



THE CITY OF SAN DIEGO

M E M O R A N D U M

DATE: October 22, 2013

TO: Distribution

FROM: Anne B. Jarque, Senior Planner, Transportation & Storm Water Department

SUBJECT: City of San Diego Master Storm Water System Maintenance Program (MMP)
Substantial Conformance Review for Soledad Canyon/Sorrento Creek &
Flintkote Channel Maintenance Project; MMP Maps 9, 11 & 12

The Transportation & Storm Water Department (T&SWD) formally requests your Department's expedited review and written approval to conduct maintenance and mitigation activities associated with two concrete-lined facilities in the Sorrento Valley area. In conformance with the City's modified Master Storm Water System Maintenance Program's (Master Maintenance Program or MMP), amended Site Development Permit (SDP) No. 1134892 and Program Environmental Impact Report (PEIR) Project No. 42891/SCH No. 2004101032, the following Substantial Conformance Review (SCR) documents have been included for your review:

- Application (Form DS-3032)
- IMP Maintenance Methodology Table(s) (Attachments 1 and 2)
- SCR checklist
- Individual Maintenance Plan (IMP)
- Individual Biology Assessment (IBA)
- Individual Hydraulic and Hydrology Assessment (IHHA)
- Individual Historical Assessment (IHA)
- Individual Water Quality Assessment (IWQA)
- Individual Noise Assessment (INA)

In addition, the following reports have also been included in this submittal to ensure appropriate construction-related Best Management Practices and wetland compensatory mitigation would be implemented:

- Water Pollution Control Plan (WPCP)
- El Cuervo Del Sur Conceptual Wetland Enhancement Habitat Mitigation and Monitoring Plan
- Los Peñasquitos Canyon Preserve Conceptual Wetland Enhancement Plan

The site-specific individual assessments have been prepared in conformance with the Master Maintenance Program and associated PEIR, as verified in the SCR Checklist (Attachment 3).

The supporting documents do *not* identify new potentially significant environmental impacts that have not already been identified, addressed and/or mitigated by the required conditions set forth in the associated SDP and PEIR. Therefore the proposed maintenance would substantially conform to the existing permit and environmental document.

Scope of Work

Consistent with the Master Maintenance Program, the Soledad Canyon/Sorrento Creek & Flintkote Channel Maintenance Project (Project) includes the mechanized removal of sediment, vegetation and trash and debris from two concrete-lined drainage channels using heavy equipment. As supported by the site-specific IHHA (Appendix D), the prescribed maintenance will restore the original conveyance capacity of these channels to provide flood control for the protection of life and property. Since the facilities included in this SCR are concrete-lined, the prescribed maintenance would not include any modification that would changed the character, scope, or size of the original fill design and does not increase the conveyance capacity of the channels beyond their as-built condition. The periodic maintenance of these priority channels is necessary to provide flood protection to surrounding properties and to protect the Los Penasquitos Lagoon from impacts due to downstream transport of accumulated sediment, trash and debris from the project area.

As identified in the City's Master Maintenance Program, the four major drainage facilities that serve this area of Sorrento Valley include:

- MMP Maps 7, 11 and 12 - Soledad Canyon Channel (commonly known as the Sorrento Creek Channel), *Reaches 1, 2, and 3*;
- MMP Map 7 and 8: Los Peñasquitos Creek Channel, *Reaches 4, 5 and 6*;
- MMP Map 9: 11000 Roselle Street/11100 Flintkote Avenue Channel (commonly known as the Flintkote Channel, *Reach 7*; and
- MMP Map 10: Dunhill Street at Roselle Street Channel (commonly known as the Dunhill Street Channel), *Reach 8*.

To better describe and assess the channels in the general project area (Figure 1), the channel segments were also assigned reach numbers. There are eight channel reaches in the general project area (Figure 2). However, for this SCR submittal (Project), the T&SWD has narrowed the project scope to the two concrete-lined facilities identified on **MMP Map 9 (Flintkote Channel) – Reach 7** and **MMP Maps 11 and 12 (Soledad Canyon/Sorrento Creek Channel) – Reach 3** only. Proposed maintenance of the remaining earthen portions of

Soledad Canyon/Sorrento Creek Channel (MMP Map 7 & 11) and Los Penasquitos Creek Channel (MMP Map 8) will be authorized in a subsequent SCR submittal. In addition, maintenance of the Dunhill Channel (MMP Map 10) is not required at this time. Therefore, for the purpose of this submittal, only the maintenance of the concrete-lined Flintkote (Reach 7) and Soledad Canyon/Sorrento Creek (Reach 3) Channels identified on MMP Maps 9, 11 & 12 will be further described below.

Project Location and Regional Setting

The project area is generally located in the northwestern region of the City of San Diego within the community of Sorrento Valley near the Interstate 5/Interstate 805 interchange (Figure 1). These drainage facilities are within the City's Coastal Overlay Zone and Torrey Pines Community Plan and Local Coastal Program (LCP). The project area is zoned IL-3-1 (Industrial-Light) and designated for Industrial and Open Space land uses in the Torrey Pines Community Plan LCP. Surrounding uses include the Metropolitan Transit Board right-of-way (railway), commercial, and industrial development. Portions of the Flintkote (MMP Map 9/Reach 7) and Soledad Canyon/Sorrento Creek (MMP Maps 11 & 12/Reach 3) Channels are not within but are adjacent to the City's Multiple Species Conservation Program's (MSCP) Multi-Habitat Planning Area (MHPA). The project area is also located within the Federal Emergency Management Agency's (FEMA) Special Flood Hazard Areas subject to inundation by the 1-percent Annual Chance Flood and 100-year floodway. These facilities are located within the Los Peñasquitos Watershed (Los Peñasquitos Hydrologic Unit). This watershed drains to Los Peñasquitos Lagoon and eventually to the Pacific Ocean.

As mentioned above, the Project covers two of the eight reaches within the Sorrento Valley drainage area. Description of these two drainage facility, or reaches, is further described below:

Reach 7 - Flintkote Channel (MMP Map 9 - 11000 Roselle Street/11100 Flintkote Avenue)

The **Flintkote Channel (MMP Map 9)** is a small drainage facility that conveys runoff from the surrounding business park and local roadways. The channel runs in a southeast-northwest direction and lies generally between properties located at 11055 Flintkote Avenue & 11095 Flintkote Roselle Street; 11040 Roselle Street & 11080 Roselle Street; and 11035 Roselle Street & 11055 Roselle Street. As described in the site-specific individual assessments, the Flintkote Channel (MMP Map 9) is also referred to as **Reach 7**. The Flintkote Channel is located on the USGS 7.5 minute series, Del Mar quadrangle, Township 14 South, Range 3 West, and Section 31. The approximate center of Reach 7 is located at latitude 32°54'15"N and longitude 117°13'49"W.

Mapped within a 29-foot drainage easement, the Flintkote Channel was constructed as a concrete-lined channel, approximately 1,000 feet in length, with an 8-foot bottom width and a 16-foot top width. The trapezoidal geometry is described as a 4-foot deep, 8-foot wide bottom, and 1-to-1 side slopes. Reach 7 flows in a southwest to northeast direction, bisecting a light industrial park along its entire length, and crossing under Roselle Street via a two-foot high, 12-foot wide culvert before flows are discharged at a culvert outfall (dual 36-inch reinforced concrete pipe) located near the confluence of Los Penasquitos and Soledad Canyon/Sorrento Creeks.

Reach 3 – Soledad Canyon/Sorrento Creek (MMP Maps 11 & 12 - Soledad Creek Channel)

The concrete-lined portion of the **Soledad Canyon/Sorrento Creek Channel (MMP Maps 11 & 12)** is a drainage facility that runs parallel and between Roselle Street and Sorrento Valley Boulevard, generally located between 10635 and 11055 Roselle Street. As described in the site-specific individual assessments, the concrete-lined portion of the Soledad Canyon/Sorrento Creek Channel is also referred to as **Reach 3**. Reach 3 is located on the U.S. Geological Survey (USGS) 7.5 minute series, Del Mar quadrangle, Township 15 South, Range 3 West, and Section 5. The approximate center of Reach 3 is located at latitude 32°53'58"N and longitude 117°13'20"W (Figure 2).

Mapped within a flood control drainage easement, this facility was constructed as a concrete-lined trapezoidal channel, approximately 2,280 feet in length with an approximate 63-foot bottom width and an approximate 78-foot top width. The trapezoidal channel geometry of Reach 3 consists of a 5-foot deep, 63-foot wide bottom, and 1.5-to-1 side slope section and is upstream from the earthen-bottom portion of Sorrento Creek (Reaches 1 and 2). This channel flows roughly in a northwest direction from Soledad Canyon, where it confluent with the Los Penasquitos Creek to the east and the Flintkote Channel to the west and continues north through Torrey Pines State Reserve into the Los Penasquitos Lagoon where runoff eventually discharges into the Pacific Ocean.

Maintenance Methodology

A site-specific Individual Maintenance Plans (IMP) (Appendix A) and abbreviated IMP Maintenance Methodology Tables (Attachments 1 and 2) for both channels have been prepared to identify the scope of work, maintenance methodology and procedures, equipment, and duration for maintenance activities planned in these two channels. The IMP also includes a list of Best Management Practices (BMPs), maintenance protocols and mitigation measures derived from applicable permits and regulations that will be implemented with the intent to avoid, minimize, and/or mitigate potential environmental effects to sensitive resources, such as water quality, biological and historical resources.

The following summary highlights key components of the IMP (Appendix A) and IMP Maintenance Methodology Tables (Attachment 1 and 2):

Reach 7 - Flintkote Channel (MMP Map 9 - 11000 Roselle Street/11100 Flintkote Avenue)

Maintenance within Reach 7 have been divided into three maintenance sections: Reach 7A, Reach 7B, and Reach 7C, as identified on the IMP. Equipment that will be utilized to perform maintenance activities includes: a skid-steer (bobcat), excavator, gradall, vactors, dump trucks, and sweepers. Specific sized-equipment in each reach section would be used because of the width and access limitations (e.g. pedestrian bridge and fencing). Crews would vactor (vacuum) any standing water at the upstream end to capture incoming flows and install temporary check dams, as a BMP, at the downstream end of each maintenance section.

There are three primary access and loading points for Reach 7. Access & Loading Point-7A references the existing concrete ramp on Flintkote Avenue. Maintenance within Reach 7A will be accessed from this ramp. Access & Loading Point-3B is located on the south side of the channel within an existing parking lot at 11040 Roselle Street and will be used for Reach-7B. Since there is no direct access ramp to this segment of the channel, a small skid-steer will be lowered into the channel to push material to a gradall that is stationed outside and above the channel bank. The gradall would then reach into the channel to scoop material into a waiting dump truck. Access & Loading Area-7C is located within an existing paved parking lot and landscape area located at 11065 Roselle Street. A small skid-steer will be lowered into the channel to push material to a small excavator stationed outside and above the channel bank. The excavator would then reach into the channel to scoop material into a waiting dump truck.

Maintenance of the Flintkote Channel is anticipated to begin upstream at the existing concrete ramp (Access & Loading Area-7A) and continue east toward the confluence. The project incorporates removal of approximately 125-175 CY of material. Dredged and excavated material will be loaded directly into waiting dump trucks at identified loading points/areas to be hauled to an approved disposal facility. One Staging Area-7A will be used for Reach 7 which is located outside the channel within existing street right-of way. Maintenance work is anticipated to be conducted during the weekend (Saturday and Sunday) only and take approximately six to eight weekend days, with a crew of eight – 12 people.

Reach 3 – Soledad Canyon/Sorrento Creek (MMP Maps 11 & 12 - Soledad Creek Channel)

Maintenance within Reach 3 has been divided into four maintenance sections: Reach 3A, Reach 3B, Reach 3C, and Reach 3D, as identified on the IMP. Equipment that will be

utilized to perform maintenance activities includes skid-steers (bobcat); excavators, loaders, dump trucks, sweepers and pumps. Specific sized-equipment in each section is required due to height and access limitations because of existing structures (e.g. Metropolitan Transit System (MTS) pedestrian bridge and the Sorrento Valley Road Bridge) that cross the channel. During maintenance, crews would install a high line by-pass system that would include temporary berms, pipes and pumps to divert low flows from entering into the maintenance area. Flows would be pumped from the upstream end of the Reach 3 and discharged at the downstream end within the maintenance area.

There are two primary access and loading points. Access & Loading Point-3A references the existing concrete ramp near the downstream end off the bus turn-around on Roselle Street. Maintenance within Reach 3A, 3B and 3C will be accessed from this ramp. Access & Loading Point-3B is also located on Roselle Street and will be used for Reach 3C and 3D. Since there is no direct access ramp into this segment of the channel, equipment will be lowered into and exit the channel from Roselle Street within the street right-of-way.

Maintenance of the Soledad Canyon/Sorrento Creek channel is anticipated to begin at the downstream end at the existing concrete ramp (Access & Loading Area-3A) and continue south of the Sorrento Valley Boulevard bridge. The project incorporates removal of approximately 2,000-4,000 CY of material in the concrete-lined portion of Soledad Canyon/Sorrento Creek (MMP Maps 11 & 12/Reach 3). Dredged and excavated material will be loaded directly into waiting dump trucks at identified loading points/areas to be hauled to an approved disposal facility. Staging and fueling areas for Reach 3 are located outside the channel within existing street right-of way (Roselle Street). Maintenance work is anticipated to take six to eight weeks, seven days a week with a crew of 10 – 18 people.

Consistent with the modified MMP and PEIR, the IMP and individual assessments have been reviewed internally and evaluated against the SCR checklist. The SCR documents meet the requirements for your authorization to conduct maintenance activities this fall and determination of substantial conformance.

Should you have any questions or need additional information, please contact me by e-mail at ajarque@sandiego.gov or phone at (619) 527-3131.



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Attachments:

1. Individual Maintenance Methodology Table for Reach 7 – MMP Map No. 9
2. Individual Maintenance Methodology Table for Reach 3 – MMP Map No. 11 & 12
3. Substantial Conformance Review Checklist
 - Appendix A Individual Maintenance Plan (IMP)
 - Appendix B Individual Biological Assessment (IBA)
 - Appendix C Individual Historical Assessment (IHA)
 - Appendix D Individual Hydrology & Hydraulic Assessment (IHHA)
 - Appendix E Individual Water Quality Assessment (IWQA)
 - Appendix F Individual Noise Assessment (INA)
 - Appendix G Water Pollution Control Plan (WPCP)
 - Appendix H El Cuervo Del Sur Conceptual Wetland Enhancement Habitat Mitigation and Monitoring Plan
 - Appendix I Los Peñasquitos Canyon Preserve Conceptual Wetland Enhancement Plan
4. Master Storm Water System Maintenance Program, July 2013 (CD only)
5. Program Environmental Impact Report (PEIR) Project No. 42891/SCH No. 2004101032 (CD only)
6. Site Development Permit (SDP) No. 1134892 (CD only)

Figure 1: Project Vicinity Map

Figure 2: Project Area by Reaches

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