

APPENDIX 8

DATE: October 21, 2024
TO: Kaitlyn Dodson-Hamilton, Tom Dodson & Associates
FROM: Brendan Dugan/Taryn Ferguson, Urban Crossroads
JOB NO: 16281-01 TG Letter

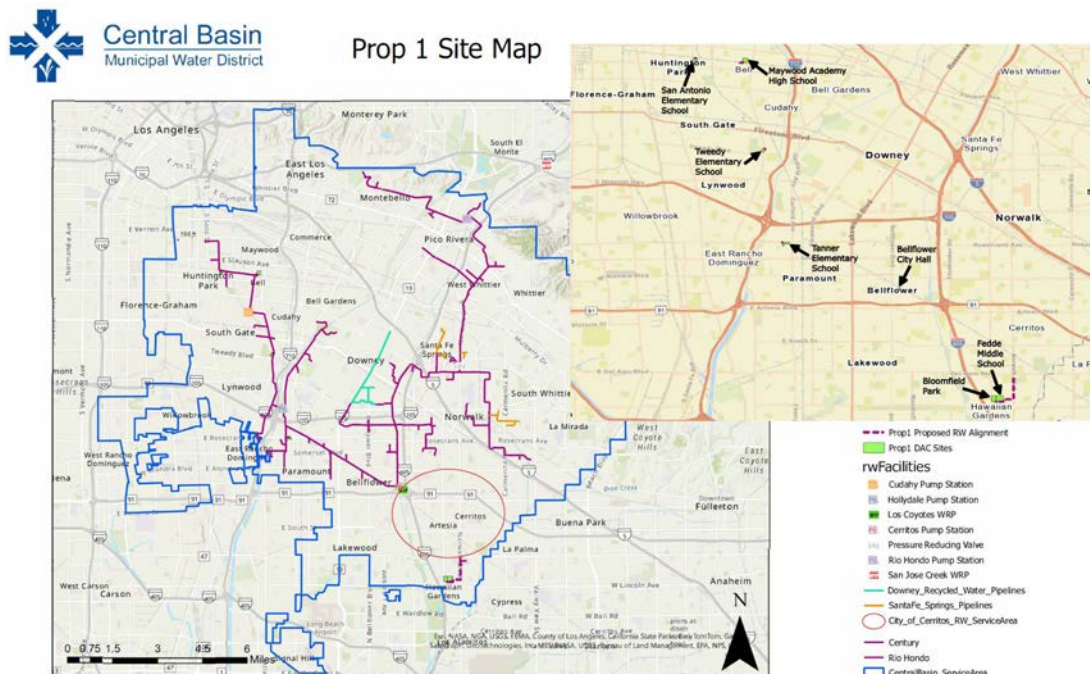
CENTRAL BASIN MUNICIPAL WATER DISTRICT CONSTRUCTION TRIP GENERATION ASSESSMENT

Urban Crossroads, Inc. is pleased to present this Construction Trip Generation Assessment (**TG**) for the proposed Central Basin Municipal Water District (**Project**), which is located in the County of Los Angeles.

PROJECT DESCRIPTION

The Central Basin Municipal Water District Proposition 1 Recycled Water Customer Conversion for Disadvantaged Communities Project proposes seven areas in which recycled water pipeline segments will be installed in areas that are currently supported by potable water service. **Exhibit 1** shows an aerial depiction of the regional locations of the proposed recycled water pipeline to be installed. The Project will be installing pipeline in several cities throughout the County such as Bellflower, Maywood, Huntington Park, Paramount, South Gate, Lakewood, and Hawaiian Gardens.

EXHIBIT 1: CBMWD PROPOSITION 1 REGIONAL LOCATIONS



The Central Basin Municipal Water District (District or CBMWD) is a public agency that purchases imported water from the Metropolitan Water District of Southern California (MWD) and recycled water from the Los Angeles County Sanitation Districts (LACSD). The District's service area is composed of approximately 90 miles of recycled water pipeline that reaches over 300 customers.

The District is proposing the Proposition 1 Recycled Water Customer Conversion for Disadvantaged Communities Project (project), which will conserve potable water by transitioning to recycled water for irrigation in seven public sites in disadvantaged communities. The project proposes to install recycled water pipeline that would connect to the District's existing recycled water transmission system, and would also require installation of new pipeline internally at the seven public sites that will be connected to the District's new recycled water transmission system installed as part of this project.

The proposed project involves the installation of new recycled water pipeline through installation of distinct recycled water segments within public rights-of-way and internally at the seven public sites that will be connected to the District's new recycled water transmission system, as follows:

- Bellflower City Hall (Attachment 1)
- Maywood Academy High School (Attachment 2)
- San Antonio Elementary School (Attachment 3)
- Tanner Elementary School (Attachment 4)
- Tweedy Elementary School (Attachment 5)
- Bloomfield Park (Attachment 6)
- Fedde Middle School (Attachment 7)

BELLFLOWER CITY HALL

This segment of recycled water (RW) pipeline is anticipated to replace potable water use in the amount of 5 acre-feet (AF) per year by transitioning to recycled water for irrigation purposes. No new external RW pipeline is anticipated to be necessary for this project, as connection to recycled water service is already available, but 175 LF of internal pipeline will be installed within the Bellflower City Hall site, located at 16600 Civic Center Drive. 6 months of construction beginning in first quarter of 2025 date, anticipated to conclude by the end of the second quarter of 2025 date.

MAYWOOD ACADEMY HIGH SCHOOL

New recycled water pipeline will connect to an existing pipeline within Randolph Street (south), and will travel along Randolph Street, bore under the Southern Pacific Railroad at Randolph Street's intersection with Fishburn Avenue, will travel across Randolph Street (north) to connect to the Maywood Academy High School site, located at 6125 Pine Avenue. Recycled water pipeline will also be installed internally at this site. This segment of RW pipeline is anticipated to replace potable water use in the amount of 4 AF per year by transitioning to recycled water for irrigation purposes. 600 LF of external RW pipeline is anticipated to be necessary for this project, and 0 LF of internal pipeline will be installed within the Maywood Academy High School site. 6 months of

construction beginning in first quarter of 2025 date, anticipated to conclude by the end of the second quarter of 2025 date.

SAN ANTONIO ELEMENTARY SCHOOL

New recycled water pipeline will connect to an existing pipeline within Randolph Street (north), and will cross the median, as well as Randolph Street (south) to connect to San Antonio Middle School, located at 6222 State Street in Huntington Park. Recycled water pipeline will also be installed internally at this site. This segment of RW pipeline is anticipated to replace potable water use in the amount of 2 AF per year by transitioning to recycled water for irrigation purposes. 45 LF of external RW pipeline is anticipated to be necessary for this project, and 40 LF of internal pipeline will be installed within the San Antonio Elementary School site. 6 months of construction beginning in first quarter of 2025 date, anticipated to conclude by the end of the second quarter of 2025 date.

TANNER ELEMENTARY SCHOOL

The project is located at 7210 Rosecrans Avenue in the City of Paramount. New recycled water pipeline will connect to an existing pipeline that traverses the western boundary of Tanner Elementary School and will connect to the site at its northwest corner. Recycled water pipeline will also be installed internally at this site. This segment of RW pipeline is anticipated to replace potable water use in the amount of 4 AF per year by transitioning to recycled water for irrigation purposes. 20 LF of external RW pipeline is anticipated to be necessary for this project, and 500 LF of internal pipeline will be installed within the Tanner Elementary School site. 6 months of construction beginning in first quarter of 2025 date, anticipated to conclude by the end of the second quarter of 2025 date.

TWEEDY ELEMENTARY SCHOOL

The project is located at S B Street and W 6th Street, to El Camino and 6th Street in the City of Tustin. New recycled water pipeline will connect to an existing pipeline within the median that separates east- and west-bound traffic along Atlantic Avenue and will cross the median, as well as Atlantic Avenue (north) to connect to Tweedy Elementary School. Recycled water pipeline will also be installed internally at this site. This segment of RW pipeline is anticipated to replace potable water use in the amount of 2 AF per year by transitioning to recycled water for irrigation purposes, 50 LF of external RW pipeline is anticipated to be necessary for this project, and 80 LF of internal pipeline will be installed within the Tweedy Elementary School site. 6 months of construction beginning in first quarter of 2025 date, anticipated to conclude by the end of the second quarter of 2025 date.

BLOOMFIELD PARK

The project is located at 21420 Pioneer Blvd in the City of Lakewood. Bloomfield Park and Fedde Middle School are adjacent to one another and will be served by a recycled water pipeline connection that will serve both locations. For Bloomfield Park, the new recycled water pipeline will connect to the park within 215th Street at the park's southwest corner. Recycled water pipeline will also be installed internally at this site. This segment of RW pipeline is anticipated to replace potable water use in the amount of 70 AF per year by transitioning to recycled water for

irrigation purposes. 100 LF of external RW pipeline is anticipated to be necessary for this project, and 225 LF of internal pipeline will be installed within the Bloomfield Park site. 6 months of construction beginning in first quarter of 2025 date, anticipated to conclude by the end of the second quarter of 2025 date.

FEDDE MIDDLE SCHOOL

The project is located at 21409 Elaine Ave in the City of Hawaiian Gardens. As stated above, Bloomfield Park and Fedde Middle School are adjacent to one another and will be served by a recycled water pipeline connection that will serve both locations. For Fedde Middle School, the new recycled water pipeline will connect to an existing pipeline within Norwalk Boulevard at the northwest corner of Palms Park (north of Fedde Middle School) and will travel south along Norwalk Boulevard to 214th Street. The new recycled water pipeline will travel west along 214th Street to Elaine Avenue, where the new recycled water pipeline will then travel south to 215th Street, at which the pipeline will travel west to the southwestern corner of Fedde Middle School. Recycled water pipeline will also be installed internally at this site. This segment of RW pipeline is anticipated to replace potable water use in the amount of 35 AF per year by transitioning to recycled water for irrigation purposes. 6,000 LF of external RW pipeline is anticipated to be necessary for this project, and 300 LF of internal pipeline will be installed within the Fedde Middle School site. 6 months of construction beginning in first quarter of 2025 date, anticipated to conclude by the end of the second quarter of 2025 date.

CONSTRUCTION TRAFFIC

All materials for project construction would be delivered by truck. Truck deliveries will normally occur during daylight hours. All truck traffic would utilize City-designated truck routes. Traffic associated with construction activities are temporary and would occur along area roadways as workers and materials are transported to and from the proposed Project site. It is assumed that an underground utility installation team can install approximately 100-200 lineal feet of RW pipeline per day. A team consists of the following:

- 1 Excavator
- 1 Backhoe
- 1 Paver
- 1 Roller
- 1 Water Truck
- 1 Worker's Utility Truck
- 1 Forman Truck
- Traffic Control Signage and Devices
- 10 Dump/Delivery trucks (50 miles round trip distance)
- Employees (11 members per team)

For the purposes of the air quality emissions analyses, it has been assumed that one team will be installing pipelines, and a second team will be deployed for the RW retrofit efforts for a maximum total of 200 lineal feet per day. As such, this trip generation assessment will also take

into consideration the trucks and employees needed to support two teams. In order to install 6,815 lineal feet (LF) of RW pipeline (external) and 1,320 LF of internal RW pipeline, 150 construction days or about 6 months has been assumed. Repaving is anticipated to occur as soon as each area is completed. It is our understanding that construction activity is anticipated to occur between 7 AM and 4 PM during the weekdays (Monday through Friday, excluding government holidays), however we defer to the individual cities on their posted construction working hours.

Construction employees are anticipated to arrive by private automobile, and no carpooling has been assumed for the purposes of this trip generation evaluation. It has been assumed that all construction employees would arrive to the site prior to the morning 7-9 AM peak commute period, however, all 22 employees are assumed to depart during the PM peak hour based on the anticipated work hours. It has conservatively been assumed that 25% of the daily truck trips would occur during the morning peak hour, however, no trucks activity is assumed during the PM peak hour as the truck activity is anticipated to cease prior to the end of the workday at 4 PM. For this analysis, a worst-case scenario was assumed where we are assuming 2 installation teams; therefore, the total potential vehicle trip generation from the proposed Project would be approximately 84 trips per day (see **Table 1**).

TABLE 1: CONSTRUCTION TRIP GENERATION SUMMARY

Project	AM Peak Hour			PM Peak Hour			Daily
	In	Out	Total	In	Out	Total	
CEB-301 Prop 1							
Passenger Cars: ¹	0	0	0	0	22	22	44
Truck trips:	5	5	10	0	0	0	40
Project Total:	5	5	10	0	22	22	84

¹ Construction workers would arrive prior to the 7-9 AM morning peak commute period. Construction workers anticipated to leave the site starting at 4:00 PM (at the beginning of the 4-6 PM peak commute period).

FINDINGS

The Los Angeles County Public Works Transportation Impact Analysis Guidelines (July 23, 2020) indicates that projects generating fewer than 110 two-way trips per day would screen out. The Project is anticipated to contribute fewer than 50 peak hour trips to the existing circulation system during construction and is anticipated to generate fewer than 110 two-way trips per day. As such, no additional traffic analysis is necessary based on the CMP traffic study guidelines and LA County Public Works guidelines.

If you have any questions or comments, I can be reached at bdugan@urbanxroads.com.

Respectfully submitted,

URBAN CROSSROADS, INC.

Brendan Dugan

Brendan Dugan, P.E.
Senior Associate

Taryn Ferguson

Taryn Ferguson
Transportation Analyst

**ATTACHMENT 1:
BELLFLOWER CITY HALL**

Bellflower City Hall Pipeline Alignment



- Prop1 Proposed RW Alignment

Prop1 DAC Sites
- rwFacilities

Cudahy Pump Station

Hollydale Pump Station

Los Coyotes WRP

Cerritos Pump Station

Pressure Reducing Valve

Rio Hondo Pump Station

San Jose Creek WRP

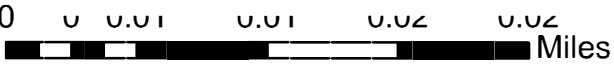
Downey Recycled Water Pipelines

SantaFe Springs Pipelines

rwMain

Century

Rio Hondo

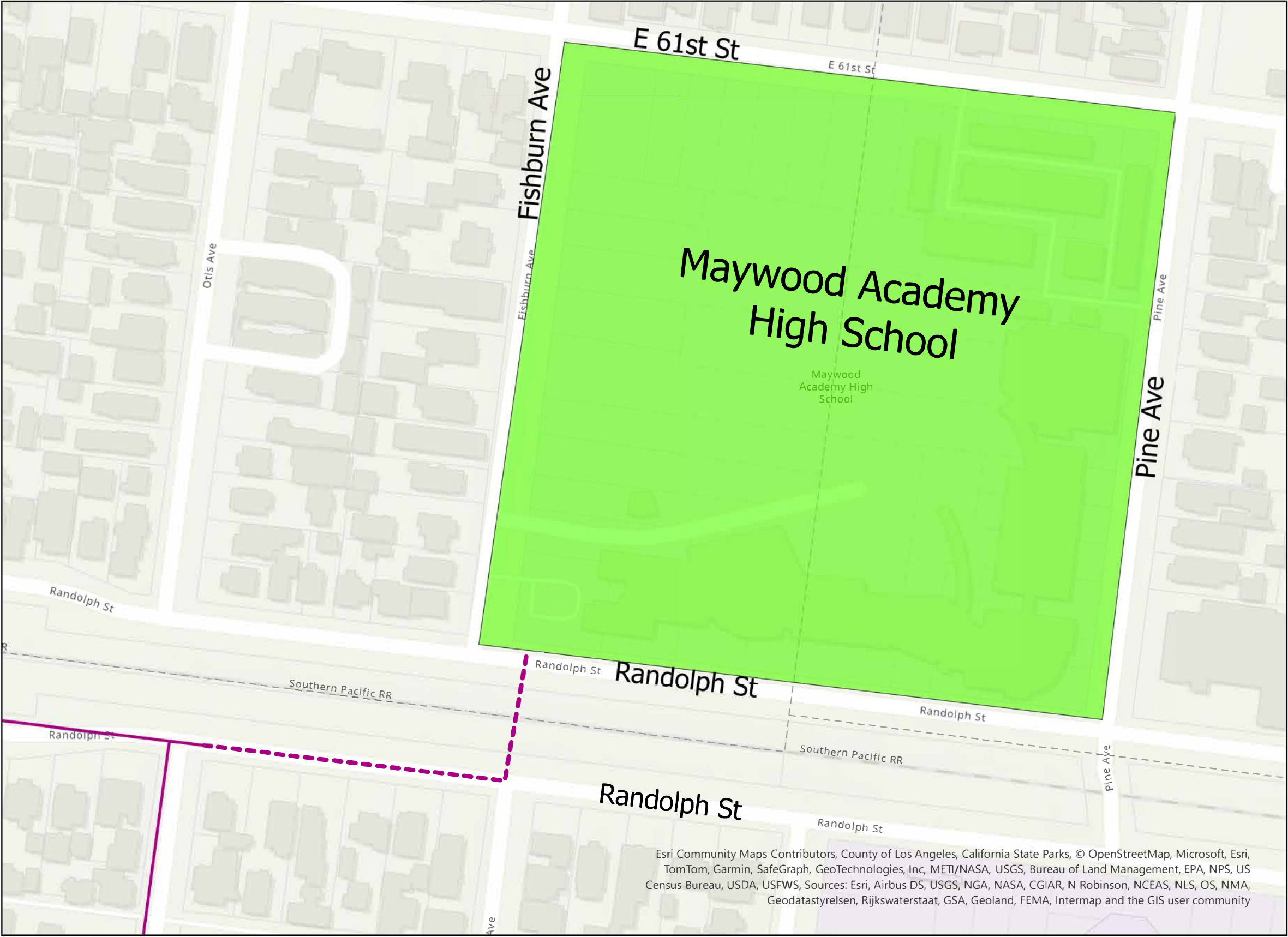
CentralBasin_ServiceArea
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0 0.01 0.01 0.02 0.02 Miles
- 8/29/2024

ATTACHMENT 2:
MAYWOOD ACADEMY HIGH SCHOOL

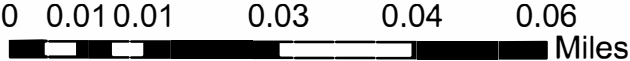


Maywood Academy High School Pipeline Alignment



- Prop1 Proposed RW Alignment
 - Prop1 DAC Sites
- rwFacilities**
- Cudahy Pump Station
 - Hollydale Pump Station
 - Los Coyotes WRP
 - Cerritos Pump Station
 - Pressure Reducing Valve
 - Rio Hondo Pump Station
 - San Jose Creek WRP
 - Downey_Recycled_Water_Pipelines
 - SantaFe_Springs_Pipelines
- rwMain**
- Century
 - Rio Hondo
 - CentralBasin_ServiceArea

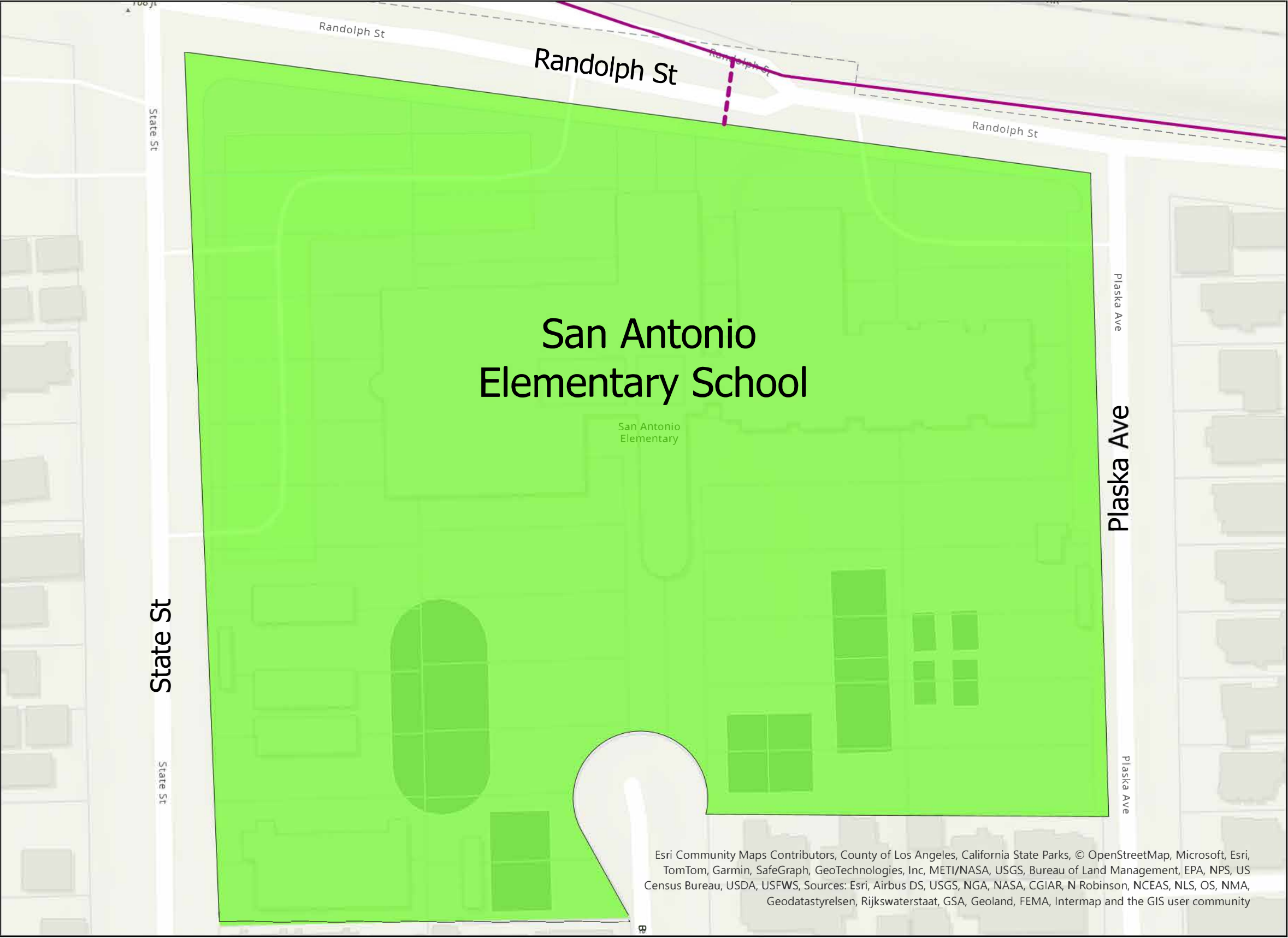
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ATTACHMENT 3:
SAN ANTONIO ELEMENTARY SCHOOL

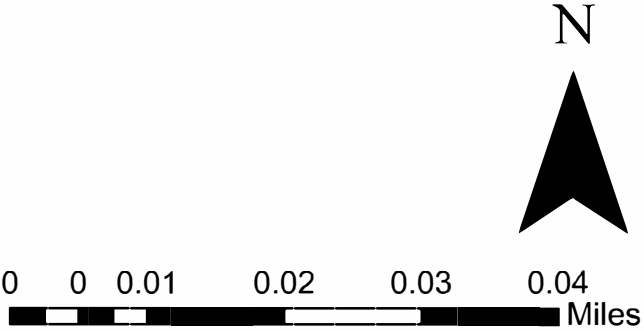


San Antonio Elementary School Pipeline Alignment



- Prop1 Proposed RW Alignment
- Prop1 DAC Sites
- rwFacilities**
 - Cudahy Pump Station
 - Hollydale Pump Station
 - Los Coyotes WRP
 - Cerritos Pump Station
 - Pressure Reducing Valve
 - Rio Hondo Pump Station
 - San Jose Creek WRP
 - Downey_Recycled_Water_Pipelines
 - SantaFe_Springs_Pipelines
- rwMain**
 - Century
 - Rio Hondo
 - CentralBasin_ServiceArea

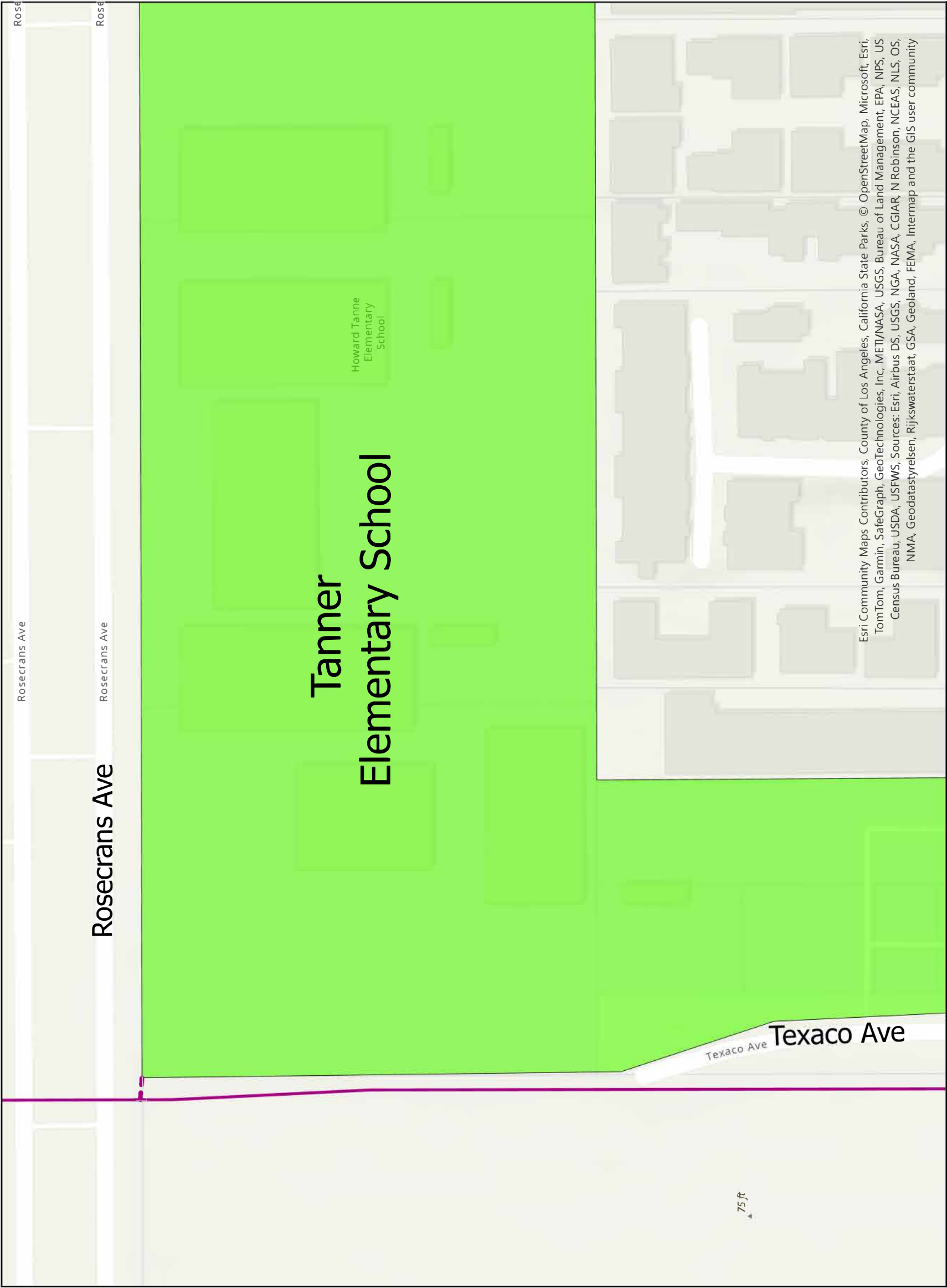
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ATTACHMENT 4:
TANNER ELEMENTARY SCHOOL

Tanner Elementary School

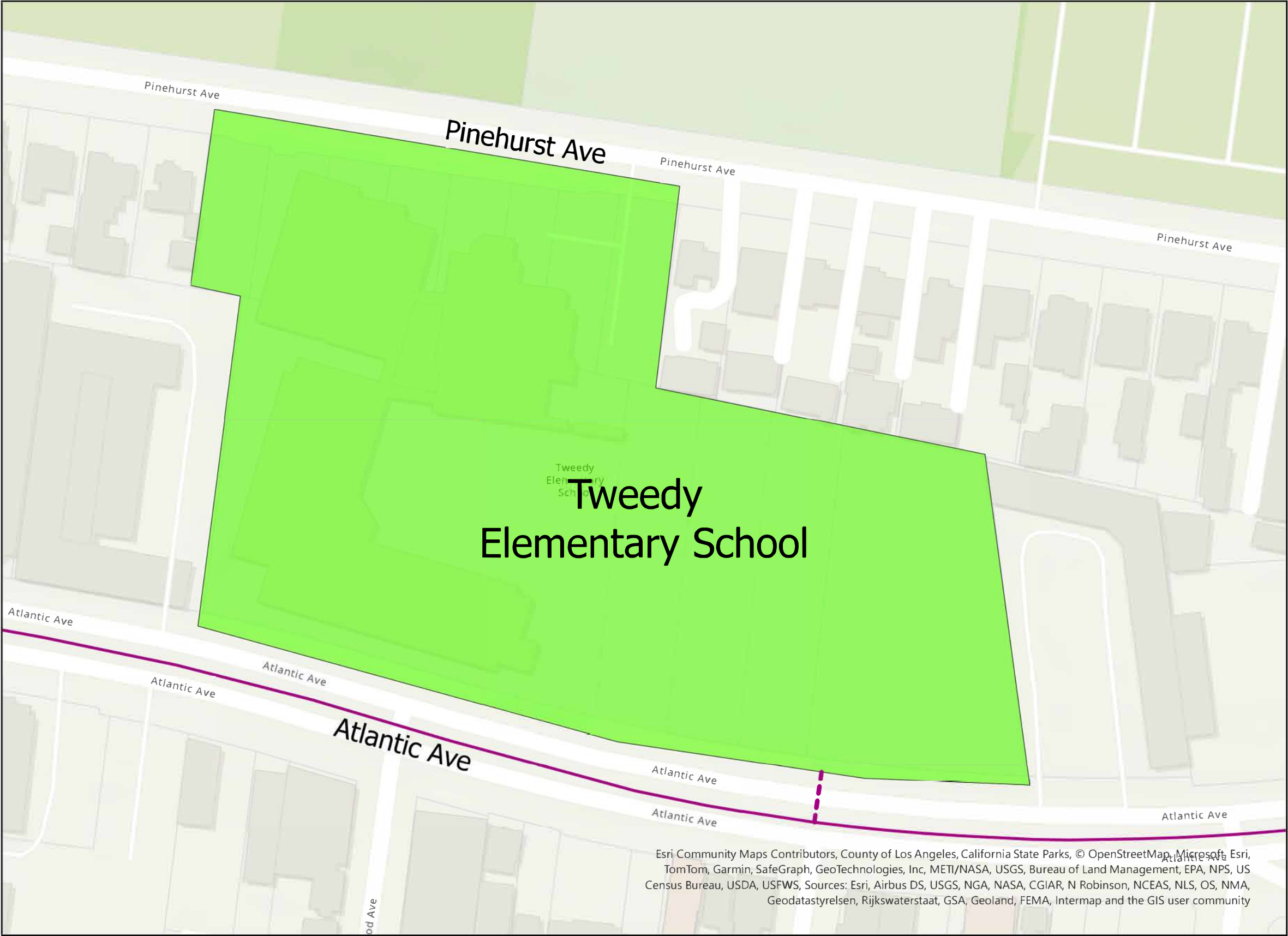
Pipeline Alignment



ATTACHMENT 5:
TWEEDY ELEMENTARY SCHOOL

Tweedy Elementary School

Pipeline Alignment



- Prop1 Proposed RW Alignment

Prop1 DAC Sites
- rwFacilities

Cudahy Pump Station

Hollydale Pump Station

Los Coyotes WRP

Cerritos Pump Station

Pressure Reducing Valve

Rio Hondo Pump Station

San Jose Creek WRP

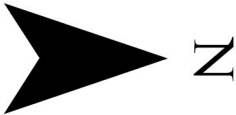
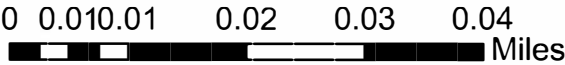
Downey Recycled Water Pipelines

SantaFe Springs Pipelines

rwMain

Century

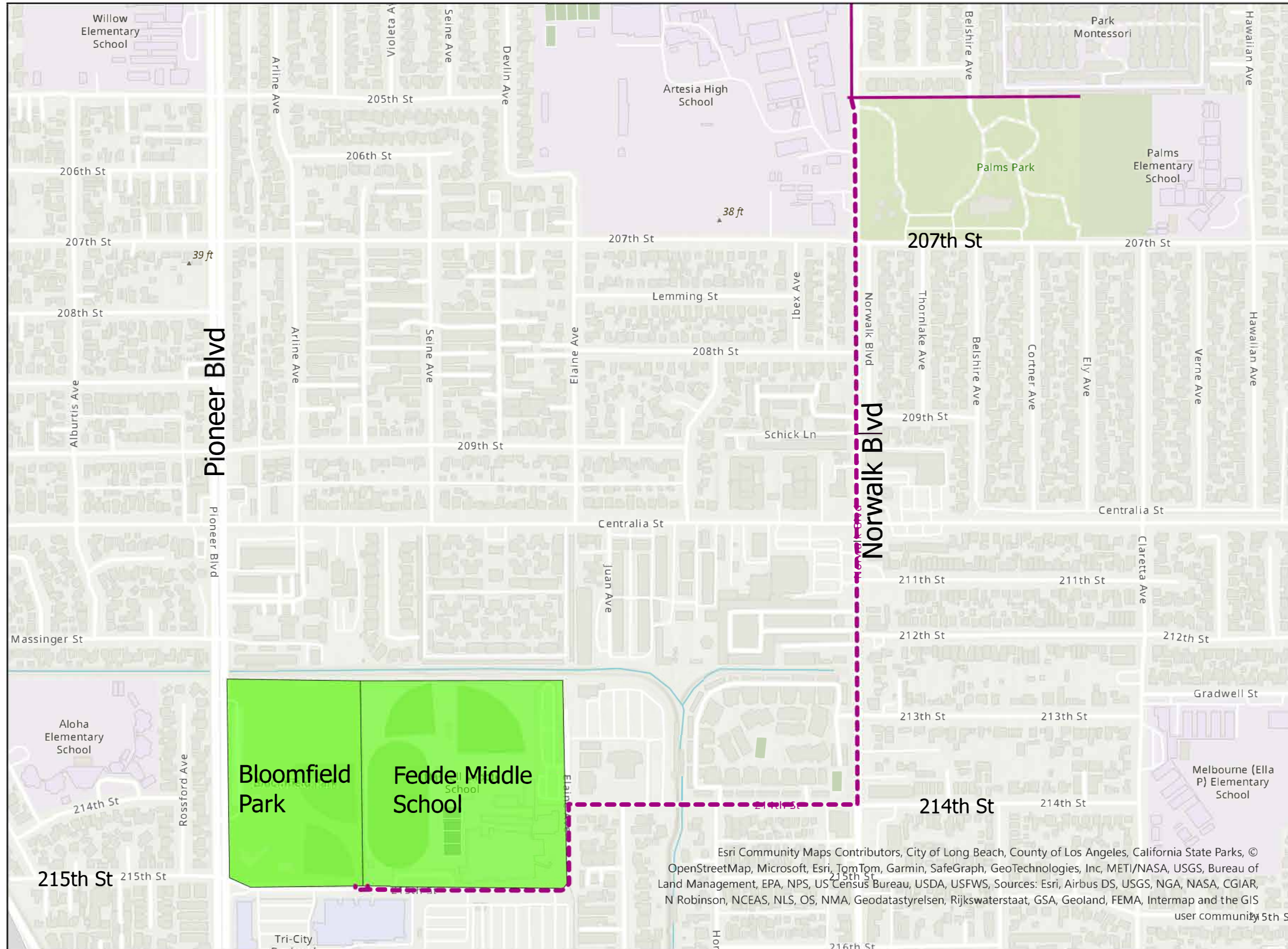
Rio Hondo

CentralBasin_ServiceArea
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- 8/29/2024

**ATTACHMENT 6:
BLOOMFIELD PARK**



Bloomfield Park and Fedde Middle School Pipeline Alignment



- Proposed RW Alignment
- Prop1 DAC Sites
- ## rwFacilities
- Cudahy Pump Station
 - Hollydale Pump Station
 - Los Coyotes WRP
 - Cerritos Pump Station
 - Pressure Reducing Valve
 - Rio Hondo Pump Station
 - San Jose Creek WRP
 - Downey_Recycled_Water_Pipelines
 - SantaFe_Springs_Pipelines
- ## rwMain
- Century
 - Rio Hondo
 - CentralBasin_ServiceArea



0 0.03 0.07 0.13 0.2 0.26 Miles

**ATTACHMENT 7:
FEDDE MIDDLE SCHOOL**



Bloomfield Park and Fedde Middle School Pipeline Alignment



- Prop1 Proposed RW Alignment
- Prop1 DAC Sites

rwFacilities

- Cudahy Pump Station
- Hollydale Pump Station
- Los Coyotes WRP
- Cerritos Pump Station
- Pressure Reducing Valve
- Rio Hondo Pump Station
- San Jose Creek WRP
- Downey_Recycled_Water_Pipelines
- SantaFe_Springs_Pipelines

rwMain

- Century
- Rio Hondo
- CentralBasin_ServiceArea

