

INDIVIDUAL BIOLOGICAL ASSESSMENT REPORT

Site Name/Facility: Auburn Creek Channel Emergency Maintenance
Master Program
Map No.: 70
Date: March 28, 2016
Biologist Name/Cell
Phone No.: Scott Gressard (858-997-6874)

EXISTING CONDITIONS

The City of San Diego (City) has developed the Master Storm Water System Maintenance Program (MMP, Master Maintenance Program) (City of San Diego 2011) to govern channel operation and maintenance activities in an efficient, economic, environmentally and aesthetically acceptable manner to provide flood control for the protection of life and property. This document provides a summary of the Individual Biological Assessment (IBA) for emergency maintenance activities within the Auburn Creek Channel (Attachment 2 - MMP Maps 70; Figures 3) in order to comply with the MMP's Programmatic Environmental Impact Report (PEIR) (Attachment 1). IBA procedures under the MMP provide the guidelines for a site-specific inspection of the proposed maintenance activity site including access routes, and temporary spoils storage and staging areas. A qualified biologist determined whether or not sensitive biological resources could be affected by the proposed maintenance and potential ways to avoid impacts in accordance with the measures identified in the Mitigation, Monitoring and Reporting Program (MMRP) of the PEIR and the MMP protocols. This IBA provides a summary of the biological resources associated with the storm water facility, quantification of impacts to sensitive biological resources, and the nature of mitigation measures required to mitigate for those impacts, if any found.

It should be noted that, since this channel work was conducted as emergency maintenance, certain requirements in the MMP could not be directly adhered to in order to conduct the work as quickly as possible and reduce the existing threat from flooding to adjacent properties.

Project Location and Description

The Auburn Creek Channel (Map 70) is located southeast of 4425 Home Ave., San Diego, CA 92105. This emergency maintenance area is generally located east of the Interstate 805 freeway and north of CA-94 in San Diego. The channel is located on the northeast corner of the intersection between Fairmount Ave. and Home Ave. and is not within or adjacent to the City's Multiple Species Conservation Program (MSCP) Multi-Habitat Planning Area (MHPA) or the City's Coastal Overlay Zone.

This channel segment has concrete-lined banks, but an earthen bottom. Two large diameter rounded culverts empty into the channel from the east and the channel conveys flows between several commercial properties up to a box culvert underneath Fairmount Ave.

Sediment, cobble, and vegetation had densely and unevenly accumulated upstream along the Auburn Creek Channel (MMP Map 70; Figure 3). The portion of Auburn Creek Channel requiring emergency maintenance is earthen-bottom with concrete walls and stretches northeast between Fairmount Ave. and Home Ave. (MMP Map 70; Figure 3). The maintenance area begins just southeast of 4425 Home Ave. at the Fairmount Ave. culvert outlet and continues approximately 280 feet southwest with an average bottom width of approximately 12-25 feet. Land covers and vegetation impacted include 0.04 acre of natural flood channel (temporary), 0.01 acre of riparian scrub (disturbed mulefat scrub), and 0.05 acre of riparian scrub (southern willow scrub). An additional 0.01 acre of disturbed wetland (Arundo dominated), located above the Ordinary High Water Mark (OHWM) and

under CDFW-jurisdiction only, was also removed. Total impacts from the project to ACOE/CDFW/RWQCB jurisdictional areas were 0.11 acre (279 linear feet) of non-wetland and wetland waters of the U.S.

Survey Methods and Date

Biological Survey and Site Assessment

Dudek conducted the biological survey and site assessment on November 11, 2015. The survey was conducted on foot and the assessment was made from the channel bank. Vegetation was mapped based on site observations and interpretation of aerial photographic signatures (scale 1"=50'), according to the R.F. Holland system (1986) as modified for San Diego County, in accordance with the City's "Guidelines for Conducting Biological Surveys" (2002). Areas on site that supported less than 20% native plant species cover were mapped as disturbed habitat and areas that supported at least 20% native plant species, but fewer than 50% native cover were mapped as a disturbed native vegetation community (e.g., disturbed freshwater marsh). All plant and animal species detected by sight, calls, tracks, scat, or other signs were recorded. Any observed sensitive species were documented and potential for sensitive species occurrence was evaluated based on site conditions.

Representative photographs taken during the surveys and monitoring are provided in this report. Protocol-level surveys were not conducted as a part of this site assessment. A site-specific jurisdictional delineation was not performed as a part of this site assessment.

Monitoring of Emergency Maintenance: Biologists Shana Carey and Jake Marcon monitored the work at 4425 Home Ave., San Diego CA from January 28 to January 30, 2016, and on February 12, 2016. The City crew removed vegetation and large trees on the southwestern end of the maintenance area within the channel using chain saws. The Track Steer/Bobcat worked within the channel and piled vegetation and sediment near the Gradall/Excavator, which was staged outside of the channel, for removal. Following a large sediment deposit in the channel from a rain event on January 31, 2016, additional debris and sediment was removed on February 12, 2016. The debris removed from the channel was loaded into dump trucks and taken to the Miramar Landfill. Following maintenance activities, cobble in the section of natural flood channel within the maintenance area was restored to pre-maintenance conditions. No sandbag berms or pumping equipment were used during maintenance as the channel remained dry during all work. All work was monitored by a qualified biologist and equipment was removed from the site at the end of the project on February 12, 2016.

Status of Channel Flows

The earthen channel did not have any standing water present during work. Sand bags were not installed during this maintenance.

Biological Resources:

Stream Type: Perennial Intermittent Ephemeral

The channel is likely to have intermittent flows during normal climate conditions. Collected sediments and areas with unmanaged vegetation and large exotic plant growth occurring in some portions of the channel have impeded normal surface flow through obstruction/retention/impoundment of storm water during storm related events.

Vegetation

For purposes of this IBA, only vegetation or land covers within the emergency maintenance area are described below. A total of three vegetation communities and two land cover type were identified during this assessment: riparian scrub (disturbed mulefat scrub), riparian scrub (southern willow scrub), disturbed wetland (Arundo-dominated), natural flood channel, and disturbed land.

In addition, areas surrounding the emergency maintenance area include areas of ornamental vegetation and developed land. These areas were not affected by the maintenance and therefore are not discussed in this IBA, but are illustrated on Figure 3.

Vegetation acreages within the survey area are summarized in Table 1 below:

Table 1. Vegetation in the Emergency Maintenance Area

Vegetation Community or Land Cover Type	City MSCP Habitat Tier	Acreage
Riparian scrub (disturbed mulefat scrub)	Wetland	0.01
Riparian scrub (southern willow scrub)	Wetland	0.05
Disturbed wetlands (Arundo-dominated)	Wetland	0.01
Natural Flood Channel	Wetland	0.04
Disturbed Land	Tier IV	0.003
Total		0.113

Habitat within the emergency channel maintenance area is described below:

Riparian Scrub (disturbed Mulefat Scrub)

Where habitat is mapped riparian scrub (disturbed mulefat scrub), the channel has 40% cover by mulefat (*Baccharis salicifolia*) with small patches of other non-native wetland species and grasses. This was a small area located near the western culvert outlet and was cleared as part of the maintenance.

Riparian Scrub (Southern Willow Scrub)

Where habitat is mapped as riparian scrub (southern willow scrub), the channel canopy cover was approximately 70% black willow (*Salix gooddingii*). This vegetation community is located in the eastern end of the channel (Figure 3).

Disturbed Wetland (Arundo dominated)

Where habitat is mapped as disturbed wetland (arundo dominated), the maintenance area is dominated entirely by giant reed (*Arundo donax*). All of this habitat within the emergency removal area was removed as part of the maintenance.

Natural Flood Channel

Where the study area is mapped as natural flood channel, the channel is almost completely clear of any vegetation and consists of sediment and cobble streambed.

Disturbed Land

The upper banks of the channel support a mixture of non-native herbaceous species including grasses and forbs, as well as bare ground. Non-native grass cover is less than 30%. Only one area of the channel bank was affected by the project; the location of the access ramp. This area supported mostly bare ground and scattered exotic annuals. This area had been previously utilized as an access location for the channel.

Wildlife Value

Due to the dominance of non-native species and isolated nature of the habitats within the emergency channel maintenance area, its value to wildlife is low.

Wildlife Observed

Anna's Hummingbird (*Calypte anna*)
 California Towhee (*Melospiza crissalis*)
 Northern Mockingbird (*Mimus polyglottos*)
 Yellow-Rumped Warbler (*Setophaga coronata*)

No nests were identified and the work was conducted outside the breeding season of any sensitive or avian species.

Are there current level of anthropogenic influences on habitat with the project footprint (e.g., homeless encampment, illegal dumping)? Yes No

If yes, describe the influence:

Anthropogenic disturbances include patches of invasive weed species brought into the earthen channel, which have spread through landscaping, highway projects, and etc., have led to an abundance of exotics including Arundo. This habitat on site is not suitable for rare wildlife and rare plant species.

Crews removed trash from the sides of the channel and within the channel.

Are there any conservation easements which have been previously recorded within the maintenance area?

Yes No

If yes, describe them and their purpose:

Jurisdictional Areas [TOTAL STUDY AREA]

ACOE/RWQCB/CDFW/City

For the Master Maintenance Program, a program-level jurisdictional delineation was conducted within subject storm water facility channels and sedimentation basins with results categorized by HUs. Mapping was conducted along the channel (MMP Map 70; Figure 3).

Prior to the emergency, a site-specific formal jurisdictional delineation of “waters of the United States,” was not conducted; however a visual assessment of likely jurisdictional areas was completed with reference to the programmatic delineation. The emergency maintenance impacted the full area within the channel. The impacts to Waters of the U.S., including to wetlands, and the corresponding impacts to City wetlands are shown in Table 2.

Table 2. Impacts to Waters of the U.S./City

Vegetation Community or Land Cover Type	Jurisdictional Acreage		Total Impact Acreage
	Non-Wetland Waters of the U.S. (ACOE, RWQCB, CDFW, and City)	Riparian Habitat above OHWM (CDFW and City)	
Riparian scrub (disturbed mulefat scrub)	0.01	0	0.01
Riparian scrub (southern willow scrub)	0.05	0	0.05
Disturbed Wetland (Arundo-dominated)	0	0.01	0.01
Natural Flood Channel	0.04	0	0.04
Total	0.10	0.01	0.11

<p>Sensitive* Plant Species Observed: Yes <input type="checkbox"/> No X If yes, what species were observed and where? If yes, complete a California Native Species Field Survey Form and submit it to the California Natural Diversity Database.</p> <p>* Sensitive species shall include those listed by state or federal agencies as well as species that could be considered sensitive under Sections 15380(b) and (c) and 15126(c) of the CEQA Guidelines.</p>	<p>Sensitive* Animal Species Observed/Detected: Yes <input type="checkbox"/> No X If yes, what species were observed/detected and where? If yes, complete a California Native Species Field Survey Form and submit it to the California Natural Diversity Database.</p> <p>* Sensitive species shall include those listed by state or federal agencies as well as species that could be considered sensitive under Sections 15380(b) and (c) and 15126(c) of the CEQA Guidelines.</p>										
<p>Is any portion of the maintenance activity within an MHPA? Yes <input type="checkbox"/> No X</p> <p>If yes, describe which portions are within an MHPA:</p>											
<p>Is there moderate or high potential for listed animal species to occur in or adjacent to the impact area? Yes <input type="checkbox"/> No X</p> <p>If yes, which species (check all that apply) and describe any surveys which should be undertaken to determine whether those species could occur within the maintenance area:</p> <table border="0"> <tr> <td><input type="checkbox"/> Least Bell's vireo</td> <td><input type="checkbox"/> Riverside fairy shrimp</td> </tr> <tr> <td><input type="checkbox"/> Southwester willow flycatcher</td> <td><input type="checkbox"/> California least tern</td> </tr> <tr> <td><input type="checkbox"/> Arroyo toad</td> <td><input type="checkbox"/> Light-footed clapper rail</td> </tr> <tr> <td><input type="checkbox"/> Coastal California gnatcatcher</td> <td><input type="checkbox"/> Western snowy plover</td> </tr> <tr> <td><input type="checkbox"/> San Diego fairy shrimp</td> <td><input type="checkbox"/> Other: _____</td> </tr> </table> <p>Attach documentation supporting the determination of the presence or absence of listed animal species with a moderate or high potential to occur (e.g. California Natural Diversity Database records searches).</p> <p>No potential for Least bell's vireo – there is no willow habitat within the channel; all non-native vegetation No potential for willow flycatcher – there is no willow habitat within the channel; all non-native vegetation No potential for Arroyo toad –vegetation very dense with steep banks and disturbed areas adjacent. No potential for California gnatcatcher – no upland habitat consisting of California sagebrush (<i>Artemisia californica</i>), California buckwheat (<i>Eriogonum fasciculatum</i>), Laurel sumac (<i>Malosma Laurina</i>), No potential for fairy shrimp species – No vernal pools exist or mud puddles with potential for cysts No potential for California least tern –No open sandy beach habitat or mudflats. No habitat exists within the channel. Non-native vegetation in the channel is extremely dense. No potential for Light footed clapper rail-more likely to be found in bays with cordgrass. No habitat exists within the channel. Non-native vegetation in the channel is extremely dense. No potential for Western snowy plover- more likely to be found in bays, shores and estuaries. No habitat exists within the channel. Non-native vegetation in the channel is extremely dense.</p>		<input type="checkbox"/> Least Bell's vireo	<input type="checkbox"/> Riverside fairy shrimp	<input type="checkbox"/> Southwester willow flycatcher	<input type="checkbox"/> California least tern	<input type="checkbox"/> Arroyo toad	<input type="checkbox"/> Light-footed clapper rail	<input type="checkbox"/> Coastal California gnatcatcher	<input type="checkbox"/> Western snowy plover	<input type="checkbox"/> San Diego fairy shrimp	<input type="checkbox"/> Other: _____
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<input type="checkbox"/> San Diego fairy shrimp	<input type="checkbox"/> Other: _____										

Is there moderate or high potential for a listed plant species to occur in or adjacent to the impact area?Yes No

If yes, identify which species may occur and describe any surveys which should be undertaken to determine whether those species could occur within the maintenance area:

Attach documentation supporting the determination of the presence or absence of listed animal species with a moderate or high potential to occur (e.g. California Natural Diversity Database records searches).

Could maintenance disrupt the integrity of an important habitat (i.e., disruption of a wildlife corridor and/or an extensive riparian woodland): Yes No

If yes, discuss which habitat could be impacted and how:

Could work be conducted during the avian breeding season (January 15 – August 31) without the need for pre-construction nesting surveys: Yes No

If yes, provide justification:

A wildlife survey was performed before each day of work commenced and all wildlife are listed above. No roosting/nesting opportunities occur within and immediately surrounding the project boundary.

Is it anticipated that maintenance activities would generate noise in excess of 60 dB(A) L_{eq} ?Yes No

If yes, what measures should be taken to avoid adverse impacts on avian bird breeding within or adjacent to the maintenance?

The maintenance was conducted outside of the breeding of any listed species season. Nesting surveys were conducted prior to all work and no nests were observed.

Biological Resource Conditions (vegetation communities present, including adjacent uplands; general habitat quality/level of disturbance):

Within the channel, the only native vegetation communities are riparian scrub (southern willow scrub) and riparian scrub (disturbed mulefat scrub). These habitats are small and isolated within the channel limits with little to no connectivity to downstream native habitats. The surrounding land cover includes urban/developed land cover, which consists of paved City streets and commercial development.

MAINTENANCE IMPACTS**Emergency Maintenance Methodology:**

In the emergency maintenance section located southeast 4425 Home Ave., San Diego CA (MMP Map 70, Figure 3), all sediment, vegetation, and debris were excavated from the channel. A Track Steer/Bobcat and Excavator were the primary tools used to maneuver material for removal from the channel. A Gradall staged outside of the channel then loaded the material into dump trucks for removal. The equipment accessed the channel from the staging area adjacent to Fairmount Avenue and Home Avenue as shown on MMP Map 70, Figure 3. Once the material was loaded into dump trucks, it was either taken to a temporary stockpiling location within the access area or taken directly to Miramar Landfill for disposal. Following maintenance activities, cobble in the section of natural flood channel within the maintenance area was restored to pre-maintenance conditions.

<p>Vegetation Impacts:</p> <p>A total of 0.06 acre of riparian scrub (disturbed mulefat scrub and southern willow scrub) were removed during this maintenance.</p> <p>All other impacts were to unvegetated natural flood channel, disturbed wetland (Arundo-dominated) and disturbed land.</p>		
<p>Jurisdictional Impacts: (See Table 2 above)</p>		
<p>Is there a moderate or high potential for maintenance to impact an MHPA? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If yes, discuss the potential impacts that could occur from the portion within or adjacent to that MHPA.</p> <p>The site is not within or adjacent to the City's MHPA.</p>		
<p>Is there moderate or high potential for listed animal species to be impacted? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If yes, which species (check all that apply):</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Least Bell's vireo <input type="checkbox"/> Southwester willow flycatcher <input type="checkbox"/> Arroyo toad <input type="checkbox"/> Coastal California gnatcatcher <input type="checkbox"/> San Diego fairy shrimp </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Riverside fairy shrimp <input type="checkbox"/> California least tern <input type="checkbox"/> Light-footed clapper rail <input type="checkbox"/> Western snowy plover <input type="checkbox"/> Other: _____ </td> </tr> </table>	<input type="checkbox"/> Least Bell's vireo <input type="checkbox"/> Southwester willow flycatcher <input type="checkbox"/> Arroyo toad <input type="checkbox"/> Coastal California gnatcatcher <input type="checkbox"/> San Diego fairy shrimp	<input type="checkbox"/> Riverside fairy shrimp <input type="checkbox"/> California least tern <input type="checkbox"/> Light-footed clapper rail <input type="checkbox"/> Western snowy plover <input type="checkbox"/> Other: _____
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MITIGATION

Bio-1 Restrict vehicles to access designated in the master program plan.

Bio-2 Flag and delineate all sensitive biological resources to remain within or adjacent to the maintenance area prior to initiation of maintenance activities in accordance with the site specific Individual Biology Assessment (IBA), Individual Hydrology and Hydraulic Assessment (IHHA) and/or Individual Maintenance Plan (IMP).

Bio-3 Conduct a pre-maintenance meeting on-site prior to the start of any maintenance activity that occurs within or adjacent to sensitive biological resources. The pre-maintenance meeting shall include the qualified biologist, field engineer/planner, equipment operators/superintendent and any other key personnel conducting or involved with the 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 be implemented to minimize direct/indirect impacts, and direct crews or other personnel to protect sensitive biological resources as necessary. The biologist shall also review the proposed erosion control methods to confirm that they would not pose a risk to wildlife (e.g., non-biodegradable blankets which may entangle wildlife).

Bio-4 Avoid introduction of invasive plant species with physical erosion control measures (e.g., fiber mulch, rice straw, etc.).

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.

Applicable PEIR mitigation measures:

General Mitigation 1, 2, 3, and 4;

Biological Resources 4.3.1, 4.3.5, 4.3.6, 4.3.7, 4.3.8, 4.3.9, 4.3.10, 4.3.13, 4.3.16, 4.3.18, 4.3.19, 4.3.20, 4.3.25*;

Land Use 4.1.6 and 4.1.7.

Applicable PEIR Mitigation Measures have been included in their entirety in Attachment A.

*It should be noted that, since this channel work was conducted as emergency maintenance, some requirements in the PEIR could not be directly adhered to due to the need to conduct the work in as quickly a manner as possible in order to reduce the existing threat from flooding to adjacent properties.

Other mitigation measures:**Environmental Mitigation Requirements (including wetland enhancement, restoration, creation, and/or purchase of wetland credits in a mitigation bank; off-site upland habitat acquisition/payment into the City's habitat acquisition fund):**

All work was limited to sediment and vegetation within and adjacent to the earthen channel. The vegetation communities and land covers impacted as part of this maintenance included 0.01 acre of riparian scrub (disturbed mulefat scrub), and 0.05 acre of riparian scrub (southern willow scrub), 0.01 acre of disturbed wetland (Arundo dominated), and 0.04 acre of natural flood channel (temporary).

USACE/RWQCB/CDFW Jurisdictional Wetlands:

The USACE authorized the proposed maintenance on January 21, 2016 through issuance of a Regional General Permit 63 Authorization (SPL-2015-00945-MBT). Condition #5 of the authorization states that the "Permittee shall submit a mitigation proposal...the mitigation plan shall include, specifically, measures to address the 0.05 acre of permanent impact to waters of the U.S. (southern willow scrub)." A mitigation plan is under preparation. A subsequent mitigation plan or purchase of approved mitigation credits totaling 0.05 ac will be provided to the USACE and San Diego RWQCB. It should be noted that since the USACE has required mitigation for "permanent impacts" of the project, it is anticipated that future maintenance activities would not require mitigation for impacts within the same geographic footprint.

While CDFW requires notification of emergency channel maintenance activities, it typically does not require compensatory mitigation for these activities. This report will be provided to the CDFW as a post-maintenance report, pursuant to emergency Streambed Alteration Agreement requirements.

City Wetlands:

Mitigation is required for impacts to 0.04 natural flood channel (temporary), 0.01 acre of riparian scrub (disturbed mulefat scrub), and 0.05 acre of riparian scrub (southern willow scrub). The City regulates wetlands, even in urban situations with concrete-lined banks such as this project, and requires compensatory mitigation for wetland impacts pursuant to the mitigation ratios specified in Site Development Permit (SDP) 1134892 for the MMP. The SDP incorporates mitigation language from the Coastal Development Permit (CDP) 714392. Special Condition 9 of the CDP states that wetlands mitigation shall "result in a no-net-loss of function and values and be in-kind habitat to the fullest extent possible. All wetland mitigation shall occur within nine months of impact and either be located on-site or within the same watershed. All wetland impacts shall be mitigated at a ratio of 1:1 for temporary impacts, 2:1 for Natural flood channels, 3:1 for impacts to Riparian habitat, and 4:1 for impacts to Freshwater Marsh and Disturbed wetland (removal of giant reed (arundo) and other exotic, invasive and nonnative vegetation is not considered an impact to wetlands requiring mitigation)." The SDP, however, does allow for mitigation to be implemented in one year and not the nine months the CDP requires.

Therefore, the City will mitigate for the permanent loss of riparian scrub (southern willow scrub) and riparian scrub (disturbed mulefat scrub) at a 3:1 ratio (i.e., a total mitigation requirement of 0.18 ac). The impacts to natural flood channel were considered temporary since the cobble-bottom channel was returned to pre-maintenance conditions at the end of maintenance, therefore the City would be required to mitigate for impacts to this land

cover at a ratio of 1:1 (i.e. a total mitigation requirement of 0.04 acre), for a project total of 0.226 acre of mitigation, such that when routine, ongoing maintenance is authorized, one-time mitigation will have been provided.

Mitigation Description/Location

The mitigation site/bank location is yet to be determined.

ADDITIONAL COMMENTS OR RECOMMENDATIONS

Attachments

Attachment 1: Applicable PEIR Mitigation Measures

Attachment 2: Figures

References

Developmental Services Department (DSD) Notice of Exemption (NOE); Emergency Project (Section 21080(b)(4); 15269(b) &(c)

Regional Water Quality Control Board (RWQCB) Attachments D&E

Army Corps of Engineers (ACOE) Regional General Permit 63 Emergency; SPL-2015-00900-WSZ

California Dept. of Fish and Wildlife (CDFW) Lake or Streambed Alteration Agreement (1600); Notification of Emergency Work

City of San Diego. 2000. San Diego Municipal Code Land Development Code Biology Guidelines. San Diego, California: June 2000.

City of San Diego. 2002. Guidelines for Conducting Biological Surveys. San Diego, California: October 1998, revised July 2002.

City of San Diego. 2011a. Master Storm Water Maintenance Program. San Diego, California: October 2011

Holland, R.F. 1986. Preliminary Descriptions of the Terrestrial Natural Communities of California. California Department of Fish and Game, Sacramento, California.

SITE PHOTOS

Photograph 1: Looking west at sediment deposits from recent flooding of 4425 Home Ave. parking lot prior to maintenance in the east end of MMP Map 70; Figure 3.



(November 11, 2015; 9:23am)

Photograph 2: Looking downstream (west) into the channel prior to maintenance from approximately the center of MMP Map 70; Figure 3.



(November 11, 2015; 9:25am)

Photograph 3: Looking west from the east end of the channel after crews had cut down large tree stand (MMP Map 70; Figure 3).



(January 28, 2016; 8:54am)

Photograph 4: Looking east into the channel as crews remove Arundo along banks in the east end of MMP Map 70; Figure 3.



(January 28, 2016; 8:27am)

Photograph 4: Looking west from the east end of the channel as the bobcat levels the cleared earthen bottom (MMP Map 70; Figure 3).



(January 28, 2016; 12:31pm)

Photograph 4: Looking west from within the channel on the east end of the project area following maintenance activities (MMP Map 70; Figure 3).



(February 12, 2016; 10:56am)

Attachment 1 Applicable PEIR Mitigation Measures

GENERAL

General Mitigation 1: Prior to commencement of work, the Assistant Deputy Director (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.

BIOLOGICAL RESOURCES

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: not applicable

Mitigation Measure 4.3.3: not applicable

Mitigation Measure 4.3.4: not applicable

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. 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 two ways: (1) habitat creation, restoration, and/or enhancement, or (2) mitigation credits. The amount of mitigation 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. No maintenance shall commence until the ADD Environmental Designee has determined that mitigation proposed for a specific maintenance activity meets one of these two options.

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 publically-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.

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 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: Not applicable

Mitigation Measure 4.3.12: Not applicable

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.

Mitigation Measure 4.3.14: Not applicable

Mitigation Measure 4.3.15: Not applicable

Maintenance 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*).

Mitigation Measure 4.3.17: Not applicable

Mitigation Measure 4.3.18: If a subject species is not detected during the protocol survey, the qualified biologist shall submit substantial evidence to the ADD Environmental Designee and an applicable resource agency which demonstrates whether or not mitigation measures such as noise walls are necessary between the dates stated for each species. If this evidence concludes that no impacts to this species are anticipated, no mitigation measures would be necessary.

Mitigation Measure 4.3.19: If the SWD chooses not to do the required surveys, then it shall be assumed that the appropriate avian species are present and all necessary protection and mitigation measures shall be required as described in Mitigation Measure 4.3.21.

Mitigation Measure 4.3.20: If no surveys are completed and no sound attenuation devices are installed, it will be assumed that the habitat in question is occupied by the appropriate species and that maintenance activities would generate more than 60dB(A)Leq within the habitat requiring protection. All such activities adjacent to protected habitat shall cease for the duration of the breeding season of the appropriate species and a qualified biologist shall establish a limit of work.

Mitigation Measure 4.3.21: Not applicable

Mitigation Measure 4.3.22: Not applicable

Mitigation Measure 4.3.23: Not applicable

Mitigation Measure 4.2.24: Not applicable

Mitigation Measure 4.2.25: In order to avoid impacts to nesting avian species, including those species not covered by the MSCP, maintenance within or adjacent to avian nesting habitat shall occur outside of the avian breeding season (January 15 to August 31) unless postponing maintenance would result in a threat to human life or property.

LAND USE

Mitigation Measure 4.1.1: Not applicable

Mitigation Measure 4.1.2: Not applicable

Mitigation Measure 4.1.3: Not applicable

Mitigation Measure 4.1.4: Not applicable

Mitigation Measure 4.1.5: Not applicable

Mitigation Measure 4.1.6: A pre-maintenance meeting shall be held with the Maintenance Contractor, City representative and the Project Biologist. The Project Biologist shall discuss the sensitive nature of the adjacent habitat with the crew and subcontractor. Prior to the pre-maintenance meeting, the following shall be completed:

- The Storm Water Division (SWD) shall provide a letter of verification to the Mitigation Monitoring Coordination Section stating that a qualified biologist, as defined in the City of San Diego Biological Resources Guidelines, has been retained to implement the projects MSCP monitoring Program. The letter shall include the names and contact information of all persons involved in the Biological Monitoring of the project. At least thirty days prior to the pre-maintenance meeting, the qualified biologist shall submit all required documentation to MMC, verifying that any special reports, maps, plans and time lines, such as but not limited to, revegetation plans, plant relocation requirements and timing, MSCP requirements, avian or other wildlife protocol surveys, impact avoidance areas or other such information has been completed and updated.
- The limits of work shall be clearly delineated. The limits of work, as shown on the approved maintenance plan, shall be defined with orange maintenance fencing and checked by the biological monitor before initiation of maintenance. All native plants or species of special concern, as identified in the biological assessment, shall be staked, flagged and avoided within Brush Management Zone 2, if applicable.

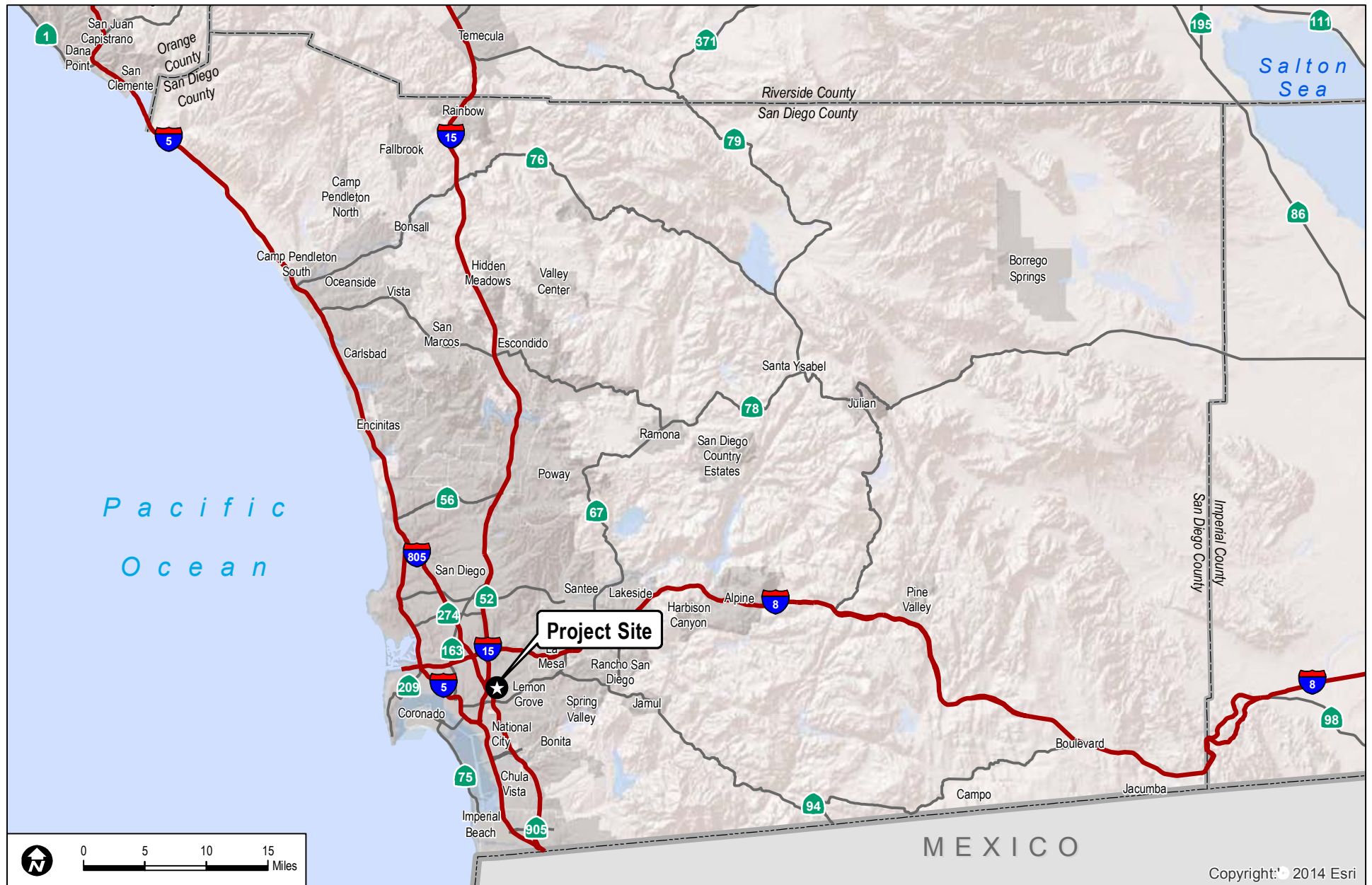
Mitigation Measure 4.1.7: Maintenance plans shall be designed to accomplish the following.

- Invasive non-native plant species shall not be introduced into areas adjacent to the MHPA. Landscape plans shall contain non-invasive native species adjacent to sensitive biological areas, as shown on the approved maintenance plan.
- 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.
- All maintenance activities (including staging areas and/or storage areas) shall be restricted to the disturbance areas shown on the approved maintenance plan. The project biologist shall monitor maintenance activities, as needed, to ensure that maintenance activities do not encroach into biologically sensitive areas beyond the limits of work as shown on the approved maintenance plan.
- No trash, oil, parking or other maintenance-related activities shall be allowed outside the established maintenance areas including staging areas and/or storage areas, as shown on the

approved maintenance plan. All maintenance related debris shall be removed off-site to an approved disposal facility.

- Access roads through MHPA-designated areas shall comply with the applicable policies contained in the “Roads and Utilities Construction and Maintenance Policies” identified in Section 1.4.2 of the City’s Subarea Plan.

Mitigation Measure 4.1.8: Not applicable



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FIGURE 1
Regional Map

Auburn Creek Channel (MMP Map 70) - Emergency Channel Maintenance

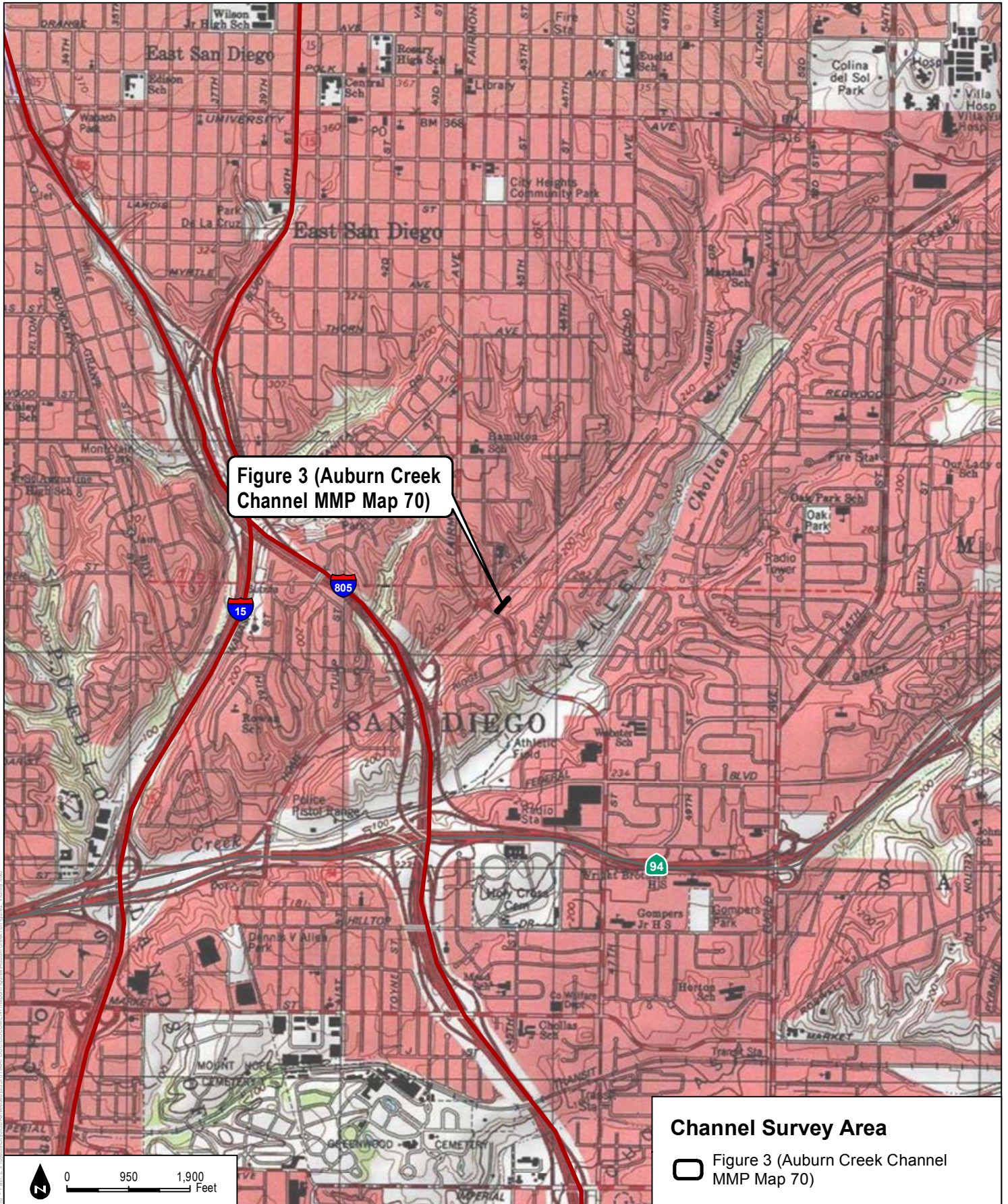
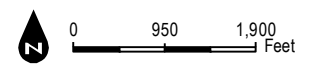


Figure 3 (Auburn Creek Channel MMP Map 70)

Channel Survey Area

Figure 3 (Auburn Creek Channel MMP Map 70)



SOURCE: USGS 7.5-Minute Series - National City Quadrangle.



Auburn Creek Channel (MMP Map 70) - Emergency Channel Maintenance

FIGURE 2
Vicinity Map

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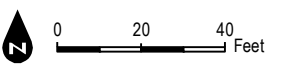
Channel Survey Area
 Channel Survey Area

Impacts

- Channel Maintenance Impact Area
- Access/Staging Area

Jurisdictional Delineation

- ACOE/RWQCB/CDFW
- CDFW Only
- Vegetation Communities
 - DEV, Developed
 - DL, Disturbed Lands
 - DW_ARU, Disturbed Wetland (Arundo-dominated)
 - NFC, Natural Flood Channel
 - ORN, Ornamental Plantings
 - RS_SWS, Riparian Scrub (Southern Willow Scrub)
 - RS_dMFS, Riparian Scrub (Disturbed Mulefat Scrub)



SOURCE: SANDAG Imagery 2015; Helix 2015; City of San Diego 2015



Auburn Creek Channel (MMP Map 70) - Emergency Channel Maintenance

MMP Map 70; Figure 3
 Auburn Creek Channel Biological Resources and Impacts