

TWO-YEAR CAPITAL BUDGET

FISCAL YEAR 2019-20
and
FISCAL YEAR 2020-21



**Adopted
April 22, 2019**

Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618

TWO-YEAR CAPITAL BUDGET

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System	Project Number	Project Title	Start	End	FY19-20 Direct	FY20-21 Direct	Total Direct	Improvement Districts																		
								1100	1110	1120	1130	1250	1530	1540	1850	1880	2100	2120	2130	2220	2250	2400	2530	2560	2850	2880
Potable Capital	11205	GP_Dep 515_FY 20_21	7/1/2020	6/30/2021	\$0	\$104,000	\$104,000	61.2	0.3			0.4	0.1				36.5	0.1	0.1	0.4	0.7	0.1	0.1			
Potable Capital	11200	GP_Dep 600_FY 19_20	7/1/2019	6/30/2020	\$303,000	\$0	\$303,000	28.6	4.0	0.4	0.4	5.9	1.4		0.2	0.1	43.4	1.1	0.6	3.7	7.8	0.6	1.6		0.2	
Potable Capital	11206	GP_Dep 600_FY 20_21	7/1/2020	6/30/2021	\$0	\$264,200	\$264,200	61.2	0.3			0.4	0.1				36.5	0.1	0.1	0.4	0.7	0.1	0.1			
Potable Capital	11202	GP_Dep 710_FY 19_20	7/1/2019	6/30/2020	\$4,000	\$0	\$4,000	28.6	4.0	0.4	0.4	5.9	1.4		0.2	0.1	43.4	1.1	0.6	3.7	7.8	0.6	1.6		0.2	
Potable Capital	11203	GP_Dep 870_FY 19_20	7/1/2019	6/30/2020	\$1,162,500	\$0	\$1,162,500	28.6	4.0	0.4	0.4	5.9	1.4		0.2	0.1	43.4	1.1	0.6	3.7	7.8	0.6	1.6		0.2	
Potable Capital	11208	GP_Dep 870_FY 20_21	7/1/2020	6/30/2021	\$0	\$1,339,500	\$1,339,500	61.2	0.3			0.4	0.1				36.5	0.1	0.1	0.4	0.7	0.1	0.1			
Recycled Capital	06198	IIC EAST ZONE B BPS UPGRADES	1/1/2016	12/31/2019	\$1,295,479	\$0	\$2,128,600										90.0	5.0			2.5		2.5			
Recycled Capital	05407	ILP NORTH CONVERSION-RESERVOIR	3/1/2014	11/30/2019	\$423,341	\$0	\$14,382,500										0.3	40.1	0.1		16.8	0.3	42.3		0.1	
Potable Capital	10525	INDUSTRIAL COATINGS REPLACEMENT 19/20-DW	7/1/2019	6/30/2020	\$220,000	\$0	\$220,000	100.0																		
Recycled Capital	10526	INDUSTRIAL COATINGS REPLACEMENT 19/20-RW	7/1/2019	6/30/2020	\$220,000	\$0	\$220,000											100.0								
Sewer Capital	10527	INDUSTRIAL COATINGS REPLACEMENT 19/20-SS	7/1/2019	6/30/2020	\$110,000	\$0	\$110,000											100.0								
Potable Capital	10528	INDUSTRIAL COATINGS REPLACEMENT 20/21-DW	7/1/2020	6/30/2021	\$0	\$220,000	\$220,000	100.0																		
Recycled Capital	10529	INDUSTRIAL COATINGS REPLACEMENT 20/21-RW	7/1/2020	6/30/2021	\$0	\$220,000	\$220,000											100.0								
Sewer Capital	10531	INDUSTRIAL COATINGS REPLACEMENT 20/21-SS	7/1/2020	6/30/2021	\$0	\$110,000	\$110,000											100.0								
Potable Capital	07887	IRVINE LAKE SERVICE IMPROVEMENT	6/1/2020	6/30/2022	\$80	\$54,960	\$229,000		32.6	3.3	3.0	47.5	11.1	0.4	1.6	0.5										
Potable Capital	10854	KERN FAN GROUNDWATER STORAGE	2/16/2017	2/28/2025	\$10,856,284	\$13,522,300	\$93,838,000		32.6	3.3	3.0	47.5	11.1	0.4	1.6	0.5										
Potable Capital	10096	LAKE FOREST NAKASE DW IMPROVEMENTS	1/1/2020	7/31/2022	\$53,129	\$105,475	\$437,000					100.0														
Potable Capital	01100	LAKE FOREST WELL 1 DRILLING	3/1/2021	12/31/2023	\$0	\$44,637	\$1,417,600		32.6	3.3	3.0	47.5	11.1	0.4	1.6	0.5										
Potable Capital	11218	LAKE FOREST WELL NO. 2 TREATMENT & BYPASS SE	9/1/2019	12/31/2021	\$138,083	\$420,117	\$587,000		32.6	3.3	3.0	47.5	11.1	0.4	1.6	0.5										
Potable Capital	07907	LAKE FOREST ZONE 5 WEST BPS UPGRADES	6/1/2020	12/31/2022	\$15,578	\$186,935	\$1,302,200		32.6	3.3	3.0	47.5	11.1	0.4	1.6	0.5										
Recycled Capital	11169	LAKE FOREST ZONE B TO C BOOSTER PUMP STATIO	4/1/2020	12/31/2022	\$85,636	\$342,545	\$1,905,000												10.7	4.1	14.6	51.1	7.7	10.3		1.5
Recycled Capital	11236	LAKE FOREST ZONE C RECYCLED WATER PIPELINE	9/1/2019	2/28/2022	\$148,710	\$419,202	\$950,400												10.7	4.1	14.6	51.1	7.7	10.3		1.5
Recycled Capital	11168	LAKE FOREST ZONE C RECYCLED WATER PUMP STAT	7/1/2019	11/30/2021	\$790,455	\$2,144,338	\$3,801,600												10.7	4.1	14.6	51.1	7.7	10.3		1.5
Sewer Capital	07788	LAWRP SYSTEM REPLACEMENTS 19/20	7/1/2019	6/30/2020	\$138,600	\$0	\$138,600											100.0								
Sewer Capital	10489	LAWRP SYSTEM REPLACEMENTS 20/21	7/1/2020	6/30/2021	\$0	\$138,000	\$138,000											100.0								
Recycled Capital	10646	LAWRP TFC MEDIA REPLACEMENT AND REPAIR	7/1/2019	3/31/2022	\$89,000	\$43,841	\$378,000											100.0								
Sewer Capital	01477	LAWRP TREATMENT PROCESS MODERNIZATION	6/1/2020	6/30/2027	\$7,143	\$734,561	\$20,975,000											100.0								
Potable Capital	10099	LF PORTOLA FROM RANCHO PKWY TO GLEN RANCH	7/1/2020	6/30/2023	\$0	\$100,667	\$972,000		32.6	3.3	3.0	47.5	11.1	0.4	1.6	0.5										
Recycled Capital	10551	LF ZNB EAST RES FLOATING COVER	2/1/2018	9/30/2019	\$104,203	\$0	\$2,005,000											100.0								
Potable Capital	07896	MARSH O&M PLAN UPDATE	1/1/2018	6/30/2020	\$118,800	\$0	\$297,000		32.6	3.3	3.0	47.5	11.1	0.4	1.6	0.5										
Potable Capital	10537	MASON PARK DW PIPE REPLACEMENT	7/1/2020	6/30/2022	\$0	\$106,500	\$531,000	100.0																		
Potable Capital	07789	MECH-ELEC SYS REPLACEMENT 19/20-DW	7/1/2019	6/30/2020	\$950,000	\$0	\$950,000	100.0																		

System	Project Number	Project Title	Start	End	FY19-20 Direct	FY20-21 Direct	Total Direct	Improvement Districts																					
								1100	1110	1120	1130	1250	1530	1540	1850	1880	2100	2120	2130	2220	2250	2400	2530	2560	2850	2880			
Recycled Capital	01813	SANTIAGO DAM SLOPED OUTLET	7/1/2013	4/30/2024	\$294,411	\$294,411	\$15,417,000												10.7	4.1	14.6	51.0	7.7	10.4	1.5				
Potable Capital	07136	SANTIAGO HILLS II DOMESTIC WATER BPS	6/1/2021	10/31/2024	\$0	\$13,273	\$3,165,900							100.0															
Potable Capital	07138	SANTIAGO HILLS II DOMESTIC WATER RESERVOIR	6/1/2021	10/31/2024	\$0	\$23,294	\$10,263,800							100.0															
Recycled Capital	07139	SANTIAGO HILLS II RECYCLED WATER BPS	6/1/2021	10/31/2024	\$0	\$13,273	\$3,165,900																	100.0					
Potable Capital	10061	SCE-IRWD WATER-ENERGY PILOT PHASE 2	6/1/2019	6/30/2021	\$182,160	\$182,160	\$379,500		32.6	3.3	3.0	47.5	11.1	0.4	1.6	0.5													
Recycled Capital	10071	SERRANO SUMMIT PHASE 2 RW	4/1/2017	12/31/2020	\$201,277	\$141,135	\$507,000																	100.0					
Potable Capital	07800	SERVICE LINE-VALVE-MAIN REPLACEMENT 19/20-D	7/1/2019	6/30/2020	\$3,153,600	\$0	\$3,153,600	100.0																					
Recycled Capital	07801	SERVICE LINE-VALVE-MAIN REPLACEMENT 19/20-R	7/1/2019	6/30/2020	\$428,300	\$0	\$428,300																100.0						
Potable Capital	10480	SERVICE LINE-VALVE-MAIN REPLACEMENT 20/21-D	7/1/2020	6/30/2021	\$0	\$3,318,624	\$3,318,624	100.0																					
Recycled Capital	10482	SERVICE LINE-VALVE-MAIN REPLACEMENT 20/21-R	7/1/2020	6/30/2021	\$0	\$511,992	\$511,992																100.0						
Sewer Capital	07802	SEWER LATERAL-MAIN REPLACEMENT 19/20	7/1/2019	6/30/2020	\$291,200	\$0	\$291,200																100.0						
Sewer Capital	10483	SEWER LATERAL-MAIN REPLACEMENT 20/21	7/1/2020	6/30/2021	\$0	\$324,208	\$324,208																100.0						
Sewer Capital	07886	SEWER SIPHON REHABILITATION	1/1/2019	12/31/2021	\$273,333	\$4,860,473	\$6,632,000															100.0							
Sewer Capital	07452	SHII CANYON VIEW (AT JAMBOREE RD) 15 SS	7/1/2016	7/31/2024	\$3,167	\$3,167	\$259,600																	100.0					
Potable Capital	07376	SHII PH1 D ST (FROM SANTIAGO TO B ST) 12 DW	6/1/2016	7/31/2024	\$2,204	\$2,204	\$176,000							100.0															
Recycled Capital	07377	SHII PH1 D ST (FROM SANTIAGO TO B ST) 6 RW	6/1/2016	7/31/2024	\$2,057	\$2,057	\$162,800																	100.0					
Sewer Capital	07379	SHII PH2 A ST (FROM SANTIAGO TO B ST) 12 SS	4/1/2018	7/31/2024	\$4,131	\$4,131	\$205,000																	100.0					
Recycled Capital	07380	SHII PH2 A/B/F ST (TR 17995) 6 AND 8 RW	4/1/2018	7/31/2024	\$9,443	\$9,443	\$487,000																	100.0					
Potable Capital	07378	SHII PH2 B/F ST (FROM C ST TO Z5 RES) 12 DW	4/1/2018	7/31/2024	\$18,492	\$18,492	\$974,000							100.0															
Potable Capital	07451	SHII SANTIAGO CYN (FROM D ST TO A ST) 12 DW	7/1/2016	7/31/2024	\$7,039	\$7,039	\$1,126,900							100.0															
Recycled Capital	07453	SHII SANTIAGO CYN AND JAMBOREE 6 8 12 16 RW	7/1/2016	7/31/2024	\$13,645	\$13,645	\$2,228,300																	100.0					
Recycled Capital	07486	SHII SOUTH TR 16199 12 8 AND 6 RW	7/1/2016	7/31/2024	\$9,650	\$9,650	\$808,000																	100.0					
Sewer Capital	07484	SHII SOUTH TR 16199 15 AND 12 SS	7/1/2016	7/31/2024	\$7,918	\$7,918	\$668,000																	100.0					
Sewer Capital	10581	SOCWA ALISO CREEK OCEAN OUTFALL SEAL REPLAC	5/1/2018	6/30/2021	\$17,760	\$4,800	\$50,000																100.0						
Sewer Capital	11189	SOCWA ETM AVAC VALVE REPLACEMENT REACHES	12/1/2019	12/31/2022	\$53,846	\$85,823	\$1,000,000																100.0						
Sewer Capital	03750	SOCWA ETM PROTECTION-TRAIL BRIDGE CROSSING	8/1/2016	12/31/2022	\$56,559	\$386,706	\$1,065,000																100.0						
Potable Capital	07897	SOUTH SAN DIEGO CREEK RUNOFF DIVERSION STUD	1/1/2018	6/30/2022	\$36,445	\$4,445	\$100,000		32.6	3.3	3.0	47.5	11.1	0.4	1.6	0.5													
Sewer Capital	07885	SS REHAB-CALCIUM REMOVAL	7/1/2020	6/30/2022	\$0	\$75,000	\$440,000																100.0						
Sewer Capital	11121	SS REHAB-PELICAN HILLS GOLF CLUB	3/1/2019	8/31/2020	\$416,844	\$22,623	\$531,300																100.0						
Potable Capital	05499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	7/1/2020	1/1/2021	\$0	\$1,590,800	\$1,590,800		32.6	3.3	3.0	47.5	11.1	0.4	1.6	0.5													
Recycled Capital	10580	SUNNYHILL RW PIPE REHAB	5/1/2019	11/30/2020	\$346,379	\$19,893	\$392,700																100.0						
Recycled Capital	03808	SYPHON RESERVOIR IMPROVEMENTS	6/1/2015	1/31/2025	\$1,823,421	\$1,647,267	\$75,000,000																10.7	4.1	14.6	51.0	7.7	10.4	1.5

Irvine Ranch Water District
Two-Year Capital Budget for Fiscal Year 2019-20 and Fiscal Year 2020-21
Section 2 - Flagged Projects

Project Number	Project Title	Flagged	Status
01100	LAKE FOREST WELL 1 DRILLING	Yes	Board Approved
06176	FUTURE GROUNDWATER SUPPLY	Yes	Unapproved
07140	TUSTIN LEGACY RED HILL WELL DRILLING AND EQUIPPING	Yes	Board Approved
10854	KERN FAN GROUNDWATER STORAGE	Yes	Active
03808	SYPHON RESERVOIR IMPROVEMENTS	Yes	Active

Irvine Ranch Water District
Two-Year Capital Budget for Fiscal Year 2019-20 and 2020-21
Section 3 - Summary of Projected Expenditures by Category

Expenditure Category	FY2019-20 Forecasted Expenditures	FY2020-21 Forecasted Expenditures	Total Direct
Development - Lake Forest	\$509,645	\$391,564	\$2,328,700
Development - Other	\$0	\$79,500	\$732,000
Development - PA1	\$89,687	\$80,026	\$3,405,300
Development - PA39	\$31,545	\$0	\$470,000
Development - PA40	\$0	\$34,800	\$447,700
Development - PA51	\$5,590,352	\$6,240,342	\$51,312,900
Development - PA6	\$609,899	\$0	\$1,820,300
Development - PA9B	\$0	\$51,203	\$506,100
Development - SHII	\$77,746	\$127,585	\$23,691,200
Development - Sub Regional	\$7,376,429	\$0	\$15,598,600
Development - Tustin Legacy	\$1,072,808	\$0	\$4,122,300
General Plant	\$2,269,000	\$2,036,200	\$4,305,200
Nonpotable Storage	\$3,055,781	\$4,755,134	\$82,741,500
OCSD - CORF - Solids Lease	(\$8,705,250)	\$10,002,750	\$236,703,000
OCWD Annexation	\$607,100	\$616,200	\$22,861,400
Operational	\$15,638,748	\$14,891,841	\$82,711,800
Planning	\$2,049,081	\$2,083,808	\$5,295,600
Property Management	\$14,339,659	\$0	\$37,950,630
Replacement - Facilities	\$7,073,532	\$14,656,042	\$47,338,900
Replacement - FY System	\$10,614,900	\$9,776,424	\$20,943,824
Replacement-Business Software	\$2,391,871	\$1,840,920	\$9,202,200
Sewage Treatment	\$495,529	\$856,657	\$22,664,100
Solids Handling	\$9,833,285	\$5,426,030	\$238,542,100
Water Banking	\$11,704,041	\$15,470,600	\$106,456,300
Water Resources	\$1,053,106	\$2,327,571	\$80,885,340
Well Rehabilitation	\$3,078,823	\$2,021,175	\$7,060,000
	\$90,857,316	\$93,766,372	\$1,110,096,994

Irvine Ranch Water District
Two-Year Capital Budget for Fiscal Year 2019-20 and Fiscal Year 2020-21
Section 4 - FY 2019-20 Details of Projected Expenditures by Category

FY Exp Category	FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
Development - Lake Forest					
05404 BAKE PARKWAY ZONE 5-ZONE 4 FIRE FLOW PRV AND PIPELINE	\$255,239	\$412,700	\$0	\$0	\$255,239
10071 SERRANO SUMMIT PHASE 2 RW	\$201,277	\$507,000	\$0	\$0	\$201,277
10096 LAKE FOREST NAKASE DW IMPROVEMENTS	\$53,129	\$437,000	\$0	\$53,129	\$0
	\$509,645	\$1,356,700	\$0	\$53,129	\$456,516
Development - PA1					
07012 PA1 NHB3 ORCHARD HILLS 16 DW Z5	\$42,681	\$889,700	\$0	\$0	\$42,681
07013 PA1 NHB3 ORCHARD HILLS 6 8 10 12 RW ZC	\$20,655	\$475,200	\$0	\$0	\$20,655
05919 PA1 NHB1 ORCHARD HILLS 16 ZC 6 ZC+	\$18,007	\$561,400	\$0	\$0	\$18,007
07555 PA1 NHB3 ORCHARD HILLS F ST (RIDGE GATE TO E ST)6 RW	\$8,344	\$167,800	\$0	\$0	\$8,344
	\$89,687	\$2,094,100	\$0	\$0	\$89,687
Development - PA39					
03735 PA39 PH2 FACILITIES-RW	\$31,545	\$470,000	\$0	\$0	\$31,545
	\$31,545	\$470,000	\$0	\$0	\$31,545
Development - PA51					
10068 PA51 GP REACH A SS PHASE 2	\$791,653	\$1,707,100	\$0	\$0	\$791,653
10576 PA51 REACH B EAST 18 SS	\$587,623	\$2,580,000	\$0	\$0	\$587,623
10344 PA51 D5 A ST 12_10 RW	\$483,627	\$1,059,000	\$0	\$0	\$483,627
10343 PA51 D5 A ST 12 DW	\$452,509	\$989,000	\$0	\$0	\$452,509
10023 PA51 D5 CHINON FROM SOUTH CADENCE TO CADENCE 12 SS	\$363,787	\$502,000	\$0	\$0	\$363,787
10024 PA51 D5 CHINON 16 RW, 12 RW and 10 RW ZONE C	\$331,710	\$457,000	\$0	\$0	\$331,710
10022 PA51 D5 CHINON FROM SOUTH CADENCE TO CADENCE, 12 D	\$292,096	\$392,000	\$0	\$0	\$292,096
10574 PA51 MARINE WAY AT OCTA 18 SS	\$235,117	\$970,000	\$0	\$0	\$235,117

FY Exp Category	FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
10117 PA51 D5 CADENCE S FROM O TO CHINON 12SS	\$214,298	\$487,000	\$0	\$0	\$214,298
10868 PA51 D6 P ST 18SS	\$134,037	\$542,000	\$0	\$0	\$134,037
10804 PA51 P ST & CADENCE 12_10RW	\$119,602	\$497,000	\$0	\$0	\$119,602
10734 PA51 MARINE WY (BARRANCA TO OCTA) 16 RW	\$113,079	\$512,000	\$0	\$0	\$113,079
04614 PA51 REACH A SEWER IMPROVEMENTS	\$90,301	\$3,956,500	\$0	\$0	\$90,301
11177 PA51 D6 MARINE AND ALTON 16RW	\$89,310	\$758,000	\$0	\$0	\$89,310
10878 PA51 D5 F ST N ST 12_10RW	\$81,915	\$317,000	\$0	\$0	\$81,915
10864 PA51 D5 ASTOR 10RW	\$81,914	\$342,000	\$0	\$0	\$81,914
10862 PA51 D5 BB ST 12 RW	\$81,396	\$297,000	\$0	\$0	\$81,396
10861 PA51 D5 MERIT 12_10_RW	\$80,336	\$312,000	\$0	\$0	\$80,336
11176 PA51 D6 MARINE AND ALTON 12DW	\$59,730	\$468,000	\$0	\$0	\$59,730
10255 PA51 D5 CADENCE S 10RW	\$54,915	\$138,000	\$0	\$0	\$54,915
10865 PA51 D5 E ST 12RW	\$53,780	\$181,000	\$0	\$0	\$53,780
10254 PA51 D5 CADENCE S 12DW	\$52,795	\$138,000	\$0	\$0	\$52,795
10875 PA51 D5 F ST N ST 12DW	\$40,630	\$157,000	\$0	\$0	\$40,630
05817 PA51 ALTON-TECHNOLOGY TO MUIRLANDS SS RELOCATION	\$40,528	\$1,326,300	\$0	\$0	\$40,528
10796 PA51 D5 "P" ST & CHINON 12DW	\$39,874	\$147,000	\$0	\$0	\$39,874
10863 PA51 D5 ASTOR 12DW	\$39,874	\$147,000	\$0	\$0	\$39,874
04147 PA51 MARINE WAY ZNB-RW	\$35,145	\$1,201,200	\$0	\$0	\$35,145
06538 PA51 GP-2 ST (BOSQUE TO GP1 ST) 10 RW	\$33,404	\$1,169,400	\$0	\$0	\$33,404
10447 PA51 MARINE WAY AND BAKE 16RW	\$32,196	\$273,000	\$0	\$0	\$32,196
04267 PA51 RIDGE VALLEY-MARINE WAY TO TRABUCO SS	\$31,056	\$1,493,800	\$0	\$0	\$31,056
05788 PA51 ALTON PKWY SS RELOCATION 12 AND 18	\$30,945	\$1,232,300	\$0	\$0	\$30,945
10867 PA1 OH NB3 FRAMEWORK 6RW	\$29,953	\$126,000	\$0	\$0	\$29,953
05535 PA51 LQ ST FROM BOSQUE TO Z ST 12 -SS	\$29,575	\$1,075,300	\$0	\$0	\$29,575
10426 PA6 NB5BC B ST 6 RW PHASE 2	\$29,489	\$81,000	\$0	\$0	\$29,489
06684 PA51 GP BENCHMARK AND MODJESKA (DISTRICT 4) RW	\$28,632	\$971,300	\$0	\$0	\$28,632
06513 PA51 GP-1 ST (MARINE TO GP-2 ST) 12 SS	\$22,906	\$753,300	\$0	\$0	\$22,906

FY Exp Category		FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
06048	PA51 MARINE WAY-ALTON TO BARRANCA 18 SS	\$20,304	\$874,500	\$0	\$0	\$20,304
10860	PA51 D5 MERIT 12_DW	\$17,607	\$72,000	\$0	\$0	\$17,607
06553	PA51 GP BENCHMARK AND PERSPECTIVE 16 SS	\$16,304	\$484,200	\$0	\$0	\$16,304
06514	PA51 GP GP-1 ST (MARINE TO GP-2 ST) 10 RW	\$15,509	\$536,800	\$0	\$0	\$15,509
07169	PA51 GP DIST 7 Z ST AND A ST RW ZC	\$14,316	\$492,800	\$0	\$0	\$14,316
06087	PA51 MARINE WAY-ALTON TO BARRANCA 16 RW ZN B	\$14,175	\$481,600	\$0	\$0	\$14,175
06536	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12 DW	\$13,362	\$531,300	\$0	\$0	\$13,362
06086	PA51 MARINE WAY FROM ALTON TO BARRANCA 12 DW ZN 3	\$13,177	\$438,700	\$0	\$0	\$13,177
06476	PA51 MARINE WAY. RIDGE VALLEY TO 3000 FT EAST	\$11,830	\$426,800	\$0	\$0	\$11,830
06512	PA51 GP-1 ST (MARINE TO GP-2 ST) 12 DW	\$10,498	\$355,300	\$0	\$0	\$10,498
04278	PA51 RIDGE VALLEY-MARINE WAY TO TRABUCO RW	\$9,948	\$464,200	\$0	\$0	\$9,948
04153	PA51 MARINE WAY ZN3 DW	\$9,783	\$420,200	\$0	\$0	\$9,783
06823	PA51 GP EPISODE (FROM FRAME TO PUSAN) 16 RW ZC	\$9,783	\$323,400	\$0	\$0	\$9,783
04268	PA51 RIDGE VALLEY-MARINE WAY TO TRABUCO DW	\$9,617	\$486,200	\$0	\$0	\$9,617
05536	PA51 LQ ST FROM BOSQUE TO Z ST 12 RW	\$9,583	\$416,900	\$0	\$0	\$9,583
05818	PA51 ALTON-TECHNOLOGY TO MUIRLANDS 16 RW	\$9,184	\$344,300	\$0	\$0	\$9,184
06537	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12 SS	\$8,112	\$333,300	\$0	\$0	\$8,112
05758	PA51 CADENCE-PUSAN TO CHINON 12_16RW	\$6,189	\$271,700	\$0	\$0	\$6,189
05756	PA51 B ST FROM SOCIABLE TO IRVINE BLV 12 ZN 4	\$5,989	\$243,100	\$0	\$0	\$5,989
07022	PA51 GP-2 ST (FROM GP-3 TO BOSQUE) 12 RWZC	\$5,978	\$180,400	\$0	\$0	\$5,978
05757	PA51 B ST FROM SOCIABLE TO IRVINE BLV 16 ZN C	\$5,949	\$240,900	\$0	\$0	\$5,949
06732	PA51 GP MAGNET (FROM RIDGE V. TO BOSQUE) 6 RW ZB	\$5,915	\$206,800	\$0	\$0	\$5,915
06595	PA51 GP TERRAPIN (TRABUCO TO CADENCE) 6 RW ZB	\$5,005	\$180,400	\$0	\$0	\$5,005
06683	PA51 GP BENCHMARK AND MODJEKSA (DISTRICT 4) 12 DW	\$4,533	\$150,700	\$0	\$0	\$4,533
06331	PA51 GP CULTIVATE (BOSQUE TO 500 E/O BOSQUE) 16	\$4,430	\$220,000	\$0	\$0	\$4,430
05816	PA51 ALTON-TECHNOLOGY TO MUIRLANDS 12 DW	\$4,392	\$177,100	\$0	\$0	\$4,392
06552	PA51 GP BENCHMARK AND PERSPECTIVE 12 DW Z4R	\$4,193	\$147,400	\$0	\$0	\$4,193
06554	PA51 GP BENCHMARK AND PERSPECTIVE 6 RW ZC	\$3,727	\$129,800	\$0	\$0	\$3,727

FY Exp Category	FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
06535 PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12 RW ZC	\$3,028	\$106,700	\$0	\$0	\$3,028
06208 PA51 MARINE WAY: SR133 TO RIDGE VALLEY 12 ZONE 3	\$2,644	\$82,500	\$0	\$0	\$2,644
06209 PA51 MARINE WAY: SR133 TO RIDGE VALLEY 6 ZONE B	\$1,586	\$53,900	\$0	\$0	\$1,586
06304 PA51 BENCHMARK-BOSQUE TO 550-E/O BOSQUE 12 Z4R	\$1,397	\$49,500	\$0	\$0	\$1,397
06306 PA51 BENCHMARK-BOSQUE TO 550-E/O BOSQUE 6 ZC	\$1,397	\$49,500	\$0	\$0	\$1,397
06534 PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12 DW Z4	\$1,165	\$44,000	\$0	\$0	\$1,165
	\$5,590,352	\$37,772,400	\$0	\$0	\$5,590,352

Development - PA6

10100 PA6 NHB5B5C 12 8 6 RW	\$570,000	\$640,000	\$0	\$0	\$570,000
05243 PA6 NHB4B 6 RW ZONE D	\$15,072	\$526,900	\$0	\$0	\$15,072
06915 PA6 NHB5A 6 AND 8 RECYCLED WATER MAIN ZONE D	\$14,136	\$402,600	\$0	\$0	\$14,136
07017 PA1 NHB3 ORCHARD HILLS 6 8 RW ZC+	\$10,691	\$250,800	\$0	\$0	\$10,691
	\$609,899	\$1,820,300	\$0	\$0	\$609,899

Development - SHII

07378 SHII PH2 B/F ST (FROM C ST TO Z5 RES) 12 DW	\$18,492	\$974,000	\$0	\$0	\$18,492
07453 SHII SANTIAGO CYN AND JAMBOREE 6 8 12 16 RW	\$13,645	\$2,228,300	\$0	\$0	\$13,645
07486 SHII SOUTH TR 16199 12 8 AND 6 RW	\$9,650	\$808,000	\$0	\$0	\$9,650
07380 SHII PH2 A/B/F ST (TR 17995) 6 AND 8 RW	\$9,443	\$487,000	\$0	\$0	\$9,443
07484 SHII SOUTH TR 16199 15 AND 12 SS	\$7,918	\$668,000	\$0	\$0	\$7,918
07451 SHII SANTIAGO CYN (FROM D ST TO A ST) 12 DW	\$7,039	\$1,126,900	\$0	\$0	\$7,039
07379 SHII PH2 A ST (FROM SANTIAGO TO B ST) 12 SS	\$4,131	\$205,000	\$0	\$0	\$4,131
07452 SHII CANYON VIEW (AT JAMBOREE RD) 15 SS	\$3,167	\$259,600	\$0	\$0	\$3,167
07376 SHII PH1 D ST (FROM SANTIAGO TO B ST) 12 DW	\$2,204	\$176,000	\$0	\$0	\$2,204
07377 SHII PH1 D ST (FROM SANTIAGO TO B ST) 6 RW	\$2,057	\$162,800	\$0	\$0	\$2,057
	\$77,746	\$7,095,600	\$0	\$0	\$77,746

Development - Sub Regional

04400 EASTWOOD RW PUMP STATION ZONE A TO C	\$3,426,674	\$7,520,000	\$0	\$0	\$3,426,674
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FY Exp Category	FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
04457 EASTWOOD RW PUMP STATION ZONE A TO B	\$2,654,276	\$5,950,000	\$363,636	\$0	\$2,290,640
06198 IIC EAST ZONE B BPS UPGRADES	\$1,295,479	\$2,128,600	\$1,165,931	\$32,387	\$97,161
	\$7,376,429	\$15,598,600	\$1,529,567	\$32,387	\$5,814,475
Development - Tustin Legacy					
10260 TUSTIN LEGACY MOFFETT LEGACY 16_12DW	\$507,824	\$803,000	\$0	\$0	\$507,824
10261 TUSTIN LEGACY MOFFETT LEGACY 12RW	\$481,194	\$768,000	\$0	\$0	\$481,194
04984 TUSTIN LEGACY ARMSTRONG ZONE A-WARNER ZONE A RW	\$18,468	\$773,300	\$0	\$0	\$18,468
06766 TUSTIN LEGACY MOFFETT DR (AT PETERS CYN) 16 RW ZA	\$16,770	\$375,000	\$0	\$0	\$16,770
07163 TUSTIN LEGACY BELL AVE (REDHILL TO ARMSTRONG) 6 RW	\$13,123	\$362,800	\$0	\$0	\$13,123
06765 TUSTIN LEGACY MOFFETT DR (AT PETERS CYN) 12 DW Z1	\$12,578	\$287,000	\$0	\$0	\$12,578
07535 TUSTIN LEGACY FLIGHT DR 6 RW	\$10,514	\$270,000	\$0	\$0	\$10,514
04989 TUSTIN LEGACY WARNER FROM ARMSTRONG TO LEGACY RW	\$8,066	\$332,700	\$0	\$0	\$8,066
04988 TUSTIN LEGACY WARNER FROM ARMSTRONG TO LEGACY DW	\$4,272	\$150,500	\$0	\$0	\$4,272
	\$1,072,808	\$4,122,300	\$0	\$0	\$1,072,808
General Plant					
11203 GP_Dep 870_FY 19_20	\$1,162,500	\$1,162,500	\$837,000	\$255,750	\$69,750
11198 GP_Dep 250_FY 19_20	\$721,500	\$721,500	\$519,480	\$158,730	\$43,290
11200 GP_Dep 600_FY 19_20	\$303,000	\$303,000	\$218,160	\$66,660	\$18,180
11199 GP_Dep 515_FY 19_20	\$78,000	\$78,000	\$56,160	\$17,160	\$4,680
11202 GP_Dep 710_FY 19_20	\$4,000	\$4,000	\$2,880	\$880	\$240
	\$2,269,000	\$2,269,000	\$1,633,680	\$499,180	\$136,140
Nonpotable Storage					
03808 SYPHON RESERVOIR IMPROVEMENTS	\$1,823,421	\$75,000,000	\$0	\$1,336,567	\$486,853
11168 LAKE FOREST ZONE C RECYCLED WATER PUMP STATION	\$790,455	\$3,801,600	\$0	\$580,194	\$210,261
04388 EASTWOOD RW PUMP STATION ZONE A TO SYPHON	\$293,195	\$2,989,500	\$0	\$214,912	\$78,283
11236 LAKE FOREST ZONE C RECYCLED WATER PIPELINE	\$148,710	\$950,400	\$0	\$109,153	\$39,557
	\$3,055,781	\$82,741,500	\$0	\$2,240,827	\$814,954

FY Exp Category		FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
OCSD - CORF - Solids Lease						
10502	OCSD CORF LONG TERM CAPITAL PROGRAM 2018 TO 2050	\$4,515,125	\$210,379,000	\$3,282,496	\$1,006,873	\$225,756
10594	OCSD SOLIDS LEASE LONG TERM CAPITAL PROGRAM 2018 to 2	\$3,500,000	\$9,582,000	\$0	\$2,859,500	\$640,500
10500	OCSD EQUITY LONG TERM CAPITAL PROGRAM 2018 TO 2050	(\$16,720,375)	\$16,742,000	\$0	(\$13,660,546)	(\$3,059,829)
		(\$8,705,250)	\$236,703,000	\$3,282,496	(\$9,794,173)	(\$2,193,572)
OCWD Annexation						
10503	OCWD ANNEXATION LONG TERM CAPITAL PROGRAM 2018 TO	\$607,100	\$22,861,400	\$0	\$486,287	\$120,813
		\$607,100	\$22,861,400	\$0	\$486,287	\$120,813
Operational						
06401	3.7 MG ZONE 1 RESERVOIR	\$5,234,675	\$12,626,300	\$0	\$4,192,975	\$1,041,700
06214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	\$1,886,063	\$2,976,900	\$0	\$1,510,736	\$375,327
10559	BAKER WTP FENCING & ACCESS IMPROVEMENTS & OUTFALL R	\$1,273,182	\$1,422,500	\$0	\$1,019,819	\$253,363
01398	SANTIAGO CYN AREA PS IMPROVMENTS	\$1,204,942	\$6,613,000	\$0	\$965,158	\$239,783
10379	SAN JOAQUIN RESERVOIR FILTRATION FACILITY	\$965,042	\$3,654,000	\$0	\$708,341	\$256,701
10101	SANTIAGO CANYON FLEMING STORAGE AND PUMP STATION I	\$726,297	\$9,001,000	\$0	\$726,297	\$0
05407	ILP NORTH CONVERSION-RESERVOIR	\$423,341	\$14,382,500	\$1,270	\$72,391	\$349,680
11170	RATTLESNAKE RESERVOIR FILTRATION	\$384,000	\$3,055,000	\$0	\$281,856	\$102,144
10093	EMERGENCY MWRP RW DIVERSION TO SAN DIEGO CREEK	\$361,465	\$1,905,000	\$0	\$295,317	\$66,148
07783	GEN SYS MODS 19/20-SS	\$330,000	\$330,000	\$330,000	\$0	\$0
07883	CNG FILLING STATION-RW	\$306,815	\$748,000	\$0	\$224,896	\$81,920
07882	CNG FILLING STATION-SS	\$306,815	\$748,000	\$0	\$250,361	\$56,454
07881	CNG FILLING STATION-DW	\$306,815	\$748,000	\$0	\$245,759	\$61,056
01813	SANTIAGO DAM SLOPED OUTLET	\$294,411	\$15,417,000	\$0	\$215,803	\$78,608
07782	GEN SYS MODS 19/20-DW	\$254,300	\$254,300	\$0	\$203,694	\$50,606
07096	OSO RES STRAINER AND METER	\$238,381	\$375,100	\$0	\$174,733	\$63,648
11172	CANADA LIFT STATION IMPROVEMENTS	\$173,571	\$2,060,000	\$0	\$141,808	\$31,764
07890	MWRP HEADWORKS PLATFORMS	\$155,585	\$175,000	\$0	\$126,957	\$28,628

FY Exp Category	FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
07900 MWRP DUMP STATION IMPROVEMENTS	\$138,462	\$291,500	\$0	\$112,985	\$25,477
07891 MWRP HEADWORKS SCREENING AREA DIVERTER CHUTE	\$130,337	\$180,500	\$0	\$106,355	\$23,982
10554 NTS GENERAL SYSTEM MODIFICATIONS 19/20	\$120,000	\$120,000	\$0	\$96,120	\$23,880
07784 GEN SYS MODS 19/20-RW	\$117,000	\$117,000	\$0	\$85,761	\$31,239
11151 PETERS CANYON WATER CAPTURE AND REUSE PIPELINE IMRO	\$105,217	\$220,000	\$0	\$84,279	\$20,938
11123 EROSION OVR SS NEAR SERRANO CK	\$94,000	\$323,000	\$94,000	\$0	\$0
11146 SAN JOAQUIN MARSH POLYPHAGOUS SHOTHOLE BORER MITI	\$47,826	\$100,000	\$0	\$38,309	\$9,517
06212 NTS INFILTRATION STUDY	\$31,450	\$64,900	\$0	\$25,191	\$6,259
07907 LAKE FOREST ZONE 5 WEST BPS UPGRADES	\$15,578	\$1,302,200	\$0	\$12,478	\$3,100
05406 NTS-EL MODENA MODS	\$6,518	\$166,200	\$0	\$5,221	\$1,297
11194 SAFETY- MWRP MBR FALL PROTECTION IMP	\$1,923	\$262,000	\$1,923	\$0	\$0
11209 BAKER WTP HCI SCRUBBER	\$1,154	\$218,000	\$0	\$924	\$230
06162 CP IMP-CRYSTAL COVE RECT-DW	\$1,002	\$138,800	\$1,002	\$0	\$0
06161 CENTRALIZED CONTROL ROOM AT MWRP-SS	\$962	\$170,000	\$0	\$785	\$177
06160 CENTRALIZED CONTROL ROOM AT MWRP-DW	\$962	\$170,000	\$0	\$770	\$191
06163 CP IMP-CRYSTAL COVE RECT-RW	\$577	\$133,300	\$577	\$0	\$0
07887 IRVINE LAKE SERVICE IMPROVEMENT	\$80	\$229,000	\$0	\$64	\$16
	\$15,638,748	\$80,698,000	\$428,772	\$11,926,144	\$3,283,832
Planning					
07779 CAPITAL PLANNING SUPPORT 19/20 RW	\$400,000	\$400,000	\$0	\$293,200	\$106,800
07777 CAPITAL PLANNING SUPPORT 19/20 DW	\$400,000	\$400,000	\$0	\$320,400	\$79,600
07778 CAPITAL PLANNING SUPPORT 19/20 SS	\$400,000	\$400,000	\$0	\$326,400	\$73,600
11135 SALT MANAGEMENT MODEL AND PLAN UPDATE	\$187,500	\$187,500	\$0	\$137,625	\$49,875
07084 REPLACEMENT PLANNING DW	\$120,000	\$440,000	\$120,000	\$0	\$0
07085 REPLACEMENT PLANNING RW	\$120,000	\$440,000	\$120,000	\$0	\$0
07896 MARSH O&M PLAN UPDATE	\$118,800	\$297,000	\$0	\$95,159	\$23,641
11171 TREATMENT EVALUATION FOR WELLS OPA-1 AND ET-1 AND S	\$71,500	\$143,000	\$0	\$57,271	\$14,228

FY Exp Category		FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
07083	POTABLE REUSE ALTERNATIVES ANALYSIS SS	\$55,556	\$250,000	\$0	\$45,333	\$10,222
07082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	\$55,556	\$250,000	\$0	\$44,500	\$11,056
11181	NON-POTABLE WATER STUDIES 19/20	\$40,000	\$40,000	\$0	\$29,360	\$10,640
07897	SOUTH SAN DIEGO CREEK RUNOFF DIVERSION STUDY	\$36,445	\$100,000	\$0	\$29,192	\$7,252
10063	SALT MANAGEMENT MODELING ON RECYCLED WATER QUALI	\$36,033	\$108,100	\$0	\$26,448	\$9,585
07895	NTS MASTER PLAN UPDATE	\$7,692	\$100,000	\$0	\$6,162	\$1,531
		\$2,049,081	\$3,555,600	\$240,000	\$1,411,051	\$398,031
Property Management						
06210	ASSET OPTIMIZATION-SAND CANYON PROFESSIONAL CTR	\$12,645,911	\$20,605,630	\$12,645,911	\$0	\$0
01264	ASSET OPTIMIZATION-LAKE FOREST DEVELOPMENT	\$1,693,748	\$17,345,000	\$1,693,748	\$0	\$0
		\$14,339,659	\$37,950,630	\$14,339,659	\$0	\$0
Replacement - Facilities						
05476	ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION	\$1,375,706	\$11,481,750	\$1,375,706	\$0	\$0
10102	SANTIAGO CYN PIPE REPLACEMENT-LADD CYN RD DW	\$1,137,674	\$1,293,000	\$1,137,674	\$0	\$0
10542	VAULT LID REPLACEMENT-IRV BLVD	\$833,055	\$1,078,350	\$833,055	\$0	\$0
11121	SS REHAB-PELICAN HILLS GOLF CLUB	\$416,844	\$531,300	\$416,844	\$0	\$0
10580	SUNNYHILL RW PIPE REHAB	\$346,379	\$392,700	\$346,379	\$0	\$0
07886	SEWER SIPHON REHABILITATION	\$273,333	\$6,632,000	\$273,333	\$0	\$0
10535	MWRP TRANSFORMER T1 REPLACEMENT	\$270,362	\$543,000	\$270,362	\$0	\$0
10999	BONITA CANYON ZONE D to B PRS SUPPLY LINE REPLACEMENT	\$215,413	\$325,000	\$215,413	\$0	\$0
07889	TURTLE RIDGE PIPE REHAB-RW	\$207,818	\$309,000	\$207,818	\$0	\$0
07888	TURTLE RIDGE PIPE REHAB-DW	\$207,818	\$309,000	\$207,818	\$0	\$0
05761	15 MG ZONE 1 RESERVOIR INTERIOR COATING	\$189,431	\$2,748,500	\$189,431	\$0	\$0
11218	LAKE FOREST WELL NO. 2 TREATMENT & BYPASS SEWER CON	\$138,083	\$587,000	\$0	\$110,605	\$27,479
07898	PLC REPLACEMENT-DW	\$133,468	\$440,000	\$133,468	\$0	\$0
07899	PLC REPLACEMENT-RW	\$133,468	\$440,000	\$133,468	\$0	\$0
10551	LF ZNB EAST RES FLOATING COVER	\$104,203	\$2,005,000	\$104,203	\$0	\$0

FY Exp Category	FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
10646 LAWRP TFC MEDIA REPLACEMENT AND REPAIR	\$89,000	\$378,000	\$89,000	\$0	\$0
11174 PLC REPLACEMENT-SS	\$87,152	\$220,000	\$87,152	\$0	\$0
11169 LAKE FOREST ZONE B TO C BOOSTER PUMP STATION IMPROVE	\$85,636	\$1,905,000	\$0	\$62,857	\$22,779
11164 SAND CANYON SERVER ROOM AIR CONDITIONING REPLACEM	\$82,500	\$110,000	\$0	\$66,083	\$16,418
11139 VAULT LID REPLACEMENT-PH2 DW	\$81,600	\$402,200	\$81,600	\$0	\$0
11118 VALVE REPLACE-DW	\$57,100	\$354,200	\$57,100	\$0	\$0
11120 VALVE REPLACE-RW	\$57,100	\$354,200	\$57,100	\$0	\$0
03750 SOCWA ETM PROTECTION-TRAIL BRIDGE CROSSING (PC 21)	\$56,559	\$1,065,000	\$56,559	\$0	\$0
11166 SAND CANYON SERVER ROOM AIR CONDITIONING REPLACEM	\$56,250	\$75,000	\$0	\$41,288	\$14,963
11167 SAND CANYON SERVER ROOM AIR CONDITIONING REPLACEM	\$56,250	\$75,000	\$0	\$45,956	\$10,294
11189 SOCWA ETM AVAC VALVE REPLACEMENT REACHES D AND E (P	\$53,846	\$1,000,000	\$53,846	\$0	\$0
07172 UNIVERSITY DR WIDENING APPURTENANCE RELOC-RW	\$50,521	\$248,000	\$12,630	\$37,891	\$0
07171 UNIVERSITY DR WIDENING APPURTENANCE RELOC-SS	\$50,521	\$248,000	\$25,260	\$25,260	\$0
07170 UNIVERSITY DR WIDENING APPURTENANCE RELOC-DW	\$50,521	\$248,000	\$37,891	\$12,630	\$0
11145 VAULT LID REPLACEMENT-PH2 RW	\$49,000	\$234,000	\$49,000	\$0	\$0
11227 TCWD EL TORO LIFT STATION PUMP & MOTOR REPLACEMENT	\$48,485	\$2,630,000	\$48,485	\$0	\$0
11147 VAULT LID REPLACEMENT-PH2 SS	\$37,000	\$234,000	\$37,000	\$0	\$0
10581 SOCWA ALISO CREEK OCEAN OUTFALL SEAL REPLACEMENT AN	\$17,760	\$50,000	\$17,760	\$0	\$0
03780 SAN JOAQUIN RESERVOIR LINER REPLACEMENT	\$12,623	\$2,807,900	\$12,623	\$0	\$0
07097 MICHELSON FORCE MAIN REHABILITATION	\$7,973	\$2,217,300	\$7,973	\$0	\$0
06164 CP IMP-CULVER CP5 RECT AND ANODE BED REPLACEMENT	\$1,538	\$244,200	\$1,538	\$0	\$0
06159 CP IMP-CANADA RD JOINT BONDING	\$1,538	\$233,200	\$1,538	\$0	\$0
	\$7,073,532	\$44,448,800	\$6,579,031	\$402,569	\$91,932

Replacement - FY System

07800 SERVICE LINE-VALVE-MAIN REPLACEMENT 19/20-DW	\$3,153,600	\$3,153,600	\$3,153,600	\$0	\$0
10630 METER REPLACEMENT 19/20-DW	\$1,156,000	\$1,156,000	\$1,156,000	\$0	\$0
07789 MECH-ELEC SYS REPLACEMENT 19/20-DW	\$950,000	\$950,000	\$950,000	\$0	\$0

FY Exp Category	FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
07791 MECH-ELEC SYS REPLACEMENT 19/20-RW	\$660,000	\$660,000	\$660,000	\$0	\$0
07796 RAISE SYSTEM VALVES 19/20 UNDER RA-DW	\$577,500	\$577,500	\$577,500	\$0	\$0
07790 MECH-ELEC SYS REPLACEMENT 19/20-SS	\$550,000	\$550,000	\$550,000	\$0	\$0
07792 MWRP SYS REPLACEMENTS 19/20	\$450,000	\$450,000	\$450,000	\$0	\$0
07801 SERVICE LINE-VALVE-MAIN REPLACEMENT 19/20-RW	\$428,300	\$428,300	\$428,300	\$0	\$0
07795 RAISE MANHOLES TO GRADE 19/20 UNDER RA	\$346,500	\$346,500	\$346,500	\$0	\$0
07802 SEWER LATERAL-MAIN REPLACEMENT 19/20	\$291,200	\$291,200	\$291,200	\$0	\$0
10515 ASPHALT REPLACEMENT 19/20-DW	\$220,000	\$220,000	\$220,000	\$0	\$0
10516 ASPHALT REPLACEMENT 19/20-RW	\$220,000	\$220,000	\$220,000	\$0	\$0
10525 INDUSTRIAL COATINGS REPLACEMENT 19/20-DW	\$220,000	\$220,000	\$220,000	\$0	\$0
10526 INDUSTRIAL COATINGS REPLACEMENT 19/20-RW	\$220,000	\$220,000	\$220,000	\$0	\$0
11161 FACILITIES SYSTEM REPLACEMENTS 19/20-RW	\$200,000	\$200,000	\$0	\$146,800	\$53,200
11160 FACILITIES SYSTEM REPLACEMENTS 19/20-DW	\$200,000	\$200,000	\$0	\$160,200	\$39,800
10634 METER REPLACEMENT 19/20-RW	\$174,600	\$174,600	\$174,600	\$0	\$0
07797 RAISE SYSTEM VALVES 19/20 UNDER RA-RW	\$138,600	\$138,600	\$138,600	\$0	\$0
07788 LAWRP SYSTEM REPLACEMENTS 19/20	\$138,600	\$138,600	\$138,600	\$0	\$0
10518 ASPHALT REPLACEMENT 19/20-SS	\$110,000	\$110,000	\$110,000	\$0	\$0
10527 INDUSTRIAL COATINGS REPLACEMENT 19/20-SS	\$110,000	\$110,000	\$110,000	\$0	\$0
11163 FACILITIES SYSTEM REPLACEMENTS 19/20-SS	\$100,000	\$100,000	\$0	\$81,700	\$18,300
	\$10,614,900	\$10,614,900	\$10,114,900	\$388,700	\$111,300
Replacement-Business Software					
10547 CC&B SOFTWARE UPGRADE SS	\$657,462	\$1,424,500	\$657,462	\$0	\$0
10546 CC&B SOFTWARE UPGRADE DW	\$657,462	\$1,424,500	\$657,462	\$0	\$0
03566 ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENT-DW	\$396,446	\$2,682,100	\$0	\$317,553	\$78,893
03567 ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENT-SS	\$396,446	\$2,682,100	\$0	\$323,500	\$72,946
10345 BUSINESS INTELLIGENCE (BI)DISASTER RECOVERY (DR) CLOUD	\$85,929	\$401,000	\$85,929	\$0	\$0
10347 BUSINESS INTELLIGENCE (BI) DISASTER RECOVERY (DR) CLOUD	\$85,928	\$401,000	\$85,928	\$0	\$0

FY Exp Category	FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
10543 MIGRATE EMAIL TO MS CLOUD DW	\$56,100	\$93,500	\$56,100	\$0	\$0
10544 MIGRATE EMAIL TO MS CLOUD SS	\$56,100	\$93,500	\$56,100	\$0	\$0
	\$2,391,871	\$9,202,200	\$1,598,980	\$641,053	\$151,839
Sewage Treatment					
05427 WATER RECYCLING TRT PLANT MSTR PLAN UPDATE-SS	\$322,943	\$1,130,300	\$0	\$263,521	\$59,421
07141 WATER RECYCLING TRT PLANT MSTR PLAN UPDATE-RW	\$165,443	\$558,800	\$0	\$121,270	\$44,173
01477 LAWRP TREATMENT PROCESS MODERNIZATION	\$7,143	\$20,975,000	\$7,143	\$0	\$0
	\$495,529	\$22,664,100	\$7,143	\$384,791	\$103,595
Solids Handling					
04286 MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	\$9,833,285	\$238,542,100	\$4,474,145	\$4,582,311	\$776,830
	\$9,833,285	\$238,542,100	\$4,474,145	\$4,582,311	\$776,830
Water Banking					
10854 KERN FAN GROUNDWATER STORAGE	\$10,856,284	\$93,838,000	\$0	\$8,695,883	\$2,160,400
06023 ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	\$490,257	\$9,872,500	\$0	\$392,696	\$97,561
07160 WATER SUPPLY RELIABILITY AGREEMENTS 18/20	\$220,000	\$440,000	\$0	\$176,220	\$43,780
07804 WATER RELIABILITY PLANNING 19/20	\$137,500	\$137,500	\$0	\$110,138	\$27,363
	\$11,704,041	\$104,288,000	\$0	\$9,374,936	\$2,329,104
Water Resources					
11185 RW CONVERSION IMPROVEMENTS FOR OFF-SITE 19/20	\$503,500	\$503,500	\$503,500	\$0	\$0
10061 SCE-IRWD WATER-ENERGY PILOT PHASE 2	\$182,160	\$379,500	\$0	\$145,910	\$36,250
10558 BAKER PIPELINE CAPACITY PURCHASE	\$171,600	\$357,500	\$0	\$137,452	\$34,148
07803 WATER AND ENERGY PLANNING STUDIES DW 19/20	\$126,500	\$126,500	\$0	\$101,327	\$25,174
01402 WELLS 51/52/TUSTIN LEGACY TREATMENT ALTERNATIVES STU	\$69,346	\$133,100	\$0	\$55,546	\$13,800
	\$1,053,106	\$1,500,100	\$503,500	\$440,235	\$109,372
Well Rehabilitation					
07088 WELL REHAB-DRWF 11	\$670,923	\$770,000	\$670,923	\$0	\$0

FY Exp Category	FY 19-20 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
10098 WELL REHAB-DRWF 12	\$628,071	\$770,000	\$628,071	\$0	\$0
07091 WELL REHAB-DRWF 16	\$507,999	\$770,000	\$507,999	\$0	\$0
07089 WELL REHAB-DRWF 14	\$504,782	\$770,000	\$504,782	\$0	\$0
07805 WELL MAINTENANCE AND REHABILITATION 19/20-DW	\$360,000	\$360,000	\$360,000	\$0	\$0
10914 WELL REHAB-DRWF 5	\$179,009	\$770,000	\$179,009	\$0	\$0
11124 WELL MAINTENANCE AND REHABILITATION 19/20-RW	\$90,000	\$90,000	\$90,000	\$0	\$0
11137 WELL REHAB-IDP 76	\$74,308	\$770,000	\$74,308	\$0	\$0
07087 WELL REHAB-DRWF 10	\$63,731	\$770,000	\$63,731	\$0	\$0
	\$3,078,823	\$5,840,000	\$3,078,823	\$0	\$0
	\$90,857,316	\$974,209,330	\$47,810,695	\$23,069,426	\$19,977,195

Irvine Ranch Water District
Two-Year Capital Budget for Fiscal Year 2019-20 and Fiscal Year 2020-21
Section 4 - FY 2020-21 Details of Projected Expenditures by Category

FY Exp Category	FY 20-21 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
Development - Lake Forest					
05404 BAKE PARKWAY ZONE 5-ZONE 4 FIRE FLOW PRV AND PIPELINE	\$44,286	\$412,700	\$0	\$0	\$44,286
10071 SERRANO SUMMIT PHASE 2 RW	\$141,135	\$507,000	\$0	\$0	\$141,135
10096 LAKE FOREST NAKASE DW IMPROVEMENTS	\$105,475	\$437,000	\$0	\$105,475	\$0
10099 LF PORTOLA FROM RANCHO PKWY TO GLEN RANCH RD DW I	\$100,667	\$972,000	\$0	\$80,634	\$20,033
	\$391,564	\$2,328,700	\$0	\$186,110	\$205,454
Development - Other					
07086 CALIFORNIA AVE RW PIPELINE-ACADEMY TO THEORY	\$79,500	\$732,000	\$79,500	\$0	\$0
	\$79,500	\$732,000	\$79,500	\$0	\$0
Development - PA1					
01722 PA1 NHB4 ORCHARD HILLS RW	\$27,915	\$566,500	\$0	\$0	\$27,915
07173 PA1 PORTOLA PKWY SEWER REPLACEMENT	\$52,112	\$744,700	\$0	\$0	\$52,112
	\$80,026	\$1,311,200	\$0	\$0	\$80,026
Development - PA40					
03734 PA40 TRAVELAND FACILITIES-RW	\$34,800	\$447,700	\$0	\$0	\$34,800
	\$34,800	\$447,700	\$0	\$0	\$34,800
Development - PA51					
01103 PA51 MASTER FACILITIES-RW	\$392,459	\$4,345,000	\$0	\$0	\$392,459
01466 PA51 MASTER FACILITIES-DW	\$353,100	\$4,290,500	\$0	\$0	\$353,100
01642 PA51 MASTER FACILITIES-SS	\$201,000	\$2,405,000	\$0	\$0	\$201,000
10107 PA51 REACH B SOUTH 12" SEWER FROM BARRANCA TO 5-FWY	\$230,769	\$2,500,000	\$0	\$0	\$230,769
10426 PA6 NB5BC B ST 6 RW PHASE 2	\$15,541	\$81,000	\$0	\$0	\$15,541
10574 PA51 MARINE WAY AT OCTA 18 SS	\$637,848	\$970,000	\$0	\$0	\$637,848

FY Exp Category		FY 20-21 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
10576	PA51 REACH B EAST 18 SS	\$1,740,778	\$2,580,000	\$0	\$0	\$1,740,778
10734	PA51 MARINE WY (BARRANCA TO OCTA) 16 RW	\$383,368	\$512,000	\$0	\$0	\$383,368
10796	PA51 D5 "P" ST & CHINON 12DW	\$92,718	\$147,000	\$0	\$0	\$92,718
10804	PA51 P ST & CADENCE 12_10RW	\$328,755	\$497,000	\$0	\$0	\$328,755
10860	PA51 D5 MERIT 12_DW	\$47,595	\$72,000	\$0	\$0	\$47,595
10861	PA51 D5 MERIT 12_10_RW	\$200,942	\$312,000	\$0	\$0	\$200,942
10862	PA51 D5 BB ST 12 RW	\$184,883	\$297,000	\$0	\$0	\$184,883
10863	PA51 D5 ASTOR 12DW	\$92,718	\$147,000	\$0	\$0	\$92,718
10864	PA51 D5 ASTOR 10RW	\$248,238	\$342,000	\$0	\$0	\$248,238
10865	PA51 D5 E ST 12RW	\$108,686	\$181,000	\$0	\$0	\$108,686
10867	PA1 OH NB3 FRAMEWORK 6RW	\$64,165	\$126,000	\$0	\$0	\$64,165
10868	PA51 D6 P ST 18SS	\$354,929	\$542,000	\$0	\$0	\$354,929
10875	PA51 D5 F ST N ST 12DW	\$100,933	\$157,000	\$0	\$0	\$100,933
10878	PA51 D5 F ST N ST 12_10RW	\$204,100	\$317,000	\$0	\$0	\$204,100
11176	PA51 D6 MARINE AND ALTON 12DW	\$98,244	\$468,000	\$0	\$0	\$98,244
11177	PA51 D6 MARINE AND ALTON 16RW	\$158,572	\$758,000	\$0	\$0	\$158,572
		\$6,240,342	\$22,046,500	\$0	\$0	\$6,240,342
Development - PA9B						
01762	PA9B PHASE 5 GATEWAY PARK RW PIPES	\$51,203	\$506,100	\$0	\$0	\$51,203
		\$51,203	\$506,100	\$0	\$0	\$51,203
Development - SHII						
07136	SANTIAGO HILLS II DOMESTIC WATER BPS	\$13,273	\$3,165,900	\$0	\$0	\$13,273
07138	SANTIAGO HILLS II DOMESTIC WATER RESERVOIR	\$23,294	\$10,263,800	\$0	\$0	\$23,294
07139	SANTIAGO HILLS II RECYCLED WATER BPS	\$13,273	\$3,165,900	\$0	\$0	\$13,273
07376	SHII PH1 D ST (FROM SANTIAGO TO B ST) 12 DW	\$2,204	\$176,000	\$0	\$0	\$2,204
07377	SHII PH1 D ST (FROM SANTIAGO TO B ST) 6 RW	\$2,057	\$162,800	\$0	\$0	\$2,057
07378	SHII PH2 B/F ST (FROM C ST TO Z5 RES) 12 DW	\$18,492	\$974,000	\$0	\$0	\$18,492

FY Exp Category	FY 20-21 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
07379 SHII PH2 A ST (FROM SANTIAGO TO B ST) 12 SS	\$4,131	\$205,000	\$0	\$0	\$4,131
07380 SHII PH2 A/B/F ST (TR 17995) 6 AND 8 RW	\$9,443	\$487,000	\$0	\$0	\$9,443
07451 SHII SANTIAGO CYN (FROM D ST TO A ST) 12 DW	\$7,039	\$1,126,900	\$0	\$0	\$7,039
07452 SHII CANYON VIEW (AT JAMBOREE RD) 15 SS	\$3,167	\$259,600	\$0	\$0	\$3,167
07453 SHII SANTIAGO CYN AND JAMBOREE 6 8 12 16 RW	\$13,645	\$2,228,300	\$0	\$0	\$13,645
07484 SHII SOUTH TR 16199 15 AND 12 SS	\$7,918	\$668,000	\$0	\$0	\$7,918
07486 SHII SOUTH TR 16199 12 8 AND 6 RW	\$9,650	\$808,000	\$0	\$0	\$9,650
	\$127,585	\$23,691,200	\$0	\$0	\$127,585
General Plant					
11204 GP_Dep 250_FY 20_21	\$328,500	\$328,500	\$320,945	\$6,242	\$1,314
11205 GP_Dep 515_FY 20_21	\$104,000	\$104,000	\$101,608	\$1,976	\$416
11206 GP_Dep 600_FY 20_21	\$264,200	\$264,200	\$258,123	\$5,020	\$1,057
11208 GP_Dep 870_FY 20_21	\$1,339,500	\$1,339,500	\$1,308,692	\$25,451	\$5,358
	\$2,036,200	\$2,036,200	\$1,989,367	\$38,688	\$8,145
Nonpotable Storage					
03808 SYPHON RESERVOIR IMPROVEMENTS	\$1,647,267	\$75,000,000	\$0	\$1,207,447	\$439,820
04388 EASTWOOD RW PUMP STATION ZONE A TO SYPHON	\$544,327	\$2,989,500	\$0	\$398,992	\$145,335
11168 LAKE FOREST ZONE C RECYCLED WATER PUMP STATION	\$2,144,338	\$3,801,600	\$0	\$1,573,944	\$570,394
11236 LAKE FOREST ZONE C RECYCLED WATER PIPELINE	\$419,202	\$950,400	\$0	\$307,694	\$111,508
	\$4,755,134	\$82,741,500	\$0	\$3,488,077	\$1,267,057
OCSD - CORF - Solids Lease					
10500 OCSD EQUITY LONG TERM CAPITAL PROGRAM 2018 TO 2050	\$3,349,625	\$16,742,000	\$0	\$2,736,644	\$612,981
10502 OCSD CORF LONG TERM CAPITAL PROGRAM 2018 TO 2050	\$6,653,125	\$210,379,000	\$4,836,822	\$1,483,647	\$332,656
	\$10,002,750	\$227,121,000	\$4,836,822	\$4,220,291	\$945,638
OCWD Annexation					
10503 OCWD ANNEXATION LONG TERM CAPITAL PROGRAM 2018 TO	\$616,200	\$22,861,400	\$0	\$493,576	\$122,624
	\$616,200	\$22,861,400	\$0	\$493,576	\$122,624

FY Exp Category		FY 20-21 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
Operational						
01398	SANTIAGO CYN AREA PS IMPROVMENTS	\$5,110,039	\$6,613,000	\$0	\$4,093,141	\$1,016,898
01813	SANTIAGO DAM SLOPED OUTLET	\$294,411	\$15,417,000	\$0	\$215,803	\$78,608
05406	NTS-EL MODENA MODS	\$19,360	\$166,200	\$0	\$15,507	\$3,853
05520	ACCESS FOR 4 SS REACHES	\$42,200	\$368,000	\$42,200	\$0	\$0
06160	CENTRALIZED CONTROL ROOM AT MWRP-DW	\$52,498	\$170,000	\$0	\$42,051	\$10,447
06161	CENTRALIZED CONTROL ROOM AT MWRP-SS	\$53,731	\$170,000	\$0	\$43,844	\$9,886
06162	CP IMP-CRYSTAL COVE RECT-DW	\$34,518	\$138,800	\$34,518	\$0	\$0
06163	CP IMP-CRYSTAL COVE RECT-RW	\$29,923	\$133,300	\$29,923	\$0	\$0
06214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	\$691,448	\$2,976,900	\$0	\$553,850	\$137,598
07096	OSO RES STRAINER AND METER	\$124,872	\$375,100	\$0	\$91,531	\$33,341
07887	IRVINE LAKE SERVICE IMPROVEMENT	\$54,960	\$229,000	\$0	\$44,023	\$10,937
07890	MWRP HEADWORKS PLATFORMS	\$922	\$175,000	\$0	\$752	\$170
07891	MWRP HEADWORKS SCREENING AREA DIVERTER CHUTE	\$4,235	\$180,500	\$0	\$3,455	\$779
07900	MWRP DUMP STATION IMPROVEMENTS	\$141,500	\$291,500	\$0	\$115,464	\$26,036
07907	LAKE FOREST ZONE 5 WEST BPS UPGRADES	\$186,935	\$1,302,200	\$0	\$149,735	\$37,200
10101	SANTIAGO CANYON FLEMING STORAGE AND PUMP STATION I	\$2,318,834	\$9,001,000	\$0	\$2,318,834	\$0
10379	SAN JOAQUIN RESERVOIR FILTRATION FACILITY	\$2,098,688	\$3,654,000	\$0	\$1,540,437	\$558,251
10477	GEN SYS MODS 20/21-DW	\$251,800	\$251,800	\$0	\$201,692	\$50,108
10478	GEN SYS MODS 20/21-RW	\$118,000	\$118,000	\$0	\$86,612	\$31,388
10488	GEN SYS MODS 20/21-SS	\$330,000	\$330,000	\$330,000	\$0	\$0
10557	NTS GENERAL SYSTEM MODIFICATIONS 20/21	\$121,000	\$121,000	\$0	\$96,921	\$24,079
10559	BAKER WTP FENCING & ACCESS IMPROVEMENTS & OUTFALL R	\$84,318	\$1,422,500	\$0	\$67,539	\$16,779
11123	EROSION OVR SS NEAR SERRANO CK	\$229,000	\$323,000	\$229,000	\$0	\$0
11146	SAN JOAQUIN MARSH POLYPHAGOUS SHOTHOLE BORER MITI	\$52,174	\$100,000	\$0	\$41,791	\$10,383
11151	PETERS CANYON WATER CAPTURE AND REUSE PIPELINE IMRO	\$114,783	\$220,000	\$0	\$91,941	\$22,842
11154	RADIO TOWER IMP-DW	\$43,500	\$187,000	\$43,500	\$0	\$0
11156	RADIO TOWER IMP-SS	\$43,500	\$192,000	\$43,500	\$0	\$0

FY Exp Category		FY 20-21 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
11157	RADIO TOWER IMP-RW	\$43,500	\$192,000	\$43,500	\$0	\$0
11170	RATTLESNAKE RESERVOIR FILTRATION	\$1,058,098	\$3,055,000	\$0	\$776,644	\$281,454
11172	CANADA LIFT STATION IMPROVEMENTS	\$733,172	\$2,060,000	\$0	\$599,002	\$134,171
11193	SAFETY- DISTRICT-WIDE FALL PROTECTION ASSESSMENT-DW	\$117,000	\$127,000	\$117,000	\$0	\$0
11194	SAFETY- MWRP MBR FALL PROTECTION IMP	\$99,077	\$262,000	\$99,077	\$0	\$0
11195	SAFETY- DISTRICT-WIDE FALL PROTECTION ASSESSMENT-SS	\$116,000	\$127,000	\$116,000	\$0	\$0
11209	BAKER WTP HCI SCRUBBER	\$77,846	\$218,000	\$0	\$62,355	\$15,491
		\$14,891,841	\$50,667,800	\$1,128,218	\$11,252,924	\$2,510,698
Planning						
07082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	\$27,778	\$250,000	\$0	\$22,250	\$5,528
07083	POTABLE REUSE ALTERNATIVES ANALYSIS SS	\$27,778	\$250,000	\$0	\$22,667	\$5,111
07084	REPLACEMENT PLANNING DW	\$60,000	\$440,000	\$60,000	\$0	\$0
07085	REPLACEMENT PLANNING RW	\$60,000	\$440,000	\$60,000	\$0	\$0
07895	NTS MASTER PLAN UPDATE	\$92,308	\$100,000	\$0	\$73,938	\$18,369
07897	SOUTH SAN DIEGO CREEK RUNOFF DIVERSION STUDY	\$4,445	\$100,000	\$0	\$3,560	\$884
10452	CAPITAL PLANNING SUPPORT 20/21 DW	\$400,000	\$400,000	\$0	\$320,400	\$79,600
10454	CAPITAL PLANNING SUPPORT 20/21 RW	\$400,000	\$400,000	\$0	\$293,600	\$106,400
10456	CAPITAL PLANNING SUPPORT 20/21 SS	\$400,000	\$400,000	\$0	\$326,800	\$73,200
11171	TREATMENT EVALUATION FOR WELLS OPA-1 AND ET-1 AND S	\$71,500	\$143,000	\$0	\$57,272	\$14,229
11178	ASSET MANAGEMENT PLAN DW	\$250,000	\$250,000	\$0	\$200,250	\$49,750
11179	ASSET MANAGEMENT PLAN SS	\$250,000	\$250,000	\$0	\$204,250	\$45,750
11183	NON-POTABLE WATER STUDIES 20/21	\$40,000	\$40,000	\$0	\$29,360	\$10,640
		\$2,083,808	\$3,463,000	\$120,000	\$1,554,347	\$409,461
Replacement - Facilities						
01257	OFFICE SPACE IMPROVEMENTS-RW	\$31,250	\$177,500	\$31,250	\$0	\$0
01336	OFFICE SPACE IMPROVEMENTS-DW	\$100,500	\$471,000	\$100,500	\$0	\$0
01414	CP IMP-SAND CYN 16" DW ANODE REPLACE	\$45,500	\$243,100	\$45,500	\$0	\$0

FY Exp Category		FY 20-21 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
01549	OFFICE SPACE IMPROVEMENTS-SS	\$45,750	\$441,500	\$45,750	\$0	\$0
03750	SOCWA ETM PROTECTION-TRAIL BRIDGE CROSSING (PC 21)	\$386,706	\$1,065,000	\$386,706	\$0	\$0
03780	SAN JOAQUIN RESERVOIR LINER REPLACEMENT	\$151,470	\$2,807,900	\$151,470	\$0	\$0
05476	ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION	\$4,181,229	\$11,481,750	\$4,181,229	\$0	\$0
05761	15 MG ZONE 1 RESERVOIR INTERIOR COATING	\$1,147,496	\$2,748,500	\$1,147,496	\$0	\$0
06159	CP IMP-CANADA RD JOINT BONDING	\$59,462	\$233,200	\$59,462	\$0	\$0
06164	CP IMP-CULVER CP5 RECT AND ANODE BED REPLACEMENT	\$59,462	\$244,200	\$59,462	\$0	\$0
07170	UNIVERSITY DR WIDENING APPURTENANCE RELOC-DW	\$5,254	\$248,000	\$3,940	\$1,313	\$0
07171	UNIVERSITY DR WIDENING APPURTENANCE RELOC-SS	\$5,254	\$248,000	\$2,627	\$2,627	\$0
07172	UNIVERSITY DR WIDENING APPURTENANCE RELOC-RW	\$5,254	\$248,000	\$1,313	\$3,940	\$0
07885	SS REHAB-CALCIUM REMOVAL	\$75,000	\$440,000	\$75,000	\$0	\$0
07886	SEWER SIPHON REHABILITATION	\$4,860,473	\$6,632,000	\$4,860,473	\$0	\$0
07892	MWRP FILTER VALVES AND GATE REPLACEMENT	\$267,078	\$466,000	\$267,078	\$0	\$0
07898	PLC REPLACEMENT-DW	\$75,556	\$440,000	\$75,556	\$0	\$0
07899	PLC REPLACEMENT-RW	\$75,556	\$440,000	\$75,556	\$0	\$0
10535	MWRP TRANSFORMER T1 REPLACEMENT	\$195,138	\$543,000	\$195,138	\$0	\$0
10537	MASON PARK DW PIPE REPLACEMENT	\$106,500	\$531,000	\$106,500	\$0	\$0
10542	VAULT LID REPLACEMENT-IRV BLVD	\$204,339	\$1,078,350	\$204,339	\$0	\$0
10580	SUNNYHILL RW PIPE REHAB	\$19,893	\$392,700	\$19,893	\$0	\$0
10581	SOCWA ALISO CREEK OCEAN OUTFALL SEAL REPLACEMENT AN	\$4,800	\$50,000	\$4,800	\$0	\$0
10646	LAWRP TFC MEDIA REPLACEMENT AND REPAIR	\$43,841	\$378,000	\$43,841	\$0	\$0
10999	BONITA CANYON ZONE D to B PRS SUPPLY LINE REPLACEMENT	\$7,466	\$325,000	\$7,466	\$0	\$0
11118	VALVE REPLACE-DW	\$297,100	\$354,200	\$297,100	\$0	\$0
11120	VALVE REPLACE-RW	\$297,100	\$354,200	\$297,100	\$0	\$0
11121	SS REHAB-PELICAN HILLS GOLF CLUB	\$22,623	\$531,300	\$22,623	\$0	\$0
11139	VAULT LID REPLACEMENT-PH2 DW	\$320,600	\$402,200	\$320,600	\$0	\$0
11142	NTS-WOODBRIDGE NTS RELOCATION	\$114,546	\$120,000	\$0	\$91,751	\$22,795
11145	VAULT LID REPLACEMENT-PH2 RW	\$185,000	\$234,000	\$185,000	\$0	\$0

FY Exp Category	FY 20-21 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
11147 VAULT LID REPLACEMENT-PH2 SS	\$197,000	\$234,000	\$197,000	\$0	\$0
11164 SAND CANYON SERVER ROOM AIR CONDITIONING REPLACEM	\$27,500	\$110,000	\$0	\$22,028	\$5,473
11166 SAND CANYON SERVER ROOM AIR CONDITIONING REPLACEM	\$18,750	\$75,000	\$0	\$13,763	\$4,988
11167 SAND CANYON SERVER ROOM AIR CONDITIONING REPLACEM	\$18,750	\$75,000	\$0	\$15,319	\$3,431
11169 LAKE FOREST ZONE B TO C BOOSTER PUMP STATION IMPROVE	\$342,545	\$1,905,000	\$0	\$251,428	\$91,117
11174 PLC REPLACEMENT-SS	\$116,848	\$220,000	\$116,848	\$0	\$0
11189 SOCWA ETM AVAC VALVE REPLACEMENT REACHES D AND E (P	\$85,823	\$1,000,000	\$85,823	\$0	\$0
11218 LAKE FOREST WELL NO. 2 TREATMENT & BYPASS SEWER CON	\$420,117	\$587,000	\$0	\$336,514	\$83,603
11227 TCWD EL TORO LIFT STATION PUMP & MOTOR REPLACEMENT	\$31,515	\$2,630,000	\$31,515	\$0	\$0
	\$14,656,042	\$41,205,600	\$13,705,953	\$738,682	\$211,406

Replacement - FY System

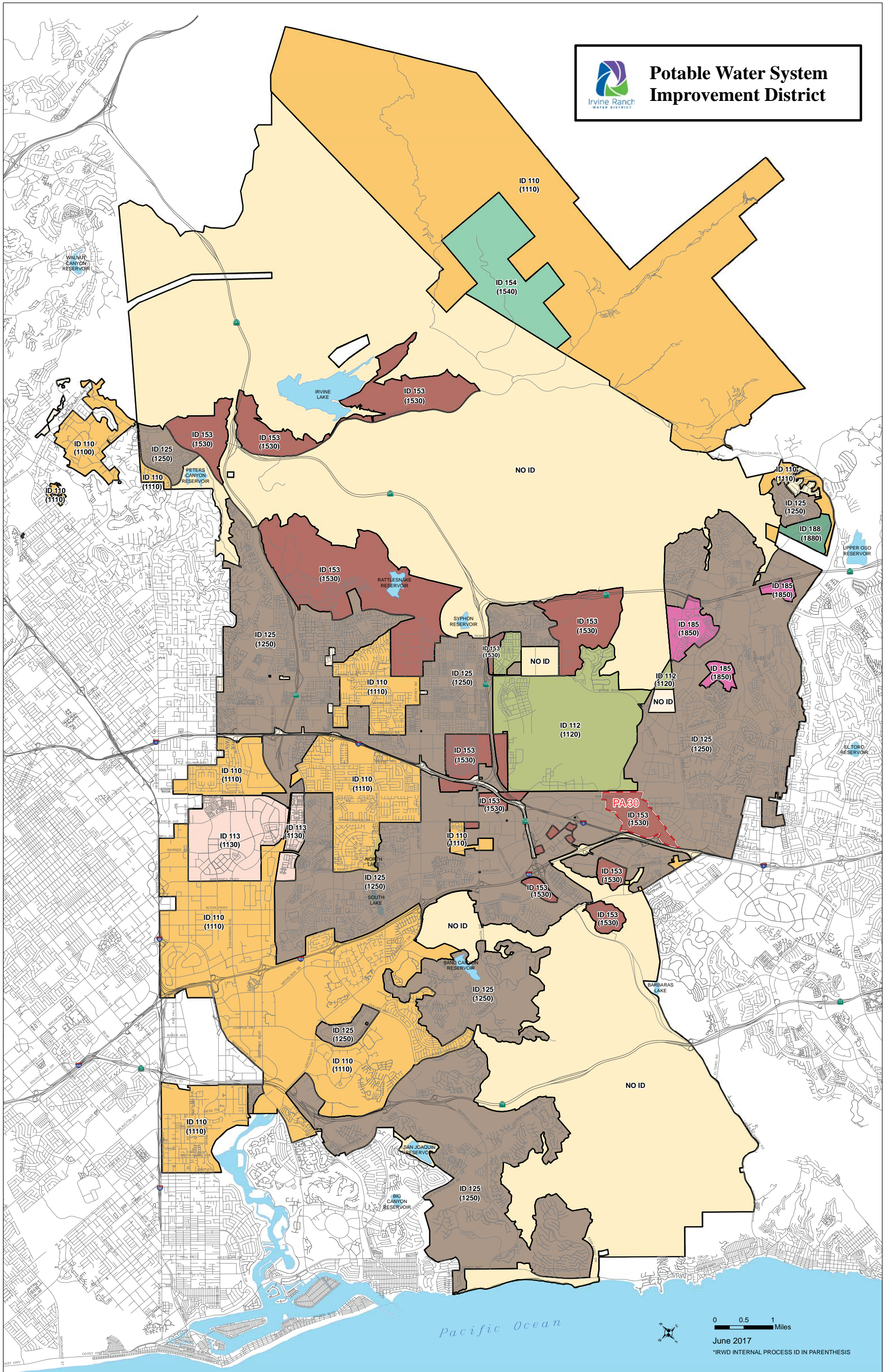
10462 MECH-ELEC SYS REPLACEMENT 20/21-DW	\$950,000	\$950,000	\$950,000	\$0	\$0
10463 MECH-ELEC SYS REPLACEMENT 20/21-RW	\$660,000	\$660,000	\$660,000	\$0	\$0
10464 MECH-ELEC SYS REPLACEMENT 20/21-SS	\$550,000	\$550,000	\$550,000	\$0	\$0
10465 MWRP SYS REPLACEMENTS 20/21	\$450,000	\$450,000	\$450,000	\$0	\$0
10473 RAISE SYSTEM VALVES 20/21 UNDER RA-DW	\$25,000	\$577,500	\$25,000	\$0	\$0
10474 RAISE SYSTEM VALVES 20/21 UNDER RA-RW	\$138,600	\$138,600	\$138,600	\$0	\$0
10480 SERVICE LINE-VALVE-MAIN REPLACEMENT 20/21-DW	\$3,318,624	\$3,318,624	\$3,318,624	\$0	\$0
10482 SERVICE LINE-VALVE-MAIN REPLACEMENT 20/21-RW	\$511,992	\$511,992	\$511,992	\$0	\$0
10483 SEWER LATERAL-MAIN REPLACEMENT 20/21	\$324,208	\$324,208	\$324,208	\$0	\$0
10489 LAWRP SYSTEM REPLACEMENTS 20/21	\$138,000	\$138,000	\$138,000	\$0	\$0
10519 ASPHALT REPLACEMENT 20/21-DW	\$220,000	\$220,000	\$220,000	\$0	\$0
10520 ASPHALT REPLACEMENT 20/21-RW	\$220,000	\$220,000	\$220,000	\$0	\$0
10521 ASPHALT REPLACEMENT 20/21-SS	\$110,000	\$110,000	\$110,000	\$0	\$0
10528 INDUSTRIAL COATINGS REPLACEMENT 20/21-DW	\$220,000	\$220,000	\$220,000	\$0	\$0
10529 INDUSTRIAL COATINGS REPLACEMENT 20/21-RW	\$220,000	\$220,000	\$220,000	\$0	\$0
10531 INDUSTRIAL COATINGS REPLACEMENT 20/21-SS	\$110,000	\$110,000	\$110,000	\$0	\$0
10632 METER REPLACEMENT 20/21-DW	\$987,000	\$987,000	\$987,000	\$0	\$0

FY Exp Category		FY 20-21 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
10635	METER REPLACEMENT 20/21-RW	\$276,500	\$276,500	\$276,500	\$0	\$0
11109	RAISE MANHOLES TO GRADE 20/21 UNDER RA	\$346,500	\$346,500	\$346,500	\$0	\$0
		\$9,776,424	\$10,328,924	\$9,776,424	\$0	\$0
Replacement-Business Software						
03566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENT-DW	\$234,949	\$2,682,100	\$0	\$188,194	\$46,755
03567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENT-SS	\$234,949	\$2,682,100	\$0	\$191,718	\$43,231
10543	MIGRATE EMAIL TO MS CLOUD DW	\$28,050	\$93,500	\$28,050	\$0	\$0
10544	MIGRATE EMAIL TO MS CLOUD SS	\$28,050	\$93,500	\$28,050	\$0	\$0
10546	CC&B SOFTWARE UPGRADE DW	\$657,461	\$1,424,500	\$657,461	\$0	\$0
10547	CC&B SOFTWARE UPGRADE SS	\$657,461	\$1,424,500	\$657,461	\$0	\$0
		\$1,840,920	\$8,400,200	\$1,371,023	\$379,912	\$89,985
Sewage Treatment						
01477	LAWRP TREATMENT PROCESS MODERNIZATION	\$734,561	\$20,975,000	\$734,561	\$0	\$0
05427	WATER RECYCLING TRT PLANT MSTR PLAN UPDATE-SS	\$80,736	\$1,130,300	\$0	\$65,880	\$14,855
07141	WATER RECYCLING TRT PLANT MSTR PLAN UPDATE-RW	\$41,361	\$558,800	\$0	\$30,318	\$11,043
		\$856,657	\$22,664,100	\$734,561	\$96,198	\$25,899
Solids Handling						
04286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	\$5,426,030	\$238,542,100	\$2,468,844	\$2,528,530	\$428,656
		\$5,426,030	\$238,542,100	\$2,468,844	\$2,528,530	\$428,656
Water Banking						
05499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	\$1,590,800	\$1,590,800	\$0	\$1,274,231	\$316,569
10484	WATER RELIABILITY PLANNING 20/21	\$137,500	\$137,500	\$0	\$110,138	\$27,363
10854	KERN FAN GROUNDWATER STORAGE	\$13,522,300	\$93,838,000	\$0	\$10,831,362	\$2,690,938
11132	WATER SUPPLY RELIABILITY AGREEMENTS 20/22	\$220,000	\$440,000	\$0	\$176,220	\$43,780
		\$15,470,600	\$96,006,300	\$0	\$12,391,951	\$3,078,649
Water Resources						
01100	LAKE FOREST WELL 1 DRILLING	\$44,637	\$1,417,600	\$0	\$35,755	\$8,883

FY Exp Category	FY 20-21 Direct	Total Direct	FY Replacement	FY Developed	FY Developing
01402 WELLS 51/52/TUSTIN LEGACY TREATMENT ALTERNATIVES STU	\$34,673	\$133,100	\$0	\$27,773	\$6,900
06176 FUTURE GROUNDWATER SUPPLY	\$255,362	\$71,377,500	\$0	\$204,545	\$50,817
07140 TUSTIN LEGACY RED HILL WELL DRILLING AND EQUIPPING	\$38,939	\$4,832,640	\$0	\$31,190	\$7,749
07682 PILOT SOUTH BASIN GROUNDWATER CLEANUP	\$1,127,500	\$1,127,500	\$0	\$903,128	\$224,373
10061 SCE-IRWD WATER-ENERGY PILOT PHASE 2	\$182,160	\$379,500	\$0	\$145,910	\$36,250
10479 WATER AND ENERGY PLANNING STUDIES DW 20/21	\$126,500	\$126,500	\$0	\$101,327	\$25,174
10558 BAKER PIPELINE CAPACITY PURCHASE	\$14,300	\$357,500	\$0	\$11,454	\$2,846
11186 RW CONVERSION IMPROVEMENTS FOR OFF-SITE 20/21	\$503,500	\$503,500	\$503,500	\$0	\$0
	\$2,327,571	\$80,255,340	\$503,500	\$1,461,081	\$362,990
Well Rehabilitation					
07087 WELL REHAB-DRWF 10	\$613,236	\$770,000	\$613,236	\$0	\$0
07092 WELL REHAB-DRWF 4	\$120,318	\$770,000	\$120,318	\$0	\$0
10098 WELL REHAB-DRWF 12	\$141,929	\$770,000	\$141,929	\$0	\$0
10466 WELL MAINTENANCE AND REHABILITATION 20/21-DW	\$360,000	\$360,000	\$360,000	\$0	\$0
11126 WELL MAINTENANCE AND REHABILITATION 20/21-RW	\$90,000	\$90,000	\$90,000	\$0	\$0
11137 WELL REHAB-IDP 76	\$695,692	\$770,000	\$695,692	\$0	\$0
	\$2,021,175	\$3,530,000	\$2,021,175	\$0	\$0
	\$93,766,372	\$940,886,864	\$38,735,387	\$38,830,366	\$16,200,619



Potable Water System Improvement District



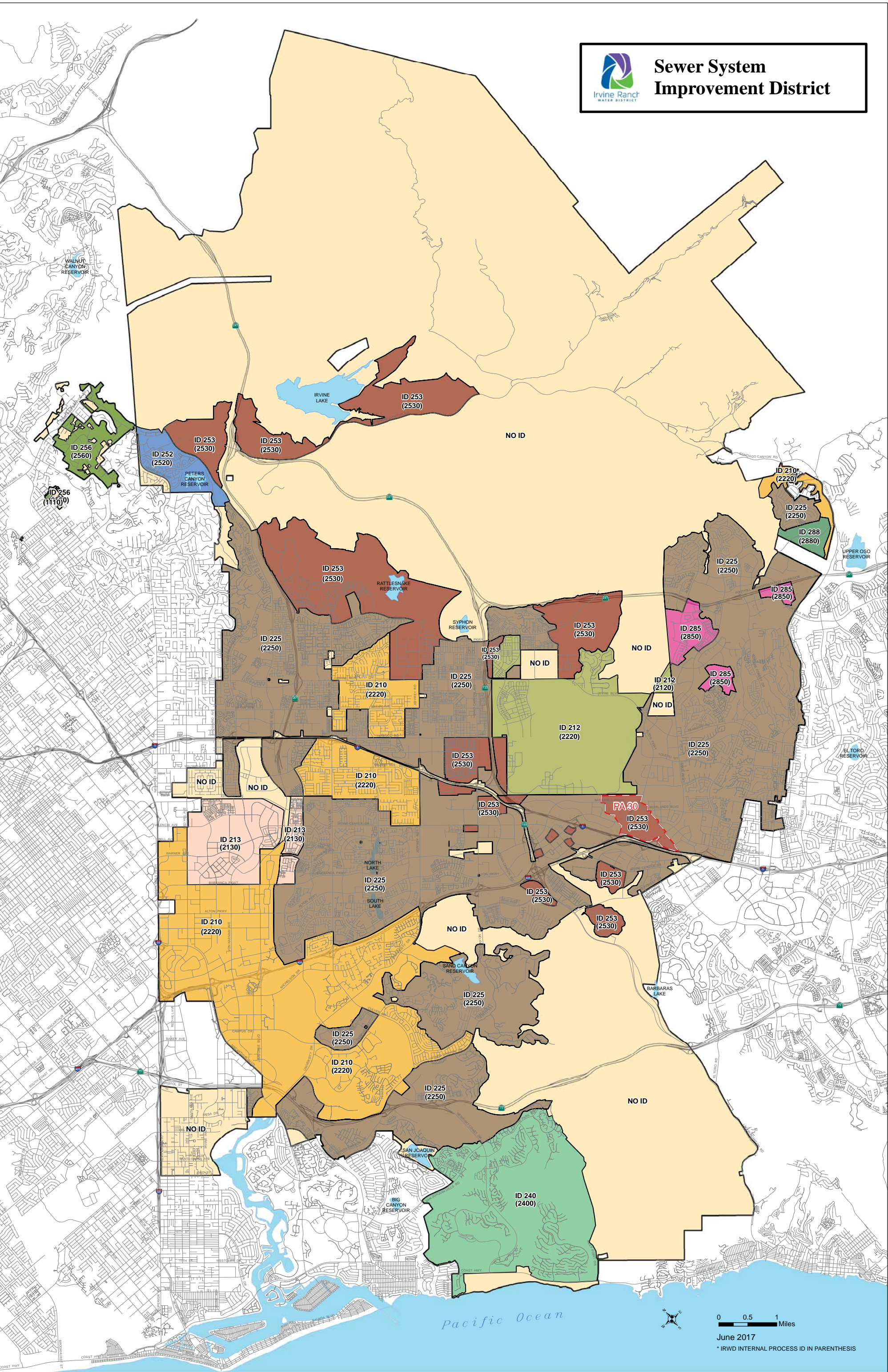
0 0.5 1 Miles

June 2017

*IRWD INTERNAL PROCESS ID IN PARENTHESIS



Sewer System Improvement District



0 0.5 1 Miles

June 2017

* IRWD INTERNAL PROCESS ID IN PARENTHESIS