025 and it is valid until May 12, 2031.

Federal

- A Regional General Permit (RGP 102; No. SPL-2018-00652) was issued by the U.S. Army Corps of Engineers (USACE) on June 24, 2021 and is valid until June 17, 2026.

Each permit listed above generally requires the SWD to prepare a maintenance plan and conduct a pre-maintenance impact assessment for its facilities where maintenance is proposed. If environmental impacts are expected to occur, the SWD must first process a Substantial Conformance Review (SCR, further discussed in Section 2.0) and submit notifications for approvals to the agencies before initial maintenance or related work begins.. This typically occurs for project-level FMPs as well as some program-level activities listed in the previous section.

In the case of the federal USACE RGP 102, a U.S. Fish and Wildlife Service (USFWS) Section 7 consultation was completed, and a Biological Opinion (BO) was issued in support of the MWMPs RGP 102 approval. On-going consultation with the USFWS is expected to continue for facility maintenance activities as well as mitigation site development where suitable habitat exists and has the potential to support federally listed endangered species. The SWD will continue to work with the USACE and USFWS to streamline this coordination as necessary. The USACE also obtained a historic resources Section 106 consultation that was required by the National Historic Preservation Act (NHPA) during the RGP 102 review and approval process. This was done to consider the potential effects on cultural resources related to MWMP facility maintenance activities.

This annual report will be distributed to the resource agencies in conformance with the reporting conditions established by the permits. In addition to the reporting requirements outlined in the MWMP and the background provided in Section 1.1 above, the following section identifies specific agency reporting details that are also included in this document.

1.3 Annual Report Requirements

To meet conditions of the authorizations listed below, this report includes:

City of San Diego (City) MWMP Section 4.4 and EIR: (Project No. 616992; SCH No. 2017071022)

- Tabular summary of the acreages of sensitive vegetation impacted at each facility that was maintained and mitigation provided (Section 2);
- Updated master stormwater facility list to reflect the facilities for which impacts have been mitigated and no additional mitigation will be required (Appendix B);
- Summary of the status of mitigation that has been carried out during the current and previous years to mitigate for impacts to upland and wetland vegetation and sensitive species (Section 3, Table 6);
- Scaled map of each affected stormwater facility (Appendix A); and
- Digital date-stamped photographs of each area that was maintained in the reporting year (Appendix C).

As stated in the MWMP Section 4.4 the annual report will not include minor maintenance activities that do not have any impacts that require compensatory mitigation.

Regional Water Quality Control Board (RWQCB) 401 Certification (No. R9-2021-0115)

- A list of facilities on which maintenance was performed during the previous year, including the type and area of impact, start and end dates of maintenance, and photo documentation of maintenance activities and construction BMPs (Section 2 and Appendix C);
- Status of mitigation for each facility, such as proof of mitigation credit purchase or status of permittee-responsible mitigation (Section 3, Table 5 & 6);
- An updated master list of all facilities in the MWMP, including facility status and maintenance history (Appendix B);
- Monitoring activities, and monitors (Section 2);
- A description of maintenance delays encountered or anticipated that may affect the schedule (Section 2); and
- A description of each incident of noncompliance during the annual monitoring period, its cause, and corrective action taken.

California Department of Fish and Wildlife (CDFW) 1602 Agreement (SAA; No.1600-2019-0226-R5)

- Maintenance that was performed at each facility, including the type and area of impact (Section 2);
- Start and end dates of project activities for each facility (Section 2);
- Photo documentation (Appendix C); and
- Master table of all facilities included in the MWMP including facility status and history of maintenance (Appendix B).

California Coastal Commission (CCC) - Coastal Development Permit (Nos. 6-20-0356 and A-6-SAN-20-0029)

- Annual Report not specified as a requirement by the permit. The SWD provides the report to the CCC as a courtesy.

US Army Corps of Engineers (USACE) 404 Regional General Permit (RGP 102; No. SPL-2018-00652)

- Start and end dates of project activities for each facility (Section 2);
- Permanent and temporary impact acreage, and mitigation acreage (Section 2);
- List of projects inspected for compliance;
- Photo documentation (Appendix C); and
- Master table of facilities that includes status and history of maintenance (Appendix B).

US Fish and Wildlife Services (USFWS) Informal Section 7 Consultation (FWS-SDG-20B0083-2111395)

- Document activities that were conducted in the previous year (Section 2); and
- Confirm authorized impacts were not exceeded (Section 2).

2.0 Routine, Repeat, and Emergency Maintenance Activities (FY 2025)

Under the MWMP, the SWD identifies and prioritizes routine channel maintenance work for the upcoming fiscal year that considers, as a primary objective, the ability of each facility to meet SWD's flood risk management goals. Each fiscal year, a list of priority channels is compiled for consideration. In prioritizing the channels for maintenance, the SWD also considers environmental resource impacts and the availability of mitigation, relevant water quality regulations and pollutant priorities in each watershed, public input, and its resource constraints. Once the priority list has been finalized, the SWD prepares detailed maintenance plans and evaluates those plans to determine conformance with the MWMP EIR and regulatory permits through a streamlined review procedure developed for the MWMP. This includes the Substantial Conformance Review (SCR) process established by the City and the Coastal Commission, as well as the notification procedure necessary for resource agency review. Table 7 of the MWMP and Table 2.2 of the EIR identified as "DSD Subsequent MWMP Process Flow Chart" establishes the City's SCR review process. The Coastal Commission's review process for MWMP project-level activities is through the SCR process, however the process for program-level activities can vary.

The process of prioritization, maintenance plan preparation and impacts analysis, SCR review, and notifications was completed for all Repeat Maintenance projects listed in Table 1 below and will be initiated for those projects listed in Section 4, Table 7 for the FY 2026 Annual Work Plan. Due to aging infrastructure and the ever-changing environmental conditions, emergency maintenance is sometimes required which is an approved activity under the MWMP. Although the SWD seeks to proactively maintain its infrastructure, unforeseen emergency conditions may arise in FY 2026 or in subsequent years that will require immediate action. When emergency response is necessary, the SWD provides required notification to the resource agencies prior to the start of work and only completes the minimum amount of work necessary to alleviate the emergency conditions. Emergency projects listed have either completed the notification and permit review phase or are in process for After-the-Fact (ATF) permits.

A summary of all maintenance completed for Repeat and Emergency maintenance including vegetation impacts and mitigation for facilities maintained during FY 2025 is included in Table 1 below. More specific details about each facility maintained are included in Section 2.1 through 2.30. Figure 1 in Appendix A depicts an overview of the location of these facilities and Figure 2 shows associated mitigation sites.

A Master Stormwater Facility and Mitigation List reflecting facilities that have been maintained and impacts mitigated in FY 2025 under the MWMP is included in Appendix B.

None of the facilities maintained in FY 2025 were required to be inspected by the USACE or any other regulatory agency for compliance. Each project was monitored by qualified staff and all activities were compliant with all environmental permits; no remedial actions were necessary.

Table 1: MWMP Facilities Maintenance and Associated Mitigation for Fiscal Year 2025

Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction ¹	Impact (acres) ²	Mitigation ³
Repeat Projects						
5-05-006	Alpha 1 (Repeat)	(ATF SCR PR 1094226 USACE – 404 RGP 102 Verification # (SPL-2024-00663-MER) RWQCB– 401 (R9-2021-0115) (authorization received 9/17/24) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47759)	12/20/24 to 1/13/25	USACE/RWQCB/CDFW /City	1.01	Previously purchased 1.332 acres of mitigation at Stadium Wetland Mitigation Project (San Diego River) in 2022 & 2023 for emergency and planned 2023 & 2025 routine maintenance. In FY24 an additional 2.02 acres of mitigation credits were purchased at Stadium Wetland Mitigation Project (San Diego River) for emergency impacts.
				CDFW/City	0.41	
Total Jurisdictional Impacts					1.42	
5-05-008	Ocean View 1 (Repeat)	City- Emergency SDP No. 3295213 (ATF SCR PR] 1094226 in review) USACE – 404 RGP 102 Verification # (SPL-2024-00662-MER) RWQCB– 401 (R9-2021-0115) (authorization received 9/17/24) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47759)	1/13/25 to 1/31/25	USACE/RWQCB/CDFW /City	0.82	Previously purchased 1.64 acres of mitigation acres at Stadium Wetland Mitigation Project (San Diego River) for emergency impacts that occurred in FY24. Repeat maintenance, no additional mitigation required.
Total Jurisdictional Impacts					0.82	

¹ All impacts to USACE jurisdictional resources were temporary.

² Detailed breakdowns of project impacts to vegetation communities are included in the individual project subsections below. Tier IV habitat impacts are not included in this table.

³ Additional information regarding the status of mitigation for these projects is provided in Section 3, Table 11.

Municipal Waterways Maintenance Plan Annual Report October 2025

Facility Number	Facility Segment Name	Authorizations	Maintenance Start and End Date	Jurisdiction ¹	Impact (acres) ²	Mitigation ³
4-07-002	Mission Gorge 2 (Repeat)	City – SDP 2392210, EIR #616992 (SCR PTS #692644, approval #3162663) USACE – 404 RGP 102 (SPL-2018-00652), RGP 102 Verification # (SPL-2022-00596-AJW) RWQCB – 401 (R9-2021-0115) (authorization received 10/21/22)	6/16/25 to 6/27/25	USACE/RWQCB/CDFW /City	1.01	Mission Gorge 1, 2 and 3 previously mitigated (3.55 acres at Stadium Wetland Mitigation Project) under the 2015 Alvarado Channel project. Repeat maintenance, no additional mitigation required.
Total Jurisdictional Impacts					1.01	
Emergency Project						
5-05-304	Imperial 1	City- Emergency SDP No. 3304128 (ATF SCR in submittal process) CCC – CDP 6-20-0356 (SCR in review) USACE – 404 RGP 63 Verification # (SPL-2024-00115) RWQCB- 401 RGP 63 (R9-2024-0054) (authorization received on 3/21/2024) CDFW- 1602 (Emergency Notification, EPIMS-SDO-47897)	3/28/25 to 6/2/25	USACE/RWQCB/CDFW CCC/City	TBD	Will be updated upon purchase approval.
Total Jurisdictional Impacts					0.069	

2.1 Alpha 1 (5-05-006) - Repeat Channel Maintenance

The Alpha 1 project is located within South Chollas Creek, east of Interstate 5 from just northwest of the intersection of Birch Street and Beta Street to the National Avenue street crossing/bridge east of the intersection of South 41st Street and National Avenue (Figure 2 – Maintenance Impacts). Alpha 1 is not located within or adjacent to the Multi-Habitat Planning Area (MHPA) boundary nor within the Coastal Overlay Zone (COZ).

This project removed material (i.e., vegetation, sediment, debris, etc.) to restore the conveyance capacity of the Alpha 1 channel. The Alpha 1 channel is earthen-bottomed with earthen and concrete-lined banks throughout the maintenance area. City crews removed material from the channel using excavators, bulldozers, bobcats, front-end loaders, and dump trucks staged both in the channel and above the banks of Alpha 1. All material was hauled to an approved disposal location. The project removed approximately 1,643 cubic yards (2,464 tons) of accumulated sediment, vegetation, and debris from approximately 5,032 linear feet of the earthen bottom segment of Alpha 1.

The work at Alpha 1 was initiated on December 20, 2024, and completed on January 13, 2025. Photographs showing conditions before and after maintenance in FY 2025 are included in Appendix C. The projects were monitored by qualified biologists and activities were compliant with approved permits and authorizations. No additional impacts occurred beyond the previously mitigated impacts during repeat maintenance. No mitigation was required in FY 2025.

Table 2: Alpha 1 Repeat Channel Maintenance Impacts

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or San Diego Biological Guidelines (SDBG) Tier	Maintenance Impacts (acres)
<i>Alpha 1</i>		
No impacts occurred due to repeat maintenance	N/A	N/A
Total		N/A

2.2 Ocean View 1 (5-05-008) - Repeat Channel Maintenance

The project was located within South Chollas Creek, east of Interstate 5 from just northeast from just north of the National Avenue street crossing/bridge to south of the Ocean View Boulevard street crossing just southwest of the intersection of South 42nd Street and Ocean View Boulevard (Figure 2 - Maintenance Impacts). Ocean View 1 is not located within or adjacent to the MHPA boundary nor within the COZ. The project removed approximately 625 cubic yards (937 tons) of accumulated sediment, vegetation, and debris from approximately 1,765 linear feet of the earthen bottom segment of Ocean View 1. The work at Ocean View 1 was initiated on January 13, 2025 and completed on January 31, 2025.

BMPs were implemented in accordance with the project's Water Pollution Control Plan (WPCP) at each maintenance interval.

Photographs showing conditions before and after maintenance in FY 2025 are included in Appendix C. The projects were monitored by qualified staff and activities were compliant with approved permits and authorizations. No additional impacts occurred beyond the previously mitigated impacts during repeat maintenance. No additional mitigation required in FY 2025.

Table 3: Ocean View 1 Repeat Channel Maintenance Impacts

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
<i>Ocean View 1</i>		
No impacts occurred due to repeat maintenance	N/A	N/A
Total		N/A

2.3 Mission Gorge 2 (4-07-004) - Repeat Channel Maintenance

The Mission Gorge 2 maintenance area extends east from north of the terminus of Basillica Place to the culvert outlet just below existing commercial development and west of Mission Gorge Place (Figure 2 – Maintenance Impacts). The project is within the Navajo Community Planning Area. These facilities are not located adjacent to the MHPA boundary nor are they within the COZ.

Repeat maintenance work removed approximately 176 cubic yards (264 tons) of accumulated sediment, vegetation, and debris from approximately 1,500 linear feet from the concrete lined channel segment. Maintenance started on June 16, 2025, and concluded on June 27, 2025, in conformance with the MWMP Facility Maintenance Plan (FMP) and the approvals listed in Table 1 above.

BMPs were implemented in accordance with the project’s WPCP at each maintenance interval.

Photographs showing conditions before and after maintenance in FY 2025 are included in Appendix C. The projects were monitored by qualified staff and activities were compliant with approved permits and authorizations. No impacts occurred due to repeat maintenance. No mitigation was required in FY 2025.

Table 4: Mission Gorge 2 Repeat Maintenance Impacts

MWMP Mapping Vegetation Community (Holland/ Oberbauer Code)	Jurisdiction or SDBG Tier	Maintenance Impacts (acres)
<i>Mission Gorge 2</i>		
No impacts occurred due to repeat maintenance	N/A	N/A
Total		N/A

2.4 Imperial 1 (5-05-304) - Emergency Channel Maintenance

The emergency project is located in South Chollas Creek, northeast of the intersection of Stevens Way and Imperial Avenue. Imperial 1 is not located within or adjacent to the MHPA boundary nor within the COZ.

This emergency project removed material (i.e., vegetation, sediment, and debris) and installation of seven (7) rip rap check dams to restore the conveyance capacity of the Imperial 1 segment. The Imperial 1 channel is earthen-bottomed. City and contractor crews removed vegetation, sediment, and debris from the channels using excavators, skid steers, and dump trucks. All material was hauled to an approved disposal location.

The emergency project removed approximately 11,299 cubic yards (16,949 tons) of accumulated material from approximately 0.18 acre (320 linear foot) of the facility channel. Furthermore, the emergency project required the discharge of approximately 1,819 cubic yards of engineered fill and riprap material to stabilize the damaged bank area.

The emergency work at Imperial 1 was initiated on April 1, 2025, and completed on May 30, 2025. Qualified monitoring biologists were on-site conducting full-time and spot check monitoring visits throughout the duration of emergency maintenance activities to ensure that work was limited to the minimum impacts necessary to alleviate emergency conditions.

A detailed breakdown of impacts to individual vegetation communities is included in Table 4, below.

BMPs were implemented in accordance with the project's WPCP at each maintenance interval.

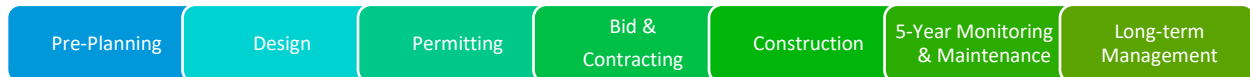
Photographs showing conditions before and after maintenance in FY 2025 are included in Appendix C. The projects were monitored by qualified staff and activities were compliant with approved permits and authorizations. Purchase of mitigation credits at the Stadium Wetland Mitigation Project (San Diego River) is in process, and will be reported to the agencies once finalized.

3.0 Mitigation Sites

In accordance with the MWMP regulatory permits, one-time mitigation is required for significant biological impacts resulting from implementation of the MWMP. Table 5 lists the status of mitigation sites used to mitigate for impacts from FY 2025 MWMP channel maintenance activities.

Activities conducted under the MWMP also include SWD-managed mitigation project implementation that is completed in advance of impacts. Table 6 lists the FY 2025 status of the SWD mitigation projects authorized under MWMP permits FY 2025. To help define project status, the SWD conceptualizes its mitigation process into seven phases (Diagram 1). These phases may overlap one another, or a project can be in two or three phases at a given time. The phases are used to describe and track the general progress and status of each mitigation project.

Diagram 1: Mitigation Process



Sections 3.1–3.2 provide additional detail regarding the mitigation sites related to FY 2025 channel maintenance activities and project activities authorized under MWMP permits. Figure 2 of Appendix A provides the geographic locations of these mitigation sites.

Municipal Waterways Maintenance Plan Annual Report October 2025

Table 5: Mitigation Sites Associated with MWMP Facilities - FY 2025 Status

Mitigation Site	Reviewing Agencies	Status	MWMP Facilities Mitigated/Allocated in FY25	MWMP Watershed/Watershed Management Area	Mitigation Type
FY 2025 MWMP Maintenance Related Mitigation Sites (See Sections 3.1 – 3.2)					
Stadium Wetland Mitigation Project (San Diego River)	City/USACE/RWQCB/CDFW*	Long-Term Management	Mission Gorge-2 Alpha-1, Ocean View-1 Imperial 1**	San Diego River/San Diego River	APRM***

*City= City of San Diego; CCC = California Coastal Commission; USACE = US Army Corps of Engineers; RWQCB = Regional Water Quality Control Board; CDFW = California Department of Fish and Wildlife

**Mitigation at this location is subject to credit availability, pending determination by PUD

***APRM = Permittee Responsible Mitigation; APRM = Advanced Permittee Responsible Mitigation; Mitigation Bank = Agency Approved Mitigation Bank

Table 6: Mitigation Projects Authorized Under MWMP Permits- FY 2025 Status

Mitigation Site	Permits	Status	MWMP Facilities Mitigated/Allocated in FY25	MWMP Watershed/Watershed Management Area	Mitigation Type
FY 2025 Mitigation Projects Authorized Under MWMP Permits (See Section 3.2)					
Otay Reed Wetland Mitigation	City – SDP No. 23922101, EIR #616992 (SCR PRJ #1074841, approval #PMT 616992) USACE – 404 RGP 102 (SPL-2018-00652), RGP 102 Verification # (SPL-2018-00439-SRR) RWQCB – 401 (R9-2021-0115) (401 Certification PID 861891:jharris.)	Construction	N/A	Otay/San Diego Bay	APRM

3.1 Mitigation Sites Associated with MWMP Facilities

3.1.1 Stadium Wetland Mitigation Project (San Diego River)

The City's Stadium Wetland Mitigation Project (San Diego River) is an Advanced Permittee Responsible Mitigation (APRM) site located within the floodplain of the San Diego River between I-15 and I-805. The Project has been implemented and is managed by the City's Public Utilities Department (PUD) to generate compensatory mitigation credit by providing rehabilitation and enhancement of approximately 57 acres within the San Diego River. Installation of the project ended on October 20, 2017, and the plant establishment period (PEP) was considered complete on February 23, 2018, thereby initiating the 5-year maintenance and monitoring period. The Stadium Wetland Mitigation Project (San Diego River) Year Five Monitoring & Maintenance period (February 23, 2022 – February 23, 2023) concluded during FY24 and the PUD sent the Year 5 Annual Report to the regulatory agencies in May 2023. The Stadium Wetland Mitigation Project (San Diego River) has received final sign-off, releasing 100% of the site's available credits.

From FY 2015 – FY 2024, the SWD has purchased approximately 20.04 acres of mitigation credits at this site through multiple purchases of credit which have been allocated for the following past MMP and MWMP routine and emergency projects:

- Murphy Canyon - *Routine Maintenance*
- Alvarado Creek - *Routine Maintenance*
- San Carlos Creek - *Emergency Maintenance*
- Reservoir Drive - *Emergency Maintenance*
- Auburn Creek - *Routine Maintenance*
- South Chollas Creek - *Routine Maintenance*
- Montezuma - *Routine Maintenance*
- 2015-2016 El Nino Season Emergency Projects (partially satisfied mitigation obligations):
 - Chollas Creek at Rolando - *Emergency Maintenance*
 - Chollas Creek at National - *Emergency Maintenance*
 - Cottonwood Creek - *Emergency Maintenance*
 - Jamacha Channel - *Emergency Maintenance*
 - Washington Channel - *Emergency Maintenance*
- Mission Gorge 3 & 4 - *Routine Maintenance*
- Camino Del Rio 1 - *Emergency Maintenance*
- Camino Del Arroyo 1 - *Emergency Maintenance*
- Alpha 1 & Ocean View 1 - *Emergency Maintenance*
- Alpha 1 - *Routine Maintenance*
- Titus 1 - *Routine Maintenance*
- Grove 1 - *Emergency Maintenance*
- Cerissa 1 - *Emergency Maintenance*
- Wightman 2 - *Emergency Maintenance*

In FY24, the SWD purchased 3.66 acres of compensatory mitigation credits at the Stadium Wetland Mitigation Project (San Diego River) for two channel facilities where emergency maintenance work occurred during the 2024 emergencies and for which impact areas exceeded the area where work had previously been authorized. Additional compensatory mitigation was provided for the removal of riparian vegetation in the additional impact areas at the following facilities:

- Alpha 1 – *Emergency Maintenance*
- Ocean View 1 – *Emergency Maintenance*

For FY25 maintenance activities, the SWD will purchase 0.10 acres of compensatory mitigation credits at the Stadium Wetland Mitigation Project (San Diego River) for impacts due to emergency maintenance conducted during FY25. This purchase of mitigation credits at the Stadium site is expected to be completed in FY26. Mitigation at the Stadium site is subject to credit availability, pending final determination by the PUD. The impacts occurred during emergency maintenance at the following channel facility:

- Imperial 1 – *Emergency Maintenance*

Subsequent maintenance of any of these previously mitigated facilities would likely not require additional mitigation beyond what was previously required and provided since the MWMP allows for one-time mitigation for facilities that have been previously permitted.

3.2 Mitigation Projects Authorized Under MWMP Permits

3.2.1 Otay Reed Wetland Mitigation Project

The Otay Reed Wetland Mitigation Project was authorized under MWMP permits. The project was designed to provide mitigation for the past 2016 emergency at Auburn Creek (Home-5) as well as potential future maintenance and repair impacts that may occur at this or other facilities. This project is located within the Otay Valley Regional Park (OVRP) immediately west of Interstate (I-) 805 and south of Rancho Drive in the City of Chula Vista.

This mitigation project is a 5.04-acre mitigation site that involved grading existing upland habitat to elevations capable of supporting wetland vegetation and hydrology, removing invasive, non-native vegetation, installing an above grade irrigation system, and planting native container plants and seed mixes.

Construction started on December 23, 2024. The project did not exceed the temporary impact acreage permitted for this project: wetland rehabilitation 1.34-acres of wetland waters (Eucalyptus woodland) 0.56-acre of wetland waters (Tamarisk scrub), wetland establishment/re-establishment 0.01-acre of non-wetland waters (Tamarisk scrub), and 0.04-acre of non-wetland waters for grading and contouring for aquatic habitat enhancement. A post-construction report will be forthcoming.

The project entered the 120-Calendar Day PEP on June 30, 2025, when it met the success criteria: all targeted non-native species located within the mitigation site were eradicated, there was 90 percent



Municipal Waterways Maintenance Plan Annual Report October 2025

survivorship of container stock within planting areas, and there were no erosion-related issues. The site is showing natural recruitment of native species throughout. The project is anticipated to receive PEP sign off on October 30, 2025. Following the PEP sign off the project will enter the 5-Year Maintenance & Monitoring period.

BMPs were implemented in accordance with the project's WPCP. Photographs showing conditions before and after construction in FY 2025 are included in Appendix D. The project was monitored by qualified staff and activities were compliant with approved permits and authorizations; no remedial actions were required.

4.0 Conclusions and Future Projects

Over the FY 2025 maintenance period, repeat maintenance was completed at three (3) channel facilities and emergency maintenance at one (1) channel facility. These projects allowed for removal of accumulated trash, sediment, and debris which restored conveyance capacity and reduced flood risk while also maintaining the long-term reliability of the City's stormwater infrastructure. The SWD is committed to providing required compensatory mitigation for wetland and upland impacts associated with its ongoing maintenance activities that affect sensitive biological resources. Section 3 identifies one (1) approved site that the SWD used to mitigate for its FY 2025 impacts and one (1) site where construction activities occurred under MWMP permits during FY 2025. Additional sites are being implemented to provide creation (establishment), restoration (re-establishment or rehabilitation), and enhancement mitigation credit for future SWD activities.

It is important to note that the one-time mitigation approach approved as part of the MWMP, its certified EIR, and by the agencies will allow for subsequent maintenance to occur within a facility that has been previously permitted and mitigated without requiring additional mitigation if activities remain within the approved project impact footprint. Lastly, all maintenance activities identified in this report were conducted in compliance with the MWMP and all associated regulatory permits, and it is the intent of any future activities to achieve similar compliance.

Table 7 lists the facilities that SWD expects to maintain in FY 2026 (July 1, 2025 – June 30, 2026).

Table 7: Annual Work Plan (July 1, 2025 - June 30, 2026)

WMA/Watershed	Facility Group Name	Facility No.	Segment Name and Number	Coastal Zone
Mission Bay/ Peñasquitos	Mission Bay - PB-Olney, MBHS	3-02-101	PB-Olney-1	Yes
		3-02-103	MBHS-1	Yes
San Diego River/ San Diego River	Alvarado Canyon Creek - Alvarado	4-07-021	Alvarado-1	No
San Diego Bay/ Pueblo San Diego	South Chollas Creek- Acacia Grove	5-05-103	Acacia Grove 2	No
Tijuana River	Tijuana River- Smythe	6-03-147	Smythe 1	No
Repeat Maintenance				
Tijuana River	Tijuana River- Pilot Channel, Smuggler's Gulch	6-01-020	Pilot Channel 1	Yes
		6-01-100	Smuggler's Gulch 1	
San Diego Bay/ Pueblo San Diego	South Chollas Creek – Southcrest	5-05-006	Alpha 1	No
		5-05-008	Ocean View 1	No
Peñasquitos	Peñasquitos- Roselle	2-03-000	Roselle 1	Yes
		2-03-002	Roselle 2	Yes



Municipal Waterways Maintenance Plan Annual Report October 2025

San Diego Bay/ Pueblo San Diego	Washington Canyon Creek – Washington	5-02-151	Washington 1	No
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5.0 References

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Municipal Waterways Maintenance Plan Annual Report October 2025

URS. 2014b. Final El Cuervo del Sur Wetland Habitat Mitigation and Monitoring Plan.
February 28, 2014, updated February 25, 2015, with assistance from Helix
Environmental Planning, Inc.



Municipal Waterways Maintenance Plan Annual Report October 2025

Appendix A

Municipal Waterways Maintenance Plan Annual Report Figures

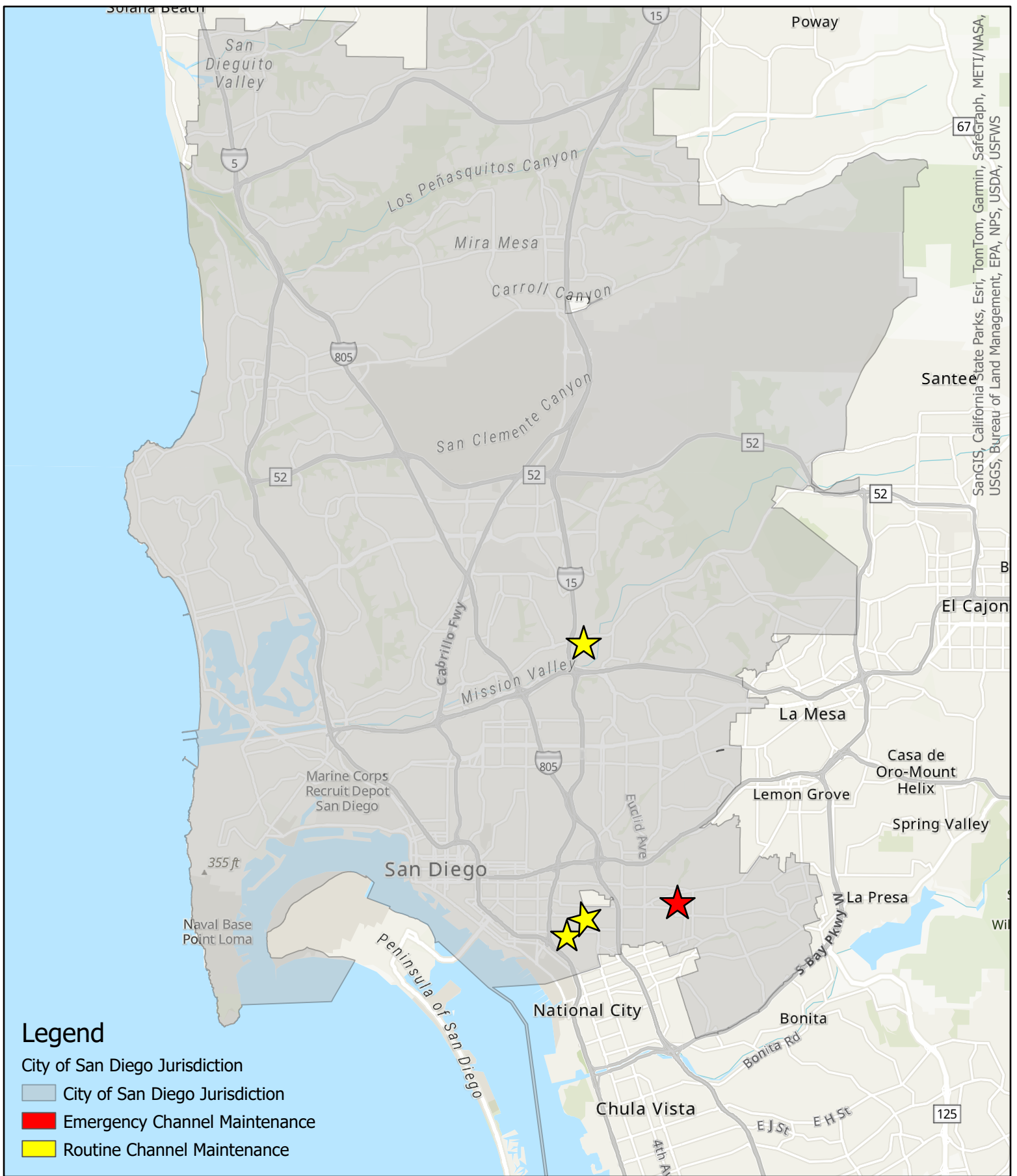


Figure 1. MWMP Maintenance Projects Completed in FY 25

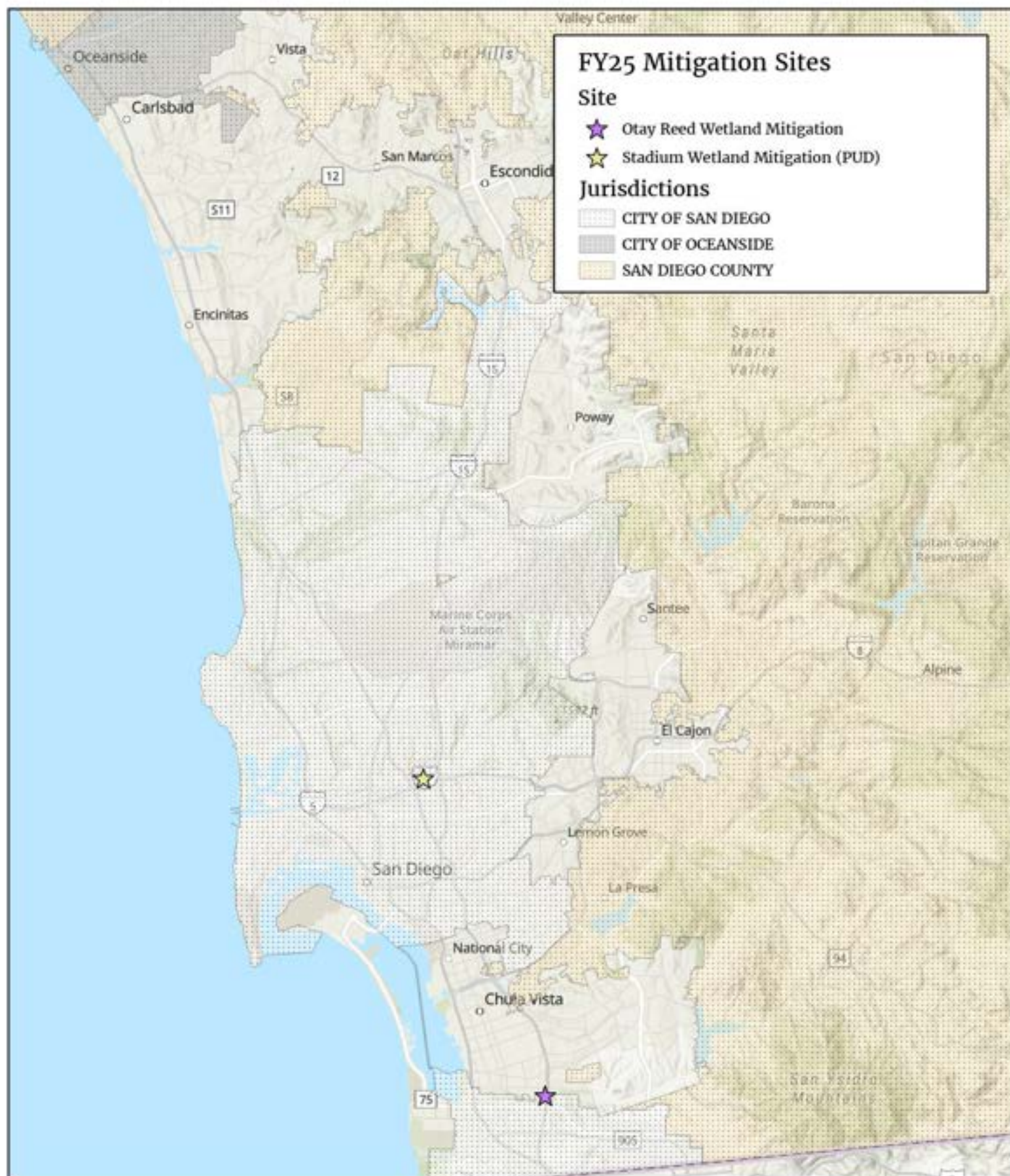
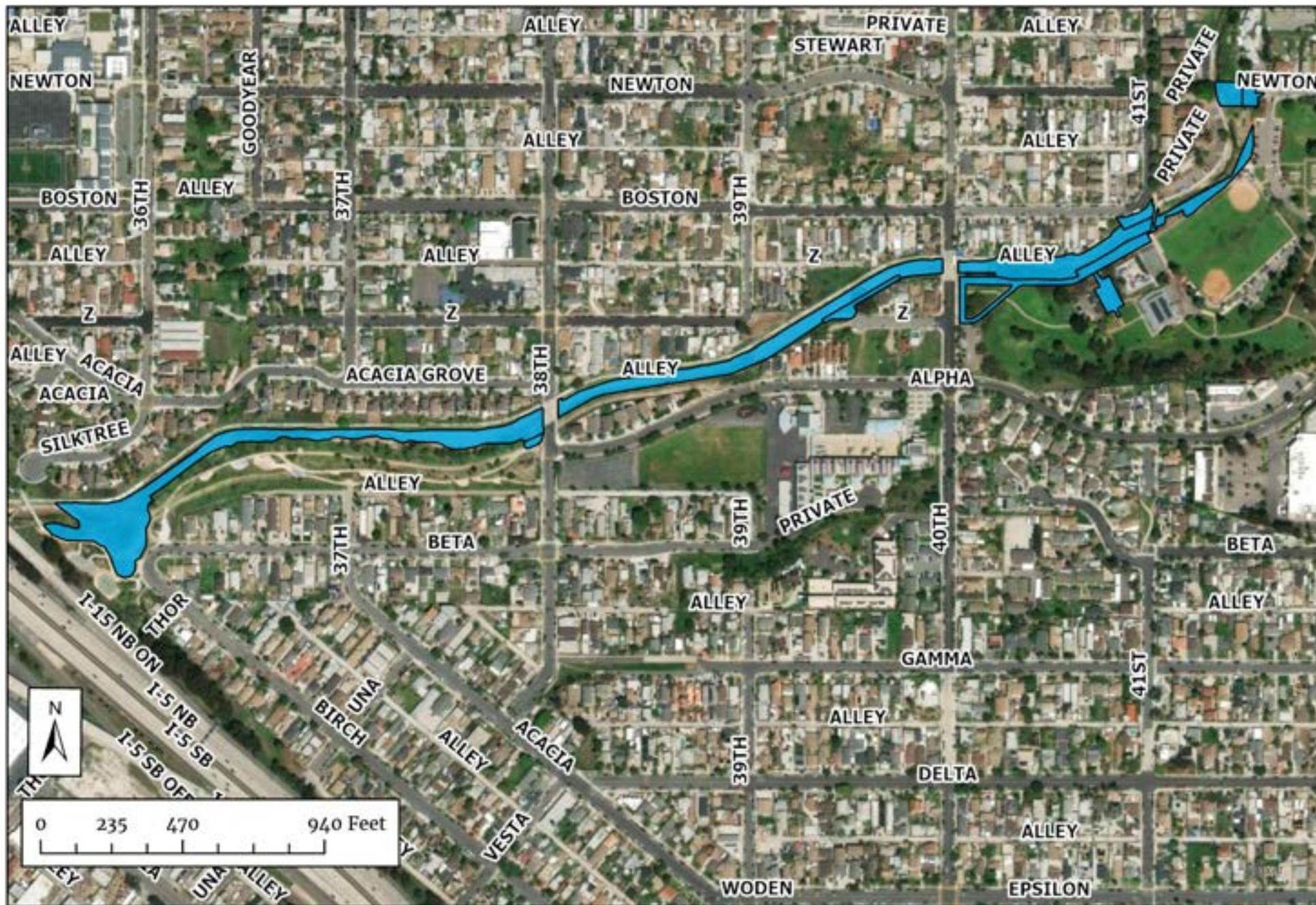


Figure 2. Mitigation Sites for FY25 Stormwater Department Channel Maintenance & Activities Under MWMP Permits



 Maintenance Area



Alpha 1 (5-05-006)

FY 25 Routine Channel Maintenance

Municipal Waterways Maintenance Plan Annual Report
October 2025



 Maintenance Area



Ocean View 1 (5-05-008)

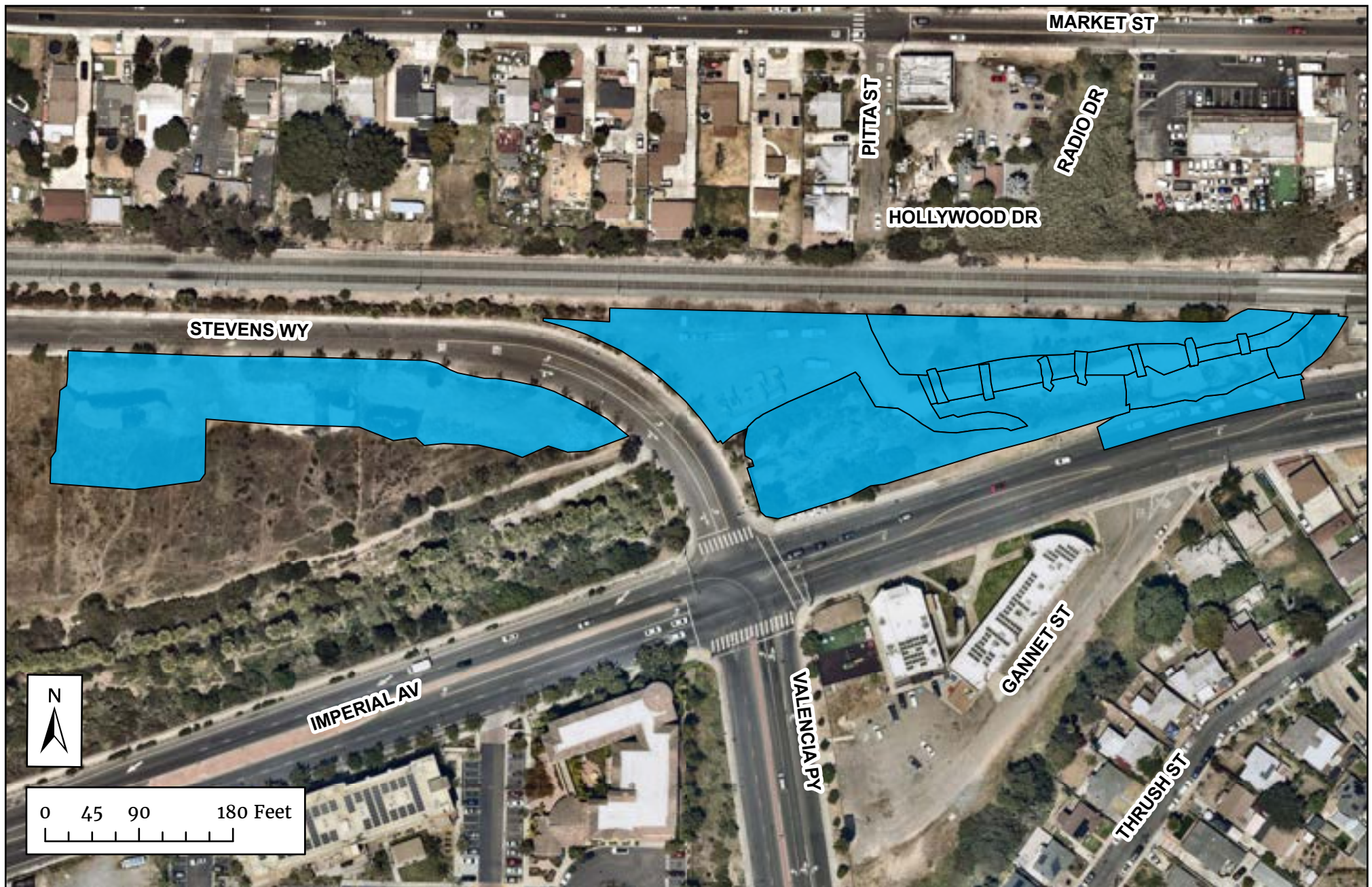
FY 25 Routine Channel Maintenance
 Municipal Waterways Maintenance Plan Annual Report
 October 2025



 Maintenance Area



Mission Gorge 2 (4-07-004)
FY 25 Repeat Channel Maintenance
Municipal Waterways Maintenance Plan Annual Report
October 2025



 Maintenance Area



Imperial 1 (05-03-304)
FY 25 Emergency Channel Maintenance
Municipal Waterways Maintenance Plan Annual Report
October 2025



Municipal Waterways Maintenance Plan Annual Report October 2025

Appendix B

Master Stormwater Facility and Mitigation List

Master Stormwater Facility and Mitigation List

Facility Number	Facility Type	Facility Group Name	Segment Name- Number	Date of Most Recent Maintenance ¹	Mitigation Required (USACE/ RWQCB/ CDFW/ CCC/ City) ²	Mitigation Site(s)
San Dieguito River Watershed						
1-04-030	Channel/Ditch	Green Valley Creek - Pomerado	Pomerado-1	2024	None to date	San Luis Rey
1-04-033	Channel/Ditch	Green Valley Creek - Pomerado	Pomerado-2	2023	None to date	San Luis Rey
1-04-200	Basin	Green Valley Creek - Paseo del Verano	Paseo del Verano-1	Pre 2011	None to date	
Los Penasquitos Watershed						
2-01-120	Channel/Ditch	Penasquitos Lagoon - Industrial	Industrial-1	2024	CCC	El Cuervo del Sur - Phase II El Cuervo del Sur - Phase I LPC Enhancement - Phase I El Cuervo del Sur - Phase II (add'l mit.)
2-01-122	Channel/Ditch	Penasquitos Lagoon - Industrial	Industrial-2	2024	USACE/RWQCB/CDFW/CCC/City	El Cuervo del Sur - Phase I LPC Enhancement - Phase I
2-01-130	Channel/Ditch	Penasquitos Lagoon - Tripp	Tripp-1	2024	CCC/City	
2-01-200	Channel/Ditch	Los Penasquitos Canyon Creek - Black Mountain	Black Mountain-1	Pre 2011	None to date	
2-01-210	Channel/Ditch	Los Penasquitos Canyon Creek - Black Mountain	Black Mountain-2	Pre 2011	None to date	
2-01-900	Basin	Los Penasquitos Canyon Creek - 5-805 Basin	5-805 Fwy-1	2008	Self-mitigating	
2-03-000	Channel/Ditch	Soledad Canyon Creek - Sorrento	Roselle-1	2021	USACE/RWQCB/CDFW/CCC/City	El Cuervo Famosa
2-03-002	Channel/Ditch	Soledad Canyon Creek - Sorrento	Roselle-2	2024	USACE/RWQCB/CDFW/CCC/City	El Cuervo del Sur - Phase I LPC Enhancement - Phase I
2-03-012	Channel/Ditch	Carroll Canyon Creek - Carroll	Carroll Canyon-1	2016	City	El Cuervo del Sur - Phase I El Cuervo del Sur - Phase I LPC Enhancement - Phase I El Cuervo del Sur - Phase II
2-03-100	Channel/Ditch	Soledad Canyon Creek - Flintkote	Flintkote-1	2024	USACE/RWQCB/CDFW/CCC/City	
2-03-150	Channel/Ditch	Soledad Canyon Creek - Dunhill	Dunhill-1	2024	CCC	
2-05-140	Channel/Ditch	Chicarita Creek - Via San Marco	Via San Marco-1	Pre 2011	None to date	
HW04220	Structure	10405 Sorrento Valley Road		Pre 2011	None to date	
Mission Bay Watershed						
3-00-120	Channel/Ditch	Torrey Pines - Torrey	Torrey Pines-1	Pre 2011	None to date	
3-00-150	Basin	Alta La Jolla - Vickie	Vickie-1	2016	Self-mitigating	
3-02-101	Channel/Ditch	Mission Bay - Mission Bay High School	PB-Olney-1	2021	USACE/RWQCB/CDFW/CCC/City	Cuervo del Sur - Phase I LPC Enhancement - Phase I Marron Valley Cornerstone (Upland, City-only) Cuervo del Sur - Phase I LPC Enhancement - Phase I Marron Valley Cornerstone (Upland, City-only)
3-02-103	Channel/Ditch	Mission Bay - Mission Bay High School	MBHS-1	2021	USACE/RWQCB/CDFW/CCC/City	El Cuervo del Sur - Phase II LPC Enhancement - Phase II
3-02-130	Channel/Ditch	Mission Bay - Mission Bay Drive	Mission Bay Drive-1	2021	USACE/RWQCB/CDFW/CCC/City	
3-03-901	Channel/Ditch	Miramar - Engineer	Engineer-1	2023	None	
3-04-055	Channel/Ditch	Tecolote Creek - Chateau	Chateau-1	2024	None to date	
3-04-160	Channel/Ditch	Tecolote Creek - Genessee	Genessee-1	Pre 2011	None to date	
3-04-250	Channel/Ditch	Tecolote Creek - Chateau	Chateau-2	2024	None to date	
San Diego River Watershed						
4-01-103	Channel/Ditch	San Diego River - Nimitz	Nimitz-1	Pre 2011	None to date	
4-01-105	Channel/Ditch	San Diego River - Nimitz	Nimitz-2	Pre 2011	None to date	
4-01-107	Channel/Ditch	San Diego River - Nimitz	Nimitz-3	Pre 2011	None to date	
4-01-120	Channel/Ditch	San Diego River - Valeta	Valeta-1	Pre 2011	CCC	Hollister Quarry
4-03-101	Channel/Ditch	San Diego River - Camino del Rio	Camino del Arroyo-1	2022	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
4-03-103	Channel/Ditch	San Diego River - Camino del Rio	Camino del Rio-1	2022	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
4-04-006	Channel/Ditch	Murphy Canyon Creek - Murphy Canyon	Murphy Canyon-1	Pre 2011	None to date	
4-07-002	Channel/Ditch	Alvarado Canyon Creek - Mission Gorge	Mission Gorge-1	2023	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
4-07-004	Channel/Ditch	Alvarado Canyon Creek - Mission Gorge	Mission Gorge-2	2024	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
4-07-009	Channel/Ditch	Alvarado Canyon Creek - Mission Gorge	Mission Gorge-3	2023	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
4-07-011	Channel/Ditch	Alvarado Canyon Creek - Mission Gorge	Mission Gorge-4	2023	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
4-07-021	Channel/Ditch	Alvarado Canyon Creek - Alvarado	Alvarado-1	2022	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
4-07-023	Channel/Ditch	Alvarado Canyon Creek - Alvarado	Alvarado-2	Pre 2011	None to date	
4-07-250	Channel/Ditch	Alvarado Canyon Creek - Alvarado	Alvarado-3	Pre 2011	None to date	
4-07-901	Channel/Ditch	Murray Reservoir - Cowles Mountain	Cowles Mountain-1	2024	None to date	
4-07-911	Channel/Ditch	Murray Reservoir - Cowles Mountain	Cowles Mountain-2	2018	City	Stadium Mitigation Site
4-08-008	Channel/Ditch	Norfolk Canyon Creek - Fairmount	Fairmount-1	Pre 2011	None to date	
4-08-011	Channel/Ditch	Norfolk Canyon Creek - Fairmount	Fairmount-2	Pre 2011	None to date	
4-08-014	Channel/Ditch	Norfolk Canyon Creek - Fairmount	Fairmount-3	Pre 2011	None to date	
4-08-017	Channel/Ditch	Norfolk Canyon Creek - Fairmount	Fairmount-4	Pre 2011	None to date	
4-08-105	Channel/Ditch	Norfolk Canyon Creek - Fairmount	Baja-1	2024	RWQCB/City	Stadium Mitigation Site Marron Valley Cornerstone (City only)
HW02437	Structure	2087 Hotel Circle South		2016	None to date	
HW02440	Structure	901 Hotel Circle South		2017	None to date	
IN10399	Structure	1277 Cam. Del Rio South		2017	None to date	
OT03321	Structure	1660 Hotel Circle North		2017	None to date	
OT03537	Structure	1331 Washington		Pre 2011	None to date	
OT05573	Structure	5505 Friars Road		2016	City	Sefton Field
Pueblo San Diego Watershed						
5-02-140	Basin	Maple Canyon Creek - Maple	Maple-1	Pre 2011	None to date	
5-02-151	Channel/Ditch	Washington Canyon Creek - Washington	Washington-1	2021	USACE/RWQCB/CDFW/City	2015/16 Emergency Mitigation Plan
5-02-153	Channel/Ditch	Washington Canyon Creek - Washington	Washington-2	2021	USACE/RWQCB/CDFW/City	2015/16 Emergency Mitigation Plan
5-02-162	Channel/Ditch	Mission Hill Canyon Creek - Titus	Titus-1	2024	USACE/RWQCB/CDFW/City	Stadium Mitigation Site
5-03-011	Channel/Ditch	Powerhouse Canyon Creek - Pershing	Pershing-1	Pre 2011	None to date	
5-03-100	Channel/Ditch	Powerhouse Canyon Creek - Pershing	Pershing-2	Pre 2011	None to date	
5-03-901	Channel/Ditch	San Diego Bay Unnamed Tributary - 28th St	28th St-1	2024	None to date	
5-04-004	Channel/Ditch	Chollas Creek - National	National-1	2024	USACE/RWQCB/CDFW/City	Stadium Mitigation Site 2015/16 Emergency Mitigation Plan
5-04-044	Channel/Ditch	Chollas Creek - National	National-2	2022	USACE/RWQCB/CDFW/City	Stadium Mitigation Site 2015/16 Emergency Mitigation Plan
5-04-044	Channel/Ditch	Chollas Creek - Rolando	Cartagena-1	2019	None to date	
5-04-046	Channel/Ditch	Chollas Creek - Rolando	Rolando-1	Pre 2011	None to date	
5-04-048	Channel/Ditch	Chollas Creek - Rolando	Rolando-2	2024	RWQCB/City	2015/16 Emergency Mitigation Plan
5-04-101	Channel/Ditch	Chollas Creek Unnamed Tributary - Martin	Martin-1	Pre 2011	None to date	
5-04-163	Channel/Ditch	Chollas Creek - J St	J St-1	Pre 2011	None to date	
5-04-220	Channel/Ditch	Auburn Creek - Home	Home-1	2024	RWQCB/City	2015/16 Emergency Mitigation Plan Stadium Mitigation Site Marron Valley Cornerstone (City only)
5-04-224	Channel/Ditch	Auburn Creek - Home	Home-2	2024	RWQCB/City	
5-04-227	Channel/Ditch	Auburn Creek - Home	Home-3	Pre 2011	None to date	
5-04-231	Channel/Ditch	Auburn Creek - Home	Home-5	2020	RWQCB/City	Stadium Mitigation Site Otay Reed (City only)
5-04-239	Channel/Ditch	Auburn Creek - Wightman	Wightman-1	2016	None to date	
5-04-241	Channel/Ditch	Auburn Creek - Wightman	Wightman-2	2024	RWQCB/City	Onsite Restoration, Stadium Mitigation Site
5-04-260	Channel/Ditch	Chollas Creek Unnamed Tributary - Megan	Megan-1	Pre 2011	None to date	
5-04-262	Channel/Ditch	Chollas Creek Unnamed Tributary - Megan	Megan-2	Pre 2011	None to date	
5-04-280	Channel/Ditch	Chollas Creek - 54th St	54th St-1	Pre 2011	None to date	
5-05-006	Channel/Ditch	South Chollas Creek - Southcrest	Alpha-1	2025	None to date	Stadium Mitigation Site
5-05-008	Channel/Ditch	South Chollas Creek - Southcrest	Ocean View-1	2025	None to date	Stadium Mitigation Site
5-05-021	Channel/Ditch	South Chollas Creek - Euclid	Euclid-2	Pre 2011	None to date	

Facility Number	Facility Type	Facility Group Name	Segment Name- Number	Date of Most Recent Maintenance ¹	Mitigation Required (USACE/ RWQCB/ CDFW/ CCC/ City) ²	Mitigation Site(s)
5-05-035	Channel/Ditch	South Chollas Creek - Federal	Federal-1	2019	City	Stadium Mitigation Site
5-05-037	Channel/Ditch	South Chollas Creek - Federal	Federal-2	2019	None	HAF/Cornerstone
5-05-205	Channel/Ditch	South Chollas Creek Encanto Branch - Castana	Castana-1	2024	None to date	
5-05-306	Channel/Ditch	South Chollas Creek Encanto Branch - Imperial	Imperial-2	Pre 2011	None to date	
5-05-603	Channel/Ditch	South Chollas Creek Encanto Branch - Jamacha	Jamacha-1	2024	RWQCB/City	2015/16 Emergency Mitigation Plan
5-06-005	Channel/Ditch	Paleta Creek - Cottonwood	Cottonwood-1	2016	RWQCB/City	2015/16 Emergency Mitigation Plan
5-06-008	Channel/Ditch	Paleta Creek - Cottonwood	Cottonwood-2	2016	RWQCB/City	2015/16 Emergency Mitigation Plan
5-06-020	Channel/Ditch	Paleta Creek - Solola	Solola-1	Pre 2011	None to date	
5-06-023	Channel/Ditch	Paleta Creek - Solola	Solola-2	Pre 2011	None to date	
HW04013	Structure	4202 J Street		Pre 2011	None to date	
OT03694	Structure	3644 Roselawn		2016	None to date	
OT054671	Structure	1206 Goodyear		2016	None to date	
Sweetwater Watershed						
5-11-003	Channel/Ditch	Sweetwater River - Parkside	Parkside-1	2016	RWQCB/City	2015/16 Emergency Mitigation Plan
Otay Watershed						
5-22-008	Channel/Ditch	Nestor Creek - Nestor	Cedar-1	2024	CCC/City	Hollister Quarry
5-22-010	Channel/Ditch	Nestor Creek - Nestor	Cedar-2	2024	CCC/City	Hollister Quarry
5-22-013	Channel/Ditch	Nestor Creek - Nestor	Dahlia-1	Pre 2011	None to date	
5-22-016	Channel/Ditch	Nestor Creek - Nestor	Cerissa-1	2024	None to date	Stadium Mitigation Sote
5-22-023	Channel/Ditch	Nestor Creek - Nestor	Grove-1	2024	None to date	Stadium Mitigation Sote
5-22-028	Channel/Ditch	Nestor Creek - Nestor	30th St-1	Pre 2011	RWQCB/CDFW/City	Otay Reed
5-22-110	Channel/Ditch	Nestor Creek - Outer	Outer-1	Pre 2011	None to date	
5-22-112	Channel/Ditch	Nestor Creek - Outer	Outer-2	Pre 2011	None to date	
Tijuana River Watershed						
6-01-020	Channel/Ditch	Tijuana River - Pilot and Smugglers	Pilot Channel-1	2023	USACE/RWQCB/CDFW/CCC/City	TJ Emergency Mitigation Site
						TJ Enhancement Site
6-01-100	Channel/Ditch	Tijuana River - Pilot and Smugglers	Snuggler's Gulch-1	2023	USACE/RWQCB/CDFW/CCC/City	TJ Emergency Mitigation Site
6-02-118	Channel/Ditch	Tijuana River - Tocayo	Tocayo-2	Pre 2011	CCC	Hollister Quarry
6-03-136	Channel/Ditch	Tijuana River - Smythe	Via Encantadoras-1	Pre 2011	It was determined that the City of San Diego does not have maintenance responsibility for	
6-03-138	Channel/Ditch	Tijuana River - Smythe	Via Encantadoras-2	Pre 2011	None to date	
6-03-143	Channel/Ditch	Tijuana River - Smythe	Via Encantadoras-3	Pre 2011	None to date	
6-03-147	Channel/Ditch	Tijuana River - Smythe	Smythe-1	2024	USACE/RWQCB/City	Smythe-Bandola Mitigation Site
6-03-150	Channel/Ditch	Tijuana River - Smythe	Via de la Bandola-1	2016	USACE/RWQCB/City	Smythe-Bandola Mitigation Site
6-04-251	Basin	Spring Canyo Creek - Cactus	Cactus-1	Pre 2011	None to date	
6-04-253	Basin	Spring Canyo Creek - Cactus	Cactus-2	Pre 2011	None to date	
6-05-110	Basin	Tijuana River - Siempre Viva	Siempre Viva-1	2019	None	
6-06-011	Channel/Ditch	Tijuana River - La Media	La Media-1	Pre 2011	None to date	

NOTES

1 - Pre 2011 indicates that facility was likely maintained prior to 2011 but has not been maintained since that time. Dates in **BOLD** are construction dates; these facilities have yet to be maintained following construction.

2 - City = City of San Diego; CCC = California Coastal Commission; USACE = US Army Corps of Engineers; RWQCB = Regional Water Quality Control Board; CDFW = California Department of Fish and Wildlife; None = routine maintenance was completed without any mitigation requirements; None to date = routine maintenance has not been conducted. Agency names in **BOLD** indicate that MWMP permits were utilized for most recent maintenance approval. All other approvals pre-date the MWMP.

Appendix C

Pre- and Post- Maintenance Photos

Mission Gorge 2 (4-07-004) Repeat Maintenance



Mission Gorge 2 Pre-Maintenance- Photo 1

Mission Gorge 2 channel, pre-maintenance condition.
(June 16, 2025)



Mission Gorge 2 Post-Maintenance- Photo 2

Mission Gorge 2 channel, post-maintenance condition.
(June 27, 2025)

Alpha 1 (5-05-006) Routine Maintenance



Alpha 1 Pre-Maintenance- Photo 1

Alpha 1 channel, upstream of 38th Street, pre-maintenance conditions.
(December 14, 2024)



Alpha 1 Post-Maintenance- Photo 2

Alpha 1 channel, upstream of 38th Street, post-maintenance conditions.
(January 19, 2024)

Oceanview 1 (5-05-008) Routine Maintenance



Oceanview 1 Pre-Maintenance- Photo 1

Installation of rip rap into Oceanview channel.

(January 21, 2025)



Oceanview 1 Post-Maintenance- Photo 2

Oceanview channel cleaned and graded, after installation of rip rap.

(January 27, 2025)

Imperial 1 (5-05-304) Emergency Maintenance



Imperial 1 Pre-Maintenance- Photo 1

View of bank repair area prior to the start of work in the facility.

(March 26, 2025)



Imperial 1 Post-Maintenance- Photo 2

View of the bank repair area after completion of work in the facility.

(July 2, 2025)

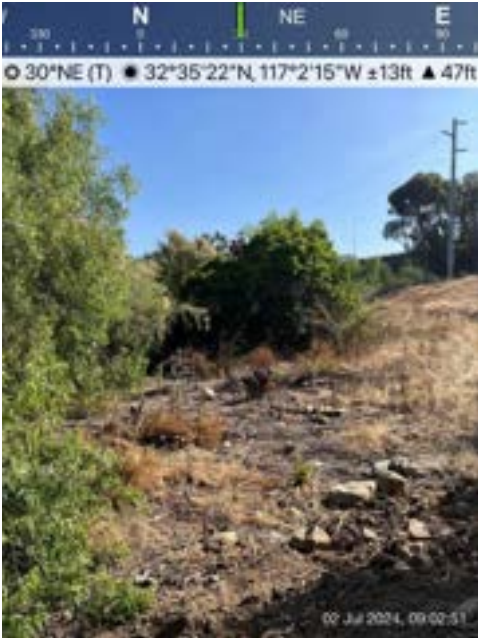
Appendix D

Pre- and Post- Mitigation Photos

Otay Reed Wetland Mitigation Project ¹

	
Otay Reed Pre-Construction - Photo 1 (Area A) View of temporary impact area A prior to construction, facing SE. (July 2, 2024)	Otay Reed Post-Construction - Photo 2 (Area A) View of temporary impact area A post-construction during the 120-calendar day plant establishment period, facing S. (August 28, 2025)
	
Otay Reed Pre-Construction - Photo 1 (Area B) View of the temporary impact area B prior to construction, facing N. (September 19, 2024)	Otay Reed Post-Construction - Photo 2 (Area B) View of the temporary impact area B post-construction during the 120-calendar day plant establishment period, facing NW. (July 29, 2025)

¹ Areas A-E correspond to Figure 9b in the HMMP

	
Otay Reed Pre-Construction - Photo 1 (Area C) View of the temporary impact area C prior to construction, facing N. (July 2, 2024)	Otay Reed Post-Construction - Photo 2 (Area C) View of the temporary impact area C post-construction during the 120-calendar day plant establishment period, facing N. (August 28, 2025)
	
Otay Reed Pre-Construction - Photo 1 (Area C) View of the temporary impact area C prior to construction, facing NW. (July 2, 2024)	Otay Reed Post-Construction - Photo 2 (Area C) View of the temporary impact area C post-construction during the 120-calendar day plant establishment period, facing NW. (August 28, 2025)

¹ Areas A-E correspond to Figure 9b in the HMMP

	
Otay Reed Pre-Construction - Photo 1 (Area D) View of the temporary impact area D prior to construction, facing N. (July 2, 2024)	Otay Reed Post-Construction - Photo 2 (Area D) View of the temporary impact area D post-construction during the 120-calendar day plant establishment period, facing N. This area was not impacted, and native vegetation was protected in place. (August 28, 2025)
	
Otay Reed Pre-Construction - Photo 1 (Area E) View of the temporary impact area E prior to construction, facing N. (July 2, 2024)	Otay Reed Post-Construction - Photo 2 (Area E) View of the temporary impact area E post-construction during the 120-calendar day plant establishment period, facing N. (August 28, 2025)

¹ Areas A-E correspond to Figure 9b in the HMMP