

## Capital Improvement Program – Project Description

**Project No:** TBD

**System:** Wastewater

**Fund:** 7

**Project Name:** Southwing LS Auxiliary Generator Replacement.

**Project Location:** 22124 Canyon Vistas, Aliso Viejo

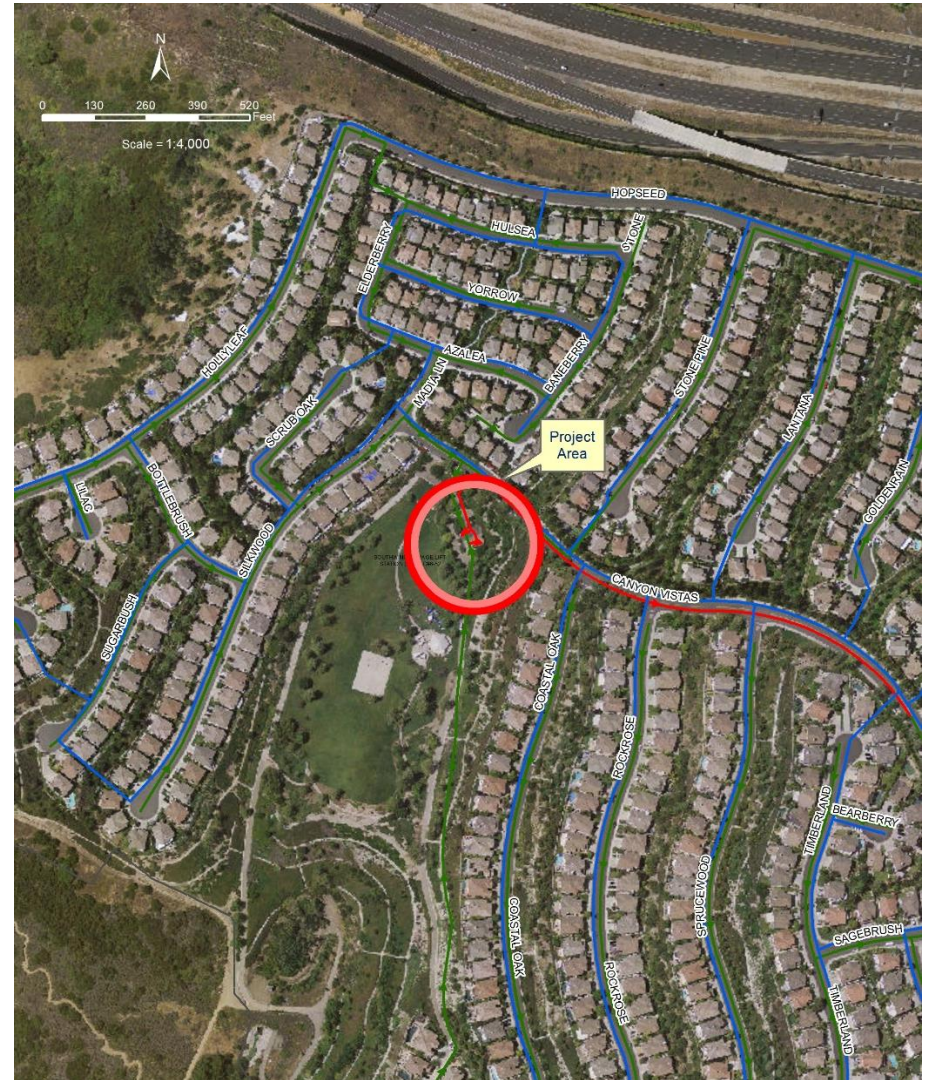
**Project Description:** Replace 1994 Cummins Propane 264 KW backup generator.

**Project Need:** Replacement is based on age of engine and difficulty finding off the shelf replacement parts.

**Project Status:** Proposed Project

### Estimated Project Amount:

Item	Estimated Cost
Design	\$30,000
CEQA Compliance	Exempt
Construction Contract	\$550,000
Inspection	\$0
<b>Total Project Budget</b>	<b>\$580,000</b>



Southwing LS-Auxiliary Generator Replacement

## Capital Improvement Program – Project Description

**Project No:** TBD

**System:** Wastewater

**Fund:** 7

**Project Name:** *Plant 3A Effluent Transmission Main (ETM) – Creek Bank Stabilization*

**Project Location:** San Juan Capistrano

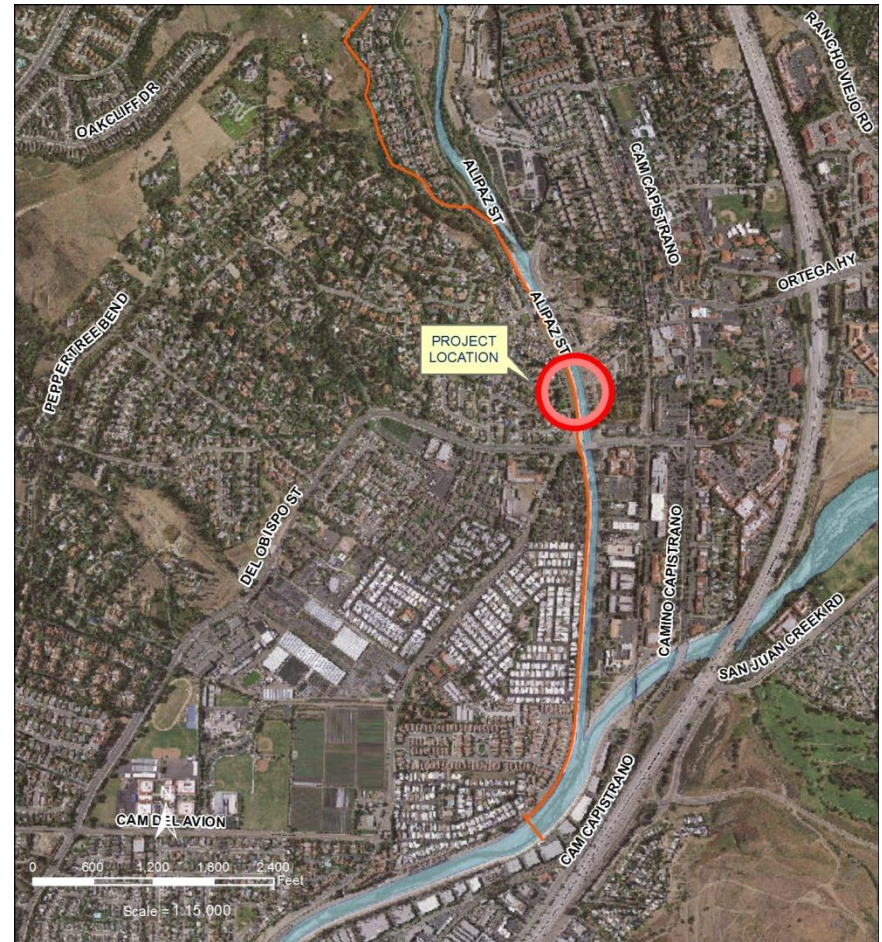
**Project Description:** Extend the existing riprap on the east side lower bank of Oso Creek beyond the downstream turn. The riprap will match existing top and toe elevation of existing riprap. The project will require acquisition of a nationwide permit from the Army Corp. of Engineers.

**Project Need:** The existing ETM is located in an embankment along an unprotected bank of Oso Creek and is at risk of failure due to erosion of the creek bank. This proposed project will extend riprap to provide protection for the existing pipe.

**Project Status:** Proposed Project

### Estimated Project Amount:

Item	Estimated Cost
Design	\$100,000
CEQA Compliance	\$50,000
Construction Contract	\$1,800,000
Inspection	\$50,000
<b>Total Project Budget</b>	<b>\$2,000,000</b>



## Capital Improvement Program – Project Description

**Project No:** TBD

**System:** Wastewater

**Fund:** 7

**Project Name:** *Plant 3A Effluent Transmission Main (ETM) - Avenida de la Vista Replacement*

**Project Location:** San Juan Capistrano

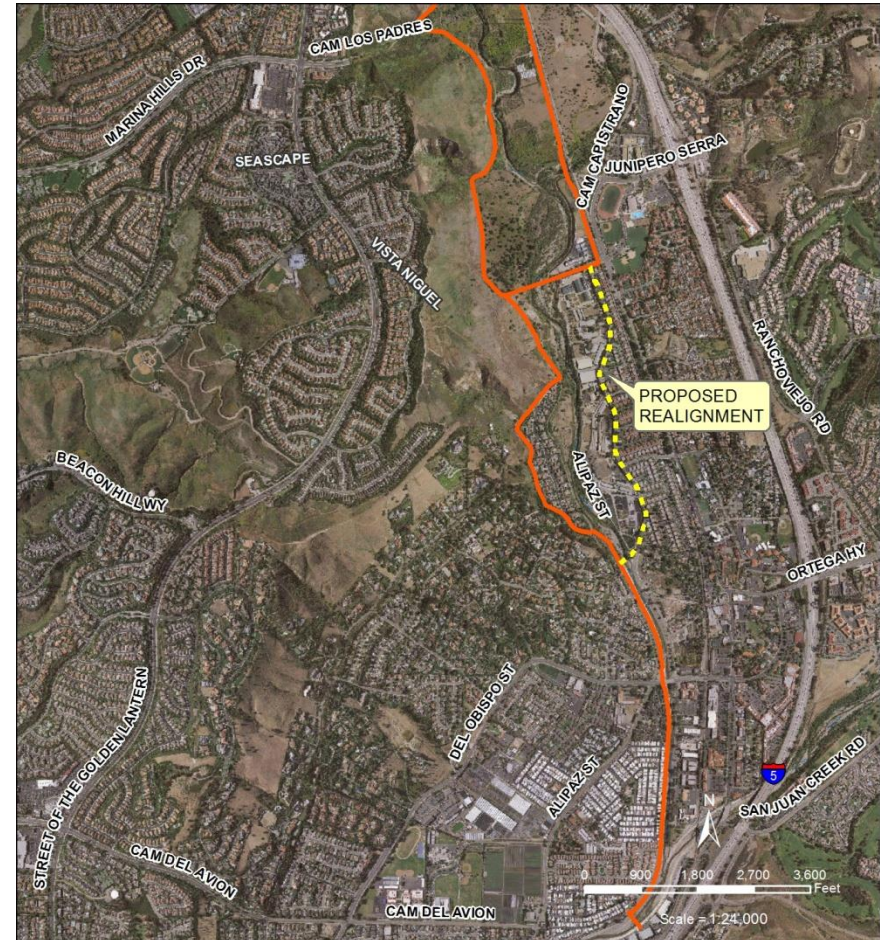
**Project Description:** Abandon the existing ETM from Station 221+00 to Station 298+00 and construct a 30-inch ductile iron pipe along Avenida De La Vista, approximately 4,700 feet from Oso Road to the cul-de-sac. The alignment will proceed 1,000 feet on Trabuco Creek Trail until it is jacked and bored under Trabuco Creek. The jack and bore will be approximately 160 feet. On the west side of the creek, the pipeline will connect to the existing 20-inch ductile iron pipe located behind the concrete creek embankment. The project will require acquisition of several easements from private properties and a nationwide permit from the Army Corp. of Engineers.

**Project Need:** The existing ETM is located in an embankment along an unprotected bank of Trabuco Creek and is at risk of failure due to erosion of the creek bank. This proposed project will abandon the existing ETM pipeline and construct a replacement pipeline in Avenida de la Vista.

**Project Status:** Proposed Project

### Estimated Project Amount:

Item	Estimated Cost
Design	\$150,000
CEQA Compliance	\$75,000
Construction Contract	\$1,800,000
Inspection	\$75,000
<b>Total Project Budget</b>	<b>\$2,100,000</b>



## Capital Improvement Program – Project Description

**Project No:** TBD

**System:** Wastewater

**Fund:** 7

**Project Name:** *Plant 3A Effluent Transmission Main (ETM) Pipeline Replacement in Camino Capistrano*

**Project Location:** Camino Capistrano from Plant 3A to the San Joaquin Hills Toll Road Crossing in Mission Viejo, Laguna Niguel and San Juan Capistrano.

**Project Description:** Replace the existing 20-inch asbestos cement pipe from Station 3+00 to Station 109+00 with a 30-inch ductile iron pipe (approximately 10,600 feet). The replacement pipeline will be located on Camino Capistrano in the same approximately location as the existing ETM. The new pipeline will extend from the Plant 3A to the San Joaquin Hills Toll Road Crossing.

**Project Need:** The existing pipeline is approaching the end of its useful life. Replacement of the existing 20-inch pipeline will increase hydraulic capacity and improve operation of the pipeline.

**Project Status:** Proposed Project

### Estimated Project Amount:

Item	Estimated Cost
Design	\$150,000
CEQA Compliance	\$100,000
Construction Contract	\$3,000,000
Inspection	\$50,000
<b>Total Project Budget</b>	<b>\$3,300,000</b>





## Capital Improvement Program – Project Description

**Project No:** TBD

**System:** Wastewater

**Fund:** 14

**Project Name:** Lift Stations Generator Emergency Connections

**Project Location:** 9 Lift Stations: Regional, Lower Salada, Upper Salada, Aliso Creek, Southwing, San Joaquin, Boundary Oak, Del Avion, North Aliso.

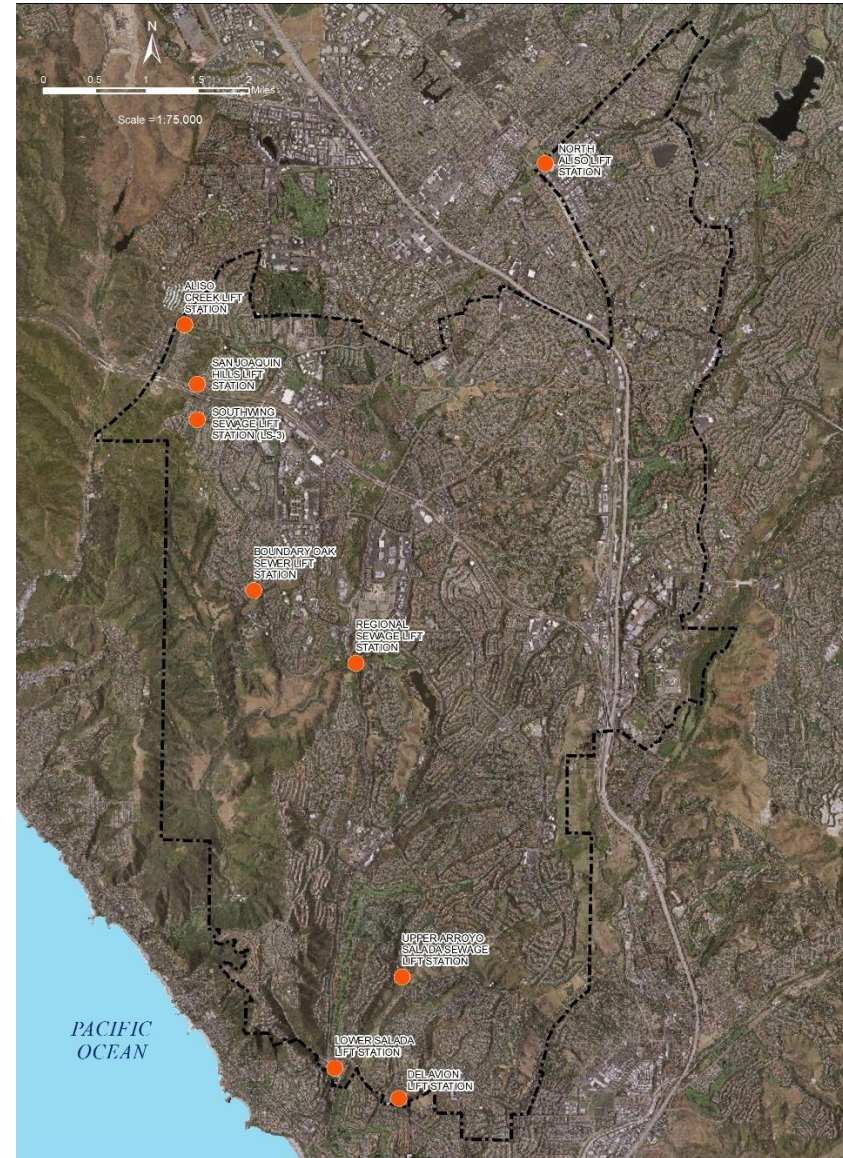
**Project Description:** Install new emergency generator connections at nine facilities.

**Project Need:** This project is needed to allow for a connection of a portable generator at these nine lift stations.

**Project Status:** Proposed Project

### Estimated Project Amount:

Item	Estimated Cost
Design	\$50,000
CEQA Compliance	Exempt
Construction Contract	\$250,000
Inspection	\$0
<b>Total Project Budget</b>	<b>\$300,000</b>



Lift Station Location Map

## Capital Improvement Program – Project Description

**Project No:** 2011.043

**System:** Wastewater

**Fund:** 14

**Project Name:** *Plant 3A Outfall Line Valves*

**Project Location:** Along Camino Capistrano and outlining areas by Oso Creek, City of San Juan Capistrano.

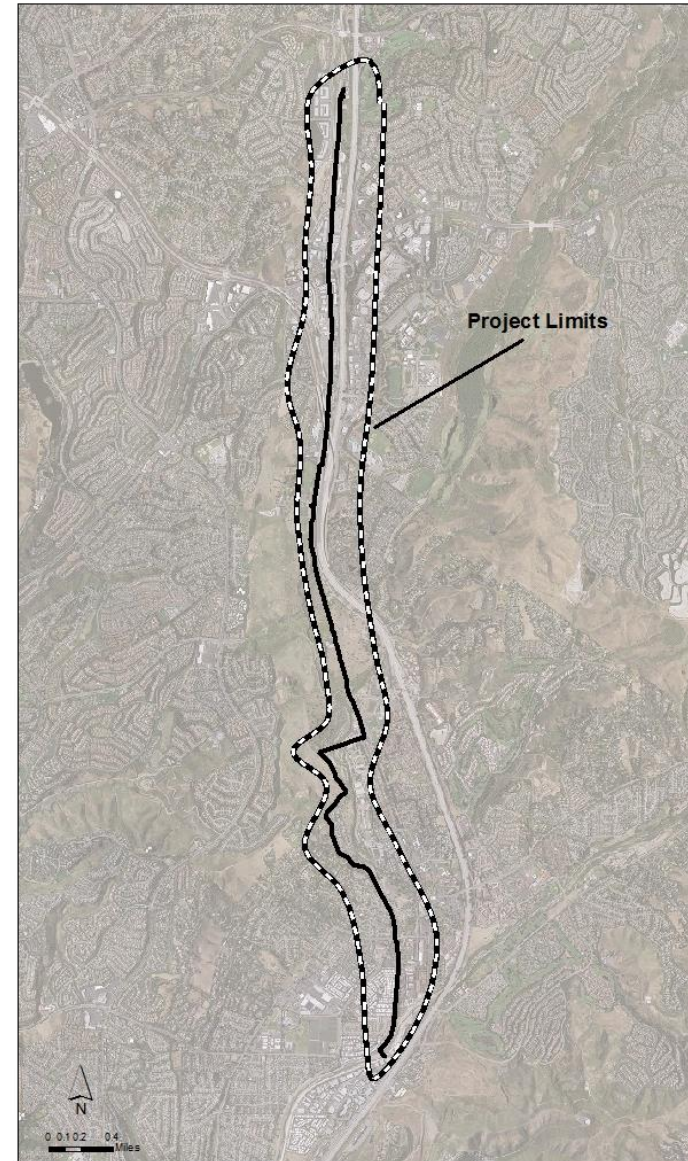
**Project Description:** Install isolation valves on the 3A outfall line.

**Project Need:** The 3A outfall line was constructed as a feed line from San Juan Capistrano to Mission Viejo Lake. The District purchased the facility and changed its use from the intended design. There is an insufficient number of isolation valves along a five mile reach. If there is a failure along this reach, the line would discharge secondary effluent into the creeks; therefore, additional isolation valves must be installed to minimize spill amounts.

**Project Status:** In planning.

### Estimated Project Amount:

Item	Estimated Cost
Design	\$10,000
CEQA Compliance	Exempt
Construction Contract	\$380,000
Inspection	\$20,000
<b>Total Project Budget</b>	<b>\$410,000</b>



## Capital Improvement Program – Project Description

**Project No:** TBD

**System:** Wastewater

**Fund:** 14

**Project Name:** *Oso Creek Sewer Parallel Pipeline*

**Project Location:** *Mission Viejo Golf Course, Mission Viejo from Oso Parkway to I-5*

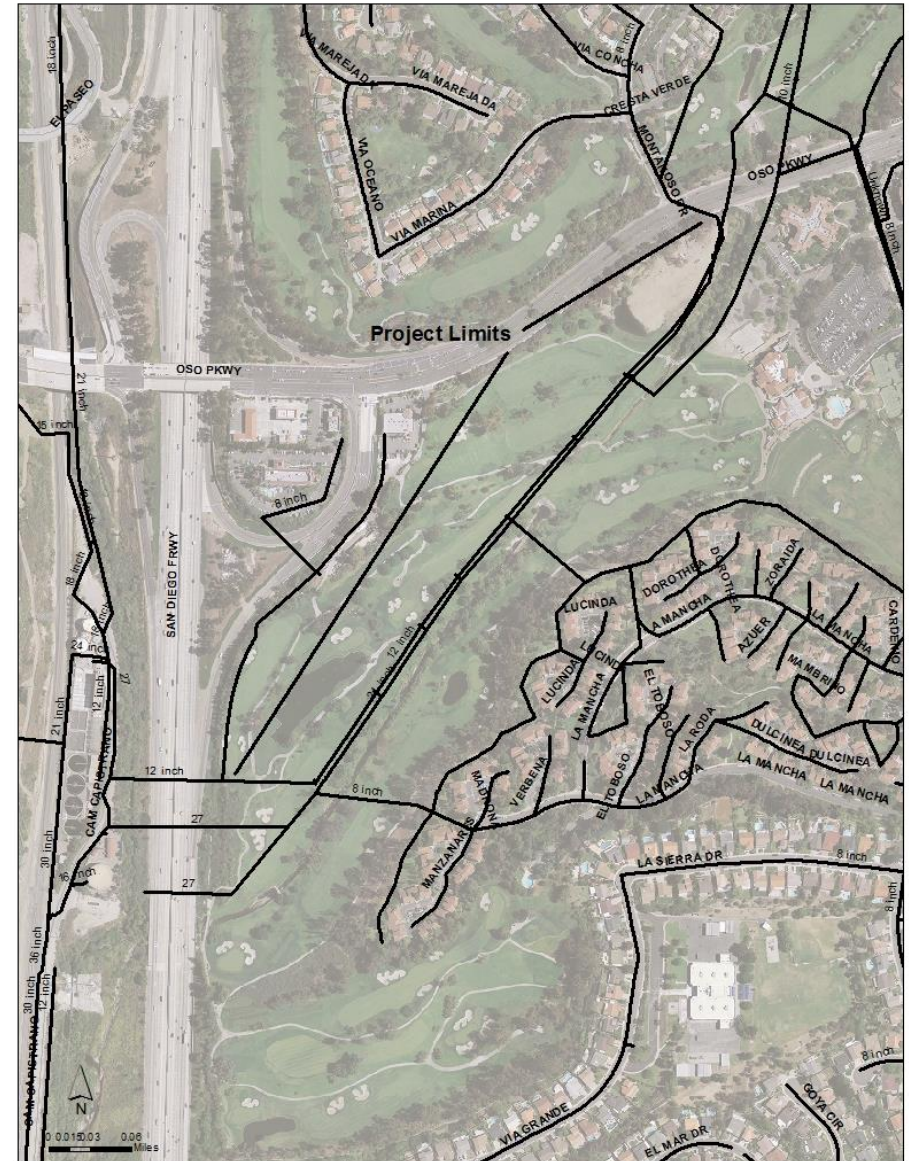
**Project Description:** Construct approximately 2,500 feet of new sewer line.

**Project Need:** The existing sewer line that parallels Oso Creek is 8 to 12-inch vitrified clay pipe constructed in 1965. Reaches of the alignment are currently undersized for the upstream flows and need to be upsized. In addition, sections of the line could be subject to future creek erosion which could cause the line to fail. This project will evaluate the appropriate size of the sewer line and construct the improvements.

**Project Status:** Proposed Project

### Estimated Project Amount:

Item	Estimated Cost
Design	\$150,000
CEQA Compliance	Exempt
Construction Contract	\$1,000,000
Inspection	\$50,000
<b>Total Project Budget</b>	<b>\$1,200,000</b>





## Capital Improvement Program – Project Description

**Project No:** 2011.045

**System:** Wastewater

**Fund:** 14

**Project Name:** North Aliso Lift Station By-pass and Site Improvements

**Project Location:** North Aliso Lift Station, Mission Viejo.

**Project Description:** Widen driveway access; construct retaining wall, curb and gutter, and paving.

**Project Need:** The existing station was constructed in the late 1960's. Access to the site was wide open. Overtime, improvements next to the site have made access a problem for District's vactor and pumper trucks to get to the site. The drive approach needs to be widened to handle the larger vehicles.

**Project Status:** In planning.

### Estimated Project Amount:

Item	Estimated Cost
Design	\$25,000
CEQA Compliance	\$10,000
Construction Contract	\$155,000
Inspection	\$9,990
<b>Total Project Budget</b>	<b>\$199,990</b>



## Capital Improvement Program – Project Description

**Project No:** TBD

**System:** Wastewater

**Fund:** 7

**Project Name:** *Aliso Creek Lift Station Rehabilitation*

**Project Location:** Aliso Viejo

**Project Description:** Remove and replace the check valves and shutoff valves, and relocate the valves and piping to a lower and ergonomically safer location.

**Project Need:** The discharge valves area leaking, check valves are worn and the location of these units are not ergonomically safe to work on.

**Project Status:** Proposed Project

### Estimated Project Amount:

Item	Estimated Cost
Design	\$30,000
CEQA Compliance	Exempt
Construction Contract	\$170,000
Inspection	\$0
<b>Total Project Budget</b>	<b>\$200,000</b>



Regional

## Capital Improvement Program – Project Description

**Project No:** 2006.071

**System:** Regional (Potable)

**Fund:** 12

**Project Name:** Baker Pipeline Regional Water Treatment Plant

**Project Location:** Palmwood Drive/Wisteria, Lake Forest

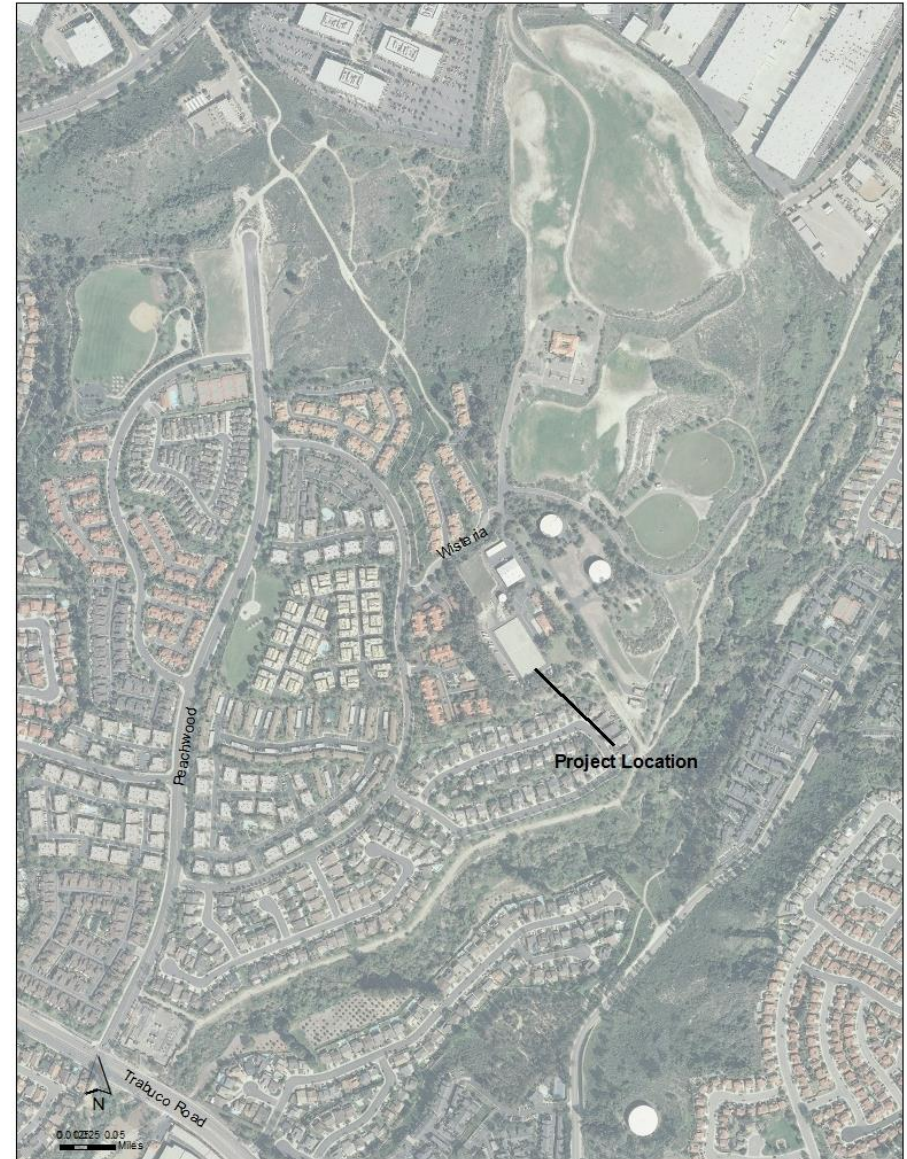
**Project Description:** Construction of the Baker Water Treatment Plant (BWTP) by Irvine Ranch Water District (IRWD). MNWD has executed an agreement with IRWD to receive 13 cubic feet per second of potable water from BWTP. In addition, a pipeline from BWTP to the South County Pipeline (SCP) will be constructed to deliver the water to the District via the SCP and the Central Intertie Pipeline (CIP).

**Project Need:** This project will provide an alternate potable water supply to the District, especially during times when the Diemer Treatment Plant is down.

**Project Status:** In construction.

### Estimated Project Amount:

Item	Estimated Cost
Design via IRWD	\$6,000,000
CEQA Compliance	EIR by IRWD
Construction Contract via IRWD	\$26,598,645
Inspection	IRWD
<b>Total Project Budget</b>	<b>\$32,598,645</b>



## Capital Improvement Program – Project Description

**Project No:** 2006.099

**System:** Regional (Potable)

**Fund:** 12

**Project Name:** ETWD/MNWD Intertie with 30-inch Diemer Pipeline

**Project Location:** Los Alisos Blvd at Via Pimiento, Mission Viejo

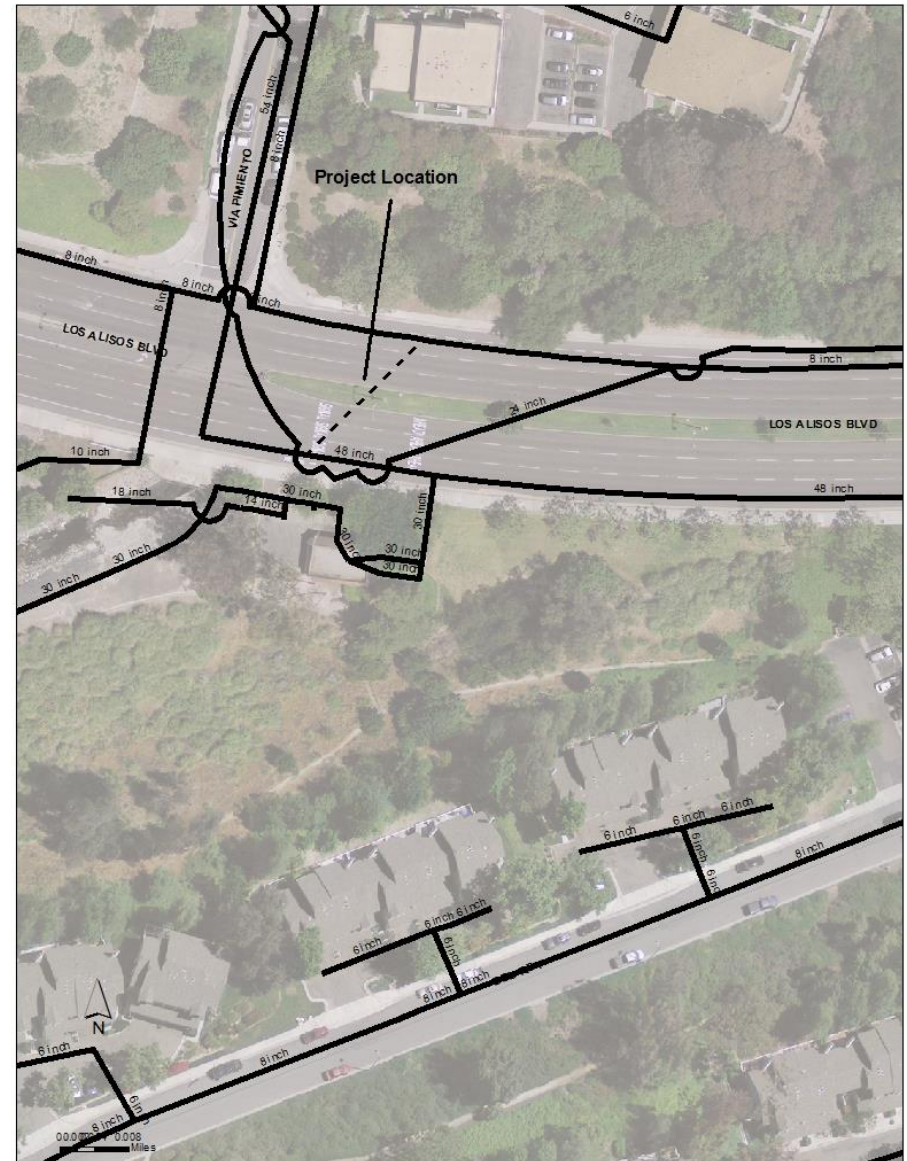
**Project Description:** Construct an intertie between the MNWD 650-zone and the El Toro 24-inch R-6 Reservoir feed.

**Project Need:** This project will allow for the District to back-feed the El Toro Water District from several sources including the Central Intertie Pipeline and the Joint Transmission Main. The project is being funded by Santa Margarita Water District and through Proposition 50 grant funds.

**Project Status:** In design.

### Estimated Project Amount:

Item	Estimated Cost
Design	
CEQA Compliance	
Construction Contract	
Inspection	
<b>Total Project Budget</b>	<b>\$456,000</b>



## Capital Improvement Program – Project Description

**Project No:** 2008.049

**System:** Regional (Potable)

**Fund:** 12

**Project Name:** South Orange County Coastal Ocean Desalination

**Project Location:** Dana Point

**Project Description:** This project is led by the Municipal Water District of Orange County (MWDOC) with five partnering agencies. Currently, the project is investigating the feasibility of ocean desalination. The current project amount is MNWD's share for initial planning studies. The plant, when constructed, will have a capacity of 15 mgd, with MNWD's share being 3 mgd.

**Project Need:** This project will provide an additional 3 mgd of potable water supply to MNWD and is needed for water supply diversification and drought proofing, as the desalinated water supply would not be subject to droughts.

**Project Status:** In design.

### Estimated Project Amount:

Item	Estimated Cost
Preliminary Design Analysis	\$700,000
CEQA Compliance	EIR
Construction Contract	To be determined
Inspection	To be determined
<b>Total Project Budget</b>	<b>\$700,000</b>



## Capital Improvement Program – Project Description

**Project No:** JRWSS14

**System:** Regional (Potable)

**Fund:** 7

**Project Name:** SCWD/JRWSS Capital Projects

**Project Location:** Joint Transmission Main

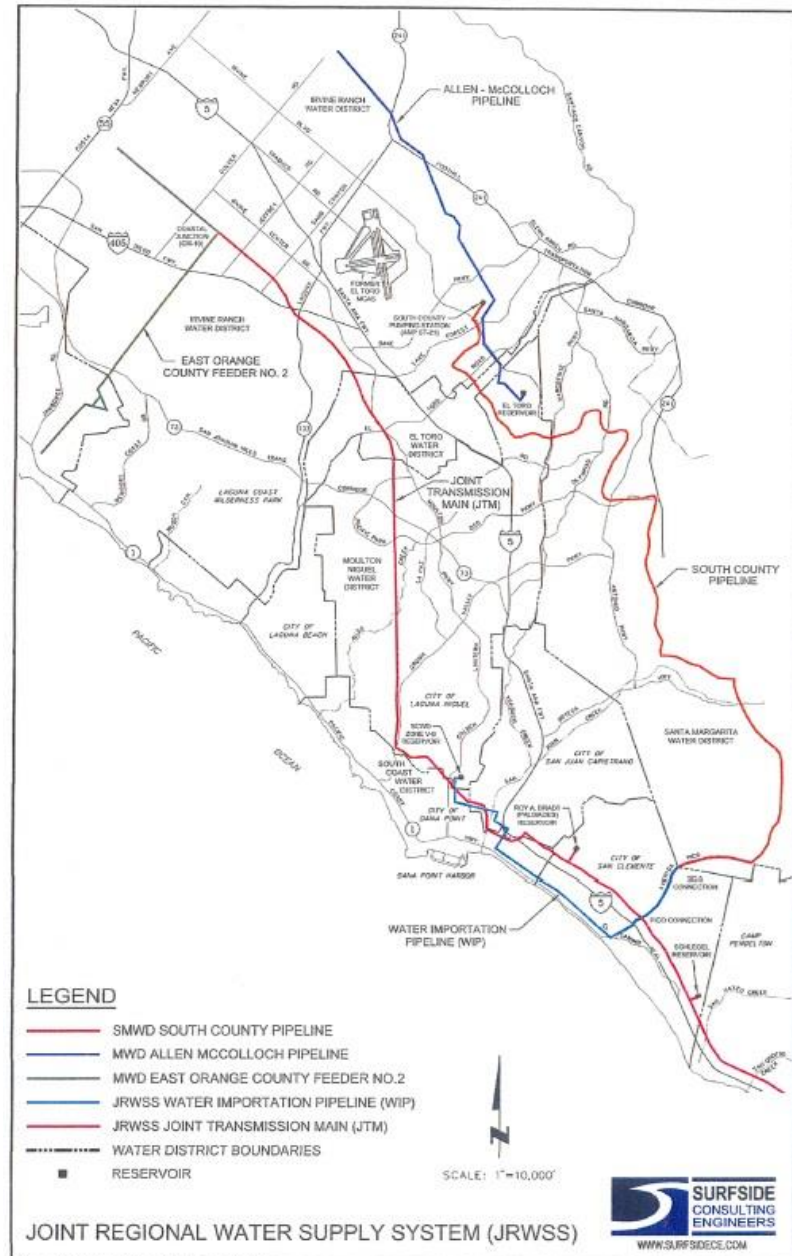
**Project Description:** Perform capital improvements to the Joint Transmission Main (JTM).

**Project Need:** The JTM is operated and maintained by the South Coast Water District (SCWD) per an inter-agency project agreement entered in 2000. The District owns about 43% of the JTM capacity, up to 43 cubic feet per second (cfs). SCWD develops a capital improvement program (CIP) for the JTM. This project provides the funding for these CIP expenditures. SCWD updates its 6-year CIP annual and provides that information to the District.

**Project Status:** Annual as provided by SCWD. Funds are paid to SCWD upon receipt of and review of JTM associated invoices.

### Estimated Project Amount:

Item	Estimated Cost
Design	\$TBD
CEQA Compliance	TBD
Construction Contract	\$TBD
Inspection	\$TBD
<b>Total Project Budget</b>	<b>\$13,912,287</b>



## ***Capital Improvement Program – Project Description***

**Project No:** SOCWA112

**System:** Regional (Wastewater)

**Fund:** 7

**Project Name:** 2014/2015 SOCWA Capital Project Committee 2

**Project Location:** J.B. Latham Wastewater Treatment Plant, Dana Point

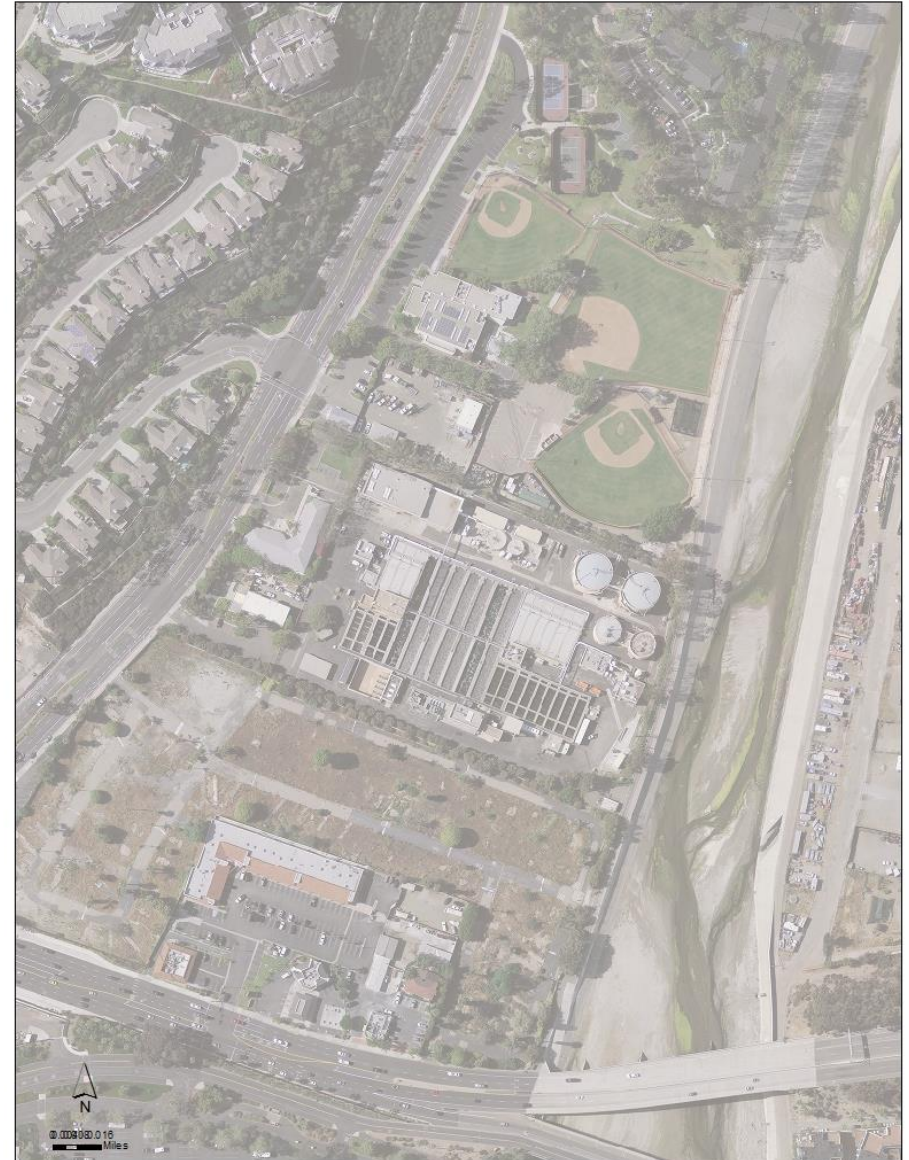
**Project Description:** Implement capital improvements as recommended by South Orange County Wastewater Authority (SOCWA).

**Project Need:** SOCWA provides wastewater treatment to the District's service area. SOCWA develops a capital improvement program (CIP) for all of the facilities through various project committees (PC).

**Project Status:** Annual as provided by SOCWA. Funds are paid to SOCWA upon receipt of and review of CIP associated invoices. The total project budget is a 10-year budget projection.

### **Estimated Project Amount:**

<b>Item</b>	<b>Estimated Cost</b>
Design	\$TBD
CEQA Compliance	Exempt
Construction Contract	\$TBD
Inspection	\$TBD
<b>Total Project Budget</b>	<b>\$12,455,658</b>





## ***Capital Improvement Program – Project Description***

**Project No:** SOCWA114

**System:** Regional (Wastewater)

**Fund:** 7

**Project Name:** 2014/2015 SOCWA Capital Project Committee 3A

**Project Location:** Plant 3A Treatment Plant, Mission Viejo

**Project Description:** Implement capital improvements as recommended by South Orange County Wastewater Authority (SOCWA).

**Project Need:** SOCWA provides wastewater treatment to the District's service area. SOCWA develops a capital improvement program (CIP) for all of the facilities through various project committees (PC).

**Project Status:** Annual as provided by SOCWA. Funds are paid to SOCWA upon receipt of and review of CIP associated invoices. The total project budget is a 10-year budget projection.

### **Estimated Project Amount:**

<b>Item</b>	<b>Estimated Cost</b>
Design	\$TBD
CEQA Compliance	Exempt
Construction Contract	\$TBD
Inspection	\$TBD
<b>Total Project Budget</b>	<b>\$13,268,471</b>



## ***Capital Improvement Program – Project Description***

---

**Project No:** SOCWA113

**System:** Regional (Wastewater)

**Fund:** 7

**Project Name:** 2014/2015 SOCWA Capital Project Committee 5

**Project Location:** San Juan Creek Ocean Outfall, Dana Point

**Project Description:** Implement capital improvements as recommended by South Orange County Wastewater Authority (SOCWA).

**Project Need:** South Orange County Wastewater Authority (SOCWA) provides wastewater treatment to the District's service area. SOCWA develops a capital improvement program (CIP) for all of the facilities through various project committees (PC).

**Project Status:** Annual as provided by SOCWA. Funds are paid to SOCWA upon receipt of and review of CIP associated invoices. The total project budget is a 10-year budget projection.

**Estimated Project Amount:**

<b>Item</b>	<b>Estimated Cost</b>
Design	\$TBD
CEQA Compliance	Exempt
Construction Contract	\$TBD
Inspection	\$TBD
<b>Total Project Budget</b>	<b>\$165,125</b>

## ***Capital Improvement Program – Project Description***

**Project No:** SOCWA115

**System:** Regional (Wastewater)

**Fund:** 7

**Project Name:** 2014/2015 SOCWA Capital Project Committee 15

**Project Location:** Coastal Treatment Plant, Aliso Viejo

**Project Description:** Implement capital improvements as recommended by South Orange County Wastewater Authority (SOCWA).

**Project Need:** SOCWA provides wastewater treatment to the District's service area. SOCWA develops a capital improvement program (CIP) for all of the facilities through various project committees (PC).

**Project Status:** Annual as provided by SOCWA. Funds are paid to SOCWA upon receipt of and review of CIP associated invoices. The total project budget is a 10-year budget projection.

**Estimated Project Amount:**

<b>Item</b>	<b>Estimated Cost</b>
Design	\$TBD
CEQA Compliance	Exempt
Construction Contract	\$TBD
Inspection	\$TBD
<b>Total Project Budget</b>	<b>\$6,438,826</b>



## Capital Improvement Program – Project Description

**Project No:** SOCWA116

**System:** Regional (Wastewater)

**Fund:** 7

**Project Name:** 2014/2015 SOCWA Capital Project Committee 17

**Project Location:** Regional Treatment Plant, Laguna Niguel

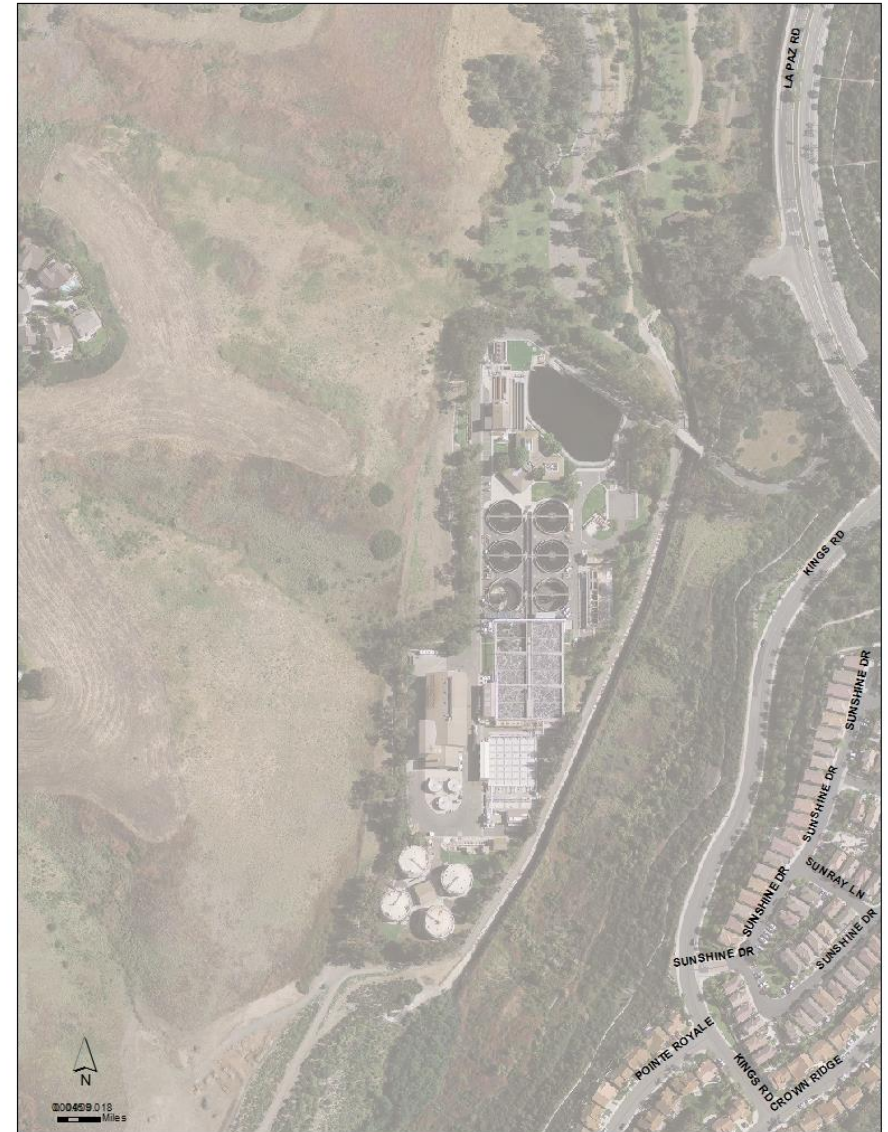
**Project Description:** Implement capital improvements as recommended by South Orange County Wastewater Authority (SOCWA).

**Project Need:** South Orange County Wastewater Authority (SOCWA) provides wastewater treatment to the District's service area. SOCWA develops a capital improvement program (CIP) for all of the facilities through various project committees (PC).

**Project Status:** Annual as provided by SOCWA. Funds are paid to SOCWA upon receipt of and review of CIP associated invoices. The total project budget is a 10-year budget projection.

### Estimated Project Amount:

Item	Estimated Cost
Design	\$TBD
CEQA Compliance	Exempt
Construction Contract	\$TBD
Inspection	\$TBD
<b>Total Project Budget</b>	<b>\$29,152,127</b>



## ***Capital Improvement Program – Project Description***

---

**Project No:** SOCWA117

**System:** Regional (Wastewater)

**Fund:** 7

**Project Name:** 2014/2015 SOCWA Capital Project Committee 21

**Project Location:** Effluent Transmission Main in Aliso Creek

**Project Description:** Implement capital improvements as recommended by South Orange County Wastewater Authority (SOCWA).

**Project Need:** South Orange County Wastewater Authority (SOCWA) provides wastewater treatment to the District's service area. SOCWA develops a capital improvement program (CIP) for all of the facilities through various project committees (PC).

**Project Status:** Annual as provided by SOCWA. Funds are paid to SOCWA upon receipt of and review of CIP associated invoices. The total project budget is a 10-year budget projection.

**Estimated Project Amount:**

<b>Item</b>	<b>Estimated Cost</b>
Design	\$TBD
CEQA Compliance	Exempt
Construction Contract	\$TBD
Inspection	\$TBD
<b>Total Project Budget</b>	<b>\$750,000</b>

## ***Capital Improvement Program – Project Description***

---

**Project No:** SOCWA118

**System:** Regional (Wastewater)

**Fund:** 7

**Project Name:** 2014/2015 SOCWA Capital Project Committee 24

**Project Location:** Aliso Creek Ocean Outfall

**Project Description:** Implement capital improvements as recommended by South Orange County Wastewater Authority (SOCWA).

**Project Need:** South Orange County Wastewater Authority (SOCWA) provides wastewater treatment to the District's service area. SOCWA develops a capital improvement program (CIP) for all of the facilities through various project committees (PC).

**Project Status:** Annual as provided by SOCWA. Funds are paid to SOCWA upon receipt of and review of CIP associated invoices. The total project budget is a 10-year budget projection.

**Estimated Project Amount:**

<b>Item</b>	<b>Estimated Cost</b>
Design	\$TBD
CEQA Compliance	Exempt
Construction Contract	\$TBD
Inspection	\$TBD
<b>Total Project Budget</b>	<b>\$2,458,026</b>

Unanticipated

## ***Capital Improvement Program – Project Description***

**Project No:** UP1314RR

**System:** Potable, Recycled, Wastewater, District Overall

**Fund:** 7

**Project Name:** *Fund 7 Unanticipated Projects*

**Project Location:** District-wide

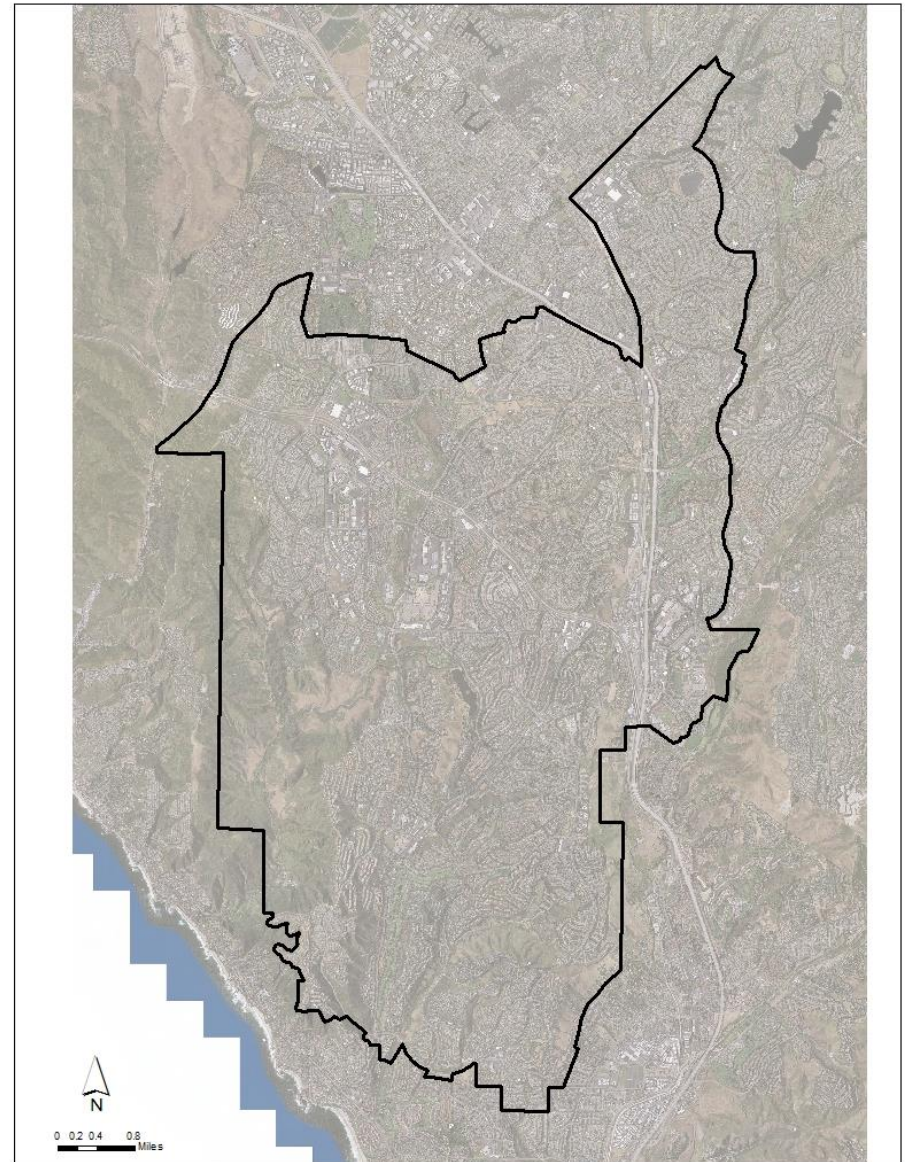
**Project Description:** Construct various replacement and refurbishment projects.

**Project Need:** The District owns, maintains, and operates 138 major facilities and over 1,300 pipelines and sewers. Through the year, facilities and pipes fail requiring replacement or refurbishment. This project provides for replacement and refurbishment of facilities/pipes that have not previously been identified in the Capital Improvement Program.

**Project Status:** Annual, as projects are defined and created funds are deducted from this program through the year.

**Estimated Project Amount:**

<b>Item</b>	<b>Estimated Cost</b>
Design	\$TBD
CEQA Compliance	Exempt
Construction Contract	\$TBD
Inspection	\$TBD
<b>Total Project Budget</b>	<b>\$250,000</b>





## ***Capital Improvement Program – Project Description***

**Project No:** TBD

**System:** Potable, Recycled, Wastewater, District Overall

**Fund:** 14

**Project Name:** *Fund 14 Unanticipated Projects*

**Project Location:** District-wide

**Project Description:** Construct various new District-owned facilities.

**Project Need:** New facilities to improve or provide service may be identified throughout the year. This program is a contingency budget to fund these facilities that not in the current Capital Improvement Program.

**Project Status:** Annual, as projects are defined and created funds are deducted from this program through the year.

**Estimated Project Amount:**

<b>Item</b>	<b>Estimated Cost</b>
Design	\$TBD
CEQA Compliance	TBD
Construction Contract	\$TBD
Inspection	\$TBD
<b>Total Project Budget</b>	<b>\$100,000</b>

