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EMAIL SUMMARY FROM EARLE HARTLING

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SANITATION DISTRICTS OF LOS ANGELES COUNTY | 1955 Workman Mill Road, Whittier CA 90601
 Converting Waste Into Resources | www.LACSD.org

1. *A description of your wastewater collection and treatment systems; including:*

a. *Treatment plant and discharge location name and description*

The Sanitation District's treatment facility receiving wastewater from the City of Lakewood service area is the Long Beach Water Reclamation Plant (LBWRP), 7400 E. Willow Street, Long Beach, CA 90815 (Figures 1 and 31). The LBWRP has a design capacity of 25 million gallons per day (MGD). The discharge point from this facility (NPDES No. 001) is into Coyote Creek downstream of Willow Street and upstream of the confluence with the San Gabriel River (Figures 1 and 3). The Sanitation District's treatment facility from which the City of Lakewood receives recycled water is the Los Coyotes Water Reclamation Plant (LCWRP), 16515 Piuma Avenue, Cerritos, CA 90703 (Figures 1 and 2, the latter using GSWC's Artesia system Figure 2-1). The LCWRP has a design capacity of 37.5 million gallons per day (MGD). The discharge point from this facility (NPDES No. 001) is into the San Gabriel River just downstream of Alondra Blvd.

b. *Method of disposal*

Recycled water produced by the LCWRP is either delivered through recycled water distribution systems operated by the City of Cerritos, the City of Lakewood, the City of Bellflower, or the Central Basin Municipal Water District (CBMWD) for beneficial, non-potable reuse, or it is discharged into the San Gabriel River where it flows into the Pacific Ocean. Recycled water produced by the LBWRP is either delivered through recycled water distribution systems operated by the Long Beach Water Department (LBWD) for beneficial, non-potable reuse, delivered by LBWD to the Water Replenishment District of Southern California for advanced treatment and injection into the Alamos Seawater Intrusion Barrier, or it is discharged into Coyote Creek which joins the San Gabriel River before it flows into the Pacific Ocean.

c. *Treatment level*

Recycled water produced by both the LCWRP and LBWRP is at the tertiary level. The treatment process consists of primary sedimentation, biological oxidation, coagulation, secondary clarification, inert media filtration, and disinfection using chlorine.

d. *Service area*

The wastewater collection and treatment system in the Sanitation Districts' Los Angeles metropolitan service area (i.e., the area outside of the City of Los Angeles and south of the San Gabriel Mountains), known as the Joint Outfall System (JOS) is interconnected between a main ocean disposal plant in the City of Carson and six WRPs located upstream in the trunk sewer system. The upstream WRPs take a portion of the wastewater flow generated in the JOS into their facilities for treatment. As such, the tributary service area for the LCWRP is generally to the north and northeast of the plant (Figure 4). The tributary service area for the LBWRP is generally to the north and west of the plant (Figure 5).

2. *The quantity of:*

e. *Wastewater collected in 2015 (metered or estimated)*

Approximately 24.41 MGD of wastewater was treated at the LCWRP in 2015. Approximately 14.68 MGD of wastewater was treated at the LBWRP in 2015.

f. *Wastewater discharged in 2015*

Approximately 20.75 MGD of recycled water was produced and discharged from the LCWRP in 2015. Approximately 12.44 MGD of recycled water was produced and discharged from the LBWRP in 2015.

g. Water recycled within Lakewood service area in 2015

Approximately 0.44 MGD (a total of 158.76 million gallons) of recycled water from the LCWRP was reused within the City of Lakewood's service area in 2015. An additional 0.08 MGD (a total of 29.78 million gallons) of recycled water from the LCWRP was delivered through the CBMWD and Golden State Water Company and reused within the City of Lakewood.

h. Water recycled outside of Lakewood service area in 2015

Approximately 5.69 MGD (a total of 2,075.33 million gallons) of recycled water from the LCWRP was delivered through the Cerritos, Lakewood, Bellflower and CBMWD distribution systems and reused in 2015.

3. A description, level of treatment, and quantity of existing 2015 and potential future uses of recycled water including: agricultural irrigation, landscape irrigation, wildlife habitat enhancement, and other appropriate uses within the City of Lakewood service area.

All recycled water produced by the LCWRP and the LBWRP is at the tertiary level, whether it is distributed for beneficial reuse (regardless of type of use) or discharged into the river for disposal. Potential future uses in GSWC's three service areas would most likely be limited to landscape irrigation and/or industrial process water, as there are no known agricultural areas or wildlife habitat enhancement projects.

4. What is the projected use of recycled water within the City of Lakewood systems at the end of 5, 10, 15, 20, and 25 years?

The LCWRP is one of the Sanitation Districts' few WRPs that have significant amounts of unused recycled water that can be distributed to potential users. However, future recycled water use in the Sanitation Districts' service area is almost entirely the responsibility of the wholesale and retail water agencies distributing and purveying the Sanitation Districts' recycled water supplies. The recycled water produced by the LBWRP is allocated to the Long Beach Water Department, with none of the production being available for additional uses outside of the LBWD service area. In the Lakewood service areas, projections of future use would be the responsibility of CBMWD and the City.

5. What actions are being taken to encourage the use of recycled water and the projected results in terms of acre-feet of recycled water used per year?

Development of additional recycled water usage in Lakewood's service area is the responsibility of CBMWD and the City; as such, the Sanitation Districts have no information regarding this.

6. Is there a plan for optimizing the use of recycled water within the Artesia, Bell-Bell Garden, and Florence-Graham service area? If so please describe.

While Sanitation Districts' staff is available to assist in the development and permitting of plans for optimizing the use of recycled water in GSWC's service areas, such plans are ultimately the responsibility of CBMWD and GSWC to implement.

FIGURE 1: SANITATION DISTRICTS' JOINT OUTFALL SYSTEM

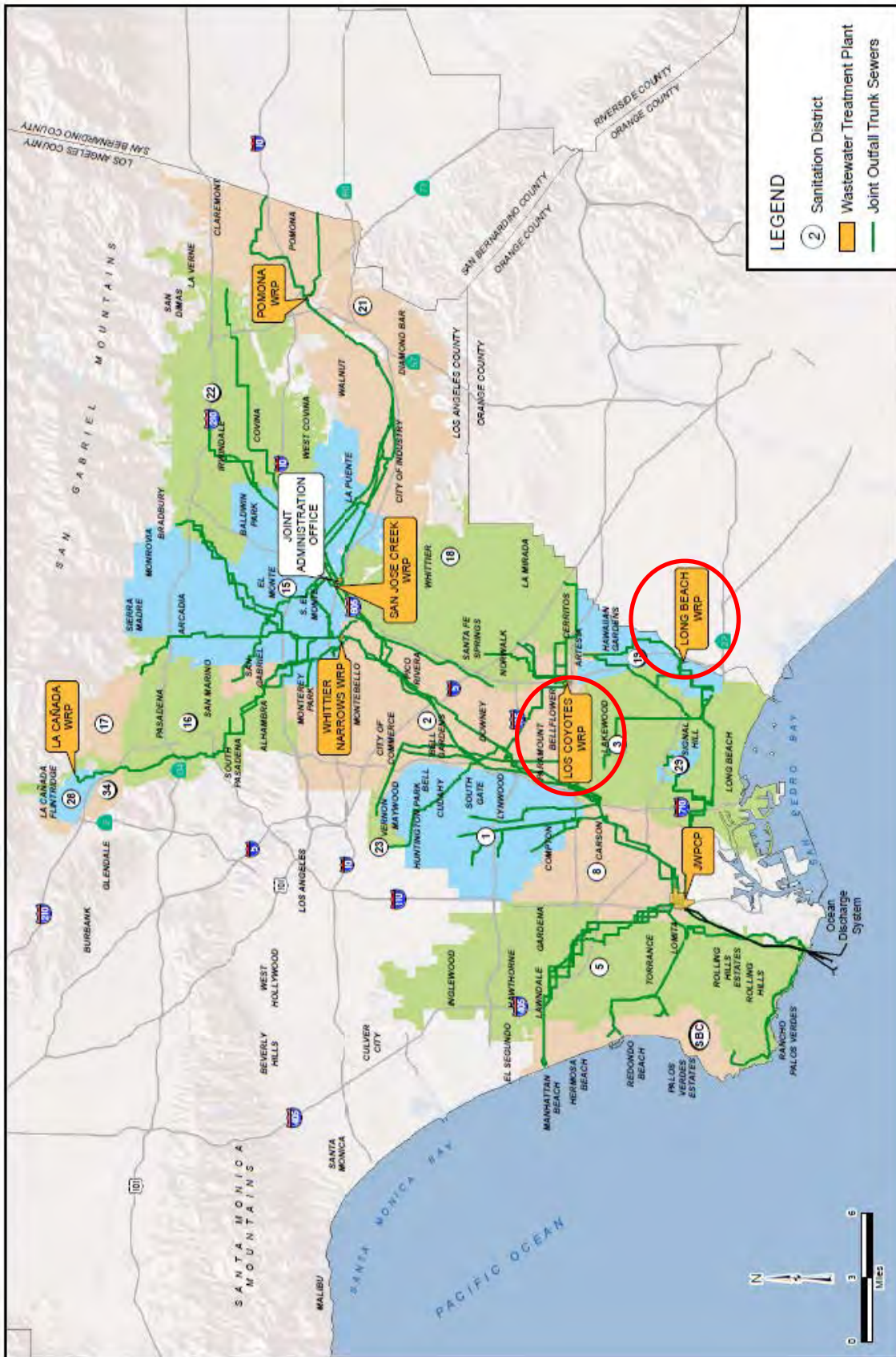
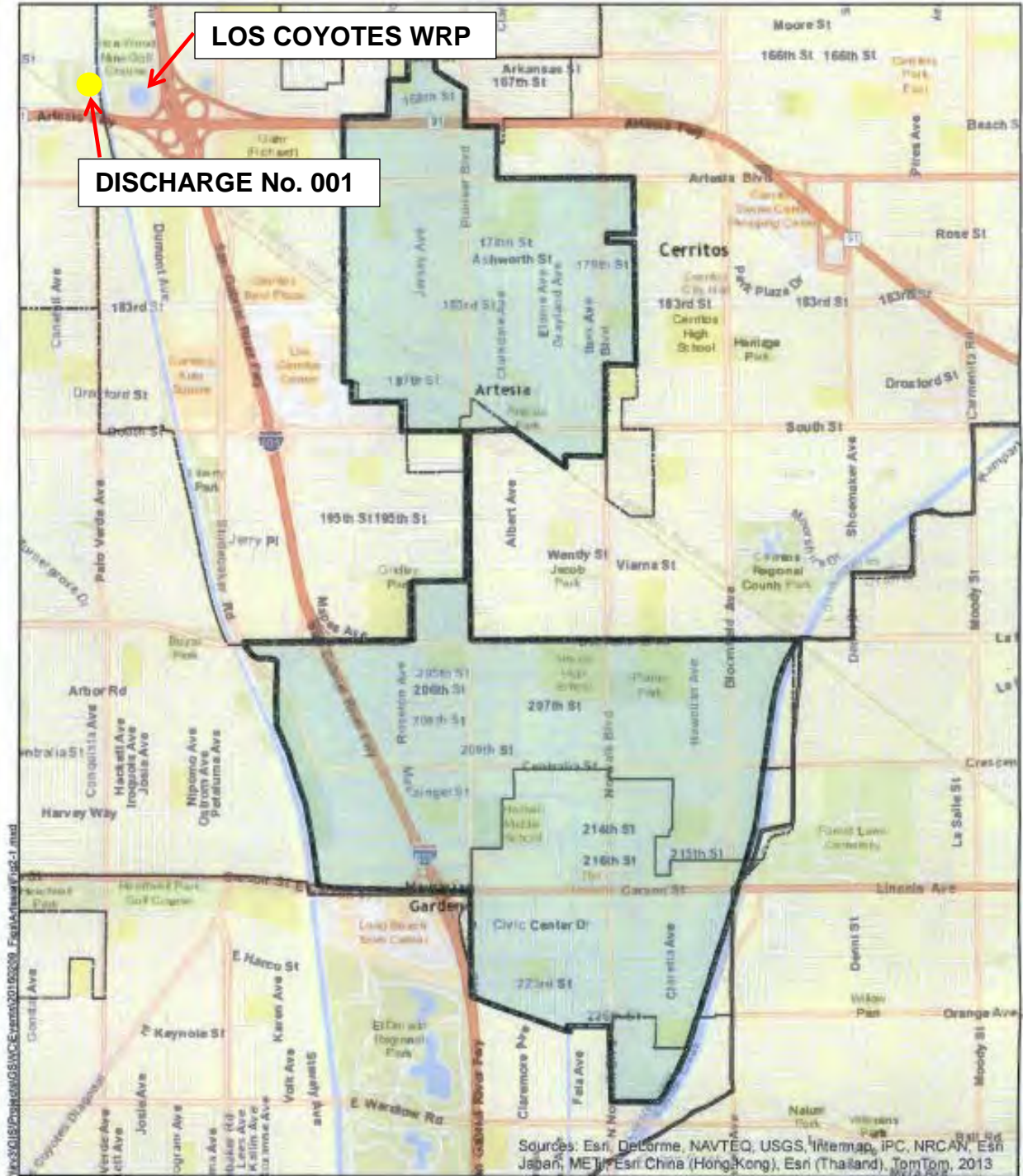


FIGURE 2: LOCATION OF LOS COYOTES WRP



Legend

- Artesia System Boundary
- City Boundary
- County Boundary



Kennedy/Jenks Consultants
Golden State Water Company
2015 Urban Water Management Plan

**Artesia System
Service Area**

K/J 1570027.00
February 2016

Figure 2-1

FIGURE 3: LOCATION OF LONG BEACH WRP

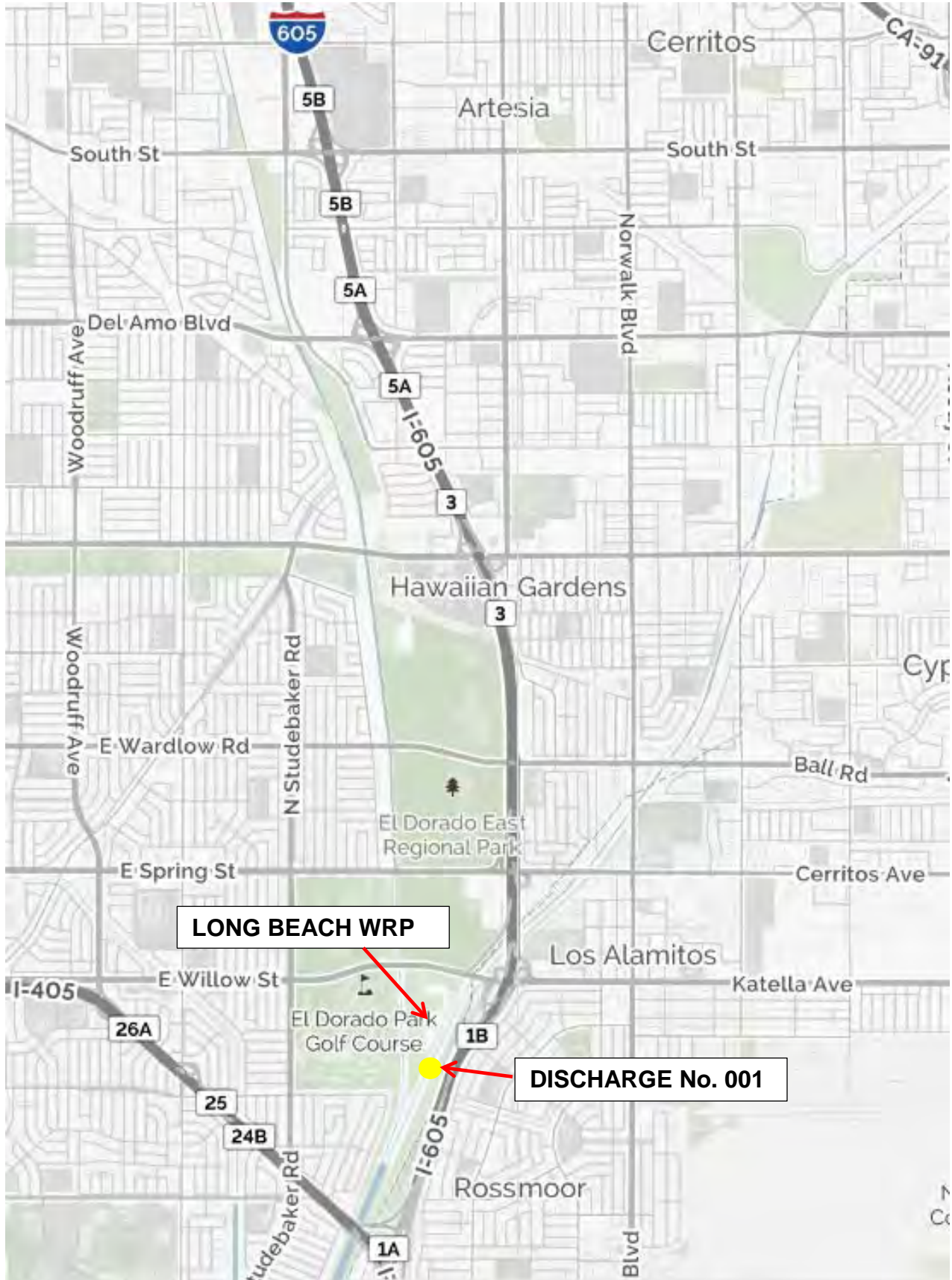
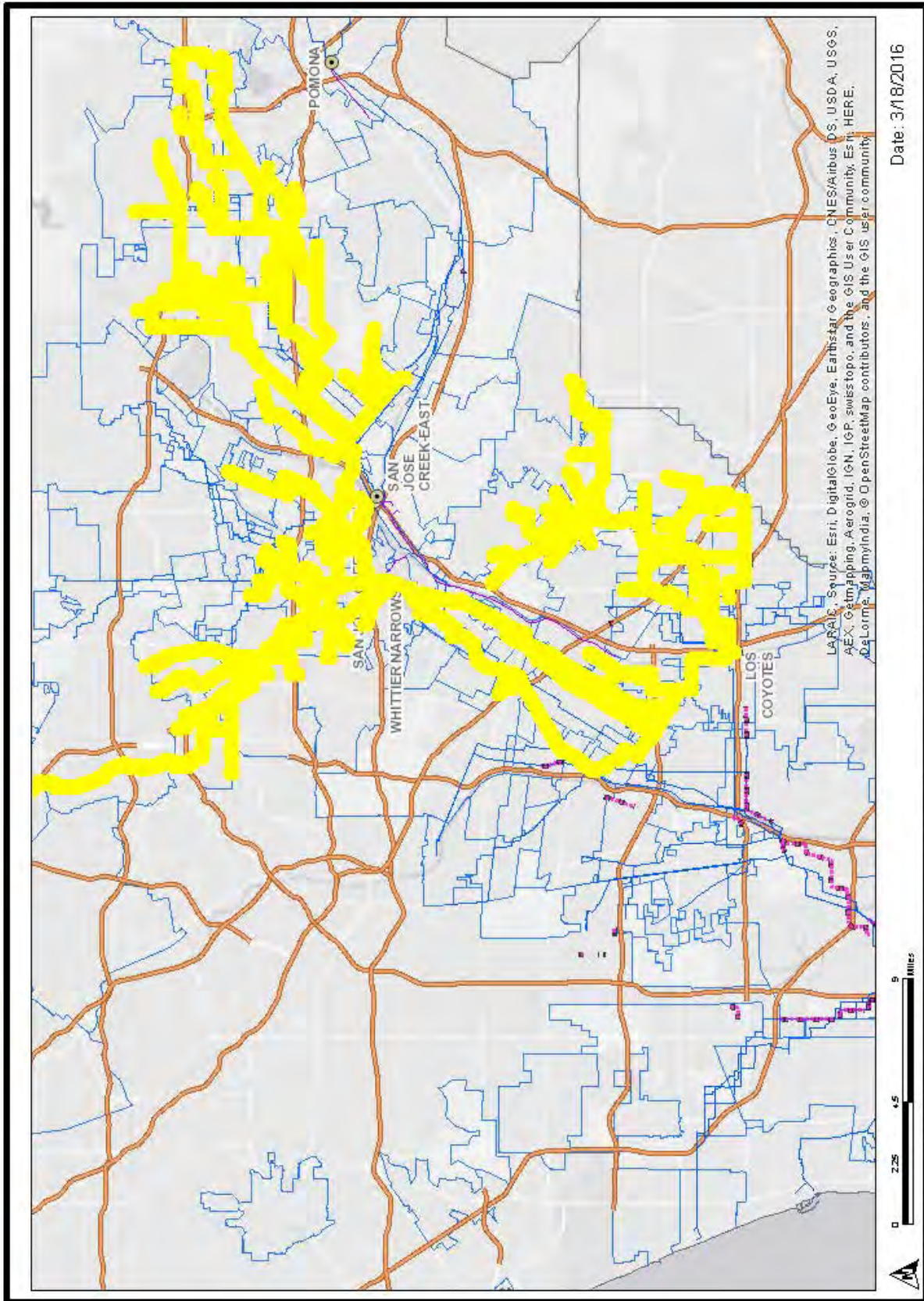


FIGURE 4: SEWER SYSTEM TRIBUTARY TO LOS COYOTES WRP

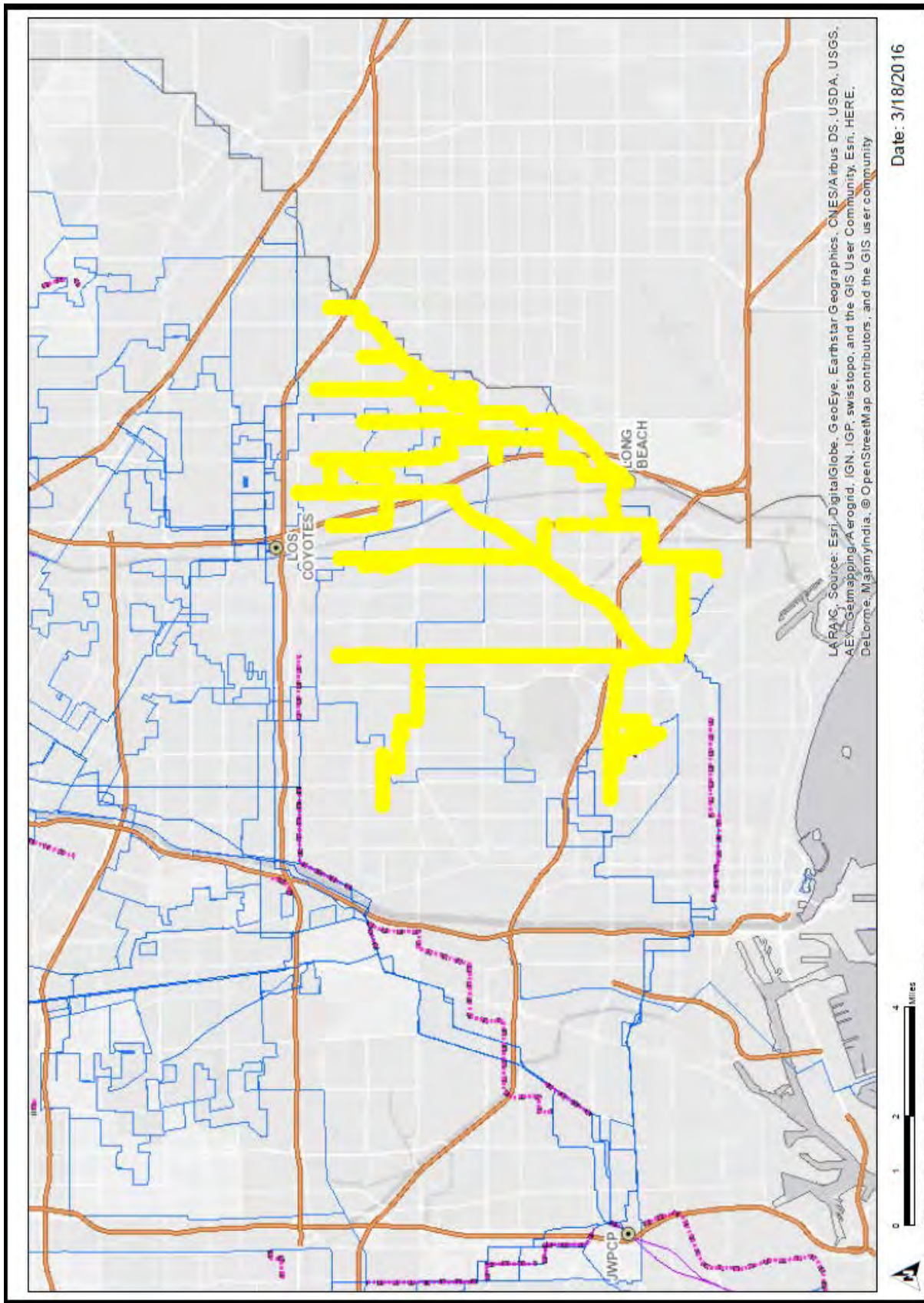


Date: 3/18/2016



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FIGURE 5: SEWER SYSTEM TRIBUTARY TO LONG BEACH WRP



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