

ORANGE COUNTY WATER DISTRICT ACT

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ORANGE COUNTY WATER DISTRICT ACT

Current through the 1995 portion of the 1995-96 legislative sessions.

THE PEOPLE OF THE STATE OF CALIFORNIA DO ENACT AS FOLLOWS:

Section 1. Creation; name of district; boundaries; divisions

- (a) A district is hereby created to be known and designated as "Orange County Water District," located entirely within Orange County, California, including and comprising all of the land within the exterior boundaries of the district, which boundaries are described as follows:

Beginning at the intersection of the boundary line between Los Angeles and Orange Counties, as officially established by the California Legislature in 1919, see Chapter 470 of the 1919 Statutes and Amendments to the codes, or Sections 3927 and 3938 of the Political Code as enacted in 1919, with the high-tide line of the Pacific Ocean; thence northerly along said boundary line the following courses and distances: North 33 degrees 00' 00" East to Station 1. (Los Angeles-Orange County); thence North 57 degrees 10' 40" East 8238.78 feet; thence North 2 degrees 48' 35" West 2207.94 feet; thence North 16 degrees 46' 45" West 1444.82 feet; thence North 27 degrees 12' 00" West 2106.10 feet; thence North 31 degrees 22' 50" West 1296.25 feet; thence North 27 degrees 55' 55" East 8375.40 feet; thence North 11 degrees 36' 55" East 2241.41 feet; thence North 39 degrees 48' 20" East 5650.97 feet; thence North 59 degrees 07' 40" East 3391.48 feet; thence North 0 degrees 11' 50" West 4330.76 feet; thence North 45 degrees 31' 59" East 972.19 feet more or less; then North 17 degrees 58' 52" East 132.27 feet to the beginning of a tangent curve concave Westerly and having a radius of 5,200 feet; thence Northerly along said curve through a central angle of 03 degrees 10' 38" an arc distance of 288.36 feet to a point on the Southerly right-of-way line of "Moody Creek Channel" (100.00 feet wide) as conveyed to the Orange County Flood Control District by deed recorded in Book 3632, Page 36 of Official Records of Orange County, State of California; said point also being on a no-tangent curve concave Southerly and having a radius of 950.00 feet, a radial line from said point bears South 30 degrees 16' 03" East; thence Easterly along said Southerly right-of-way line and along said curve through a central angle of 26 degrees 34' 39" an arc distance of 440.67 feet more or less; thence North 45 degrees 31' 59" East 144.84 feet; thence North 0 degrees 11' 10" West 3996.39 feet; thence North 89 degrees 37' 10" East 1320.92 feet; thence North 0 degrees 23' 25" West 1318.92 feet; thence North 89 degrees 34' 55" East 1320.00 feet; thence North 0 degrees 25' 25" West 1341.64 feet; thence North 89 degrees 21' 35" East 1303.75 feet; thence North 0 degrees 47' 15" West 1850.84 feet; thence North 89 degrees 35' 45" East 1320.65 feet; thence North 0 degrees 23' 45" West 1316.40 feet; thence North 89 degrees 26' 40" East 1318.50 feet; thence North 1 degrees 04' 00" West 1323.56 feet; thence North 89 degrees 39' 30" East 2706.72 feet; thence North 0 degrees 26' 30" West 2642.38 feet; thence North 89 degrees 35' 50" East 5282.00 feet; thence North 0 degrees 34' 20" West 2700.56 feet; thence North 89 degrees 36' 50" East 2639.57 feet; thence North 0 degrees 33' 05" West 2640.34 feet; thence North 89 degrees 37' 10" East 2674.26 feet; thence North 0

degrees 31' 50" West 2639.37 feet; thence North 89 degrees 35' 50" East 2665.05 feet; thence North 0 degrees 33' 05" West 2637.57 feet; thence North 89 degrees 37' 10" East 2671.99 feet to the Southwest corner of Section 18, Township 3 South, Range 10 West, San Bernardino Base and Meridian; thence northerly along the West line of said Section 18 one-quarter mile to the Northwest corner of the Southwest one-quarter of the Southwest one-quarter of said Section 18; thence leaving said boundary line between Los Angeles and Orange Counties and following the exterior boundary of the City of Fullerton the following courses and distances: easterly 8,145 feet along the North line of the South one-half of the South one-half of said Section 18 and Section 17, Township 3 South, Range 10 West, San Bernardino Base and Meridian; thence North 26 degrees 00' 00" West 170.00 feet, North 46 degrees 59' 35" East 824.88 feet; North 81 degrees 59' 42" East 36.26 feet, more or less, to its intersection with the curved centerline of Euclid Avenue (formerly Nicolas Avenue), 60 feet wide, said curve being concave northeasterly and having a radius of 1,200 feet, a radial to said point of intersection bears South 63 degrees 08' 55" West; thence through a central angle of 10 degrees 48' 38" northwesterly along said curved centerline 226.42 feet, a radial to said point bears South 73 degrees 57' 33" West; thence North 83 degrees 12' 00" East 377.39 feet; South 27 degrees 22' 00" East 178.44 feet; South 35 degrees 46' 00" East 181.17 feet; North 81 degrees 07' 38" East 205.29 feet; North 24 degrees 30' 00" East 198.00 feet; North 84 degrees 45' 00" East 300.00 feet; South 80 degrees 35' 00" East 61.10 feet; South 56 degrees 45' 00" East 45.00 feet; South 81 degrees 28' 00" East 288.00 feet; South 64 degrees 50' 00" East 254.00 feet; North 81 degrees 02' 27" East 169.92 feet to its intersection with the westerly line of Section 16 Township 3 South, Range 10 West, San Bernardino Base and Meridian; thence North 0 degrees 53' 33" East 541.42 feet; North 0 degrees 52' 52" East 1320.36 feet; South 89 degrees 07' 33" East 2641.10 feet; North 0 degrees 51' 35" East 373.17 feet; South 89 degrees 10' 28" East 51.52 feet to a point in the centerline of Harbor Boulevard, being a curve concave northeasterly and having a radius of 1700.00 feet, a radial through said point bearing South 76 degrees 42' 39" West; thence along said centerline through a central angle of 17 degrees 43' 34" southeasterly an arc distance of 525.94 feet; thence tangent to said curve, continuing along said centerline, South 31 degrees 00' 55" East 125.32 feet to the beginning of a tangent curve concave southwesterly and having a radius of 1500.00 feet; thence along said curve through a central angle of 21 degrees 25' 00" southeasterly an arc distance of 560.69 feet; thence continuing along said centerline South 9 degrees 35' 55" East 226.85 feet; North 80 degrees 22' 05" East 269.44 feet; thence North 9 degrees 37' 55" West 324.50 feet; South 80 degrees 22' 05" West 185 feet; North 9 degrees 37' 55" West 25.00 feet; North 20 degrees 34' 25" East 597.16 feet; North 1 degrees 35" East 696.84 feet; thence westerly 800 feet, more or less, to the Northwest corner of the South one-half of the North one-half of the Northeast one-quarter of Section 16, Township 3 South, Range 10 West, San Bernardino Base and Meridian; thence northerly 660 feet, more or less, along the centerline of Harbor Boulevard (formerly North Fullerton Road) to the Northwest corner of the Northeast one-quarter of said Section 16, said point also being the Southwest corner of the Southeast one-quarter of Section 9, Township 3 South, Range 10 West, San Bernardino Base and Meridian; thence continuing along the West line of said Southeast one-quarter of Section 9, northerly 1320.65 feet, more or less, to the

Northwest corner of the Southwest one-quarter of said Southeast one-quarter of Section 9; thence along the North line of said Southwest one-quarter of the Southeast one-quarter of Section 9, easterly 1320 feet, more or less, to the Northeast corner of said Southwest one-quarter of the Southeast one-quarter of Section 9; thence along the West line of the Northeast one-quarter of said Southeast one-quarter of Section 9, northerly 1320 feet, more or less, to the Northwest corner of said Northeast one-quarter of the Southeast one-quarter of Section 9; thence along the northerly line of said Southeast one-quarter of Section 9, easterly 1320.58 feet, more or less to the Northeast corner of said Southeast one-quarter of Section 9; thence along the East line of said Section 9, southerly 1320 feet, more or less to the Northeast corner of the Southeast one-quarter of the Southeast one-quarter of said Section 9; thence along the North line of the West one-half of the Southwest one-quarter of the Southwest one-quarter of Section 10, Township 3 South, Range 10 West, San Bernardino Base and Meridian, easterly 660 feet, more or less, to the Northeast corner thereof; thence along the East line of said West one-half of the Southwest one-quarter of the Southwest one-quarter of Section 10 and the southerly prolongation thereof, southerly 1350 feet, more or less, to a point on the southerly right-of-way line of Imperial Highway, 60 feet wide; thence along said southerly right-of-way line, South 88 degrees 28' 00" East 1980.00 feet, more or less, to a point 30 feet South of the Southeast corner of the Southwest one-quarter of said Section 10; thence along the East line of the West one-half of Section 15, Township 3 South, Range 10 West, San Bernardino Base and Meridian, southerly 3,300 feet, more or less, to the Northwest corner of the South one-half of the Northwest one-quarter of the Southeast one-quarter of said Section 15; thence South 89 degrees 34' 57" East 728.35 feet, more or less; thence South 0 degrees 25' 03" West 180.57 feet; South 89 degrees 34' 57" East 30.00 feet; South 0 degrees 25' 03" West 120.00 feet; South 60 degrees 12' 37" East 67.88 feet; South 40 degrees 51' 51" East 212.76 feet; South 46 degrees 41' 14" East 100.44 feet; South 56 degrees 28' 22" East 68.42 feet; South 64 degrees 23' 55" East 68.42 feet; South 72 degrees 19' 28" East 68.42 feet; South 80 degrees 34' 05" East 68.39 feet; South 89 degrees 56' 00" East 24.82 feet to the Southeast corner of the Northwest one-quarter of the Southeast one-quarter of said Section 15; thence along the South line of the North one-halves of the Southeast one-quarter of Section 15 and the Southwest one-quarter of Section 14, Township 3 South, Range 10 West, San Bernardino Base and Meridian, easterly 1721.49 feet, more or less, to its intersection with the centerline of Brea Boulevard; thence North 25 degrees 43' 30" East 222.61 feet; South 64 degrees 16' 30" East 467.50 feet; thence South 62 degrees 16' 30" East 262.50 feet; North 25 degrees 43' 30" East 125.00 feet to the South line of the North one-half of said Southwest one-quarter of Section 14; thence along the South line of the North one-half of the South one-half of said Section 14 easterly 3,990.09 feet, more or less, to the Southwest corner of the North one-half of the Southwest one-quarter of Section 13, Township 3 South, Range 10 West, San Bernardino Base and Meridian; thence North 2 degrees 06' 03" East 433.30 feet; South 53 degrees 03' 50" East 717.75 feet to a point on the South line of the North one-half of the Southwest one-quarter of said Section 13; thence along said South line easterly 713.66 feet, more or less; thence North 27 degrees 25' 41" West 253.30 feet; North 16 degrees 25' 08" East 958.97 feet; South 37 degrees 05' 52" West 1068.97 feet; North 37 degrees 31' 46" West 869.87

feet, more or less, North 25 degrees 43' 30" East 341.53 feet, more or less, to a point in the North line of the Southwest one-quarter of said Section 13; thence along said North line North 89 degrees 37' 33" East 1332.13 feet to a point in the South line of Imperial Highway, 100 feet wide, said point being on a nontangent curve concave northerly and having a radius of 3050.00 feet, a radial to said point bears South 8 degrees 02' 34" West; thence easterly along said curve, through a central angle of 8 degrees 02' 34" an arc distance of 428.14 feet; thence continuing along said South line of Imperial Highway North 89 degrees 37' 33" East 502.65 feet; North 89 degrees 27' 13" East 1319.29 feet to the East line of the Northwest one-quarter of the Southeast one-quarter of said Section 13; thence along said East line South 1290 feet to the Northeast corner of the Southwest one-quarter of the Southeast one-quarter of said Section 13; thence easterly one mile to the Northeast corner of the Southwest one-quarter of the Southeast one-quarter of Section 18, Township 3 South, Range 9 West, San Bernardino Base and Meridian; thence South one-quarter mile to the Southeast corner of said Southwest one-quarter of the Southeast one-quarter; thence East one-eighth mile to the southwest corner of the East one-half of the Southeast one-quarter of the Southeast one-quarter of said Section Eighteen (18); thence North one-quarter mile to the Northwest corner of said East one-half; thence East one-eighth mile to the Northeast corner of said East one-half; thence South one-eighth mile to the Northwest corner of the South one-half of the South one-half of the South one-half of fractional Section Seventeen (17), Township Three (3) South, Range 9 West, San Bernardino Base and Meridian; thence East along the North line of the said South one-half of the South one-half of the South one-half of said fractional Section Seventeen (17) to the East line of the Rancho San Juan Cajon de Santa Ana; thence northerly along the said East Rancho line to the Northwest corner of Block One (1) of Yorba Linda Tract as per map recorded in Book 5, pages 17 and 18 of Miscellaneous Maps, Records of Orange County, California; thence easterly along the northerly boundary of said Yorba Linda Tract to the Northeast corner of Lot One (1) in Block Two (2) of said tract; thence southerly along the East line of said Block 2 to an intersection with the westerly prolongation of the North line of Block 25, as shown on a map of Carlton, recorded in Book 29, pages 9 and 10, Miscellaneous Records of Los Angeles County, California, said intersection being on the southerly line of Wabash Avenue as shown on said map of Carlton; thence easterly along the southerly line of said Wabash Avenue to an intersection with the westerly line of First Street, 60 feet in width as now laid out; thence southerly along the westerly line of said First Street to an intersection with the westerly prolongation of the northerly line of Block 6 of said Yorba Linda Tract; thence easterly along said westerly prolongation and along the northerly line of Blocks 6 and 7 of said Yorba Linda Tract to the Northeast corner of said Block 7; thence southerly, easterly, southerly and easterly along the exterior boundary lines of said Yorba Linda Tract; thence southerly along the easterly line of said Block 8 and its southerly prolongation to the South line of Yorba Linda Boulevard, 60 feet wide as now laid out; thence easterly along the easterly prolongation of said southerly line of Yorba Linda Boulevard to an intersection with the East line of the M. Yorba allotment of second class land, as shown on a map showing the subdivision of the Rancho Canon de Santa Ana, by order of the Seventeenth Judicial District; thence North 01 degrees 29' 51" West, 30.00 feet, more or less, to a point in the centerline of Yorba Linda

Boulevard, extended easterly; thence North 89 degrees 25' 00" West along said extended centerline a distance of 338.07 feet; thence North 00 degrees 04' 28" East, 2681.55 feet; thence North 89 degrees 59' 42" East, 1795.99 feet; thence running North 89 degrees 23' 16" East, 386.73 feet along the northerly line of the Rancho Canon de Santa Ana to a point on a curve concave westerly and having a radius of 1200.00 feet; thence northerly along said curve through a central angle of 39 degrees 17' 20" an arc distance of 822.87 feet to its intersection with the West line of the Northwest one-quarter of Section 24 Township 3 South, Range 9 West, S.B.B. & M.; thence North 0 degrees 15' 09" West, 154.38 feet along the West line of said Northwest one-quarter of Section 24 to the southerly line of that certain 50.00 feet right-of-way conveyed to The Metropolitan Water District of Southern California, by Deed recorded July 11, 1960, in Book 5321, page 448; thence continuing along said West line of the Northwest one-quarter of Section 24, North 0 degrees 41' 30" East 1810.75 feet to the Northwest corner of said Section 24 as shown on a map recorded in Book 97, Pages 1 & 2, Record of Surveys, records of said Orange County, California; thence along the northerly line of said Section 24, South 89 degrees 53' 28" East 2658.08 feet to the Northeast corner of the Northwest one-quarter of said Section 24; thence along said northerly line of said Section 24, South 89 degrees 03' 19" East 2661.15 feet to the Northwest corner of Annexation No. 75-2 to the City of Yorba Linda; thence following the boundary of said Annexation No. 75-2 to the City of Yorba Linda, the following courses and distances: South 87 degrees 20' 11" East 1877.10 feet to the easterly boundary line of the land known as the Dominguez Ranch; thence along said easterly boundary of the Dominguez Ranch, South 01 degrees 38' 23" East 7827.18 feet to a point in a line running northeasterly from a point 2800 feet northerly of the centerline of the Atchison, Topeka and Santa Fe Railway Company's main track as measured along the East line of the allotment of second class lands to V. Yorba in the partition of the Rancho Canon de Santa Ana to a point 2400 feet northerly of said A.T. and S.F. Railway Company's main track centerline as measures along the East line of the allotment of second class lands to W. McKee in said partition of said Rancho Canon de Santa Ana; thence easterly along said line to a point in the East line of the allotment of second class land to W. McKee in partition of said Rancho Canon de Santa Ana, said point being 2400 feet northerly measured along said East line of allotment to W. McKee, from its intersection with the centerline of the Atchison, Topeka and Santa Fe Railway Company's main track; thence southerly along the said East line of allotment to W. McKee to its intersection with the southerly line of that certain right-of-way of A.T. & S.F. railroad described in a quitclaim of the Anaheim Union Water Company, recorded in Book 193, page 114, Deeds of Orange County; thence along said southerly right-of-way line, North 71 degrees 26' 00" East, 879.86 feet, more or less to the most westerly point of the 50 foot wide strip of land recorded in Book 1283, page 447, O.R.; thence South 18 degrees 34' 00" East, 50.00 feet; thence along the southerly line of the parcel of land described in said Book 1283, page 447, Official Records, North 71 degrees 26' 00" East, 566.64 feet, more or less, parallel with the centerline of said A.T. & S.F. railroad, to a tangent curve concave northwesterly and having a radius of 3681.1 feet; thence northeasterly along said curve, as described in Parcel 1 in Book 193, page 114, of Deeds and Book 1283, page 447, O.R., and being 100 feet southeasterly and parallel to said railroad centerline, 1313.7 feet, more or

less, to a point in the boundary line between the lands of Anaheim Union Water Company and F.H. Bixby, as described in said Deed; thence along said boundary line South 0 degrees 25' 56' East, 450 feet, more or less, to a point in the northerly lines of Lot 4, Tract 865, recorded in Book 28, page 18, M.M., Records of Orange County; thence following the boundary of said Tract 865 the following courses and distances; North 60 degrees 56' 00" East, 448.29 feet; thence North 85 degrees 19' 00" East, 2139.20 feet; thence South 38 degrees 30' 00" East, 860.00 feet; thence South 62 degrees 52' 00" West, 1057.58 feet; thence South 27 degrees 08' 00" East, 1188.00 feet; thence North 62 degrees 52' 00" East, 1201.25 feet; thence South 14 degrees 27' 00" East, 491.55 feet; thence South 27 degrees 34' 00" East, 852.60 feet; thence South 53 degrees 04' 00" East, 1025.00 feet; thence South 82 degrees 04' 00" East, 310.00 feet to the most easterly corner of Tract 865; thence along the southeasterly line of Lots 1 and 2 of said Tract, South 62 degrees 52' 30" West, 371.24 feet to a point of intersection with the centerline of the 100.00 foot right-of-way of Santa Ana Canyon Road as that centerline is shown on Plan No. 9054 of Santa Ana Canyon Road right-of-way map Route 91, Orange County Road Department Maps, that point of intersection being a point on a curve concave southwesterly and having a radius of 2,000 feet; thence southeasterly along the arc of that curve, through a central angle of 7 degrees 07' 19", 248.60 feet; thence tangent to that curve South 53 degrees 06' 53" East, 35.55 feet; thence North 83 degrees 20' 35" East, 132.16 feet to a point of the northeasterly right-of-way line of the Santa Ana Canyon Road as shown on Map No. 9054; thence southeasterly along that northeasterly right-of-way line as shown on that Map No. 9054, South 51 degrees 59' 18" East, 115.20 feet to the beginning of a tangent curve, concave northeasterly and have a radius of 1,436 feet, thence along the arc of that curve through a central angle of 30 degrees 24' 00" 76.91 feet; thence tangent to that curve, south 82 degrees 23' 18" East, 700.56 feet; thence North 7 degrees 36' 42" East, 5.00 feet; thence South 82 degrees 23' 18" East, 470.55 feet to the northeasterly line of the Wallace Ranch Annexation and Oak Hill Ranch Annexation to the City of Anaheim; thence southeasterly along that northeasterly line of the Wallace Ranch Annexation and Oak Hills Ranch Annexation, South 27 degrees 08' 00" East, 2805.27 feet to a point on the northwesterly line of the allotments to Benjamin and Thomas Flint and Lewellyn Bixby in partition of the Rancho Santiago De Santa Ana; thence south 35 degrees 10' 00" West along that last mentioned line, 16023.12 feet to a point, being the Northeast corner of the land described in deed to Santiago Farmers Association recorded in Book 98, page 544 of Deeds, Records of Los Angeles County, California; thence westerly along the northerly boundary line of said land 5750.76 feet to a point in the westerly line of Section Eighteen (18), Township Four (4) South, Range Eight (8) West, San Bernardino Base and Meridian, said point also being the Northwest corner of said land described in Book 98, page 544 of Deeds, Records of Los Angeles County, California; thence southerly along the westerly line of said Section Eighteen (18), 1,865.34 feet to a point, said point being northerly 571.90 feet from the Southwest corner of said Section Eighteen (18); thence North 48 degrees 05' 20" West 754.60 feet; thence North 56 degrees 27' 50" West, 414.94 feet to a point distant South 52 degrees 44' 00" West, 230.49 feet from the easterly corner of the parcel indicated "Reservoir No. 2" on map of record of surveys filed in Book 8, page 3 of Record of Surveys in the office of the County Recorder of Orange County, California; thence

North 52 degrees 44' 00 " East, 230.49 feet to the most easterly corner of said "Reservoir No. 2"; thence North 42 degrees 18' 00" West, 155.61 feet; thence South 50 degrees 25' 00" West, 267.27 feet; thence North 56 degrees 27' 50" West, 788.89 feet; thence North 51 degrees 38' 50" West, 768.86 feet; thence North 74 degrees 58' 40" West, 630.33 feet; thence South 49 degrees 25' 20" West, 608.63 feet to an angle point in the boundary line of the land described in the deed to Graham Brothers, Incorporated, recorded January 29, 1938, in Book 923, page 248 of Official Records of Orange County, California, said angle point being at the northeasterly end of a course described in said deed as "South 40 degrees 51' 30" West, 43.66 feet"; thence from said angle point South 40 degrees 51' 30 " West, 43.66 feet to a point, said point being the most northerly corner of the Carpenter Irrigation District as described in Book 74, page 223 of Official Records of Orange County, California, said point also being North 86 degrees 03' 10" East more or less and 719.62 feet more or less from station 27 as said station is shown on a map of record of surveys filed in Book 3, page 54 of Record of Surveys in the office of the County Recorder of Orange County, California; thence southeasterly, southerly and easterly following the boundary line of said Carpenter Irrigation District to the easterly terminus of that certain course described as "North 85 degrees 29' East 472.55 feet" in the Carpenter Irrigation District boundary; thence along the northerly boundaries of Tract No. 7560 as per map recorded in Book 253, pages 24 to 27, inclusive, Miscellaneous Maps, and Tract No. 8306, as per map recorded in Book 359, pages 35 and 36, Miscellaneous Maps, records of said Orange County, North 85 degrees 30' 02" East 1103.03 feet to the most northerly corner of said Tract No. 8306; thence following along the exterior boundary of said Tract No. 8306, the following courses and distances: South 17 degrees 42' 09" East 151.53 feet to the beginning of a curve concave southerly having a radius of 235.00 feet; thence easterly along said curve 20.79 feet through a central angle of 50 degrees 04' 10" to the beginning of a curve concave northerly having a radius of 195.00 feet; thence easterly along said curve 40.05 feet through a central angle of 11 degrees 46' 08" thence South 17 degrees 42' 09" East 60.03 feet to the beginning of curve concave northerly having a radius of 255.00 feet; thence westerly along said curve 54.42 feet through a central angle of 12 degrees 13' 39" to the beginning of a curve concave southeasterly having a radius of 175.00 feet; thence southwesterly along said curve 195.48 feet through a central angle of 64 degrees 00' 00"; thence South 22 degrees 00' 54" West 116.05 feet to the beginning of a curve concave northwesterly having a radius of 530.00 feet; thence southwesterly along said curve 166.34 feet through a central angle of 17 degrees 58' 56 " ; thence South 39 degrees 59' 50" West 84.66 feet to a point in the North line of Tract 944 as per map recorded in Book 29, page 41, of Miscellaneous Maps, Records of Orange County, California; thence easterly, southerly and westerly following the northerly, easterly and southerly boundaries of said Tract 944 to a point South 89 degrees 55' 45" East 350.00 feet of the Southwest corner of Lot 7 of said Tract 944; thence South 42 degrees 00' 00" East, 320.00 feet; thence South 74 degrees 00' 00" East, 300.00 feet; thence South 35 degrees 00' 00" East, 365.00 feet; thence South 12 degrees 00' 00" East, 440.00 feet; thence South 340.00 feet; thence South 13 degrees 00' 00" West, 385.00 feet; thence South 22 degrees 00' 00" West, 370.00 feet; thence South 14 degrees 00' 00" West, 280.00 feet; thence South 9 degrees 00' East, 102.66 feet to a point in the northerly line of Amapola Avenue (60

feet wide) as conveyed to the County of Orange by Deed recorded in Book 644, page 374, Official Records of said County of Orange, said point being on a nontangent curve concave southerly and having a radius of 280.00 feet, a radial bears North 17 degrees 26' 53" West to said point; thence westerly along said northerly line through a central angle of 39 degrees 25' 07" an arc distance of 192.64 feet; thence South 33 degrees 08' 00" West, 179.31 feet to a tangent curve concave northerly and having a radius of 220.00 feet; thence southwesterly along said curve through a central angle of 56 degrees 52' 00" an arc distance of 218.35 feet; thence West 17.03 feet to a point on the exterior boundary of Tract 931 as per map recorded in Book 29, page 27 of Miscellaneous Maps, Records of Orange County, California; thence southerly following the easterly boundary of said Tract 931, to the Southeast corner of Lot Five (5) of said Tract 931; thence South 89 degrees 59' 40" East 1335.78 feet to the centerline of Santiago Canyon Road (Old County Park Road) 60 feet wide, as conveyed to Orange County by Deed recorded July 24, 1929, in Book 303, page 1 of Official Records of Orange County, California; thence South 89 degrees 59' 06" East 302.13 feet; thence South 0 00' 54" West 148.72 feet; thence North 89 degrees 59' 06" West 282.76 feet to a point in said Santiago Canyon Road centerline, said point being on a nontangent curve concave northeasterly with a radius of 1000.00 feet, a radial line through said point bears South 80 degrees 40' 23" West; thence southeasterly along said curve 229.72 feet through a central angle of 13 degrees 09' 43"; thence leaving said curve South 22 degrees 29' 20" East, 396.01 feet; thence leaving said centerline, South 35 degrees 33' 00" West, 2010.01 feet to a point on the centerline of County Park Road; said point being also in the northwesterly boundary of Irvine's Subdivision of Ranchos San Joaquin and Lomas de Santiago and Flint and Bixby's allotment in Rancho Santiago de Santa Ana as per map recorded in Book 1, page 88 of Miscellaneous Maps, Records of Orange County, California; thence southwesterly along said last mentioned boundary of said Irvine's Subdivision to a point on said boundary line and located southwesterly a distance of one and one-half miles from the westerly corner of Block Twenty (20) of said Irvine's Subdivision; thence within said Irvine's Subdivision southeasterly to the most easterly corner of the northerly one-quarter of the westerly one-quarter of Block Sixteen (16) of said Irvine's Subdivision; thence southwesterly along the southeasterly line of said northerly one-quarter of the westerly one-quarter of said Block Sixteen (16) to the most southerly corner thereof; thence southeasterly along the northeasterly line of the southwesterly one-half of the southwesterly one-half of said Block Sixteen (16) to the southeasterly line of said block; thence southwesterly to the most southerly corner of said Block Sixteen (16); thence southeasterly along the northeasterly line of Block Forty-one (41) a distance of one-quarter mile; thence southwesterly one and one-half miles to the southerly corner of the northwesterly one-half of the northerly one-quarter of Block Forty-two (42); thence southeasterly one-half mile to the westerly corner of the southerly one-quarter of the easterly one-quarter of said Block Forty-two (42); thence northeasterly one-quarter mile to the northerly corner of said southerly one-quarter of the easterly one-quarter of said Block Forty-two (42); thence southeasterly three-fourths of a mile to the easterly corner of the southwesterly one-half of the northerly one-quarter of Block Sixty-six (66); thence southwesterly one-half mile to the northerly corner of the southwesterly one-half of the southerly one-quarter of said Block Sixty-six (66); thence southeasterly one-half mile to

the easterly corner of said southwesterly one-half of the southerly one-quarter of said Block Sixty-six (66); thence southwesterly one-quarter mile to the southerly corner of said Block Sixty-six (66); thence southeasterly two miles to the easterly corner of Block One Hundred Six (106); thence southwesterly one-half mile to the southerly corner of the easterly one-quarter of said Block One Hundred Six (106); thence southeasterly one and one-quarter mile to the westerly corner of southeasterly one-half of the northerly one-quarter of Block One Hundred Forty-two (142); thence northeasterly three-fourths mile to the northerly corner of the southerly one-quarter of the westerly one-quarter of Block One Hundred Forty-three (143); thence southeasterly one-quarter mile to the easterly corner of said southerly one-quarter of the westerly one-quarter of Block One Hundred Forty-three (143); thence southwesterly one-quarter mile to the southerly corner of said southerly one-quarter of westerly one-quarter of Block One Hundred Forty-three (143); thence southeasterly one-quarter mile to the easterly corner of the northwesterly one-half of the easterly one-quarter of said Block One Hundred Forty-two (142); thence southwesterly one-half mile to the southerly corner of said northwesterly one-half of the easterly one-quarter of Block One Hundred Forty-two (142); thence southeasterly one-quarter mile to the easterly corner of the southerly one-quarter of said Block One Hundred Forty-two (142); thence southwesterly one mile to the southerly corner of the easterly one-quarter of Block One Hundred Forty-one (141); thence southeasterly one-half mile to the center of Block One Hundred Fifty-four (154); thence southwesterly three miles to the center of Block One Hundred Fifty-seven (157); thence northwesterly one-half mile to the westerly corner of the northerly one-quarter of said Block One Hundred Fifty-seven (157); thence northeasterly one-quarter mile to the southerly corner of the easterly one-quarter of the easterly one-quarter of Block One Hundred Thirty-eight (138); thence northwesterly one-quarter mile to the westerly corner of said easterly one-quarter of the easterly one-quarter of Block One Hundred Thirty-eight (138); thence southwesterly one-half mile to the southerly corner of the northerly one-quarter of the southerly one-quarter of said Block One Hundred Thirty-eight (138); thence northwesterly one-half mile to the westerly corner of the easterly one-quarter of the westerly one-quarter of said Block One Hundred Thirty-eight (138); thence northeasterly one-eighth mile to the southerly corner of the northeasterly one-half of the northerly one-quarter of the westerly one-quarter of said Block One Hundred Thirty-eight (138); thence northwesterly one-half mile to the westerly corner of the northeasterly one-half of the easterly one-quarter of the southerly one-quarter of Block One Hundred Twenty-four (124); thence southwesterly three-eighths mile to the southerly corner of the northwesterly one-half of the said southerly one-quarter of Block One Hundred Twenty-four (124); thence northwesterly three-fourths mile to the southerly corner of Block 102; thence southwesterly three and three-fourths miles to the easterly corner of the southwesterly one-half of the southwesterly one-half of Block 98; thence northwesterly along the northeasterly line of the southwesterly one-half of the southwesterly one-half of Block 98, 91, and 57, to the center line of MacArthur Boulevard; thence westerly along said northeasterly line to an intersection with that certain easterly boundary line of the City of Newport Beach as established by Ordinance No. 840, approved by the City Council of Newport Beach on January 13, 1958; thence in a general southerly direction along said easterly boundary line as established by said Ordinance No. 840 and by

Resolution No. 7245, approved by the City Council of Newport Beach on July 27, 1970; by Resolution No. 6753, approved by the City Council of Newport Beach on April 22, 1968; by Resolution No. 7311, approved by the City Council of Newport Beach on November 23, 1970; by Resolution No. 8505, approved by the City Council of Newport Beach on June 9, 1975; by said Resolution No. 7311; by Resolution No. 7377, approved by the City Council of Newport Beach on February 22, 1971; by Resolution No. 6203, approved by the City Council of Newport Beach on August 9, 1965; by Ordinance No. 896, approved by the City Council of Newport Beach on August 18, 1959; by Ordinance No. 585, approved by the City Council of Newport Beach on December 13, 1948; by Ordinance No. 897, approved by the City Council of Newport Beach on September 28, 1959; by Resolution No. 9208, approved by the City Council of Newport Beach on October 25, 1977; by said Ordinance No. 897; by Resolution No. 7024, approved by the City Council of Newport Beach on July 14, 1969; by Ordinance No. 843, approved by the City Council of Newport Beach on April 14, 1958; and to the southerly corner of the City of Newport Beach as established by Resolution No. 7243, approved by the City of Newport Beach on July 27, 1970; thence in a general northwesterly direction along the southwesterly boundary line of the City of Newport Beach parallel with the line of ordinary high-tide of the Pacific Ocean and three miles therefrom to the most westerly corner of the City of Newport Beach; thence continuing in a general northwesterly direction along a line parallel with said line of ordinary high-tide being three miles westerly therefrom to a point on the southwesterly extension of the northwesterly line of Rancho La Bolsa Chica, as shown on licensed surveyor's map filed in Book 3, Page 45 of Records of Survey in the Office of the County Recorder of Orange County, California; thence northeasterly along the said extension of the northwesterly line of said Rancho La Bolsa Chica to the line of ordinary high-tide of the Pacific Ocean; thence northwesterly along said ordinary high-tide of the Pacific Ocean to the point of beginning.

Except that portion of certain unincorporated lands and those lands lying within the City of Newport Beach, County of Orange, State of California, commonly known as the "Bayview" area and more particularly described as follows:

BEGINNING at the intersection of the centerline of Bristol Street (formerly Palisades Road), with the northwesterly boundary of the City of Newport Beach as established by Ordinance No. 837, approved by the City Council of Newport Beach on October 28, 1957; thence leaving said centerline of Bristol Street and southwesterly along said northwesterly boundary line, and northwesterly along the northeasterly boundary line of the City of Newport Beach as established by Ordinance No. 748, approved by the City Council of Newport Beach on April 25, 1955, to an intersection with the southeasterly boundary of the northwesterly one-half of the northwesterly one-half of Block Fifty-one (51) of said Irvine's subdivision; thence northeasterly along said southeasterly boundary to the easterly corner of the northwesterly one-half of the northerly one-quarter of said Block Fifty-one (51); thence southeasterly along the centerline of said Bristol Street to the POINT OF BEGINNING.

(b) The district is hereby divided into 10 divisions which shall be numbered first,

second, third, fourth, fifth, sixth, seventh, eighth, ninth and tenth, and one director shall be elected or appointed as hereinafter provided from each division.

- (c) The boundaries of the first, second, third, fourth, fifth, six and seventh divisions are established pursuant to Section 1.2.
- (d) The boundaries of the eighth, ninth and tenth divisions are as follows:
 - (1) Eighth Division: Division No. 8 shall comprise all that area included within the exterior boundary of the Orange County Water District that is located within the boundaries of the municipal corporation known as the City of Santa Ana as it existed at 12 o'clock noon, March 6, 1953, or as it may hereafter exist.
 - (2) Ninth Division: Division No. 9 shall comprise all that area included within the exterior boundary of the Orange County Water District that is located within the boundaries of the municipal corporation known as the City of Anaheim as it existed at 12 o'clock noon, March 6, 1953, or as it may hereafter exist.

- (3) Tenth Division: Division No. 10 shall comprise all that area included within the exterior boundary of the Orange County Water District that is located within the boundaries of the municipal corporation known as the City of Fullerton as it existed at 12 o'clock noon, March 6, 1953, or as it may hereafter exist.
- (e) Annexations to or enlargements of municipal corporations which constitute Divisions 8, 9 and 10 shall become part of the division which said municipal corporation constitutes without further act of said district; provided, however, that if said annexations or enlargements include land which is not already a part of said district, such land may be included within said district and said division only by inclusion proceedings as provided in this act.

Section 1.2. Boundaries; adjustment

- (a) After each federal decennial census, and using population figures as validated by the Population Research Unit of the Department of Finance, the board of directors shall, by resolution, adjust the boundaries of the first, second, third, fourth, fifth, sixth, and seventh divisions so that those divisions are, as far as practicable, equal in population and represent, as far as practicable, a commonality of interest.
- (b) The resolution requires the vote of not less than six directors for adoption.
- (c) At the time of, or after, any annexation of territory to the agency, the board of directors shall designate, by resolution, the division of which the annexed territory shall be a part.

Section 1.4. Boundaries; adjustment; limit

No change in the boundaries of any division may be made within the four months immediately preceding the election of any director.

Section 1.6. Boundaries; adjustment; directors

- (a) A change in the boundaries of a division does not affect the term of office of any director.
- (b) Notwithstanding Section 11, if the boundaries of a division are adjusted, the director of the division whose boundaries have been adjusted, shall continue to be the director of the division bearing the number of his or her division as formerly comprised until the office becomes vacant by means of term expiration or otherwise, whether or not the director is a resident within the boundaries of the division as adjusted.

- (c) The successor to the office in a division whose boundaries have been adjusted shall be a resident of, and voter within the meaning of Section 18 of the Elections Code in, that division.

Section 2. District powers

The "Orange County Water District" shall have the following powers:

1. To have perpetual succession.
2. To sue and be sued, except as otherwise provided herein or by law, in all actions and proceedings in all courts and tribunals.
3. To adopt a seal and alter it at pleasure.
4. To take by grant, purchase, gift, devise, or lease, to hold, use and enjoy, and to lease, convey, or dispose of, real and personal property of every kind, within or without the district, necessary or convenient to the full exercise of its powers.
5. Within or outside of the district to construct, purchase, lease, or otherwise acquire, and to operate and maintain necessary waterworks and other works, machinery, facilities, canals, conduits, waters, water rights, spreading grounds, lands, rights and privileges useful or necessary to replenish the underground water basin within the district, or to augment and protect the quality of the common water supplies of the district, and purposes incidental thereto.
6. For the common benefit of the district and for the purpose of managing the groundwater basin and managing, replenishing, regulating, and protecting the groundwater supplies within the district to exercise the following powers:
 - (a) Provide for the conjunctive use of groundwater and surface water resources within the district area.
 - (b) Store water in underground water basins or reservoirs within or outside of the district.
 - (c) Regulate and control the storage of water and the use of groundwater basin storage space in the groundwater basin within the district and pursuant to the provisions set forth in Section 2.1 to (1) determine the amount of storage space available in the groundwater basin within the district, (2) allocate that available groundwater storage space, and (3) enter into groundwater storage agreements, provided that the district shall

have no authority under the provisions of this section, except the provisions of paragraph (l) of this subdivision, to limit the extraction of groundwater within the district, except to the extent that a party may agree thereto under any such groundwater storage or other agreement.

- (d) Appropriate and acquire water and water rights within or outside of the district.
- (e) Purchase and import water into the district.
- (f) Conserve and reclaim water within or outside of the district.
- (g) Buy and sell water at such rates as shall be determined by the board of directors.
- (h) Exchange water.
- (i) Distribute water to persons in exchange for ceasing or reducing groundwater extractions.
- (j) Transport, reclaim, purify, treat, inject, extract, or otherwise manage and control water for the beneficial use of persons or property within the district and to improve and protect the quality of the groundwater supplies within the district.
- (k) Fix the terms and conditions of any contract under which owners or operators of water-producing facilities within the district may agree to use water from an alternative nontributary source in lieu of groundwater, and to that end the district may become a party to such a contract and may pay from district funds that portion of the cost of water from an alternate source as will encourage the purchase and use of the same in lieu of producing groundwater, as long as persons or property within the district are directly or indirectly benefited by the resulting replenishment.
- (l) Fix the terms and conditions of any contract under which the owner or operator of a water-producing facility within the district may agree to increase the production of groundwater in lieu of water from an alternative nontributary source for the purpose of removing contaminants or pollutants from the groundwater basin. The district may become a party to that contract and may pay from district funds that portion of the cost of the groundwater production as will encourage the production for beneficial use of polluted or contaminated groundwater, as long as that pollution or contamination is impairing the quality of the water supplies within the district and the quality of the water supplies within the district will be improved by that production.

- (m) Determine in the manner herein provided the amount and percentage of water produced from the groundwater supplies within the district to the total amount of water produced within the district by all persons and operators, including the total amount of water from supplemental sources; require that persons and operators produce more or less of their total water needs from the groundwater within the district than the basin production percentage determined by the district as provided herein; levy a basin equity assessment, which may be uniform or nonuniform in amount as determined by the board of directors of the district, on each person and operator who produces more water from the groundwater within the district; and to compensate other persons and operators who are directed by the district to produce less than the basin production percentage from groundwater within the district.
7. To provide for the protection and enhancement of the environment within and outside the district in connection with the water activities of the district.
 8. To provide, by agreement with other public agencies or private persons or entities or otherwise, for the recreational use of the lands, facilities, and works of the district which shall not interfere, or be inconsistent, with the primary use and purpose of the lands, facilities, and works by the district.
 9. To carry out the purposes of this act, to commence, maintain, intervene in, defend, and compromise, in the name of the district, or otherwise, and to assume the costs and expenses of any and all actions and proceedings now or hereafter begun to prevent interference with water or water rights used or useful to lands within the district, or diminution of the quantity or pollution or contamination of the water supply of the district, or to prevent unlawful exportation of water from the district, or to prevent any interference with the water or water rights used or useful in the district which may endanger or damage the inhabitants, lands, or use of water in the district; provided, however, that the district shall not have power to intervene or take part in, or to pay costs or expenses of, actions or controversies between the owners of lands or water rights all of which are entirely within the boundaries of the district and which do not involve pollution or contamination of water within the district or exporting water outside of the district's boundaries or any threat thereof.
 10. To exercise the right of eminent domain to take any property necessary to the exercise of any of the powers granted by this act, except that the district shall not have the right of eminent domain as to water, water rights, reservoirs, pipelines, water distributing systems, waterworks, or powerplants, all or any of which are already devoted to beneficial or public use and located within the watershed of the Santa Ana River, and excepting further from the exercise of the right of eminent domain by the district any property maintained and actually used for the scientific propagation and study of plantlife. No language or provision of this act, or of this subdivision, shall be interpreted or construed so as to limit or

abridge the right of the district, or its board of directors, to exercise its right of eminent domain to condemn property at any place within the Santa Ana River watershed for rights-of-ways upon and across and under which to construct pipelines, conduits, tunnels and/or aqueducts necessary or convenient for any of the purposes of the district provided the property sought to be condemned for the purposes is not already being used by other corporations, municipalities, districts, or individuals for similar purposes; providing, however, that neither the district nor its board of directors shall have power to enter in or upon the Mojave River or any of its tributaries or appropriate, take, or condemn any of the water or the right to the use of any of the water of the Mojave River or any of its tributaries; nor shall anything in this act be deemed as authorizing or empowering the district or its board of directors to so do.

11. The district shall, in addition to the other powers herein granted by this act, have the following rights and powers: to act jointly with or cooperate with the United States or any agency thereof, the State of California or any agency thereof, any county of the State of California, districts of any kind, public and private corporations, and any person or persons, to carry out the provisions and purposes of this act. In those joint or cooperative activities, the district may act within or outside of its boundaries.
12. To cause assessments and/or charges to be levied as hereinafter provided to accomplish the purposes of this act.
13. To make contracts, to employ labor and to do all acts necessary for the full exercise of the foregoing powers.
14. To carry on technical and other investigations of all kinds, necessary to carry out this act, and for this purpose the district shall have the right of access through its authorized representative to all properties within the district.

Section 2.1. Groundwater storage; agreement between entity and district; priority; limitation; allocation of use; findings supporting conclusions of consideration of agreement

- (a) All groundwater storage by an entity other than the district shall be conducted pursuant to a groundwater storage agreement between that entity and the district.
- (b) Use of the groundwater basin within the district for the purpose of replenishing and managing the groundwater supplies of the district shall have priority over the use of the groundwater basin for storage of water.

- (c) The groundwater storage agreement shall be limited to public and private entities distributing water to consumers for domestic, municipal, industrial, and agricultural use within their boundaries, which are located wholly or partially within the district, except that, where the primary benefits accrue to persons or property within the district, the agreement may include other public and private entities, including, but not limited to, the Metropolitan Water District of Southern California and the Department of Water Resources of the State of California.
- (d) The groundwater storage agreement may include provisions that provide for the waiver of replenishment assessments or basin equity assessments, or both, on stored water that is extracted pursuant to the agreement.
- (e) In allocating the use of the groundwater basin storage space, the district shall consider and protect the quality of the groundwater and the reasonable water supply needs of the district. The district shall impose such limitations on the quality of the water to be stored as shall be necessary to protect the quality of the groundwater in the district.
- (f) The district shall include written findings supporting its conclusions in its record of consideration of a proposed groundwater storage agreement.

Section 2.5. Negotiable promissory notes; issuance; interest rate; maturity; payment; amount

- (a) The district, by a four-fifths vote of the board of directors, may issue negotiable promissory notes to acquire funds for any district purpose. Such promissory notes shall bear interest at a rate not to exceed the maximum interest rate provided for in Section 53531 of the Government Code. The maturity of such promissory notes shall not be later than five years from the date thereof. They shall be payable from revenues and taxes levied for purposes of the district other than the payment of principal and interest on any bonded debt of the district. The total aggregate amount of such notes outstanding at any one time shall not exceed the lesser of either five million dollars (\$5,000,000) or 3 percent of the assessed valuation of the taxable property in the district.
- (b) Notwithstanding any other provision of this act, the district may enter into agreements with the United States, the state, or any department, agency, or official of the United States or state, for the grant or loan of funds to the district for any district purpose, upon those terms and conditions which may be determined by the board of directors.

Section 3. Exercise of powers

The powers and duties herein enumerated shall, except as herein otherwise provided, be exercised and performed by the board of directors elected or appointed as provided herein. "Board" or "board of directors" as used in this act means the Board of Directors of the Orange County Water District.

Section 4. Board of directors; officers; employees

The government of the district shall be vested in the board of directors to consist of 10 members to be elected or appointed as hereinafter provided; a president, a first vice president, and a second vice president to be appointed from the 10 members of the board of directors and hold office at the pleasure of the board of directors.

The board of directors shall appoint, by a majority vote, a general manager, a secretary, assessor, tax collector, treasurer, and auditor, and shall define their duties and fix their compensation. Each of these officers shall serve at the pleasure of the board. If the board so chooses, it may appoint the county treasurer, county assessor, county tax collector, or county auditor of the County of Orange and their successors in office, which county officers and all their deputies, assistants, clerks, and employees shall perform the same respective duties of the office of assessor, tax collector, treasurer, and auditor for the district as they perform for Orange County, without additional compensation being paid by the district, in order to carry out the provisions of this act.

The board of directors may appoint and employ an attorney or attorneys, and an engineer or engineers for the district and such other officers and employees for the district as in their judgment may be deemed necessary, and prescribe their duties and powers and compensation, which officers and employees shall hold office or be employed during the pleasure of the board of directors.

Section 4.1. Attorney

The district may employ counsel to defend any action brought against it or against any of its officers, directors, agents, or employees on account of any claimed action or inaction involving any claimed injury, taking, damage, or destruction, and in the case of an action brought against an officer, director, agent, or employee, it is alleged that the action or inaction was in his or her official capacity, and the fees and expenses involved therein shall be a lawful charge against the district.

Section 4.2. Payment of judgment against officer, agent or employee

If any officer, director, agent, or employee of the district is held liable for any act or omission in his or her official capacity, except in the case of actual fraud or actual malice, and any judgment is rendered thereon, the district shall pay the judgment without obligation for repayment by the officer, director, agent, or employee.

Section 5. President or vice presidents; general manager or secretary; execution of contracts; treasurer; administrative rules and regulations; officers' bond

- (a) Except as provided by resolution of the board of directors, the president shall sign all contracts on behalf of the district, and perform such other duties as may be imposed on him or her by the board of directors or by this act. In the absence of or inability of the president to serve, the first vice president shall perform his or her duties. In the absence of or inability of both the president and the first vice president to serve, the second vice president shall perform the duties of the president.
- (b) Except as provided by resolution of the board of directors, the general manager or secretary shall countersign all contracts on behalf of the district and perform such other duties as may be imposed on him or her by the board of directors or by this act.
- (c) The treasurer shall be responsible for the deposit and withdrawal of funds of the district. In the event the board of directors appoints a treasurer other than the county treasurer as provided in Section 4, the district shall file a certified copy of the resolution so appointing the treasurer with the county treasurer. The county treasurer shall thereupon deliver to the district all funds of the district on deposit with the county treasurer. Such funds shall thereafter be deposited by the district in a bank or banks approved for deposit of public funds.
- (d) The board of directors may, by resolution, adopt reasonable rules and regulations not inconsistent with this act for the administration and government of the affairs of the district, and alter them from time to time as conditions may require; they may also appoint appropriate officers or agents to represent them as directed in administering the affairs of the district, which officers or agents shall receive the compensation established by the board from time to time, and serve at the pleasure of the board. The board may require any of those officers or agents to furnish bond in the form and amount fixed by it.

Section 6. Directors; quorum; method of acting

A majority of the members of the board shall constitute a quorum for the transaction of business. The board of directors shall act only by resolution or motion. Resolutions and motions may be adopted by a voice vote, but on demand of any member of the roll shall be called. No motion or resolution shall be passed or become effective without the affirmative vote of a majority of the members of the board. Any hearings or meetings held by the district or its board of directors as required by this act or in carrying out the provisions of this act may be continued or adjourned from time to time.

Section 6.5.¹ Directors; compensation; reimbursement of expenses

The board of directors may fix the compensation of its members for their services as directors as follows:

- (a) A sum not exceeding one hundred dollars (\$100) for each meeting of the board of directors attended.
- (b) A sum not exceeding one hundred dollars (\$100) for each day, and a sum not exceeding fifty dollars (\$50) for each half day, for service rendered as a director, other than attending meetings of the board of directors, authorized, directed or approved by the board. Three hours or less, including travel time, shall be deemed one-half day, and time in excess of three hours, including travel time, shall be deemed one day.
- (c) No director shall receive in any calendar month a sum in excess of six hundred dollars (\$600) for meetings attended or services rendered.

As used in this section, "meeting of the board of directors" shall not include meetings of committees of the board of directors. Attending meetings of committees of the board of directors shall be considered as services rendered as a director.

In addition to compensation for meetings attended and services rendered, and in addition to the limitations of amounts of that compensation provided for in this section, each director shall receive reimbursement for all actual, necessary, and reasonable expenses, including mileage, incurred in the performance of his duties authorized, directed, or approved by the board.

¹ Superseded by California Water Code Section 20200 *et seq.* and OCWD Ordinance No. 90-1-1.

Section 7. Property; legal title; management, use, etc.; sale

The legal title to all property acquired under the provisions of this act shall immediately and by operation of law vest in said district, and shall be held by said district, in trust for, and is hereby dedicated and set apart to, the uses and purposes set forth in this act. The board of directors is hereby authorized and empowered to hold, use, acquire, manage, occupy and possess said property, as herein provided; and said board of directors may determine, by resolution duly entered in their minutes that any property, real or personal, held by said district is no longer necessary to be retained for the uses and purposes thereof, and may thereafter sell or otherwise dispose of said property.

Section 8. Investigations of quality of surface and groundwaters; cleanup; liability

- (a) The district may conduct any investigations of the quality of the surface and groundwaters within the district which the district determines to be necessary and appropriate to determine whether those waters are contaminated or polluted.
- (b) The district may expend available funds to perform any cleanup, abatement, or remedial work required under the circumstances which, in the determination of the board of directors, is required by the magnitude of the endeavor or the urgency of prompt action needed to prevent, abate, or contain any threatened or existing contamination of, or pollution to, the surface or groundwaters of the district. This action may be taken in default of, or in addition to, remedial work by the person causing the contamination or pollution, or other persons. The district may perform the work itself, by contract, or by or in cooperation with any other governmental agency.
- (c) If, pursuant to subdivision (b), the contamination or pollution is cleaned up or contained, the effects thereof abated, or in the case of threatened contamination or pollution, other necessary remedial action is taken, the person causing or threatening to cause that contamination or pollution shall be liable to the district to the extent of the reasonable costs actually incurred in cleaning up or containing the contamination or pollution, abating the effects of the contamination or pollution, or taking other remedial action. The amount of those costs, together with court costs and reasonable attorneys' fees, shall be recoverable in a civil action by, and paid to, the district. In any such action, the necessity for the cleanup, containment, abatement, or remedial work, and the reasonableness of the costs incurred therewith, shall be presumed, and the defendant shall have the burden of proving that the work was not necessary, and the costs not reasonable.

Section 9. Election of directors

Directors, other than directors representing Divisions 8, 9 and 10, shall be elected by the division each represents. Directors representing Divisions 8, 9 and 10 shall be appointed as provided elsewhere in this act.

The boundaries of the respective divisions, for the purpose of nomination and election of directors, as provided in this section, shall be the boundaries of said divisions as they shall exist on the ninetieth day preceding the date of election.

The provisions of the Elections Code relating to the qualifications of electors, so far as they may be applicable, shall govern all district elections, except that:

- (a) To the extent the provisions of the Elections Code pertaining to the qualifications of voters at local elections are inconsistent with the provisions of that code pertaining to general elections, the provisions of the Elections Code pertaining to local elections shall control.
- (b) Inconsistent provisions of this act shall control over any provisions of the Elections Code, except the Uniform District Election Law.

The election for directors shall be conducted in accordance with and shall be governed by the provisions of the Uniform District Election Law.

Section 11. Directors; residence requirements

The successor to each director in office on January 1, 1994, and each director thereafter, whether elected or appointed, shall be a resident of, and a voter within the meaning of Section 18 of the Elections Code in, the division the director represents. A public officer, whether elected or appointed, may be elected or appointed to serve as a member of the board of directors of the district.

Section 12. Subsequent elections; appointment of directors; vacancies; bonds

- (a) An election shall be held on the first Tuesday after the first Monday in November of each even-numbered year, in those divisions of 1 to 7, inclusive, at which directors for the district shall be elected to fill the offices of the directors whose terms of office shall expire at noon on the first Friday in December, in accordance with the Uniform District Election Law (Part 4 (commencing with Section 10500) of Division 10 of the Elections Code).

- (b) In Divisions 8, 9, and 10 of the district, the governing body of the city comprising each such division shall appoint the director to represent the division upon the board of directors, to serve a four-year term that expires at the same time as the terms of office of those elected directors whose terms of office expire that year. The terms of office of directors representing Divisions 8, 9, and 10 shall expire at noon on December 6, 1996. A director representing Division 8, 9, or 10 may be removed at any time and without cause by the majority vote of the appointing governing body.
- (c) Vacancies occurring in any elective office shall be filled pursuant to Section 1780 of the Government Code. If the vacancy is that of an appointed director, the appointing body shall appoint a successor.
- (d) Each director shall execute an official bond in an amount fixed by the board of directors that equals or exceeds one thousand dollars (\$1,000). The bonds shall be filed with the secretary of the board of directors.
- (e) In lieu of requiring each director to execute an official bond pursuant to subdivision (d), the district may provide fidelity insurance through master or blanket bonds, or other insurance approved by the board of directors.
- (f) Premiums for bonds required by this act shall constitute a proper charge against the district.

Section 13. Organization after election; term; office; general manager and secretary

- (a) At a meeting of the board of directors in December following the election, the directors elected at that election, those whose terms have not expired and those appointed, shall meet and organize as a board, elect a president and a first and second vice president, and may appoint a general manager and a secretary, who shall each hold office at the pleasure of the board. Each director appointed or elected shall hold office until his or her successor is elected, or appointed, and has qualified. The term of office of each elected director is hereby fixed at four years, except as herein otherwise provided or as provided in the Uniform District Election Law. The office of the district shall be established by the board of directors at some proper and convenient place within the County of Orange, but does not have to be established or maintained within the district. After the office is once established, it shall not be changed without giving notice thereof by posting in three public places within the district and by publishing a similar notice pursuant to Section 6066 of the Government Code at least once a week for two weeks in some newspaper of general circulation published in Orange County.

- (b) The general manager and secretary of the district need not be one of the directors. The salary of the general manager and secretary and amount of the bond to be given for the faithful performance of their duties shall be fixed by the board of directors. The bond of the general manager and secretary of the district shall be filed in the office of the district.

Section 15. Declaration of appointment

At the first meeting of the board of directors of said district following receipt of a certificate of appointment of a director from Division 8, 9 or 10, the board of directors shall declare to be duly appointed as a director of said district, all such directors certified as appointed by the governing body of the city comprising each such division.

Section 16. Financial statement; CPA audit

- (a) The board of directors at a meeting during the fourth month following the close of each fiscal year shall render and immediately thereafter cause to be filed with the secretary and posted conspicuously in the office of the district a verified statement of the financial condition of the district, showing in detail the receipts and disbursements during the last preceding year, together with the sources of the receipts and purposes of the disbursements. A summary of the statement shall be published pursuant to Section 6066 of the Government Code in some newspaper published in the district, and shall refer to the itemized statement filed and posted in the office of the district for further particulars.
- (b) For the purpose of rendering the statement, the district shall designate a certified public accountant who shall make an independent audit of the accounts and other evidences of financial transactions of the district during the preceding year. The certified public accountant shall have no personal interest directly or indirectly in the financial affairs of the district.

Section 17. Estimate of money needed; maximum general assessment

The board of directors, on or before the first meeting of the board of supervisors of said Orange County in August of each year, must furnish said board of supervisors and the auditor of said Orange County with an estimate in writing of the amount of money needed for the initiated or authorized purposes of the district for the current fiscal year, including the purchase of supplemental water for the replenishment of ground water supplies of said district and amounts necessary for the payment of the principal of and interest on any bonded debt of the district as it becomes due. This amount, less available funds on hand, shall be deemed to be sufficient to provide the necessary funds to initiate, carry on and complete any of the powers, projects, and purposes for which this district is organized, and which the board of directors shall deem advisable to be initiated or authorized for the current fiscal year other than projects and works which the board of directors shall deem advisable or necessary to finance by bonded indebtedness; to pay the estimated cost of maintenance, operation and repairs of works

and projects of said district, the incidental expenses of said district, and the estimated amount necessary for the payment of the costs of any action or proceeding which may be taken or assumed by said district, including the cost of employment of attorneys and engineers; to purchase supplemental water, in addition to water purchased from replenishment funds, for the replenishment of ground water supplies of the district. In estimating the general funds needed by said district, all general funds on hand which are or will be unexpended at the end of the fiscal year, other than (1) funds allocated to the general reserve by said board of directors; (2) funds allocated to the appropriation for contingencies by said board of directors, shall be considered as funds on hand.

Provided, however, that the amount of the general assessment levied during any year, excluding the amounts necessary for the payment of the principal of and interest on any bonded debt of the district, shall not exceed twenty cents (\$0.20) for each one hundred dollars (\$100), or fraction thereof, of assessable property in said district, excluding personal property, according to the last assessment rolls of Orange County. Provided, further, however, that a tax rate in excess of eight cents (\$0.08) for each one hundred dollars (\$100), or fraction thereof, of assessable property in said district, excluding personal property, according to the last assessment rolls of Orange County, shall not be established unless authorized by an affirmative vote of eight of the members of the Board of Directors of the Orange County Water District. The general assessments provided for in this section shall in no event exceed eight cents (\$0.08) for each one hundred dollars (\$100), or fraction thereof, of mineral rights, where such mineral rights are assessed separately from the land. All funds derived from said general assessment in excess of those derived from eight cents (\$0.08) for each one hundred dollars (\$100), or fraction thereof, of assessable property in said district, as hereinabove provided, of any general assessment shall be deposited and applied to the water reserve fund. The amounts deposited and applied to the water reserve fund shall be used solely and exclusively for the purpose of:

- (a) The purchase of supplemental water for the replenishment of the ground water supplies of said district; and
- (b) Acquiring, constructing or developing intrusion prevention projects, spreading grounds or basins, waste water reclamation and water salvage projects, canals, conduits, pipelines, wells, or other works useful or necessary for the purposes of the district and to carry out the provisions of this act; and

- (c) Acquiring any real or personal property or rights or privilege therein useful or necessary for the foregoing projects or works or for the purposes of the district and to carry out the provisions of this act.

In addition to the purchase of supplemental water for the ground water supplies of said district from the water reserve fund and from the replenishment fund, the board of directors may purchase water for the replenishment of the ground water supplies of said district from the general fund upon the affirmative vote of at least eight members of the board of directors.

Section 17.1. "General reserve" and "appropriation for contingencies" defined

"General reserve" means funds allocated from the general fund used to meet cash requirements before the proceeds from taxes are available and to meet emergency expenditures. The amount of the general reserve shall not at any time exceed the sum of 15 percent of the total current annual general and water reserve fund budgets.

"Appropriation for contingencies" means funds allocated from the general fund and the water reserve fund to cover expenditures that have not been provided for or that have been insufficiently provided for or for unappropriated requirements. The appropriation for contingencies shall not at any time exceed the sum of three million dollars (\$3,000,000).

Section 18. Assessments; levy; rate

The board of supervisors of said Orange County at the time of the levying county taxes annually must levy a general assessment sufficient to raise the amount or amounts specified in said estimates of said directors, as herein provided. In addition thereto, said board of supervisors shall levy an assessment sufficient to meet all payments of principal and interest on any bonds of the district as provided in Section 21.22 of this act. Said board of supervisors must determine the rate of such assessments by deducting such percent, not to exceed 10 percent, as shall be determined by the board of directors of the district for anticipated delinquencies from the assessed value of the assessable real property in said district on which an assessment is to be levied, as it appears on the assessment roll of the county, and then dividing the sum or sums reported by said board of directors as required to be raised by the remainder of such total assessed value. The general assessments and the assessment for payment of bond principal and interest levied and/or collected under the terms of this act shall be levied and collected on real property including assessable rights therein and improvements thereon, but not on personal property.

Section 19. Computation and entry of assessments; collection; laws applicable

The general assessment and the assessment for payment of bond principal and interest so levied by the district shall be computed and entered on the assessment roll by the county auditor, and if the board of supervisors fail to levy the general assessment and the assessment for payment of bond principal and interest as provided in the preceding section, then the auditor must do so. Such general assessments and assessments for payment of bond principal and interest shall be collected at the same time and in the same manner as state and county taxes, and when collected, shall be paid into the treasury of Orange County for payment to or the use of the district.

The provisions of the statutes of this State, prescribing the manner of levying, assessing, equalizing and collecting taxes, including the sale of property for delinquency, and the redemption from that sale, and the duties of the several county officers with respect thereto, are, so far as they are applicable, and not in conflict with the specific provisions of this act, hereby adopted and made a part hereof. Such officers shall be liable upon their several official bonds for the faithful discharge of the duties imposed upon them by this act.

Section 20. Funds

The following funds are hereby created and established for the district to which the moneys of the district shall be deposited and applied, to wit, the general fund, the replenishment fund, the water reserve fund, the bond fund, the basin equity assessment fund, and various improvement funds. All funds collected and received by the district from the levy of the district's replenishment assessment shall be deposited and applied to the replenishment fund. All funds collected and received by the district from the levy of the district's basin equity assessment shall be deposited and applied to the basin equity assessment fund. All funds collected and received by the district from the levy of the general assessment, other than those derived from the portion thereof in excess of those derived from eight cents (\$0.08) for each one hundred dollars (\$100), or fraction thereof, of assessable property in the district as provided in Section 17 of this act, shall be deposited and applied to the general fund. All funds collected and received by the district from the levy of assessments for the payment of the principal and interest on the bonded debt of the district shall be deposited and applied to the bond fund. All funds collected and received by the district from the levy of the general assessment derived from that portion thereof in excess of eight cents (\$0.08) for each one hundred dollars (\$100), or fraction thereof, of assessable property in the district, as provided in Section 17 of this act, shall be deposited and applied to the water reserve fund. All other funds received by the district shall be deposited in the fund designated by the board of directors. The board of directors of said district may, from time to time, upon an affirmative vote of eight (8) of the members of the board, transfer funds in such amounts as they deem advisable from the general fund to the water reserve fund.

Section 20.5. Claims for money or damages; law governing

All claims for money or damages against the district are governed by Part 3 (commencing with Section 900) and Part 4 (commencing with Section 940) of Division 3.6 of Title 1 of the Government Code except as provided therein, or by other statutes or regulations expressly applicable thereto.

Section 20.6. Determination of feasibility of project

For the purpose of constructing, purchasing, leasing or otherwise acquiring water, water rights, storage sites, spreading grounds, lands, canals, conduits, rights and privileges useful or necessary for the purposes of said district, and otherwise carrying out the provisions of this act, and before any such purposes or projects are instituted and carried out, the board of directors of said district shall determine whether any such purpose or project is feasible and necessary and of general benefit to the lands in the district, and shall also estimate and determine the amount of money necessary to be raised for each or any of said purposes or projects. For the purpose of ascertaining the feasibility, necessity and general benefit of any such purposes or projects and the amount of money necessary to be raised for the same or any of them, said board shall cause such engineering investigations, surveys, examinations, drawings, plans and reports to be made as shall furnish the proper basis for said purposes or projects, and said estimates of the cost thereof. Said engineering investigations, drawings, plans and reports, and the estimates based thereon may provide that the works necessary for a completed purpose or project shall be constructed progressively during a period of years. All engineering investigations, examinations, drawings, plans and reports shall be made under the direction of a competent engineer or engineers selected by the directors, and shall be certified by him or them. All data obtained by Orange County Flood Control District and all other available engineering data may be considered in all of said engineering investigations.

Section 20.7. Finding from engineer's report; institution of project

If it shall appear from said engineer's report or reports that any such purpose or project is feasible and necessary and of general benefit to the lands in the district, the board of directors by resolution entered in its minutes may so find and may declare the purpose or project duly instituted.

Section 21. Issuance of bonds; purposes

The district may incur indebtedness and bonds may be authorized and issued therefor for any or all of the following purposes:

- (a) Acquiring, constructing or developing intrusion prevention projects, spreading grounds or basins, waste water reclamation and water salvage projects, canals, conduits, pipelines, wells, or other works useful or necessary for the purposes of the district and to carry out the provisions of this act; and
- (b) Acquiring any real or personal property or rights or privilege therein useful or necessary for the foregoing projects or works or for the purposes of the district and to carry out the provisions of this act.

Section 21.1. Maximum debt limit

The bonded indebtedness of the district outstanding at any one time shall not in the aggregate exceed five percent (5%) of the assessed value of all assessable real property, including assessable rights therein and improvements thereon, within the district as shown on the last equalized assessment roll of Orange County.

Section 21.2. Resolution of board

Proceedings are initiated when the board of directors of the district passes a resolution by a vote of a majority of its members determining that any such purpose or project is feasible and of necessity and of general benefit to the real property in the district. Said resolution may be combined with the resolution calling the election.

Section 21.3. Resolution calling election; contents

By a vote of a majority of its members, the board of directors may pass a resolution ordering the submission of the proposition of incurring a bonded debt for the purposes set forth in the resolution to the qualified voters of the district at an election called for that purpose. More than one proposition of incurring bonded debt may be submitted at the same election. Any proposition may include one or more of the authorized purposes. The resolution shall recite:

- (a) The objects and purposes of incurring the indebtedness.
- (b) The amount of the principal of the indebtedness.

- (c) The rate of maximum rate of interest on the indebtedness which shall not exceed the maximum interest rate provided for in Section 53531 of the Government Code. The interest shall be payable semiannually except that the first interest payable on the bonds or any series thereof may be for any period not exceeding one year, as determined by the board of directors at the time of sale.
- (d) The date of the election.
- (e) The manner of holding the election and the procedure for voting for or against the proposition.

Section 21.4. Publication of resolution

The resolution calling the election shall be published once a day for at least seven days in a newspaper published at least six days a week in the district. No other notice of the election need be given.

Section 21.5. Consolidation of elections

If such election is consolidated, in whole or in part, with any other election of the district or with a state or county election, the precincts, polling places and election officers within the area affected by the consolidation shall be the same as provided for such other election of the district or such state or county election, and it shall be sufficient if the resolution so states.

Section 21.6. Electors; registration; conduct of election

Anything in this act to the contrary notwithstanding, the election held for the purpose of authorizing the district to incur a bonded indebtedness shall be an election by the voters within the meaning of the Elections Code, residing within the district. No person shall vote at any such election who is not a voter within the meaning of the Elections Code, residing in the district. For the purpose of registering voters who shall be entitled to vote at such elections, the county clerk or registrar of voters is authorized to indicate upon the Affidavit of Registration whether the voter is a voter of the district. Except as otherwise provided in the resolution calling the election and except as in this act otherwise provided, the election shall be conducted as nearly as practicable in accordance with the general election laws of the State of California.

Section 21.7. Canvass of returns; resolution of results; required vote

The returns of the election shall be made to and canvassed by the board of directors of the district within seven (7) days following said election. As soon as possible thereafter, the board of directors shall adopt a resolution declaring and setting forth the results thereof. If two-thirds (2/3) of the votes cast on any proposition are for the proposition, the bonds may be issued.

Section 21.8. Defeat of proposition; limitation on further proceedings

If any proposition is defeated by the voters, the board of directors shall not call another election on a substantially similar proposition to be held within six months after the prior election.

Section 21.9. Form of bonds and coupons; date

The board of directors shall prescribe the form of the bonds and interest coupons, and fix the date of the bonds.

Section 21.10. Series bonds

The board of directors may divide the principal amount of any issue into two or more series and fix different dates for the bonds of each series. The bonds of one series may be made payable at different times from those of any other series.

Section 21.11. Time, manner and place of payment; maturity

A bond shall be payable at the time, in the manner, and at the place or places fixed by the board of directors and designated in the bond. The maturity date of a bond need not be an anniversary of its date. The final maturity date of any issue of bonds, or any series thereof shall not exceed forty (40) years from the date of such bonds, or the date of such series thereof.

Section 21.12. Action to determine validity of bonds

An action to determine the validity of the bonds may be brought pursuant to Chapter 9 (commencing with Section 860) of Title 10 of Part 2 of the Code of Civil Procedure.

Section 21.13. Redemption prior to maturity

The board of directors may provide for the redemption of any bond before maturity at such time or times and at such price or prices determined by it. A bond shall not be subject to call or redemption prior to maturity unless it contains a recital to that effect, or unless a statement to that effect is printed thereon.

Section 21.14. Denomination of bonds

The bonds shall be issued in such denomination or denominations as the board of directors may prescribe.

Section 21.15. Signatures

The bonds shall be signed by the president and the secretary, or the general manager, of the district. The bond coupons shall be numbered consecutively and signed by the secretary or the general manager of the district. All signatures may be printed, lithographed, or engraved except that one of the signatures on the bond shall be manually affixed. If any officer whose signature appears on bonds or coupons ceases to be such officer before delivery of the bonds, his or her signature is as effective as if he or she had remained in office.

Section 21.16. Issuance and sale; bids

The bonds may be issued and sold as the board of directors determines, but for not less than par. Before selling the bonds, or any part thereof, the board of directors shall give notice inviting sealed bids in such manner as the board of directors may prescribe. If satisfactory bids are received, the bonds offered for sale shall be awarded to the highest responsible bidder. If no bids are received, or if the board of directors determines that the bids received are not satisfactory as to price or responsibility of the bidders, the board of directors may reject all bids received, if any, and either readvertise or sell the bonds at private sale.

Section 21.17. Legal investments

The bonds authorized herein shall be legal investments for all trust funds and for the funds of all insurance companies, and for the state school funds and whenever any money or funds by law now or hereafter enacted may be invested in bonds of cities, cities and counties, counties, school districts, or municipalities in the State of California, said money or funds may be invested in said bonds issued in accordance with the provisions of this act and whenever bonds of cities, cities and counties, counties, school districts, or municipalities by any law now or hereafter enacted may be used as security for the performance of any act, said bonds of said district may be so used. All bonds issued under the provisions of this act are hereby given the same force, value and use as bonds issued by any municipality in this State and shall be free and exempt from all taxation within the State of California.

Section 21.18. Bond fund; use; transfer of balance

All premiums and accrued interest received shall be placed in the bond fund to be used for the payment of principal of and interest on the bonds, and the remainder of the proceeds of the bonds shall be deposited to the credit of the proper improvement fund and applied exclusively to the purpose and object recited in the bond proposition; provided, however, that when said purpose and object has been accomplished, any moneys remaining in such improvement fund shall be transferred to the bond fund to be used for the payment of principal of and interest on the bonds, and provided, further, when such purpose and object have been accomplished and all principal and interest on the bonds have been paid, any balance of money then remaining shall be transferred to the General Fund; and provided, further that the proceeds of the bonds may be used to pay the costs of the bond election, legal or other fees in connection with the authorization, issuance and sale of the bonds, and the costs of printing the bonds and other costs and expenses connected with the issuance and sale of the bonds.

Section 21.19. Delivery of bonds; purchase price

Delivery of any bonds may be made at any place either inside or outside the State, and the purchase price may be received in cash, certified or cashier's checks, or bank credits, including credits in the form of certified Federal Reserve Bank funds.

Section 21.20. Unsold bonds; resolution voiding; time

After three years after a bond election the board of directors may determine, by resolution adopted by a two-thirds vote of all of its members, that all or any part of the bonds remaining unsold shall not be issued or sold. The bonds described in the resolution shall upon such adoption become void.

Section 21.21. Use of bond proceeds for other purposes; election; procedure

When the board of directors determines by resolution that the expenditure of moneys raised by the sale of bonds for the purpose for which the bonds were voted is unpracticable or unwise, it may call an election to obtain the consent of the voters to use the money for some other specified district purpose. The procedure, so far as applicable, shall be the same as when a bond proposition is originally submitted.

Section 21.22. Levy and collection of assessment

The board of supervisors of the County of Orange shall, at the time prescribed for the levy of a general assessment as provided in Section 18 of this act, levy and collect annually each year until the bonds are paid or until there is a sum in the bond fund of the district sufficient to meet all payments of principal and interest on the bonds as they become due, an assessment sufficient to pay the interest on the bonds as it falls due and such part of the principal as will become due before the proceeds of an assessment levied at the next assessment levy will be available. Said assessment shall be levied, enforced, and collected upon the same property and in the same manner as the general assessment as provided in this act and shall be in addition to all other taxes and assessments. The limitations upon assessments stated in Section 17 or elsewhere in this act shall not apply to the assessments required to be levied by this section. So long as any bonds of the district or interest thereon remain unpaid, the proceeds of an assessment levied under this section shall be used only for the payment of such bonds and the interest thereon.

Section 23. Replenishment assessments

Replenishment assessments levied pursuant to this act are declared to be in furtherance of district activities in the protection of the water supplies for users within the district which are necessary for the public health, welfare and safety of the people of this state. The replenishment assessments are authorized to be levied upon the production of ground water from all water-producing facilities, whether public or private, within said district for the benefit of all who rely directly or indirectly upon the ground water supplies of such district.

The proceeds of the replenishment assessment levied, assessed and collected upon the production of water from the ground water supplies within said district shall be used to acquire water and to pay the costs of initiating, carrying on, and completing any of the powers, projects, and purposes for which this district is organized.

Section 24. Registration of water producing facilities; fine for nonregistration; definitions

On or before the fifteenth day of January, 1954, all water producing facilities located within the boundaries of the Orange County Water District shall be registered with said district by the operator thereof. Any new water producing facility constructed or re-established after such date shall be registered with said district within 30 days after the completion or re-establishment thereof.

Failure to register any water producing facility with said district is a misdemeanor punishable by a fine of not to exceed five hundred dollars (\$500) or imprisonment in the county jail for not to exceed six months or by both such fine and imprisonment.

In addition to other information which said district may determine is necessary and may require in the registration form provided, there shall also be given information as to the owner or owners of the land upon which each water producing facility is located, a general description and location of each water producing facility, the name and address of the person charged with the operation of each water producing facility and the name or names and addresses of all persons owning or claiming to own an interest in the water producing facility.

"Person" or "operator" as used in this act means public agencies, federal, state, and local, private corporations, firms, partnerships, individuals or group of individuals whether legally organized or not; "owner" or "operator" also means the person to whom a water producing facility is assessed by the county assessor or if not separately assessed the person who owns the land upon which a water producing facility is located.

"Ground water" as used in this act means all water beneath the earth's surface, but does not include water which is being produced with oil in the production of oil and gas or in a bona fide mining operation.

"Production" or "producing" as used in this act means the act of extracting ground water, by pumping or otherwise.

"Water producing facility" as used in this act means any device or method, mechanical or otherwise, for the production of water from the ground water supplies within said district.

"Accumulated overdraft" as used in this act means the amount of water necessary to be replaced in the intake area of the ground water basin within said district to prevent the landward movement of ocean water into the fresh ground water body, as determined by the board of directors from time to time.

"Annual overdraft" as used in this act means the amount, determined by the board of directors, by which the production of water from the ground water supplies within said district during the water year exceeds the natural replenishment of such ground water supplies in such water year.

"Water year" as used in this act means July 1st of one calendar year to June 30th of the following calendar year.

Section 25. Annual investigation and report upon ground water conditions

The district shall annually order an investigation and report to be made by an engineer or engineers employed by said district for the purpose of investigating and reporting upon ground water conditions of said district. The investigation and report shall include among other information which said district may desire, information for the consideration of the board in its determination of the annual overdraft, information for the consideration of the board in its determination of the accumulated overdraft as of the last day of the preceding water year, a report as to the total production of water from the ground water supplies of said district for the preceding water year, an estimate of the annual overdraft for the current water year and for the ensuing water year, and a recommendation as to the quantity of water to be purchased for replenishment of the ground water supplies of said district for the ensuing year.

Section 26. Notice of receipt of report; hearing on report; estimated overdraft and replenishment requirements

- (a) On the second Wednesday in February of each year, the engineering investigation and report shall be delivered to the secretary of the district in writing. The secretary shall publish pursuant to Section 6061 of the Government Code a notice of the receipt of the report and of the public hearing to be held on the date of the regular meeting of the board of directors in March in a newspaper of general circulation, printed and published within the district, at least 10 days prior to the date at which the public hearing regarding groundwater conditions shall be held. The notice, among other information which the district may provide therein, shall contain an invitation to all operators of water-producing facilities within the district to call at the offices of the district to examine the engineering investigation and report.
- (b) There shall be held, by the board of directors, on the date of a meeting of the board of directors in March of each year, at the district offices a public hearing at which time any operator of a water-producing facility within the district or any person interested in the condition of the groundwater supplies of the district may in person or by representative appear and submit evidence concerning the groundwater conditions of the district. Appearances, also, may be made supporting or protesting the written engineering investigation and report. The board of directors shall, before the levy of the replenishment assessments, find and determine the average annual overdraft for the immediate past five water years; the estimated annual overdraft for the current water year; the estimated annual overdraft for the ensuing water year; the accumulated overdraft as of the last day of the preceding water year; the estimated accumulated overdraft as of the last day of the current water year; the amount of water which should be purchased for the replenishment of the groundwater supplies of the district for the ensuing water year, and the sum of money necessary therefor.

- (c) That finding and determination by the board shall be conclusive and binding upon all persons and parties.

Section 27. Replenishment assessment; levy; rate; hearing; additional assessment

- (a) If the board of directors finds and determines that an overdraft, either annual or accumulated, does exist, the board may levy and assess a charge or replenishment assessment against all persons operating water-producing facilities and producing water during the ensuing water year, which assessment or charge shall be computed and fixed at a uniform rate per acre-foot of such water production.
- (b) The total of the replenishment assessment levied in any year shall not exceed an amount of money found to be necessary to purchase sufficient water to replenish the average annual overdraft for the immediate past five water years plus an additional amount of water sufficient to eliminate over a period of not less than 10 years nor more than 20 years, the accumulated overdraft, plus an amount of money to pay the costs of initiating, carrying on, and completing any of the powers, projects, and purposes for which this district is organized.
- (c) On the date of a meeting of the board of directors in April of each year, the board of directors shall hold a public hearing for the purpose of determining the need and desirability of levying a replenishment assessment and fixing the rate thereof. In computing and fixing the replenishment assessment rate, there shall be allowed that percent, not to exceed 10 percent, as shall be determined by the board of directors of the district for delinquencies. Notice of the hearing shall be published in the district pursuant to Section 6061 of the Government Code, at least 10 days prior to the date set for the hearing.
- (d) Any replenishment assessment levied by this section shall be in addition to any general assessment levied by the district.
- (e) Clerical errors occurring or appearing in the name of any person or in the description of the water-producing facility where the production of water therefrom is otherwise properly assessed, or in the making or extension of any assessment upon the records, which do not affect the substantial rights of the assessee or assessees, shall not invalidate the assessment.

Section 27.1. Additional replenishment assessment; hearing; finding and determination by board; irrigation defined

At the time of the hearing specified in Section 27 of said act the board of directors may also hold a hearing for the purpose of determining the need and advisability of levying an additional replenishment assessment against all persons operating water-producing facilities for all purposes other than irrigation at a uniform rate per acre-foot for water produced during the ensuing year. Any such replenishment assessment levied and assessed under this section shall be in addition to the replenishment assessment authorized by said Section 27 and may be levied and assessed in such amounts necessary for the purposes set forth in Section 23 of this act, without regard to the limitations provided by said Section 27. Before levying said additional replenishment assessment, the board must find and determine by a vote of eight members that said additional replenishment assessment is necessary for the protection of the water supply purposes of the district and that the amount thereof is reasonable. In computing and fixing the additional replenishment assessment rate, there shall be allowed such percent, not to exceed 10 percent, as shall be determined by the board of directors of the district for delinquencies.

"Irrigation," as used in this act, means the act of first using water to place it on lands by any means for the commercial production of agricultural, horticultural, or floricultural crops and for pasture grown for commercial purposes.

Section 28. Replenishment assessment; notice

The district, after the levying of the replenishment assessment, shall give notice thereof to the operator of each water producing facility in the district as disclosed by the records of said district, which notice shall state the rate of the replenishment assessment for each acre-foot of water to be produced during the ensuing water year. Said notice may be sent by postal card or by other first class mail with postage prepaid by said district.

Section 28.1. Additional replenishment assessment; notice

The district, at the time of giving the notice specified in Section 28 of said act, shall also give notice to the operator of each water-producing facility in the district as disclosed by the records of said district, which notice shall state the rate of the additional replenishment assessment, if any, levied and assessed pursuant to Section 27.1 of this act.

Section 29. Water production statement; payment of replenishment expenses; fixed payment by small producers

- (a) (1) Each operator of a water-producing facility within the district, until the facility has been permanently abandoned, shall file with the district, on or before January 31, and on or before July 31 of each year, a statement setting forth all of the following:
 - (A) The total production in acre-feet of water for the preceding six month period of January to June, inclusive, or July to December, inclusive, as applicable.
 - (B) A general description or number locating each water-producing facility.
 - (C) The method or basis of the computation of water production.
 - (2) If no water has been produced from the water-producing facility during the reporting period, a statement shall be filed as provided for herein stating that no water has been produced during that period.
 - (3) A statement shall be verified by a written declaration that it is made under the penalties of perjury.
 - (4) The replenishment assessment and the additional replenishment assessment are payable to the district on or before the last date on which the water production statements are to be filed and are computed by multiplying the production in acre-feet of water as disclosed in the statement, by the replenishment assessment rate and the additional replenishment assessment rate.
 - (5) When an operator has permanently abandoned a water-producing facility, the operator shall give written notice of the abandonment to the district.
- (b) If any operator of a water-producing facility fails to pay the replenishment assessments when due, the district shall charge interest on the delinquent amount of the replenishment assessments at the rate of 1 percent each month or fraction thereof that the replenishment assessments remain delinquent.
- (c) (1) If any operator of a water-producing facility fails to file the water production statement on or before the last day of February or on or before the 31st day of August of each year, for the applicable reporting period, the district shall, in addition to charging interest as provided in this section, assess against the operator a penalty charge, in an amount of 10 percent of the amount due the district.

- (2) Paragraph (1), as amended in the first year of the 1995-96 Regular Session of the Legislature, applies to any operator of a water producing facility that fails to file a required water production statement on or after the effective date of those amendments, and to any operator that failed to file a required water production statement on or before July 31, 1994, for the preceding January to June, inclusive.
- (d) The board of directors may, at the time of fixing the replenishment assessment rate and additional replenishment assessment rate, provide by resolution that the operator of any water-producing facility with a discharge opening not greater than two inches in diameter and that does not provide domestic or irrigation water for an area in excess of one acre may pay a fixed amount as the operator's replenishment assessment and additional replenishment assessment, in lieu of filing a sworn statement regarding groundwater production.

Section 29.1. Filing false or fraudulent water production statement; misdemeanor; penalty

Any person who, with intent to evade any provision or requirement of this act, files with the district any false or fraudulent water production statement, is guilty of a misdemeanor and is punishable by a fine not to exceed five hundred dollars (\$500) or imprisonment in the county jail not to exceed six (6) months, or by both such fine and imprisonment.

Section 30. Amended statement; correction of records

Upon good cause shown an amended statement of water production may be filed or a correction of the records may be made at any time prior to the final date for filing the next semiannual water production statement.

Section 31. Record of water production; record of replenishment assessments and charges

The district shall maintain records in which shall be noted the annual water production from each water producing facility within the district.

The district shall also maintain records in which shall be entered each district assessment levy and charge, a general description of the property upon which each water producing facility is located and any identifying number or code which may be assigned to such facility.

Section 31.5. Basin equity assessments; production requirements and limitations

- (a) Basin equity assessments and production requirements and limitations on persons and operators within the district are declared to be in furtherance of district activities in the protection of water supplies for users within the district which are necessary for the public health, welfare, and safety of the people of this state. The basin equity assessments and the production requirements and limitations provided for in this act may be imposed upon, and applied to, all persons and producers within the district for the benefit of all who rely directly or indirectly upon the groundwater supplies of the district.
- (b) The basin equity assessments imposed pursuant to this act against all persons and operators within the district may be uniform or nonuniform in amount, as determined by the board of directors of the district, in order to effectuate the goals and purposes of the district. The proceeds of the basin equity assessments imposed and collected shall be used to equalize the cost of water to all persons and operators within the district and to acquire water to replenish the groundwater supplies of the district.
- (c) As used in this act:
 - (1) "Supplemental sources" means sources of water outside the watershed of the Santa Ana River, excepting that portion of that watershed on and along Santiago Creek upstream of the downstream toe of the slope of the Villa Park Flood Control Dam, such as, but not limited to, water produced from the Metropolitan Water District of Southern California.
 - (2) "Basin production percentage" means the ratio that all water to be produced from groundwater supplies within the district bears to all water to be produced by persons and operators within the district from supplemental sources and from groundwater within the district during the ensuing water year.
- (d) The district shall annually order an engineer employed by the district to prepare an investigation and report. The investigation and report shall set forth all of the following information, together with other information requested by the district, relating to the preceding water year:
 - (1) Amount of water produced by persons and operators from groundwater within the district.
 - (2) Amount of water produced by persons and operators from supplemental sources.

- (3) Amount of water produced by persons and operators from all other sources.
 - (4) Condition of groundwater supplies within the district.
 - (5) Information as to the probable availability of water from supplemental sources during the next succeeding fiscal year.
 - (6) The cost of producing water from groundwater within the district, including any replenishment assessment of the district.
 - (7) The cost of water produced within the district from supplemental sources.
- (e)
- (1) On the second Wednesday in February of each year, the engineering investigation and report shall be delivered to the secretary of the district.
 - (2) The secretary shall publish, pursuant to Section 6061 of the Government Code, a notice of the receipt of the report and of the public hearing to be held on the date of a meeting of the board of directors in March, in a newspaper of general circulation printed and published within the district, at least 10 days prior to the date at which the public hearing regarding water supplies within the district is to be held.
 - (3) The notice, among any other information that the district may provide, shall include an invitation to all persons or operators within the district to call at the offices of the district to examine the engineering investigation and report.
 - (4) The board of directors shall hold on the date of a meeting of the board in March of each year, a public hearing at which a person or operator within the district, or any person interested in the amounts and source from which all persons and operators produce their total supply of water, as well as the estimated difference in the cost of water produced from groundwater within the district or supplemental sources, may appear and be heard, in person or by representative.
- (f)
- (1) On the date of a meeting of the board of directors in April of each year, the board of directors shall hold a public hearing to determine the need and desirability of imposing basin equity assessments and the amounts thereof, the need for establishing production requirements and limitations, and the extent of those requirements and limitations as to each person or operator within the district for the ensuing water year.

- (2) In computing and fixing the amount of any basin equity assessment for any person or operator within the district, the board may allow a percentage for delinquencies, not to exceed 10 percent, as determined by the board.
- (3) Notice of the proposed hearing shall be published in the district pursuant to Section 6061 of the Government Code at least 10 days prior to the date set for the hearing.
- (4) The notice shall set forth all of the following:
 - (A) That a report regarding water supplies within the district has been prepared.
 - (B) The date, time, and place of the proposed hearing.
 - (C) A statement that the board will consider at the hearing the need and desirability of imposing basin equity assessments and the amounts of those assessments, as well as establishing production requirements and limitations, on persons and operators within the district for the ensuing water year and surcharges in connection with those requirements and limitations.
 - (D) An invitation to all persons and operators to appear at the public hearing and be heard in regard to any of the foregoing matters.
- (g) (1) At the hearing, the board shall hear, take, and receive all competent evidence presented regarding the need for basin equity assessments, production requirements and limitations in general, and specifically, the extent of those requirements or limitations as to each person or operator within the district, the amount of the basin equity assessment which shall be imposed upon each person and operator for all purposes other than irrigation at uniform or nonuniform rates and may be imposed upon each person and operator for irrigation purposes at uniform or nonuniform rates for the ensuing water year, and the amount of surcharges for production in excess of the basin production limitations.
- (2) After the hearing, the board may, by a resolution adopted by a vote of not less than eight members of the board, find and determine for the ensuing water year all of the following:
 - (A) The estimated total amount of water to be produced by all persons and operators within the district from the groundwater within the district and the estimated amount to be produced by persons and operators from supplemental sources.

- (B) The basin production percentage.
- (C) That a basin equity assessment and production requirement and limitation from groundwater within the district are necessary for the protection of the water supply of the district.
- (D) The surcharge, in an amount to be determined in the discretion of the board, for production in excess of the production limitations.
- (E) The amount of the basin equity assessment to be imposed upon each person and operator in a dollar amount per acre-foot of water produced from the groundwater supply for all purposes other than irrigation, which need not be uniform as to each person or operator within the district, and that the amount is reasonable.
- (F) The amount of the basin equity assessment to be imposed upon each person and operator in a dollar amount per acre-foot of water produced from the groundwater supply for irrigation purposes, which need not be uniform as to each person or operator within the district, and that the amount is reasonable.
- (G) Production requirements or limitations and the surcharge for production in excess of the basin production limitations on persons and operators within the district that will apply during the ensuing water year. The requirements and limitations shall be on the amount of groundwater produced by those persons and operators expressed in a percentage of overall water produced or obtained by those persons or operators from groundwater within the district and from supplemental sources.
- (H) That during the ensuing water year, upon the district giving published notice pursuant to Section 6061 of the Government Code in a newspaper of general circulation printed and published within the district at least 10 days prior to such a hearing, a subsequent public hearing may be held to modify the basin production percentage, any basin equity assessment, any production requirement or limitation, or the surcharge for production in excess of the production limitation established by the district. A modification, if any, shall be effective on the date established by the board and the district. The district shall give notice of the modification 10 days prior to the effective date of the modification pursuant to subdivision (e).

- (h)
 - (1) The board may exclude all persons and operators who produced 25 acre-feet or less of water from groundwater within the district during the ensuing water year from the imposition of the basin equity assessment and the production requirements and limitations.
 - (2) All findings and determinations made by the board pursuant to this section are final, conclusive, and binding upon all persons and parties.
- (i)
 - (1) The district shall thereafter, and in any event prior to July 1 in each year, give notice to each person or operator within the district. The notice shall include all of the following information:
 - (A) The amount of the basin equity assessment imposed upon that person or operator per acre-foot of water produced for purposes other than irrigation and the amount of the basin equity assessment imposed upon that person or operator per acre-foot of water produced for irrigation purposes.
 - (B) The basin production percentage.
 - (C) The production requirement or limitation upon the person or operator.
 - (D) The amount of surcharge imposed for production in excess of the basin production limitations.
 - (2) The notice required by this subdivision and the notice of any subsequent modifications may be sent by postcard or by other first-class mail with postage prepaid by the district.
- (j)
 - (1) Each person or operator within the district not excluded from the imposition of a basin equity assessment and the production requirements and limitations, shall file with the district, on or before the 30th day of September of each year, a basin equity assessment report in the form prescribed by the district setting forth the total amounts of water produced from groundwater within the district and from supplemental sources during the preceding water year by the person or operator. The statement shall be verified by a written declaration under penalty of perjury.
 - (2) If the person or operator has been required by the district to produce, or has in fact produced, more water from groundwater within the district than the equivalent of the basin production percentage determined by the district, that person or operator shall pay to the district, on or before September 30, an amount determined by the number of acre-feet of water which the person or operator has produced from groundwater within the

district in excess of the acre-foot equivalent of the basin production percentage multiplied by the basin equity assessment rate applicable to that person or operator, plus the amount of surcharge due for production in excess of the production limitations.

- (3) (A) If a person or operator, pursuant to the requirement of the district, has produced from groundwater within the district less than of the equivalent of the basin production percentage, the district shall pay the person or operator, on or before the 30th day of November, from the basin equity assessment fund, an amount determined by the number of acre-feet by which the production of the person or operator from groundwater as required by the district is less than the acre-foot equivalent of the basin production percentage multiplied by the basin equity assessment rate applicable to that person or operator.
- (B) If the production of the person or operator from groundwater is more than the production required by the district and less than the equivalent of the basin equity production percentage, then the district shall pay the person or operator an amount determined by the number of acre-feet by which the actual production of the person or operator from groundwater is less than the acre-foot equivalent of the basin production percentage multiplied by the basin equity assessment applicable to that person or operator.
- (k) If any person or operator fails to pay, when due, the applicable basin equity assessment or surcharge due for production in excess of the production limitations, the district shall charge interest on the delinquent amount at the rate of 1 percent each month or fraction thereof for which the amount remains delinquent. Should any person or operator within the district fail to file a basin equity assessment report on or before the 30th day of September of any year, the district shall, in addition to charging interest, assess a penalty charge against that person or operator in the amount of 10 percent of the amount found by the district to be due.
- (l) (1) The district may require other reports from persons and operators as necessary and desirable in the application of the basin equity assessment procedures.
- (2) Upon good cause shown, an amendment to any report required under this section may be filed, or a correction of any report may be made, within six months after the date the report was filed with the district.

Section 31.6. Transfers from general fund to basin equity assessment fund; repayment

The board of directors may from time to time transfer up to a maximum of two hundred fifty thousand dollars (\$250,000) to the basin equity assessment fund from the general fund in the event that there is insufficient money in the basin equity assessment fund for expenditures authorized in Section 31.5. All of the money so transferred shall be repaid to the general fund as soon as it is financially feasible to do so. It shall be financially feasible to repay the general fund when there is money in the basin equity assessment fund over and above that necessary to make expenditures, as specified in Section 31.5, and to provide a reasonable reserve for the making of such expenditures.

Section 32. Unregistered facility; injunction

The superior court of the county in which said district lies may issue a temporary restraining order upon the filing by said district with said court of a verified petition or complaint setting forth that the person named therein as defendant is the operator of a water-producing facility which has not been registered with the district, that such defendant is delinquent in the payment of a replenishment assessment, or that the defendant is delinquent in the payment of a basin equity assessment. Such temporary restraining order shall be returnable to said court on or before ten (10) days after its issuance.

The court may issue and grant an injunction restraining and prohibiting the named defendant from the operation of any water-producing facility when it is established by the preponderance of the evidence at a hearing that the defendant has failed to register such water-producing facility with said district, that the defendant is delinquent in a replenishment assessment thereon, or has not paid or is delinquent in the payment of a basin equity assessment. Such court may provide that the injunction so made and issued shall be stayed for a period not to exceed 10 days to permit the defendant to register the water-producing facility or to pay the delinquent replenishment assessment, or to pay the delinquent basin equity assessment.

Service of process is completed by posting a copy of the summons and complaint upon the water-producing facility or the parcel of land upon which it is located and by personal service upon the named defendant.

The right to proceed for injunctive relief granted herein is an additional right to those which may be provided elsewhere in this act or otherwise allowed by law. The procedure provided in Part 2, Title 7, Chapter 3 of the Code of Civil Procedure regarding injunctions shall be followed except insofar as it may herein be otherwise provided. Said district shall not be required to provide an undertaking or bond as a condition to granting injunctive relief.

Section 33. Excess production; Investigation; meters; order limiting production; protest; notices

If said district has probable cause to believe that the production of water from any water-producing facility is in excess of that disclosed by the sworn statements covering such water-producing facility, or if no statements are filed covering any water-producing facility, said district may cause an investigation and report to be made concerning the production of water from each such water-producing facility. Said district may fix the amount of water production from any such water-producing facility at an amount not to exceed the maximum production capacity of such water-producing facility; provided, however, where a water-measuring device is permanently attached thereto, the record of production as disclosed by such water-measuring device shall be presumed to be accurate and the burden is upon said district to establish to the contrary.

After such determination has been made by said district, a written notice thereof shall be mailed to the person operating such water-producing facility at his address as shown by the district's records. Any such determination made by said district shall be conclusive on all persons having an interest in such water-producing facility and the replenishment assessment interest and penalties thereon, payable forthwith, unless such person files with the board of directors of said district within 10 days after the mailing of such notice a written protest setting forth the ground or grounds for protesting the amount of production so fixed. Upon the filing of such protest, said board of directors thereafter shall hold a hearing at which time the total amount of the water production and the replenishment assessment thereon shall be determined, which shall be conclusive if based upon substantial evidence. A notice of such hearing shall be mailed to protestant at least 10 days before the date fixed for the hearing. Notice of the determination by said board of directors shall be mailed to each protestant who shall have 20 days from the date of mailing to pay the replenishment assessment, interest and penalties provided by the provisions of this act.

Notice as required in this section shall be given by deposit thereof in any postal facility regularly maintained by the government of the United States, in a sealed envelope with postage paid, addressed to the person on whom it is served at his name and address as disclosed by the records of said district. The service is complete at the time of deposit.

Section 33.1. Investigation and report concerning water production; authority of district to fix amount of production; notice; protest; hearing

If the district has probable cause to believe that the production of water from ground water by any person or operator is less than or in excess of that disclosed by the sworn statements filed by such person or operator pursuant to Section 31.5, or if no such statements are filed by any person or operator, the district may cause an investigation and report to be made concerning the production of water by such person or operator. The district may fix the amount of water produced from ground water within the district by such person or operator at an amount not to exceed the total maximum production capacity of all water-producing facilities of such person or operator; provided, however, where a water measuring device is permanently attached to any such water-producing facility, the record of production as disclosed by such water measuring device shall be presumed to be accurate and the burden is upon said district to establish the contrary.

After such determination has been made by the district, a written notice thereof shall be mailed to such person or operator at his address as shown by the district's record. Any such determination made by the district shall be conclusive on such person or operator and any basin equity assessment due by reason thereof, together with interest and penalties thereon, shall be payable forthwith, unless such person files with the board of directors of the district within 10 days after the mailing of such notice a written protest setting forth the ground or grounds for protesting the amount of production so fixed. Upon the filing of such protest, the board of directors thereafter shall hold a hearing at which time the total amount of water production by said person or operator shall be determined, which determination shall be conclusive if based upon substantial evidence. A notice of such hearing shall be mailed to protestant at least 10 days before the date fixed for the hearing. Notice of the determination of the board of directors shall be mailed to each protestant.

Notice as required in this section shall be given by deposit thereof in any postal facility regularly maintained by the government of the United States in a sealed envelope postage prepaid, addressed to the person on whom it is served at his address as disclosed by the records of said district. Service is complete at the time of deposit.

Section 34. Delinquent replenishment or basin equity assessment

The district may bring a suit in the court having jurisdiction against any operator of a water-producing facility within the district for the collection of any delinquent replenishment assessment or basin equity assessment. As a provisional remedy in any such action, the district may seek an attachment against the property of any such delinquent water-producing facility operator named as a defendant therein, the appointment of a receiver to collect revenues generated directly or indirectly to that operator from the production of the water-producing facility, or both an attachment

and the appointment of a receiver. Prior to making application to the court for an order providing for the attachment of property or the appointment of a receiver, the district shall provide mailed notice to each person or entity known to the district to be an operator of or a user or consumer of water from the water-producing facility, which notice shall set forth the amount of the delinquency, the remedy or remedies to be sought by the district, and the reasons therefor. The cost and expenses incurred in executing the attachment or for the receiver shall be recovered as costs by the district. The court having jurisdiction of the suit may, in addition to allowing recovery of costs to the district as allowed by law, fix and allow as part of the judgment, interest and penalties as provided in Section 29. Should the district, as a provisional remedy in bringing the suit, seek an attachment against the property of any named defendant therein, or the appointment of a receiver as described in this section, the district shall not be required to provide a bond or undertaking as is otherwise provided for in the Code of Civil Procedure of the State of California in Part 2 of Title 7 of Chapter 4 thereof.

Section 35. Production of water from unregistered facility and without meter; exemption; punishment

It shall be unlawful to produce water from any water producing facility within the boundaries of the Orange County Water District unless such water producing facility has been registered with said district and has a water measuring device affixed thereto capable of registering the accumulated amount of water produced therefrom.

This section is not applicable to operators of water producing facilities having a discharge opening two inches or less in diameter and which do not provide domestic or irrigation water for an area in excess of one acre who pay, in accordance with district regulations a fixed charge in lieu of affixing a water measuring device.

Violation of this provision shall be punishable by a fine not to exceed five hundred dollars (\$500) or imprisonment in the county jail for not to exceed six (6) months or by both such fine and imprisonment. Each day of operation in violation hereof shall constitute a separate offense.

Section 35.1. Injuring, removing or tampering with meters; misdemeanor; penalty

Any person who injures, alters, removes, resets, adjusts, manipulates, obstructs or in any manner interferes or tampers with or procures or causes or directs any person to injure, alter, remove, reset, adjust, manipulate, obstruct or in any manner interfere or tamper with any water measuring device affixed to any water producing facility as required by this act, so as to cause said water measuring device to improperly or inaccurately measure and record said water production, is guilty of a misdemeanor and is punishable by a fine not to exceed five hundred dollars (\$500) or imprisonment in the county jail not to exceed six (6) months, or by both such fine and imprisonment.

Section 37. Claims; treasurer's report

No claim shall be paid by the treasurer until allowed by the board, and only upon a warrant or check signed by the president and countersigned by the secretary or signed and countersigned by such persons as the board may approve. The treasurer shall report, at such times as the board of directors shall request, the amount of money of the district on deposit, the amount of receipts, and the amount or amounts paid out of the district funds since the last preceding report. The report shall be verified and filed with the secretary of the board.

Section 38. Replenishment and basin equity assessments; exclusion of certain facilities

Any water-producing facility which is not producing ground water from a zone replenished by the Santa Ana River or its tributaries may be excluded by order of the board of directors from the payment of the replenishment assessment and from the levy of the basin equity assessment and the production requirements and limitations provided by this act after the filing of a verified petition by the owner of a water-producing facility.

The petition shall be filed with the board of directors of the district and shall describe the land upon which the water-producing facility is located, a description of the water-producing facility, and the names and addresses of the owners of the water-producing facility, and shall set forth that such water-producing facility is not producing ground water from a zone replenished by the Santa Ana River or its tributaries. Petitioner shall pay to the district the expenses of advertising and costs incident to the proceedings.

Upon the filing of the petition, the secretary of the district shall cause an investigation to be made by the district geologist or an engineer or engineers to determine whether the water-producing facility is or is not producing ground water from a zone replenished by the Santa Ana River or its tributaries. Upon completion of such investigation a report of the results thereof shall be filed with the board of directors and a copy shall be mailed to the petitioner.

Upon the filing of the report, the board of directors shall fix a time for holding a hearing regarding the petition and report, which time shall be not less than 10 days and not more than 75 days after the filing of the report, and shall cause a notice of the filing thereof and time and place fixed for the holding of the hearing to be published one time at least 10 days before the date fixed for such hearing in a newspaper of general circulation printed and published within the district. The district shall also mail to the petitioner a notice of such hearing, not less than 7 days prior to the date of the hearing.

Any owner of a water-producing facility within the district may appear in person or by representative at said hearing either in behalf or in opposition to the granting of the request of said petition. If upon such hearing the

board of directors determines that the petition complies with the provisions of this section, and determines and finds that such water-producing facility is not producing ground water from a zone replenished by the Santa Ana River or its tributaries, the board of directors shall make an order that such water-producing facility shall be excluded from the payment of the replenishment assessment and from the levy of the basin equity assessment and the production requirements and limitations as provided in this act. From the making of such order the water-producing facility so excluded shall no longer pay any replenishment assessment or basin equity assessment thereafter levied but such order of exclusion shall not invalidate in any manner any replenishment assessment or basin equity assessment theretofore levied.

The exclusion provisions provided in this section apply only to exclusion of water-producing facilities from the payment of the replenishment assessments or basin equity assessments authorized by this act, but do not in any manner exclude or limit the rights of the district to levy and collect a general assessment as provided in this act.

The finding and determination by said board is final and conclusive.

Section 38.1. Exemption from payment of replenishment and basin equity assessments

- (a) Any water-producing facility which is producing water within the exterior boundaries of the district may be exempted by order of the board of directors from any or all of the following, upon the filing of a verified petition by the owner of the water-producing facility and the findings required to be made by this section:
 - (1) The payment of all or any portion of the replenishment assessments.
 - (2) The levy of all or any portion of the basin equity assessment applicable to the owner or operator of the facility or facilities.
 - (3) The production requirements and limitations provided for in this act.
- (b) The petition shall be filed with the board of directors of the district and shall include a description of the land upon which the water-producing facility is located, a description of the water-producing facility, a statement of water quality analysis of the water produced by the water-producing facility, the names and addresses of the owners of the water-producing facility, and shall set forth the purpose or purposes for which any water produced from the water-producing facility will be used. The petition may include one or more water-producing facilities located in the same general area, provided each of those facilities are owned by the same owner. The petitioner shall pay to the district the expenses of advertising and costs incident to the proceedings.

- (c) Upon the filing of the petition, the general manager of the district shall cause an investigation to be made by the district geologist or an engineer or engineers for the purpose of determining whether the water produced by the water-producing facility is suitable or unsuitable for domestic or agricultural purposes. Upon completion of the investigation, a report of the results thereof shall be filed with the board of directors and a copy shall be mailed to the petitioner. Upon filing of the report, the board of directors shall fix a time for a hearing upon the petition and report, which time shall be not less than 10 days and not more than 75 days after the filing of the report, and shall cause a notice of the filing thereof and time and place fixed for the holding of the hearing to be published one time, at least 10 days before the date fixed for the hearing, in a newspaper of general circulation printed and published within the district. A copy of the notice shall be mailed to the petitioner by first-class mail with postage prepaid not less than seven days prior to the date of the hearing.
- (d) At the time of the hearing, the board of directors shall determine the quality of the water produced from the water-producing facility or facilities and the impact on the water supplies of the district from production of that water. The board of directors may exempt the water produced from the water-producing facility or facilities from the levy and payment of all or a portion of the replenishment assessments and basin equity assessment, and from the production requirements and limitations under this act, as follows:
- (1) If the board of directors finds and determines that the water produced from the facility or facilities or any of them is unsuitable for domestic or agricultural purposes, and further finds and determines that the production of that unsuitable water will have no adverse effects on the groundwater supplies of the district, the board of directors may make an order that water produced from the water-producing facility or facilities shall be exempted from any or all of the following:
 - (A) The payment of all or any portion of the replenishment assessments.
 - (B) The levy of all or any portion of the basin equity assessment applicable to the owner or operator of the facility or facilities.
 - (C) The production requirements and limitations as provided in this act.
 - (2) If the board of directors finds and determines that the water produced from the facility or facilities or any of them has or will have a beneficial effect upon the quality of the water supplies of the district, the board of directors may make an order that water produced from the water-producing facility or facilities shall be exempted from either or both of the following:

- (A) The levy of all or any portion of the basin equity assessment applicable to the owner or operator of the facility or facilities.
 - (B) The production requirements and limitations as provided in this act.
- (e) Nothing contained in this section shall exclude the operator of any water-producing facility exempted from the payments of all or any portion of replenishment assessments from affixing a water-measuring device to the facility as provided in Section 35 or from filing the water production statements provided for in Section 29.
 - (f) The board of directors of the district may from time to time require that the owner of any water-producing facility or facilities, which are exempted from the payment of all or any portion of either the replenishment assessments or the basin equity assessments, or from the production requirements or limitations, provide additional water quality analyses of water being produced from any water-producing facility which has been so exempted.
 - (g) The district shall at all times have the right to enter upon the premises where an exempted water-producing facility or facilities are located for the purpose of obtaining samples of the water being produced.
 - (h) If at any time it appears that the quality of water being produced from a water-producing facility which has been exempted from payment of all or any portion of the replenishment assessments, from the levy of all or any portion of the basin equity assessment applicable to the owner or operator of that facility or facilities, or from the production requirements and limitations, has become suitable for domestic or irrigation purposes, or if at any time it appears that the production of that water does not have a beneficial effect upon the quality of the water supplies of the district, the board of directors shall fix a time for a hearing to determine whether the water produced from the water-producing facility either:
 - (1) Has become suitable for domestic or agricultural purposes in the case of any exemption granted under paragraph (1) of subdivision (d).
 - (2) That the production of that water no longer has a beneficial effect upon the quality of the water supplies of the district in the case of any exemption granted under paragraph (2) of subdivision (d). The board of directors of the district shall cause a notice of the hearing to be published one time, at least 10 days before the date fixed for the hearing, in a newspaper of general circulation printed and published within the district. A copy of the notice shall be mailed to the owner of the water-producing facility by first-class mail with postage prepaid not less than seven days prior to the date of the hearing.

- (i) If upon the hearing, the board of directors finds and determines either that the quality of the water being produced from the water-producing facility has become suitable for domestic or irrigation purposes or that the production of water therefrom will have an adverse effect on the groundwater supplies of the district in the case of any exemption granted under paragraph (1) of subdivision (d), or that the production of water from the water-producing facility does not have a beneficial effect upon the quality of the water supplies of the district in the case of any exemption granted under paragraph (2) of subdivision (d), the board of directors shall make an order that the exemption or exemptions previously granted with respect to that water production shall be canceled or modified. Notice of the cancellation or modification of any exemption shall be sent to the owner of the specified water-producing facility by first-class mail with postage prepaid. The effective date of the cancellation or modification of any exemption shall be 10 days after the date of mailing of the notice of cancellation or modification.

Section 39. Acquisition of right to flood; relocation of streets, etc.

In case any street, road, highway, railroad, canal, or other property subject or devoted to public use shall become subject to flooding or other interference by reason of the construction or proposed construction of any works of the district or project the board of directors of the district may acquire by agreement or condemnation the right so to flood or otherwise interfere with such property, within or without the district whether it be publicly or privately owned, and if such right be acquired by condemnation, the judgment may, if the court shall find that public necessity or convenience so requires, direct the district to relocate such street, road, highway, railroad, canal or other property in accordance with plans prescribed by the court. The right-of-way is hereby given, dedicated and set apart to locate, construct and maintain any of the works of the district over and through any of the lands which are now, or may become the property of this state and also there is given, dedicated and set apart, for the uses and purposes aforesaid, all waters and water rights belonging to this state within the district.

Section 41. Unauthorized indebtedness

The board of directors or other officers of said district shall have no power to incur any debt or liability whatever in excess of the express provisions of this act; and any debt or liability incurred in excess of such express provisions shall be and remain absolutely void.

Section 42. Unpaid warrants; registration; interest; subsequent payment

Whenever any warrant of the district payable on demand is presented to the treasurer for payment when funds are not available for the payment thereof, it shall thereafter draw interest at a rate to be determined by resolution of the board of directors, not, however, to exceed seven per centum per annum, until public notice is given that such funds are available. Upon the presentation of any such warrants for payment, when funds of the district are not available to pay the same, the treasurer shall endorse thereon the words "funds not available for payment," with the date of presentation and shall note thereon the rate of interest that such warrant shall thereafter bear and shall sign his name thereto. He shall keep a record showing the number and amount of each such warrant, the date of its issuance, the person in whose favor it was issued, and the date of its presentation for payment. Whenever there is sufficient money in the treasury to pay all such outstanding warrants or whenever the board of directors shall order that payment shall be made of all such warrants presented for payment prior to a certain date, and there is sufficient money available for such payments, the treasurer shall give notice by publication in some newspaper published in the district, stating that he is prepared to pay all warrants of the district for the payment of which funds were not available upon their original presentation, or all such warrants which were presented for payment prior to the date fixed by the board of directors, as the case may be, and no further description of the warrants entitled to payment need be made in the notice. Upon the presentation of any warrant entitled to payment under the terms of the notice, the treasurer shall pay it, together with interest thereon at the rate specified by the board of directors, from the date of its original presentation for payment to the date of the first publication of said notice, and all warrants for the payment of which funds are declared in the notice to be available shall cease to draw interest at the time of the first publication of the notice. The treasurer shall enter in the record hereinbefore required to be kept, the dates of the payment of all such warrants, the names of the persons to whom payments are made and the amount paid to each person.

Section 43. Tax exemption of certain district property

The rights of way, ditches, flumes, pipe lines, dams, water rights, reservoirs, and other property of like character, belonging to the district shall not be taxed for State and county or municipal purposes.

Section 44. Action to test validity of assessment

An action to determine the validity of an assessment may be brought pursuant to Chapter 9 (commencing with Section 860) of Title 10 of Part 2 of the Code of Civil Procedure.

Section 45. Statement, report, notice or other document required to be filed or given to district; date of filing or giving

Any statement, report, notice, or other document required by this act to be filed with or given to the district shall be deemed filed or given as of the date the same is physically delivered to the district office or as of the date it is postmarked when the same is placed in the United States mail addressed to the district at its office with first-class postage prepaid.

Section 48. Limitation of actions

No contest of any thing or matter herein provided for shall be made other than within the time and manner herein specified, and in any such contest the findings of facts or conclusions of said board of directors, upon all matters, shall be conclusive, unless the action be instituted within six months after such findings or conclusion was made, except as otherwise provided in this act.

Section 49. Willful violation of duty

For any willful violation of any express duty herein provided for, on the part of any officer herein named, he shall be liable upon his official bond, and be subject to removal from office, by proceedings brought in the superior court of Orange County by any assessment payer of the district.

Section 50. Annexation; authorization; effect

The boundaries of said district may be changed to include within said district additional land whether contiguous or not as hereinafter in this act provided, and the inclusion within said district of such lands shall be deemed to effect a change of the boundaries of said district; but no change in the boundaries of said district shall impair or affect its organization or its right in or to property, or any of its rights or privileges of whatever kind or nature, nor shall it affect, impair or discharge any contract, obligation, lien or charge for or upon which it was or might become liable or chargeable had such change of its boundaries not been made.

Whenever additional land is included within said district, whether contiguous or not, the inclusion may be upon such reasonable terms and conditions as said district determines.

Section 51. Annexation; petition

The holder or holders of title, or a majority of the holders of title, of any tract or parcel of land contiguous or noncontiguous to the boundaries of said district, and within the County of Orange, may file in the office of the board of directors of said district, a petition praying that said tract or parcel of land be included within said district; provided, that if there is more than one holder of title of said land, the petitioners must include the holders of title of at least one-half of the area of said land. If any petitioner is the owner of an undivided interest in any land described in the petition, he shall be deemed to be the owner of such proportion of the area of the land in which he has an interest as his interest bears to the whole of such land. Each signature to such petition shall be acknowledged as provided by law for signatures to an instrument to entitle it to be recorded.

Section 52. Annexation; notice to show cause

The secretary of the board of directors shall cause a notice of the filing of the petition to be published in the district pursuant to Section 6066 of the Government Code. The notice shall state the purpose of the petition and describe the boundaries of the tract of land proposed to be included and give the names of the petitioners, and it shall notify all persons interested in or that may be affected by the proposed inclusion of the land within the district to appear at the office of the board at a time named in the notice for the hearing of the petition, and objections thereto and show cause in writing, why the land or any of it should not be included as proposed in the petition. The time to be specified in the notice for the hearing of the petition and any objections thereto shall be a meeting of the board after the expiration of the time for the publication of the notice. The petitioners shall advance to the secretary sufficient money to pay for the publication of the notice, otherwise the secretary shall refuse to publish the notice.

Section 53. Annexation; hearing upon petition and objections

The board of directors, at the time and place mentioned in the said notice, or at such other time or times to which the hearing of said petition may be adjourned, shall proceed to hear the petition, and all the objections thereto, presented in writing by any person showing cause as aforesaid why said proposed change of the boundaries of the district should not be made. The failure by any person interested in said district, or in the matter of the proposed change of its boundaries, to show cause, in writing, as aforesaid, shall be deemed and taken as an assent on his part to a change of the boundaries of the district as prayed for in said petition, or to such a change thereof as will include a part of said lands. And the filing of such petition with said board, as aforesaid, shall be deemed and taken as an assent on the part of each and all of such petitioners to such a change of said boundaries that they will include the whole or any portion of the lands described in said petition.

Section 54. Annexation; condition to grant

The board of directors to whom said petition is presented may require, as a condition precedent to the granting of the same, that the petitioners shall severally pay to the district, such respective sums, as nearly as the same can be estimated (the several amount to be determined by the board), as said petitioners or their grantors would have paid in the aggregate to said district had said lands been included in such district at the time the same was originally formed.

Section 55. Annexation; determination; inclusion order; agreement to conditions; notice to show cause regarding conditions; dismissal of petition

If the board of directors, after the hearing provided for in section 53 hereof, then shall determine that said petition complies with the requirements of section 51 hereof, and that the inclusion within the district of the tract of land described in said petition, or some portion or portions thereof, will be for the best interests of the district, and if no protest against the inclusion of such land is made as provided in section 53 hereof, or if such protest be made and enough signatures be withdrawn therefrom so that said protest is no longer sufficient, the board shall order the boundaries of the district to be changed so that said tract of land, or such portion or portions thereof as the board shall deem it for the best interests of the district to include, shall be included within the district, but no land shall be so included in said district unless the board, after the hearing aforesaid, shall determine that it can be benefited by means of some of the works of the district, and if the board determines that only a portion or certain portions of the tract of land described in said petition should be included, said petition shall be dismissed unless the petitioners include a majority of the holders of title of said portion, or of each of said portions, of said tract, representing also at least one-half the area of said portion, or of each of said portions, or unless, within sixty days from the time such determination is made, there shall be filed with the board the consent in writing, acknowledged or proved as required in section 51 hereof, of a majority of the holders of title of said portion, or of each of said portions of said tract of land, representing also at least one-half of the area of said portion or of each of said portions. The order shall describe the boundaries of the land so included within the district, and if said land adjoins any portion of the district, the order shall also describe that portion of the boundary of the district which coincides with the boundary of the land so included, and for the purposes of said order the board may cause a survey to be made of such portions of said boundaries as may be deemed necessary. If more than one petition for the inclusion of land has been presented, the board may in one order include within the district any number of separate tracts of land. When the board finds that the inclusion of any land within the district without condition, would work an injury to the land already within the district, the board may prescribe conditions upon such inclusion of land either by providing for priority of right for the land already in the district, or for the payment of an additional annual charge upon the land included or such other conditions as the board may deem just. If any such conditions are prescribed by the board all the owners of the land subject to such conditions must, before any order for

its inclusion is made, sign an agreement with the district and project, describing the land so to be included and specifying such conditions. The signatures to said agreement must be acknowledged or proved as provided by law for the signatures of instrument to be recorded, and said agreement must be recorded in the office of the county recorder of the county in which such lands are situated, and thereupon and upon the recording of a copy of the order including said lands as hereinafter provided, said lands shall become a part of the district, subject to the conditions of said agreement.

Or in lieu of the execution and recording of said agreement signed and acknowledged by the owners of land to be included subject to said conditions, the board of directors may adjourn said hearing for not less than thirty days nor more than sixty days and shall give notice of the time and place of such adjourned hearing by publication in a newspaper of general circulation published in said county not less than once a week for three consecutive weeks; said notice so published shall set out at length the conditions proposed to be imposed and direct all persons interested to appear at the time and place specified in said notice and show cause, if any they have, why said conditions should not be imposed. At said hearing, or at any adjournment thereof duly entered upon the minutes, the board of directors by resolution may adopt, reject, or modify said conditions as may be just and make the order hereinabove provided for containing such of said conditions as may have been adopted and said order shall be final and conclusive upon a copy thereof duly certified by the secretary of the board being recorded in the office of the county recorder of said Orange County; provided, that said certified copy of said order shall not be recorded for a period of thirty days from and after the making of said order, during which thirty days a majority of the holders of title of the land described in the petition for inclusion and representing also more than one-half of the area of said tract or tracts of land, may file with the secretary of the board of directors a statement or statements in writing signed and acknowledged in the form required for the conveyance of real property, objecting to the inclusion of said lands with the conditions imposed thereon, whereupon said objections shall be laid before the board of directors and if the board finds the same to be in the form required by this section and signed by a majority of the holders of title of the tract or tracts of land described in said petition for inclusion, and representing more than one-half of the area of land described in said petition, then the board of directors shall enter in its minutes an order dismissing said petition for inclusion and no further proceedings shall be had thereupon, but said order of dismissal shall be without prejudice to the filing of another petition or other petitions for inclusion of the same land or any part thereof.

Section 56. Annexation; resolution stating facts; undertaking to pay election costs

If a protest against the inclusion of said lands, signed by not less than three percent of the holders of title or evidence of title to lands already within the district and holding the title or evidence of title to not less than three per cent in value of the lands within the district according to the last equalized assessment roll of said district, shall have been presented to the board of directors drawn, or after the withdrawal therefrom of any

signatures it shall still be signed by not less than three percent of the holders of title or evidence of title to lands within the district and holding the title or evidence of title to not less than three per cent in value of the lands within the district according to the last equalized assessment roll of said district, or if the board of directors deem it not for the best interests of the district to include therein the lands described in said petition for inclusion, or any of them, the board shall adopt a resolution stating the facts and describing the boundary of the tract of land proposed to be included in the district; but before calling the election provided for in the next section, the board may require an undertaking with sufficient sureties, from the petitioners for the inclusion of said land conditioned that the petitioners or the sureties will pay all the costs of holding said election in case such inclusion shall be denied.

Section 57. Annexation; election

Upon the adoption of the resolution mentioned in the last preceding section, the board shall order that an election be held within said district, to determine whether the boundaries of the district shall be changed as mentioned in said resolution; and shall fix the time at which said election shall be held, and cause notice thereof to be given and published. Said notice shall be given and published, and said election shall be held and conducted, the returns thereof shall be made and canvassed, and the result of the election ascertained and declared, and all things pertaining thereto conducted in the manner prescribed by this act for the holding of an election for directors. The ballots cast at said election shall contain the words "For change of boundary," or "Against change of boundary," or words equivalent thereto. The notice of election shall describe the proposed change of the boundaries in such manner and terms that it can readily be traced.

Section 58. Annexation; order conforming to result of election

If a majority of all the votes cast at said election shall be against such change of the boundaries of the district, the board shall order that said petition be denied, and shall proceed no further in that matter. But if a majority of such votes be in favor of such change of the boundaries of the district, the board shall thereupon order that the boundaries be changed in accordance with said resolution adopted by the board. The said order shall describe the entire boundaries of said district, and for that purpose the board may cause a survey of all such portions thereof to be made as the board may deem necessary.

Section 59. Annexation; sufficient protest; finding of best interest; election

If a sufficient protest against the inclusion of any lands shall have been presented to the board of directors and maintained as provided in section 56, and the board of directors nevertheless finds and declares that the inclusion of said lands or a portion thereof with certain conditions imposed will be for the best interests of the district, the board shall proceed the same as if no protest had been filed until the conditions imposed shall become final as provided by section 55 except that the order changing the boundaries of the district, with such conditions upon the lands to be included as may have been imposed shall not be recorded in the office of the county recorder and said order shall not be effective for any purpose until, as the result of an election thereon, which the board shall thereupon order as provided by section 57 it is found and declared by the board that a majority of all the votes cast at said election were in favor of said change in boundaries with the conditions named. Thereupon a certified copy of the order changing the boundaries with the conditions imposed set out therein, together with a certified copy of the order declaring the result of said election, shall be recorded as provided by section 55 and become final. The same procedure regarding such election shall be followed as provided by section 57, except that the ballot cast at said election shall contain the words "For change of boundaries with conditions" or "Against change of boundaries with conditions" and the notice of election in addition to other requirements, shall contain a brief statement of the conditions imposed. If a majority of all the votes cast at said election shall be against such change of boundaries with conditions, the board shall order that the petition be denied.

Section 60. Annexation; record of boundary change; effect

Upon a change of the boundaries of a district, a copy of the order of the board of directors ordering said change, certified by the president and secretary of the board, shall be filed for record in the recorder's office of said Orange County, and thereupon the district shall be and remain a district, as fully, and to every intent and purpose, as if the lands which are included in the district by the change of the boundaries, as aforesaid, had been included therein at the original organization of the district.

Section 61. Annexation; minute entry; evidence

Upon the filing of the copies of the order, as in the last preceding section mentioned, the secretary shall record in the minutes of the board the petition aforesaid; and the said minutes, or a certified copy thereof, shall be admissible in evidence, with the same effect as the petition.

Section 62. Annexation; powers of guardian, executor or administrator

A guardian, an executor or an administrator of an estate, who is appointed as such under the laws of this State, and who, as such guardian, executor, or administrator, is entitled to the possession of the lands belonging to the estate which he represents on behalf of his ward, or of the estate which he represents, upon being thereunto authorized by the proper court, may sign and acknowledge the petition in this act mentioned, and may show cause, as in this act mentioned, why the boundaries of the district should not be changed.

Section 63. Annexation; liability of included land

Any land added to the district as hereinabove provided shall become liable for all the obligations of the district existing at the time of the inclusion of said land therein.

Section 64. Annexation; division and precinct boundaries

In case land is included within the district as aforesaid, the board of directors thereof, not less than 30 days before any election in said district thereafter, shall reestablish the boundaries of the divisions and election precincts within said district, so as to include said land therein and so as to make said divisions as nearly equal in population as may be practicable. In case of the inclusion of any land less than 30 days before an election within said district, the inhabitants of the land so included shall not be entitled to vote at said election. Such included land shall become part of existing divisions of said district and by inclusion of additional lands the number of the divisions of said district or the number of directors of said district shall not be changed.

Section 65. Exclusion of lands; authorization; effect

The boundaries of the district may be changed, and tracts of land which were included within the boundaries of the district at or after its organization under the provisions of this act, may be excluded therefrom, in the manner herein prescribed; but neither such change of the boundaries of the district nor such exclusion of lands from the district shall impair or affect its organization, or its right in or to property, or any of its rights or privileges of whatever kind or nature; nor shall it affect, impair, or discharge any contract, obligation, lien, or charge for or upon which said district was and may become liable or chargeable, had such change of its boundaries not been made, or had not such land been excluded from the district.

Section 66. Exclusion of lands; petition

The owners or owners in fee of one or more tracts or parcels of land which constitute a portion of the district may jointly or severally file with the board of directors of the district a petition, praying that such tract or tracts, and any other tracts within the district contiguous or adjacent thereto, may be excluded and taken from said district. The petition shall state the grounds and reasons upon which it is claimed that such lands should be excluded, and shall describe the boundaries thereof, and also the lands of such petitioner or petitioners which are included within such boundaries; but the description of such lands need not be more particular or certain than is required when the lands are entered in the assessment book by the county assessor. Such petition must be acknowledged in the same manner and form as is required in the case of a conveyance of land, and the acknowledgment shall have the same force and effect as evidence as the acknowledgment of such a conveyance.

Section 67. Exclusion of lands; notice to show cause

The secretary of the board of directors shall cause a notice of the filing of the petition to be published in the district pursuant to Section 6066 of the Government Code. The notice shall state the filing of the petition, the names of the petitioners, a description of the lands mentioned in the petition, and the prayer of the petition; and it shall notify all persons interested in, or who may be affected by the change of the boundaries of the district, to appear at the office of the board at a time named in the notice, and show cause, in writing, why the change of the boundaries of the district, as proposed in the petition, should not be made. The time to be specified in the notice at which they shall be required to show cause shall be a meeting of the board after the expiration of the time for the publication of the notice.

Section 68. Exclusion of lands; hearing upon petition and objections

The board of directors, at the time and place mentioned in the notice, or at the time or times to which the hearing of said petition may be adjourned, shall proceed to hear the petition, and all evidence or proofs that may or shall be introduced by or on behalf of the petitioner or petitioner, and all objections to such petition that may or shall be presented in writing by any person showing cause as aforesaid, and all evidence and proofs that may be introduced in support of such objections. The failure of any person interested in said district to show cause, in writing, why the tract or tracts of land mentioned in said petition should not be excluded from said district, shall be deemed and taken as an assent by him to the exclusion of such tract or tracts of land, or any part thereof, from said district; and the filing of such petition with said board, as aforesaid, shall be deemed and taken as an assent by each and all such petitioners to the exclusion from such district of the lands mentioned in the petition, or any part thereof. The expenses of giving said notice and of the aforesaid proceeding shall be paid by the person or persons filing such petition.

Section 69. Exclusion of lands; hearing; grant or denial of petition

If, upon the hearing of any such petition, no evidence or proofs in support thereof be introduced, or if the evidence fail to sustain said petition, or if the board deem it not for the best interest of the district that the lands, or some portion thereof, mentioned in the petition, should be excluded from the district, the board shall order that said petition be denied as to such lands; but if the said board deem it for the best interest of the district that the lands mentioned in the petition, or some portion thereof, be excluded from the district, and if no person interested in the district show cause in writing why the said lands or some portion thereof, should not be excluded from the district, or if, having shown cause, withdraws the same, or upon the hearing fails to establish such objections as he may have made, then it shall be the duty of the board to, and it shall forthwith, make an order that the lands mentioned and described in the petition, or some defined portion thereof, be excluded from said district; provided, that it shall be the duty of said board to order, upon petition therefor as aforesaid, that all lands so petitioned to be excluded from said district shall be excluded therefrom which in the judgment of the board will not be benefited by the operations of the district.

Section 71. Exclusion of lands; redetermination of boundaries

In the event the said board of directors shall exclude any lands from said district upon petition therefor, it shall be the duty of the board of directors to make an entry in the minutes of the board, describing the boundaries of the district, should the exclusion of said lands from said district change the boundaries of said district, and for that purpose the board may cause a survey to be made of such portions of the district as the board may deem necessary; and a certified copy of the entry in the minutes of the board excluding any land, certified by the president and secretary of the board, shall be filed for record in the recorder's office of each county within which are situated any of the lands of the district; but said district, notwithstanding such exclusion, shall be and remain a district as fully, to every intent and purpose, as it would be had no change been made in the boundaries of the district, or had the lands excluded therefrom never constituted a portion of the district.

Section 72. Exclusion of lands; division and precinct boundaries

In case land is excluded from the district as aforesaid, the board of directors thereof not less than 30 days, before any election in such district thereafter, shall reestablish the boundaries of the divisions and election precincts within said district, so as to make said divisions as nearly equal in population as may be practicable.

Section 73. Exclusion of lands; powers of guardian, executor or administrator

A guardian and executor, or an administrator of an estate, who is appointed as such under the laws of this State, and who, as such guardian, executor, or administrator, is entitled to the possession of the lands belonging to the estate which he represents, may, on behalf of his ward, or the estate which he represents upon being thereto properly authorized by the proper court, sign and acknowledge the petition in this act mentioned, and may show cause, as in this act provided, why the boundaries of the district should not be changed.

Section 74. Exclusion of lands; liability of excluded lands

Nothing in this act provided shall, in any manner, operate to release any of the lands so excluded from the district from any obligation to pay, or any lien thereon at the time of the filing of said petition for the exclusion of said lands, but upon the contrary, said lands shall be held subject to said lien and answerable and chargeable for and with the payment and discharge of all of said outstanding obligations at the time of the filing of the petition for the exclusion of said land, as fully as though said petition for such exclusion were never filed and said order or decree of exclusion never made; and for the purpose of discharging such outstanding indebtedness, said lands so excluded shall be deemed and considered as part of the district the same as though said petition for its exclusion had never been filed or said decree of execution never made; and all provisions which may have been resorted to to compel the payment by said lands of its quota or portion of said outstanding obligations, had said exclusion never been accomplished, may, notwithstanding said exclusion, be resorted to to compel and enforce the payment on the part of said lands of its quota and portion of said outstanding obligations of the district for which it is liable, as herein provided. But said land so excluded shall not be held answerable or chargeable for any obligation of any nature or kind whatever, incurred after the filing with the board of directors of the district of the petition for the exclusion of said lands from the district.

Section 75. Liberal construction

CONSTRUCTION OF ACT. This act, and every part thereof, shall be liberally construed to promote the objects thereof, and to carry out its intents and purposes.

Section 76. Partial invalidity

CONSTITUTIONALITY. In case any section or sections, or part of any section, of this act, shall be found to be unconstitutional or invalid, for any reason, the remainder of the act shall not be invalidated thereby, but shall remain in full force and effect.

Section 77. Vested rights

Nothing in this act contained shall be so construed as to affect or impair the vested right of any person, association or corporation to the use of water.

Section 78. Title of act

TITLE. This act may be designated and referred to as the "Orange County Water District Act," and any reference thereto by such designation shall be deemed sufficient for all purposes.

* * * * *

SUPPLEMENTARY REGULATIONS

The following sections were enacted as part of SB 91, Chapter 770, California Statutes of 1953, but not as amendments to the Orange County Water District Act.

Section 64. Nothing contained in this act does, nor shall the same be construed to, grant any new or additional rights or powers to, nor impair any existing rights of, the Orange County Water District as against any property or water rights in the Counties of San Bernardino and Riverside, either with respect to rights to appropriate water, the taking of property, the power of eminent domain, the right to intervene in litigation, or the right to act as against such property or water rights within said Counties of San Bernardino and Riverside.

Section 65. If any provision of this act or the application thereof to any person or circumstances is held invalid, such invalidity shall not affect other provisions or applications of the act which can be given without the invalid provision or application, and to this end the provisions of this act are severable.

* * * * *

The following section was enacted as part of SB 1371, Chapter 1812, California Statutes of 1961, but not as an amendment to the Orange County Water District Act.

Section 5. If any section, subsection, sentence, clause or phrase of this act is for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this act or any portion of the Orange County Water District Act to which this act is amendatory and supplementary; and if any additional replenishment assessment levied under Section 27.1 hereof is for any reason held to be unconstitutional, such decision shall not affect the validity of any replenishment assessment levied under Section 27 of the Orange County Water District Act, and the Legislature would have enacted each section, subsection and sentence hereof independent of each other section, subsection and sentence and would have enacted such remaining portion and each of them irrespective of such holding of unconstitutionality as to any portion which may be held unconstitutional.

* * * * *

PUBLIC WORKS CONTRACTS

Section 21040. (Chapter 1.5) Application of article

The provisions of this article shall apply to contracts by the Orange County Water District, as provided for in Chapter 770 of the Statutes of 1933. Added by Stats 1984 ch 1128 sec 69.

Section 21041. Binding contracts; Endorsement

The district shall not be bound by any contract except as hereinafter provided unless the same shall be made in writing approved by resolution of the board of directors and properly executed by its officers who have been so authorized to do by the district. The approval of the form of all contracts shall be endorsed thereon by an attorney for the district.

Added by Stats 1984 ch 1128 sec 69.

Section 21042. Prescription of methods for construction of works and letting of contracts

The district may prescribed methods for the construction of works and for the letting of contracts for any of the following purposes:

- (a) The construction of works, structures, or equipment.
- (b) The performance or furnishing of labor, materials, or supplies, necessary or convenient for carrying out any of the purposes of this act.
- (c) The acquisition or disposal of any real or personal property.

When work is not to be done by the district itself by force account, and the amount involved is ten thousand dollars (\$10,000), or more, any contract for the doing of the works shall be made by the district with the lowest and best bidder after the publication pursuant to Section 6061 of the Government Code in a newspaper of general circulation published within the district, of a notice calling for bids and fixing a period during which bids will be received, which shall be not less than 10 days after the publication of notice. The district may reject any and all of the bids presented and may readvertise in its discretion. After rejecting bids, or if no bids are received, the district may determine and declare that in its opinion, based on estimates submitted by the engineer for the district, any work may be performed better or more economically by the district with its own employees, or after hiring additional employees; and after the adoption of a resolution to this effect by at least seven affirmative votes of the directors of the district, the district may proceed to have that work done in the manner stated and without further observance of the provisions of this section.

Added by Stats 1984 ch 1128 sec 69.

Section 21043. Response to emergency in accordance with provisions relating to minority and women business enterprises

- (a) Contracts may be let or work undertaken without advertising for bids in an emergency.
- (b) In case of an emergency, if notice for bids to let contracts will not be given, the board of directors shall comply with Chapter 2.5 (commencing with Section 22050).

Added by Stats 1995 ch 29 sec 1.

Section 21044. Contracts excluded from competitive bidding requirement

Contracts, in writing or otherwise, for the acquisition or disposal of any real property, for the acquisition or leasing of personal property, the purchase of water to replenish the groundwater supplies of the district, the repair of district equipment or structures, and for legal, engineering, and other professional services may be let without calling for competitive bids.

Added by Stats 1984 ch 1128 sec 69.

Section 21045. Faithful performance bond; Direction and approval of work

- (a) The district shall require a person to whom the district awards a contract as a result of advertising for bids to enter into a bond, with good and sufficient sureties, to be approved by the board, payable to the district for its use, for at least 25 percent of the amount of the estimated contract price, conditioned for the faithful performance of the contract.
- (b) The general manager of the district may require a person to whom the district awards a contract without advertising for bids to enter into a bond in accordance with subdivision (a).
- (c) The work shall be done under the direction and to the satisfaction of the district engineer, and be subject to approval by the board.

Added by Stats 1995 ch 29 sec 2.

DEERING'S WATER CODE OF THE STATE OF CALIFORNIA

CHAPTER 2 - COMPENSATION OF WATER DISTRICT DIRECTORS

Section 20200. "Water District"

As used in this chapter, "water district" means any district or other political subdivision, other than a city or county, a primary function of which is the irrigation, reclamation, or drainage of land of the diversion, storage, management, or distribution of water primarily for domestic, municipal, agricultural, industrial, recreation, fish and wildlife enhancement, flood control, or power production purposes. "Water districts" include, but are not limited to, irrigation districts, county water districts, California water districts, water storage districts, reclamation districts, county waterworks districts, drainage districts, water replenishment districts, levee districts, municipal water districts, flood control districts, flood control and floodwater conservation districts, flood control and water conservation districts, water management agencies, and water agencies.

Section 20201. Authorization to provide and to increase compensation

Notwithstanding any other provision of law, the governing board of any water district may, by ordinance adopted pursuant to this chapter, provide compensation to members of the governing board, unless any compensation is prohibited by its principal act, in an amount not to exceed one hundred dollars (\$100) per day for each day's attendance at meetings of the board, or for each day's service rendered as a member of the board by request of the board, and may, by ordinance adopted pursuant to this chapter, in accordance with Section 20202, increase the compensation received by members of the governing board above the amount of one hundred dollars (\$100) per day.

It is the intent of the Legislature that any future increase in compensation received by members of the governing board of a water district be authorized by an ordinance adopted pursuant to this chapter and not by an act of the Legislature.

Section 20202. Yearly ceiling on compensation increase; Limitation on number of compensable days

In any ordinance adopted pursuant to this chapter to increase the amount of compensation which may be received by members of the governing board of a water district above the amount of one hundred dollars (\$100) per day, the increase may not exceed an amount equal to 5 percent, for each calendar year following the operative date of the last adjustment, of the compensation which is received when the ordinance is adopted.

No ordinance adopted pursuant to this chapter shall authorize compensation for more than a total of 10 days in any calendar month.

Section 20203. Authority to adopt ordinances; Notice and hearing

Any water district described in Section 20201 is authorized to adopt ordinances pursuant to this chapter. No ordinance shall be adopted pursuant to this chapter except following a public hearing. Notice of the hearing shall be published in a newspaper of general circulation pursuant to Section 6066 of the Government Code.

Section 20204. Effective date of ordinances; Voters' right to petition for referendum

An ordinance adopted pursuant to this chapter shall become effective 60 days from the date of its final passage. The voters of any water district shall have the right, as provided in this chapter, to petition for referendum on any ordinance adopted pursuant to this chapter.

Section 20205. Suspension of ordinance; Number of signatures necessary to subject ordinance to referendum

If a petition protesting against the adoption of the ordinance is presented to the governing board of the water district prior to the effective date of the ordinance, the ordinance shall be suspended and the governing board shall reconsider the ordinance.

If the number of votes cast for all candidates for Governor at the last gubernatorial election within the boundaries of the water district exceeds 500,000, the ordinance is subject to referendum upon presentation of a petition bearing signatures of at least 5 percent of the entire vote cast within the boundaries of the water district for all candidates for Governor at the last gubernatorial election. If the number of votes cast for all candidates for Governor at the last gubernatorial election within the boundaries of the water district is less than 500,000 the ordinance is subject to referendum upon presentation of a petition bearing signatures of at least 10 percent of the entire vote cast within the boundaries of the water district for all candidates for Governor at the last gubernatorial election.

Section 20206. Procedure following ordinance protest petition

If the governing board does not entirely repeal the ordinance against which a petition is filed, the governing board shall submit the ordinance to the voters either at a regular election or a special election called for the purpose. The ordinance shall not become effective unless and until a majority of the votes cast at the election are cast in favor of it. If the ordinance is not approved by the voters, no new ordinance may be adopted by the governing board pursuant to this chapter for at least one year following the date of election.

Section 20207. Applicability of Elections Code

Except as otherwise provided in this chapter, the provisions of the Elections Code applicable to the right of referendum on legislative acts of districts shall govern the procedure on ordinances against which a petition is filed.

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RETAIL AGENCY DATA

WHOLESALE AGENCY DATA

The Board of Directors of the Orange County Water Association assumes no responsibility for the accuracy or completeness of the information contained in this document. Accuracy of the content is not the sole responsibility of the Orange County Water Association. It is advised that questions concerning accuracy be directed to Pat Meszaros (714/593-5025) or Lee Jacobi (714/593-5011) of the Municipal Water District of Orange County.

INTRODUCTION

The Municipal Water District of Orange County, on behalf of the Orange County Water Association, prepared this publication, the Year 2007 edition of the Orange County Water Rates Survey report series. Included are the basic commodity rate schedules and fixed charges for drinking water for each water utility in Orange County. A homeowner's monthly water bill was calculated for three levels of water use: 10, 20, or 30 hundred cubic feet in a month. Other data collected in the annual survey includes water system facility data, numbers of retail connections, and agency revenue sources and expenditures. Table 1R shows rates for recycled and non-domestic water. Your comments or suggestions on report content are welcome and appreciated.

Water rates can differ substantially among the 31 retail water utilities in Orange County. An uninformed reader might jump to the conclusion that the higher rates are unreasonable. But, care must be exercised when making direct comparisons among water utilities' rates due to the variation in conditions affecting the utilities' revenue-developing structures. The document entitled, "Why Retail Water Rates Vary in Orange County," attached herein, should be beneficial in understanding the various factors that affect water rates.

The purpose of the Orange County Water Association is to foster advancement in the water works industry by the dissemination of information for the general public, by the exchange of ideas, and by promoting water conservation and water research.

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**Table 1
2007 RETAIL DOMESTIC WATER COMMODITY RATES AND FIXED CHARGES**

Water Agency	Uniform Rate \$/ccf	Rate with Tiers per Billing Period								Billing Period	Fixed Charge \$/Period	Typical Res. Meter Size (Inch)			
		ccf up to	\$/ccf	ccf up to	\$/ccf	ccf up to	\$/ccf	ccf up to	\$/ccf				above \$/ccf		
Anaheim, City of	1.360									bi-monthly	10.00	5/8 or 3/4			
Brea, City of		12	1.870						2.220	monthly	5.15	5/8 or 1			
Buena Park, City of	1.354									bi-monthly	16.70	5/8 or 3/4			
East Orange CWD Retail	1.640									bi-monthly	38.00 [10]	3/4			
El Toro WD	1.43									monthly	8.85	3/4			
Emerald Bay Serv. Distr.	2.510									bi-monthly	20.00	3/4			
Fountain Valley, City of		20	1.620						1.930	bi-monthly	[10]	5/8 or 3/4			
Fullerton, City of [1]		10	1.467	27	1.684				1.892	bi-monthly	10.24	5/8 or 3/4			
Garden Grove, City of		36	1.750	286	1.810	786	1.870		1.920	bi-monthly	8.40 [10]	5/8			
Golden State WC [8]	1.864									bi-monthly	32.20 [8]	5/8			
Huntington Beach, City of	1.447									monthly	13.77 [10]	3/4			
Irvine Ranch WD High ET [5][6]		7.2	0.820	18.0	0.980	27.0	1.960	36.0	3.920	7.840	monthly	7.50	5/8 or 3/4		
Irvine Ranch WD Low ET [5][6]		5.6	0.820	14.0	0.980	20.9	1.960	27.9	3.920	7.840	monthly	7.50	5/8 or 3/4		
La Habra, City of [3]		170	1.820						1.970	monthly	8.13	5/8			
La Palma, City of [9]	2.040									bi-monthly	26.00	5/8 or 3/4			
Laguna Beach CWD	2.940									bi-monthly	20.00	3/4			
Mesa Consolidated WD	2.170									bi-monthly	15.00	5/8			
Moulton Niguel WD		10	0.860	20	0.960	30	1.160	50	1.360	1.460	monthly	6.60	3/4		
Newport Beach, City of	2.080									bi-monthly	9.00	3/4			
Orange, City of		20	0.818	70	1.368				1.475	bi-monthly	16.33	5/8 or 3/4			
Orange Pk Acres Mut. WC [8]		10	1.984	40	2.318				2.896	monthly	20.00	all			
San Clemente summer [7]		13	1.720	21	2.580				3.870	monthly	7.67	1			
San Clemente winter [7]		9	1.720	15	2.580				3.870	monthly	7.67	1			
San Juan Capistrano July [4]		25	2.270	50	2.910				4.850	monthly	11.42	5/8			
San Juan Capistrano Jan. [4]		12	2.270	24	2.910				4.850	monthly	11.42	5/8 or 1			
Santa Ana, City of		44	2.085						2.480	bi-monthly	7.00	5/8			
Santa Margarita WD [8]		6	1.380	35	1.560	70	2.050		2.460	monthly	5.74	3/4			
Seal Beach, City of [2]		12.0	1.370	22.5	1.980	27.5	2.280		2.730	bi-monthly	31.94	5/8			
Serrano WD	1.97									bi-monthly	21.09	5/8 or 3/4			
South Coast WD		5	1.130	25	2.250	50	3.380	125	4.510	5.630	bi-monthly	33.78	3/4		
Trabuco Canyon WD Warm		9	1.890	27	1.990	36	2.080	45	2.170	64	2.26	2.840	monthly	8.25	5/8
Trabuco Canyon WD Cool		6	1.890	18	1.990	24	2.080	30	2.170	43	2.26	2.840	monthly	8.25	5/8
Tustin, City of		12	0.440	40	1.420	60	1.520		1.670	1.670	bi-monthly	20.24	5/8 or 3/4		
Westminster, City of [8]		14	0.530	28	1.260				2.510	bi-monthly	20.34 [10]	5/8 or 3/4			
Yorba Linda WD	1.570									monthly	7.92	all			

ccf = hundred cubic feet. 1 ccf is about 748 gallons.

- [1] Fullerton monthly tiers for single-family residences shown; Fullerton has 50% lower tiers for multi-family residences.
- [2] Seal Beach rate applies to the entire monthly usage. For example, 20 ccf in 1 month all charged at 1.980 /ccf
- [3] La Habra's upper tier rate is applicable only May-Sept.
- [4] San Juan Capistrano's tier ccfs vary by user type, month and lot size. Shown tiers are for a single family residential lot < 7,000 s.f.
- [5] Irvine Ranch WD's tier ccfs vary with the actual evapotranspiration [ET] of the billing period.
A High ET month of 200 ccf/acre and a Low ET month of 65 ccf/acre was used to calculate these tier ccfs.
- [6] IRWD Santa Ana Heights service area customers pay \$1.35/ccf until IRWD capital facilities for this area are paid off.
- [7] San Clemente "summer" = May-December; "winter" = January-April. Tiers shown are for SFR with lot size < 7,000 s.f.
San Clemente average commodity rate is \$1.80 /ccf
- [8] The following agencies have a tax or surcharge on top of the rates shown:
Irvine Ranch WD and Santa Margarita WD have a Power Surcharge for high elevation areas, not included here.
Golden State Water Co. 1.4% PUC surcharge
Westminster 4.0% general utility users' tax
- [9] La Palma's commodity rate applies to each ccf above the first 5 ccf.
- [10] Fixed Charge is usually "meter charge"; various names are used, and the following should be noted:
East Orange CWD fixed charge shown is for a 3/4" meter residence: \$20 "Capital Project Fee".
Fountain Valley has a fixed charge only for usage 4 ccf or less per month; otherwise no fixed charge.
Garden Grove has a "Capital Recovery" charge included in the fixed charge shown.
Huntington Beach has a \$5.50 "Capital Surcharge" included in the fixed charge shown.
Westminster has a fixed Customer charge = \$20.34 for 56 days for meters <= 3/4", pro-rated for periods different than 56 days.

**Table 1-R
2007 RECYCLED/NON-DOMESTIC^[1] WATER COMMODITY RATES AND FIXED CHARGES**

Water Agency	Uniform Rate \$/ccf	Tiered Rate , \$ per ccf used in a Billing Period								all higher ccf \$/ccf	Billing Period
		ccf up to	\$/ccf	ccf up to	\$/ccf	ccf up to	\$/ccf	ccf up to	\$/ccf		
El Toro WD	0.539										monthly
Fountain Valley, City of	1.540										bi-monthly
Huntington Beach, City of	1.158										monthly
Irvine Ranch WD High ET [3][5]		7.20	0.74	18	0.88	27	1.76	36	3.52	7.04	monthly
Irvine Ranch WD Low ET [3][5]		5.60	0.74	14	0.88	21	1.76	28	3.52	7.04	monthly
Mesa Consolidated WD	1.950										bi-monthly
Moulton Niguel WD	1.170										monthly
Newport Beach, City of	1.664										bi-monthly
San Clemente summer [7]		13	1.72	21	2.58					3.87	monthly
San Clemente winter [7]		9	1.72	15	2.58					3.87	monthly
San Juan Capistrano July [4]		211	1.91	422	2.41					4.02	monthly
San Juan Capistrano Jan. [4]		41	1.91	82	2.41					4.02	monthly
Santa Ana, City of	1.668										bi-monthly
Santa Margarita WD	1.740										monthly
South Coast WD	2.050										bi-monthly
Trabuco Canyon WD	2.380										monthly
Yorba Linda WD [2]	0.900										monthly

Water Agency	Fixed Charge \$ per Billing Period, by Meter Size										Billing Period	
	All	5/8	3/4	1	1.5	2	3	4	6	8		10
El Toro WD	0.00											monthly
Fountain Valley, City of	0.00											bi-monthly
Huntington Beach, City of [9]			13.77	27.55	41.32	68.87	151.51	234.15	454.53	1,611.52	2,520.59	monthly
Irvine Ranch WD		7.50	7.50	14.80	41.05	67.50	160.95	260.55	418.30	933.95	1,036.55	monthly
Mesa Consolidated WD		15.00	22.50	37.50	75.00	120.00	262.50	750.00	1490.00	1,860.00		bi-monthly
Moulton Niguel WD		6.60	6.60	6.60	11.60	19.60	26.60	36.60	56.60	76.60	96.60	monthly
Newport Beach, City of	39415		9.00	11.00	14.00	19.00	36.00	51.00	77.00	90.00		bi-monthly
San Clemente, City of				7.67	9.90	17.02	60.24	76.60	114.90			monthly
San Juan Capistrano		11.42		11.42	17.16	28.61	57.31	114.51	229.12	343.63		monthly
Santa Ana, City of		7.00	11.00	16.40	23.40	46.40	116.60	186.00	280.00			bi-monthly
Santa Margarita WD			5.74	7.77	12.84	18.93	35.16	53.42	104.14	165.00	246.15	monthly
South Coast WD	0.00											bi-monthly
Trabuco Canyon WD		8.25	10.76	16.77	31.78	49.79	91.83	151.87	302.00		482.14	monthly
Yorba Linda WD	0.00											monthly

ccf = hundreds of cubic feet. 1 ccf is about the same as 750 gallons.

[1] Non-potable water for Municipal & Industrial (M&I) use. May be recycled water and/or non-potable groundwater or surface water.

[2] YLWD does not have a set rate; it adds a \$13/AF surcharge to the untreated full service Metropolitan rate plus MWD fixed charges.

[3] IRWD has a Power Surcharge for high elevation areas, not included here.

[4] San Juan Capistrano's tier ccfs vary by user type, month and lot size. With a water budget based tiered rate structure. Shown is for a 1-acre lot.

[5] Irvine Ranch WD's tier ccfs vary with the actual evapotranspiration [ET] of the billing period.

A High ET month of 200 ccf/acre and a Low ET month of 65 ccf/acre was used to calculate these tier ccfs.

[7] San Clemente "summer" = May-December; "winter" = January-April.

[9] Huntington Beach has a \$5.50 "Capital Surcharge" included in the fixed charge shown.

n.r. No response was given to this item.

Table 2
2007 MONTHLY RESIDENTIAL WATER BILL
for Three Levels of Potable Water Use

OCWD Basin Agency	Bill * with ccf of water used in 1 month: typical single family usage [1]		
	10	20	30
Anaheim, City of	\$ 18.60	\$ 32.20	\$ 45.80
Buena Park, City of	\$ 21.89	\$ 35.43	\$ 48.97
East Orange CWD Retail	\$ 35.40	\$ 51.80	\$ 68.20
Fountain Valley, City of	\$ 16.20	\$ 32.40	\$ 51.70
Fullerton, City of	\$ 19.79	\$ 36.62	\$ 54.14
Garden Grove, City of	\$ 21.70	\$ 39.32	\$ 57.42
Golden State WC	\$ 35.23	\$ 54.13	\$ 73.03
Huntington Beach, City of	\$ 28.24	\$ 42.71	\$ 57.18
Irvine Ranch WD High ET	\$ 16.15	\$ 27.91	\$ 53.39
Irvine Ranch WD Low ET	\$ 16.41	\$ 32.14	\$ 77.76
La Palma, City of	\$ 23.20	\$ 43.60	\$ 64.00
Mesa Consolidated WD	\$ 29.20	\$ 50.90	\$ 72.60
Newport Beach, City of	\$ 25.30	\$ 46.10	\$ 66.90
Orange, City of	\$ 16.35	\$ 24.53	\$ 38.21
Orange Pk Acres Mut. WC	\$ 39.84	\$ 63.02	\$ 86.20
Santa Ana, City of	\$ 24.35	\$ 45.20	\$ 69.21
Seal Beach, City of	\$ 29.67	\$ 55.57	\$ 97.87
Serrano WD	\$ 30.25	\$ 49.95	\$ 69.65
Tustin, City of	\$ 18.44	\$ 32.64	\$ 47.84
Westminster, City of	\$ 18.37	\$ 39.27	\$ 65.37
Yorba Linda WD	\$ 23.62	\$ 39.32	\$ 55.02
Non-Basin Agency			
Brea, City of	\$ 23.85	\$ 45.35	\$ 67.55
El Toro WD	\$ 23.15	\$ 37.45	\$ 51.75
Emerald Bay Services Distri	\$ 35.10	\$ 60.20	\$ 85.30
La Habra, City of	\$ 26.33	\$ 44.53	\$ 62.73
Laguna Beach CWD	\$ 39.40	\$ 68.80	\$ 98.20
Moulton Niguel WD	\$ 15.20	\$ 24.80	\$ 36.40
San Clemente summer	\$ 24.87	\$ 48.09	\$ 85.50
San Clemente winter	\$ 25.73	\$ 57.98	\$ 96.68
San Juan Capistrano July	\$ 34.12	\$ 56.82	\$ 82.72
San Juan Capistrano Jan.	\$ 34.12	\$ 61.94	\$ 102.68
Santa Margarita WD	\$ 20.26	\$ 35.86	\$ 51.46
South Coast WD	\$ 36.59	\$ 67.57	\$ 107.02
Trabuco Canyon WD warm	\$ 27.25	\$ 47.15	\$ 67.32
Trabuco Canyon WD cool	\$ 27.55	\$ 47.63	\$ 68.97

* Monthly bill includes commodity charge based on rates shown in Table 1 plus fixed charge. If fixed charge is bimonthly, half of the bimonthly charge is used. ccf = hundreds of cubic feet.
See notes on Table 1.

[1] Typical single-family water usage varies within Orange County due to local climate, lot size and other factors; see Agency detail pages.

**Table 3
RETAIL AGENCY WATER SOURCES, FY 2006-07**

Source of Water, %

Retail Water Agency	Metropolitan Water [1]	Ground Water	Surface Water	Re-cycled/ Non-Pot. Water [2]	Total	Comments
Anaheim, City of	32%	68%			100%	Long-Term "in-Lieu" water counted w/Met
Brea, City of	40%	60%			100%	Groundwater from the San Gabriel Basin
Buena Park, City of	32%	68%			100%	
East Orange CWD Retail	55%	45%			100%	
El Toro WD	96%			4%	100%	
Emerald Bay Services Dis	100%				100%	EBSD contracts w/ Laguna Bch CWD for water
Fountain Valley, City of	28%	66%		6%	100%	
Fullerton, City of	51%	49%			100%	In Lieu included in MET percent
Garden Grove, City of	31%	69%			100%	Long-Term "in-Lieu" water counted w/Met
Golden State WC	35%	65%			100%	Long-Term "in-Lieu" water counted w/GW
Huntington Beach, City of	34%	66%			100%	In Lieu included in GW.
Irvine Ranch WD	36%	40%	9%	15%	100%	Long-Term "in-Lieu" water counted w/Met
La Habra, City of	30%	70%			100%	Well outage- normally 70% groundwater
La Palma, City of	25%	75%			100%	
Laguna Beach CWD	100%				100%	
Mesa Consolidated WD	5%	90%		5%	100%	Colored water included with groundwater
Moulton Niguel WD	82%			18%	100%	
Newport Beach, City of	31%	69%		<1%	100%	
Orange, City of	29%	67%	4%		100%	
Orange Pk Acres Mut. WC	33%	67%			100%	
San Clemente	91%	4%		6%	100%	
San Juan Capistrano	59%	39%		2%	100%	2% Non-Potable groundwater
Santa Ana, City of	31%	69%		<1%	100%	
Santa Margarita WD	82%	0%		18%	100%	
Seal Beach, City of	26%	74%			100%	
Serrano WD		65%	35%		100%	
South Coast WD	86%			14%	100%	Includes South Laguna service area.
Trabuco Canyon WD	81%	1%	3%	15%	100%	
Tustin, City of	15%	85%			100%	Desalter water included with groundwater
Westminster, City of	31%	69%			100%	
Yorba Linda WD	48%	52%			100%	

[1] Metropolitan Water District of Southern California (MET) imports water to Southern California from the Colorado River Basin and from Northern California. Long-Term "In-Lieu" water deliveries that indirectly replenish aquifers are counted here as Metropolitan water, and are not counted as Groundwater, unless indicated otherwise.

[2] Recycled municipal wastewater and/or Non-Potable surface or ground water.

n.r. No response was given to this item.

**Table 4
AGENCY POPULATION AND WATER SYSTEM FACILITIES, 2007**

Water Agency	Population Served (per Agency response)	Miles of 8" or Larger Pipe	Number of Active Wells	Capacity of Active Wells (GPM)	POTABLE WATER SYSTEM							NON-POTABLE *		
					Number of Potable Water Tanks & Resvs.	Potable Water Storage Capacity (MG)	Untreated Water stored for Potable Use (MG)	Surface Water Treatment Capacity (MGD)	Number of Booster Pump Stations	Capacity of Booster Pumps (GPM)	Miles of 8" or Larger Pipe	Number of Non-Pot. Water Tanks & Resvs.	Non-Pot. Water Storage Capacity (MG)	
Anaheim, City of	346,900	747	19	55,970	12	29	920	15	9	71,010				
Brea, City of	39,584	162	0	-	6	67			4	8,300				
Buena Park, City of	82,450	216	8	16,000	1	20			1	4,000				
East Orange CWD Retail	3,195	17	2	1,700	3	2.0			2	2,000				
El Toro WD	50,800	148	0		6	137			8	18,300		1	12	
Emerald Bay Serv. Distr.	1,500	2	0											
Fountain Valley, City of	57,741	141	6	13,950	2	10			2	14,000	7	0	0	
Fullerton, City of	135,000	300	11	22,950	16	69.5			12	19,000				
Garden Grove, City of	171,000	360	12	32,175	8	53			5	41,000				
Golden State WC	164,000	224	27	18,975	15	13			13	20,930				
Huntington Beach, City of	196,954	376	10	30,000	4	55			3	44,365				
Irvine Ranch WD	328,938	1,090	25	50,000	38	149			40	90,696	367	15	9,300	
La Habra, City of	61,789	62	1	900	3	17.5			5	6,639				
La Palma, City of	16,550	34	2	3,700	2	4.5			2	5,975				
Laguna Beach CWD	22,000	134	0		21	34			14	19,100				
Mesa Consolidated WD	110,000	300	9	15,000	2	28			2	29,000				
Moulton Niguel WD	165,918	740	0	0	29	83.4			27	81,000	140	12	344.7	
Newport Beach, City of	65,109	285	4	11,000	3	200			5	16,000				
Orange, City of	137,801	255	15	25,279	18	43			16	50,095				
Orange County WD											32	1	6.0	
Orange Pk Acres Mut. WC	1,750	15	1	900	1	1			5	n.r.				
San Clemente	43,900	175	1	440	14	22			16	26,000	6			
San Juan Capistrano	37,452	164	8	5,080	9	14.0			8	10,350	12	1	0.5	
Santa Ana, City of	353,428	236	19	52,580	8	49			7	72,490				
Santa Margarita WD	160,000	579	1	600	29	240			21	165,495	114	5	1,629	
Seal Beach, City of	24,700	66	3	8,000	2	7			2	6,500				
Serrano WD	6,900	43	3	3,900	2	9	387	4	2	5,800				
South Coast WD [1]	41,600	119	0		13	21.6			9	22,620	29	3	4.7	
Trabuco Canyon WD	14,335	57	2	850	7	10		4	5	8,100	3	1	44	
Tustin, City of	62,100	67	12	10,400	6	12			4	11,000				
Westminster, City of	92,870	150	10	17,269	2	16			1	9,000				
Yorba Linda WD	75,400	309	9	12,600	13	49			12	38,000				
Totals	3,071,664	7,572	220	410,218	295	1,465	1,307	23	262	916,765	710	39	11,341	

* "Non-Potable" system is for landscape irrigation and other non-domestic uses. The water served includes recycled water and/or non-potable ground and surface water. n.r. No response was given to this item.

**Table 5
NUMBER OF WATER SERVICES AND SALES, BY SERVICE TYPE FY 2006-07**

Number of Water Services										Sales (Acre-Feet)				
Single Family	Multi-Family [1]	Commercial, Industrial and Institutional [2]	Agricultural	Recycled & Non-Domestic	Totals	Retail Water Agency	Single Family Residential	Multi-Family Residential [1]	Commercial, Industrial and Institutional [2]	Agricultural	Recycled & Non-Domestic	Totals		
49,721	4,235	8,415	0	0	62,371	Anaheim, City of	28,775	14,646	30,450	n.r.	0	73,871		
9,730	179	1,828	8	0	11,745	Brea, City of	4,134	1,074	4,741	124	0	10,073		
15,850	200	3,700	0	0	19,750	Buena Park, City of	7,729	2,760	7,913	0	0	18,402		
1,166	26	3	1	0	1,196	East Orange CWD Retail	959	w/s.f.	34	1	0	994		
5,676	2,609	1,739	0	1	10,025	El Toro WD	2,980	3,905	4,473	0	455	11,813		
537		17			554	Emerald Bay Serv. Distr.	320		32			352		
15,163	181	1,462	2	12	16,820	Fountain Valley, City of	6,123	862	3,297	0	897	11,179		
25,530	1,963	3,638	4		31,135	Fullerton, City of	15,387	5,036	11,690	18		32,130		
29,146	1,712	3,082	4	0	33,944	Garden Grove, City of	15,727	6,148	12,187	14	0	34,076		
41,290	1,500	3,960	3	0	46,753	Golden State WC	16,945	4,400	8,210	425	0	29,980		
44,019	4,127	4,134	0		52,280	Huntington Beach, City of	15,715	6,869	9,065	0	0	31,649		
82,334	2,394	7,559	23	4,185	96,495	Irvine Ranch WD	28,711	5,386	23,495	1,009	32,808	91,409		
11,018	580	1,109	0	0	12,707	La Habra, City of	10,942	565	1,094	all other combine		12,601		
4,156	w/s.f.	167			4,323	La Palma, City of	2,257	all other types combined with sing. fam				2,257		
7,979	all other types combined with sing. fa				7,979	Laguna Beach CWD	4,105	all other types combined with sing. fam				4,105		
16,304	3,439	3,969	0	40	23,752	Mesa Consolidated WD	21,632	all other types combined with sing. fam				21,632		
33,660	14,555	4,122	0	1,196	53,533	Moulton Niguel WD	21,594	2,785	8,788	0	8,515	41,682		
22,020	5,558	2,082	0	7	29,667	Newport Beach, City of	6,900	2,585	4,709	0	311	14,505		
28,074	2,896	3,727	14	0	34,711	Orange, City of	16,682	4,537	10,493	194	0	31,906		
515	0	0	0	0	515	Orange Pk Acres Mut. WC	960	0	0	0	0	960		
12,156	3,519	1,634	0	2	17,311	San Clemente	5,454	1,592	3,584	0	666	11,296		
6,864	3,019	950	17	67	10,917	San Juan Capistrano	5,118	1,067	2,858	152	922	10,117		
35,860	3,384	5,395	0	13	44,652	Santa Ana, City of	17,783	11,976	14,760	0	149	44,668		
35,299	12,733	3,627	0	1,209	52,868	Santa Margarita WD	18,403	2,749	9,973	0	8,185	39,310		
4,343	555	441	0	0	5,339	Seal Beach, City of	3,920	all other types combined with sing. fam.				3,920		
2,290	0	13	5	0	2,308	Serrano WD	3,121	0	92	12	0	3,225		
9,559	1,558	1,104	0	168	12,389	South Coast WD	3,709	1,384	2,245	0	1,035	8,373		
3,768	31	162	6	23	3,990	Trabuco Canyon WD	3,299	34	653	305	823	5,114		
11,775	852	1,484	10	0	14,121	Tustin, City of	7,620	2,991	2,571	29	0	13,211		
17,387	991	1,859	0	0	20,237	Westminster, City of	7,136	2,576	3,164	0	0	12,876		
21,110	217	1,654	13	1	22,995	Yorba Linda WD	17,066	w/single	6,265	121	569	24,021		
604,299	73,013	73,036	110	6,924	757,382	Totals	321,206	85,927	186,836	2,404	55,335	651,707		

n.r. No response was given to this item.

[1] M-F sector includes apartments, master-metered condominiums, mobile homes, et al. that are not billed individually.

[2] C-I sector includes businesses, schools, parks, hydrants, landscape irrigation, and any water usage that does not fall into other categories.

**WHY RETAIL WATER RATES VARY
IN ORANGE COUNTY**

**December 1999
Updated March 2008**

Orange County Water Agencies Water Rates, Water System Operations
and Financial Information

Why Retail Water Rates Vary in Orange County

Summary

- ❑ Retail water rate setting is a complicated and complex process that varies somewhat from jurisdiction to jurisdiction. Each year as the Orange County Water Rates Survey is compiled, it is important to review the rate setting process and the factors involved. Retail water rate setting involves capturing the **external** costs of importing from Metropolitan or producing the water from local sources, the **internal** costs of distribution and service and establishing the financing or **funding** sources for these costs.
- ❑ There are understandable reasons, both physical and philosophical, that cause retail rates to vary from agency to agency. These will be discussed below.
- ❑ Providing a reliable and high quality water supply system for existing and future users is a capital-intensive process. Water rates are significantly affected by the level of capital funding required, the financing mechanisms and the other sources of revenue available to an agency. These issues will also be discussed below.

Detailed Discussion

Discussed below are the following sections pertaining to retail water rate setting:

- ❑ Sources and Uses of Funds Available to a Water Utility
- ❑ Geographical Factors Affecting Water Rates
- ❑ Rate Design - Identifying Costs and Funding Them
- ❑ Purpose and Function of "Reserve Funds"

Sources and Uses of Funds Available to a Water Utility

The sources of funds available to a water utility **for any use** (not restricted in the type of use) include:

Retail water sales, fixed service charges on monthly or bimonthly basis plus variable charges based on water use, wholesale water sales for those agencies that provide water

to other agencies, fees charged for services rendered (such as engineering and plan check fees), delinquent penalties for non-payment, investment earnings on funds set aside, rents from properties and tax revenues from the general 1% property tax levy (not all agencies receive these funds).

Sources of funds that are restricted for use **only for capital improvements** include:

Voter authorized taxes and assessments, developer and customer contributions such as connection charges, development impact fees and contributed facilities, standby charges, proceeds from long-term financings, redevelopment funds, grants in aid of construction and investment earnings. If these sources of funds are not used or only partially cover the capital improvements necessary, water sales revenue must be structured to carry a heavier burden.

The uses of funds for a water utility include (1) the **external** costs of getting the supply to the agency, water costs, pumping, storage and water treatment; (2) the **internal** costs of transmission, distribution and storage to serve the consumers, customer service (billing, meter reading, etc.) and general and administrative expenses (including insurance, office and office maintenance costs and office staff); (3) the **funding** requirements for debt service and capital improvements (new construction, replacements and upgrades and rehabilitation).

Geographical Factors Affecting Water Rates

It is likely that the two most predominant geographical factors affecting retail water rates from area to area are (1) whether an area receives local groundwater from the lower Santa Ana River groundwater basin managed by Orange County Water District (OCWD), and (2) how much pumping is required to provide water throughout an agency's service area.

Portions of the county overlie the OCWD groundwater basin area. Water supplies produced from the basin area cost around \$425 per AF (includes a replenishment assessment paid to OCWD for basin operations and to purchase imported replenishment water to balance the basin needs, energy and other operational costs for well production and an estimate of annual amortized costs for land and facilities). This cost is considerably less than the cost of receiving imported water from MWD at around \$525 per AF. These costs just discussed, \$425 per AF for groundwater and \$525 for imported water, are essentially the production costs and do not include the costs of distribution, storage, treatment or pumping (except to pump the groundwater to system pressure). Translating these basic **source costs** down to the consumer and given the assumption that the groundwater basin areas can produce 70% of their supplies from the groundwater basin, the average source costs for the two areas would be:

Non-Basin Area: 100% MWD Import = \$525/AF or \$1.21/ccf

Basin Area: 70% Groundwater and 30% Import = \$455/AF or \$1.04/ccf

This factor is likely the most significant factor affecting rates to the consumer!

The next geographical factor affecting retail rates is the proximity to the MWD feeders. MWD feeders are Metropolitan facilities and paid for by water rates paid when purchasing imported water; these costs are already in the \$525 per AF cost of water paid to Metropolitan. The local agency feeders have had to be constructed, operated, maintained and repaired with local agency funding in addition to the water rates paid to Metropolitan. Once again, the agencies overlying the groundwater basin are generally those agencies which lie in close proximity to the MWD feeders as they crisscross the northern portion of the county, and hence, these agencies do not incur additional costs for facilities to distribute the MWD supplies. Some of the agencies had to build transmission pipelines 20 to 30 miles to get the water into their service area from where the MWD lines stop. Considerable costs are incurred for these extensions.

Another significant geographical factor is that of system elevation and the pumping necessary to lift the water to the service elevation of the homes and businesses. For example, Trabuco Canyon WD must pump virtually 100% of its import supplies to serve its consumers in the 1100 foot to 1400 foot service elevations of the foothills of the Santa Ana Mountains. The cost for pumping to the higher elevations must be factored into the retail rate. Some agencies charge a similar rate throughout their service area while other agencies charge more to residents living at a higher elevation. For example, the first block of water in the IRWD service area costs \$0.82 per ccf, however, a pumping surcharge of \$0.42 per ccf is imposed for the pumping required to get the water to the higher elevation of the Portola Hills service area of IRWD, thus raising the rate on the first block of water sold in Portola Hills, Zone 9 to \$1.24 per ccf.

In addition, those areas with hilly terrain include multiple service elevations and the associated facilities, capital costs and O&M costs for additional pump stations, reservoirs and pressure reducing stations. Both San Juan Capistrano and Laguna Beach are examples of this type of terrain that ultimately leads to higher consumer costs.

Also, in communities surrounded by vast areas of open-space vegetation, provision of sufficient storage for fire fighting is an added cost.

The last geographical factor influencing water rates is that of treatment requirements. For example, the areas furthest away from the MWD sources are required to rechlorinate the supplies as they are conveyed to the service areas to protect against bacterial growth. Also, some areas of the groundwater basin contain contaminants or constituents such as high salts or color that must

be removed - sometimes a very expensive process that can drive the costs of local water to that of MWD water or beyond.

Rate Design - Identifying Costs and Funding Them

Rate Design involves figuring out the revenue needs and how to structure and establish the rates within a service area to generate the required revenue. The costs of a water system vary for geographical reasons, but they also vary due to the age of the system, the level of development required to meet the customer mix in the service area (newly developing areas, types of businesses and their water needs and the need to meet fire flow requirements) and due to the cost allocation methodology to the various customer groups and also due to the philosophical factors of an agency such as providing lifeline service at minimal costs.

Times have changed since the passage of Proposition 13 in 1978 which lowered tax revenue and eliminated the use of general obligation bonds as a financing vehicle for capital improvements, unless voter approval is secured. Decisions must be made regarding how to fund new growth - whether through bonds other than general obligation bonds, a connection or meter fee, a fixed charge collected through an assessment district or directly with revenue generated through water sales. All of these options will affect what the consumer sees when he pays his monthly or bimonthly water bill.

There are many theories for the allocation of both fixed and variable costs within a retail water service area and how to fund them through the water rates. Some propose that all fixed costs be funded via a fixed revenue source such as the fixed monthly or bimonthly service charge to consumers and that the commodity rate be structured to cover the variable costs of water such as the cost of the source water itself, treatment costs and pumping costs. Others subscribe to different theories. The theory adopted by the local jurisdiction needs to reflect the philosophy of the constituents.

Lastly, the level of conservation and recycling in a community also affects the retail water rates. These efforts typically require capital expenditures and may actually result in somewhat higher costs in the short run but will save costs in the long run as the availability of these sources (or reduced demand) offsets the need for higher cost imported supplies.

In addition, the lot size and home size of the community served will also affect the rate structure design and the actual rates charged.

Purpose and Function of "Reserve Funds"

The level of "reserve funds" is indirectly related to the process of setting rates, but still very important. Reserve funds are misunderstood by some and construed to be "bad", yet reserve funds have a necessary and usually specific purpose. True "reserves", similar to our own personal savings accounts that are used for unexpected purposes or that have been set aside for

specific planned uses, can be distinguished from "encumbered" funds that are necessary for specific financial or legal purposes.

Reserve funds include many types of funds with specific uses; these include (1) Working Capital Funds to meet cash flow purposes, (2) Construction Funds from bond proceeds that generally must be spent within three years of issuance, (3) Rate Stabilization Funds to moderate short term rate fluctuations, (4) Debt Service Funds to collect funds and make debt service payments when due, (5) Conservation Revenue Funds which all agencies may not have but which collect payments from high water users and reinvests in the system for conservation purposes and (6) Self Insurance Funds, similar to normal business insurance funds. The only "true" reserves are made up of (7) Capital Replacement Funds, which all agencies do not necessarily have, which consist basically of funds set aside for future improvements and (8) Emergency Repair Funds which is a contingency fund to handle emergencies (also a normal business requirement).

Variations exist in these funds when compared from agency to agency. In part, the differences are explained by the development cycle of a water supply system. Initially in the development cycle, when an agency is "young," an agency incurs disproportionately high costs because investments are made not only to meet the existing needs but also as an investment to minimize future costs (e.g., only certain components of a treatment plant can be phased on a capacity basis, a pipeline is constructed to supply existing demands and some level above that for meeting future demands). In the next part of the cycle, as an agency "ages," smaller investments are required on an incremental basis as demands build because the system is supported by past investments; however, it is also at this time that preparations must be made to bridge to the third phase, which is that of an older system that requires high repair, maintenance and replacement obligations (this is when capital replacement funds come in handy). An agency can approach Replacement Funds in three manners or a combination thereof, (1) "pre-paying" by setting aside funds for the future, (2) "pay-as-you-go" in which annual capital requirements are generated directly from water sales, or (3) "post pay" in which debt is issued and the payments for the improvements are made over time into the future. How replacements are handled is up to the discretion of the governing board with input from the community at the time of rate setting and budget adoption.

Conclusion

Retail water rate setting is a complicated and complex process that results in variations in retail water rates from jurisdiction to jurisdiction in Orange County. Each year as the Orange County Water Rates Survey is compiled, it is important to review the rate setting process and the factors involved. These factors have been briefly discussed herein and are summarized in Exhibits A and B attached.

Exhibit A

Factors Causing Differences in Water Rates Between Agencies

1. Source of Supply - Metropolitan vs. local groundwater
2. Distance to Metropolitan import pipelines
3. Service area elevation and pumping required
4. Make-up of adjacent service areas
5. Ability to interconnect with surrounding agencies
6. Age of system
7. Service area mix of commercial, industrial, single family, etc.
8. Density and lot sizes
9. Customer income
10. Funding of capital - pay as you go vs. debt financing
11. Funding of repairs, replacements and depreciation
12. Water only vs. water and sewer by same agency
13. Recycling supplies and conservation philosophy
14. Recovery of administrative services by municipalities
15. Level of grant funding or other funding incentives
16. Rate setting philosophy and methodology
17. Funding of growth through developers or water rates
18. Level of taxes to agency
19. Necessary level of reserves (cash flow, replacement, rate stabilization, etc.)
20. Public input during ratemaking
21. Availability of redevelopment funding
22. Metering policy - per unit or per complex
23. Level of treatment required for local supplies

Exhibit B
Effect of Various Factors on Retail Water Rates [1] in Orange County

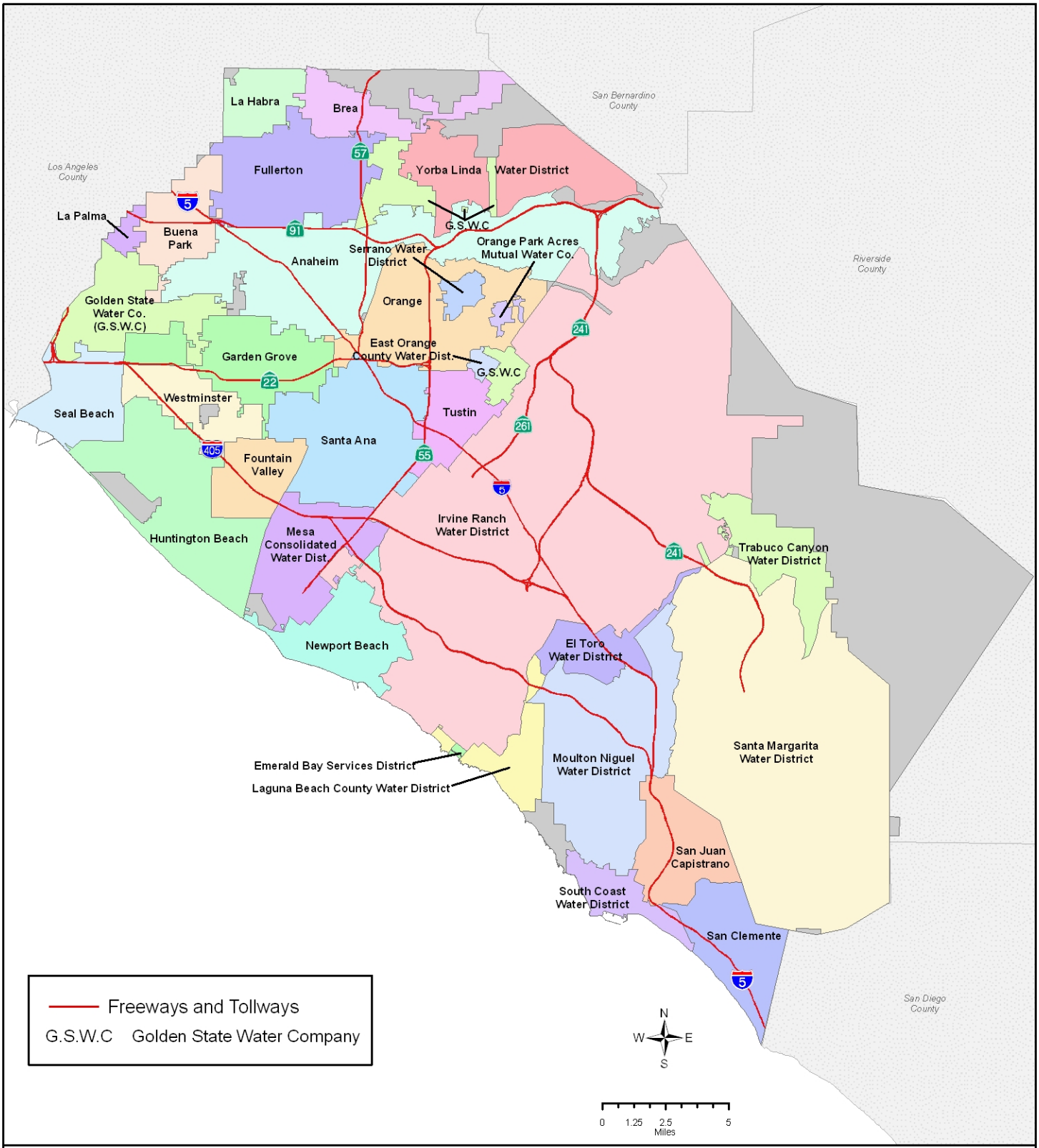
Category/Factor	Effect of Factor on Retail Water Rate [1]	
	Lower Rate	Higher Rate
Cost of Supply		
• Purchases of Metropolitan water (as % of total supply)	Small % Met	Large % Met
• Production of Local Ground/Surface Water (as % of total supply)	Large % Local	Small % Local
• Proximity to a Metropolitan feeder	Near Met Feeder	Far from Met Feeder
• Service Area Elevation	Low	High
• Treatment Required	No/Little Treatment	Much Treatment
• Water Use Efficiency and Non-Potable Water System	Large reduction in potable demand	Small reduction in potable demand
Distribution System Costs (capital costs + O&M)		
• Terrain	Flat	Hilly
• Shape of Service Area	Compact	Branched/Severed
• Age of Capital Facilities	Older	Newer
• Ability to issue tax-free debt instruments	Able	Unable
• Interest Rate on Loans	Low-Interest	High-Interest
Customer Service		
• Number of Customers	Many	Few
• Level of Service	Low	High
Alt. Sources of Revenue (other than sale of water + fixed charge)		
• Property Tax and Special Assessments	Large Collection	None/Small Collection
• Investment Earnings	Large	Small
• Metropolitan Incentives	Large	None/Small


[1] Water bill divided by the number of ccf of water used.

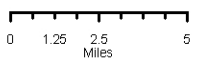
RETAIL AGENCIES

RETAIL & WHOLESALE AGENCIES

Anaheim, City of	1
Brea, City of	4
Buena Park, City of	7
East Orange County Water District.....	10
El Toro Water District.....	13
Emerald Bay Service District	16
Fountain Valley, City of	19
Fullerton, City of	22
Golden State Water Company	25
Garden Grove, City of.....	28
Huntington Beach, City of	31
Irvine Ranch Water District.....	34
Laguna Beach County Water District	37
La Habra, City of.....	40
La Palma, City of	43
Mesa Consolidated Water District	46
Moulton Niguel Water District.....	49
Newport Beach, City of	52
Orange, City of	55
Orange Park Acres Mutual Water Company	58
San Clemente, City of	61
San Juan Capistrano, City of	64
Santa Ana, City of	67
Santa Margarita Water District.....	70
Seal Beach, City of	73
Serrano Water District	76
South Coast Water District	89
Trabuco Canyon Water District.....	82
Tustin, City of.....	85
Westminster, City of	88
Yorba Linda Water District	91
Wholesale Agencies:	
EOCWD Wholesale	95
Municipal Water District of Orange County	97
Orange County Water District.....	99



 Freeways and Tollways
 G.S.W.C Golden State Water Company



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Retail Water Agencies of Orange County



Center for Demographic Research, February 2007
 Portions of this map are copyrighted, and reproduced with permission granted, by THOMAS BROS. MAPS

CITY OF ANAHEIM

Commodity Rates and Fixed Charges
--

Billing Period: Monthly Bi-monthly
(Comm./Ind.) (Residential)

Service \$1.360 /100 cubic feet (ccf) for all ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 8/1/07 ; the next increase is anticipated for 8/1/08

The last rate restructuring was 7/1/99 ; the next restructuring is anticipated for N/A

Anaheim provides for an automatic commodity adjustment when the supply costs, water quality costs or pumping costs change.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	---	3"	\$20.60
5/8"	\$5.00	4"	29.95
3/4"	5.00	5"	---
1"	6.55	6"	55.95
1 1/2"	9.15	8"	87.15
2"	12.25	10"	153.50

CITY OF ANAHEIM

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	\$12.25	\$12.50
3"	20.60	18.75
4"	29.95	25.00
6"	55.95	37.50
8"	87.15	50.00
10"	153.50	62.50
12"	---	N/A

General Water System Data			
Population (service area: 2002 DOF)	346,900		
Miles of Mains (8" & larger)	747	Miles	
Annual Water Distributed FY 06-07	76,687	AF	
Less Annual Water Sales	73,871	AF	
Less Internal Uses (flushing, cleaning, irrigation, etc.)	AF		
Equals Unaccounted for Water	2,816	AF	3.7 % UAW
Peak Month Distribution Last Fiscal Year	7,930	AF in July 2006	
Average Single-family Residential Use (monthly)	20 ccf		

Sources:

Local Surface
 Met 32 % Wells 68 % Runoff _____ % Recycled _____ %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Meters are maintained on a regular program designed to check every meter 3" and larger every other year; every fire line meter every year; smaller meters are replaced every 15 years or changed-out when they malfunction.

Mission Statement

Anaheim Public Utilities Mission Statement: Adding value to the community through a customer-focused approach to providing reliable, high quality water and power at competitive rates.

CITY OF ANAHEIM

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$48,062,000	92%
Other Operating Revenues	1,538,000	3%
Investment Income	1,995,000	4%
Property Taxes		0%
Other	746,000	1%
Total Source of Funds	\$52,341,000	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$22,922,000	41%
Pumping	3,587,000	6%
Treatment	2,018,000	4%
Transmission & Distribution	5,307,000	9%
Customer Accounts	2,016,000	4%
Administrative	8,037,000	14%
Principal & Interest (all obligations)	3,124,000	6%
Capital Improvements funded by non-debt	7,066,000	12%
Other	-0-	0%
Transfers to City General Fund	2,258,000	4%
Total Use of Funds	\$56,335,000	100%
Net Source and Use of Funds	(\$3,994,000)	

Contact Person:

Rick Shintaku

Phone: 714/765-4181

CITY OF BREA

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service \$1.87 /100 cubic feet (ccf) for 1-12 units ccf
 \$2.22 /100 cubic feet (ccf) for 13+ units ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/1/07 ; the next increase is anticipated for 7/1/08

The last rate restructuring was 4/1/06 ; the next restructuring is anticipated for unknown

Brea does provide for an automatic commodity adjustment beginning July 1, 2007 when the cost of supply changes. Lifeline customers are discounted 20% from residential service rates.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	---	3"	\$76.77
5/8"	\$5.15	4"	140.94
3/4"	5.15	5"	---
1"	5.15	6"	314.31
1 1/2"	21.74	8"	557.03
2"	36.91	10"	869.10

CITY OF BREA

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	2.98	N/A
3"	4.39	60.00
4"	6.83	---
6"	15.59	---
8"	30.70	---
10"	53.42	---
12"	84.92	---

General Water System Data	
Population	39,584
Miles of Mains (8" & larger)	162 Miles
Annual Water Produced & Purchased	12,260 AF
Less Annual Water Sales	11,174 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	100 AF
Equals Unaccounted for Water	961 AF 9 % UAW
Peak Month Use Last Fiscal Year	1,365 AF in Sept 2004
Average Single-family Residential Use (monthly)	16 ccf

Sources:

Local Surface
 Met 40 % Wells 60 % Runoff _____ % Recycled _____ %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

All water meters 1 1/2" and larger are tested and calibrated every two years (no cf limit). They are repaired or replaced in house. All residential meters are replaced every 15—20 years regardless of cf used.

City Statement

CITY OF BREA

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$10,500,141	71%
Other Operating Revenues	177,584	1%
Investment Income	440,286	3%
Property Taxes	0	0%
Capital Reserve Fund	3,764,293	25%
Total Source of Funds	\$14,882,304	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$5,476,516	37%
Pumping	351,348	2%
Treatment	0	0%
Transmission & Distribution	344,202	2%
Customer Accounts	0	0%
Administrative	1,503,875	10%
Principal & Interest (all obligations)	1,582,107	11%
Capital Improvements funded by non-debt	5,274,256	35%
Other	0	0%
Transfers to City General Fund	350,000	2%
Total Use of Funds	\$14,882,304	100%
Net Source and Use of Funds	\$ 0	

Contact Person:

Ron Krause and Bill Gallardo
Phone: 714/671-4418

CITY OF BUENA PARK

Commodity Rates and Fixed Charges
--

Billing Period: Monthly Bi-monthly

Residential Service 1.81 /1000 gallons for all

(See Tables 1 & 2 for more information)

The last commodity rate increase was 11/1/07 ; the next increase is anticipated for 6/2008

The last rate restructuring was 7/2004 ; the next restructuring is anticipated for unknown

Buena Park does not provide for an automatic commodity adjustment whenever the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	N/A	3"	106.73
5/8"	16.70	4"	133.39
3/4"	16.70	5"	N/A
1"	34.71	6"	160.05
1 1/2"	53.38	8"	186.13
2"	80.08	10"	213.43

CITY OF BUENA PARK

Construction Meters & Fire Protection Services		
Size	Fire	Construction
2"	N/A	N/A
3"	N/A	N/A
4"	16.00	N/A
6"	24.00	N/A
8"	32.00	N/A
10"	40.00	N/A
12"	48.00	N/A

General Water System Data	
Population	82,450
Miles of Mains (8" & larger)	225 Miles
Annual Water Produced & Purchased	17,140 AF
Less Annual Water Sales	15,773 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	390 AF
Equals Unaccounted for Water	500 AF 3 % UAW
Peak Month Use Last Fiscal Year	1,966 AF July 2006
Average Single-family Residential Use	30 ccf

Sources:

Local Surface
 Met 32 % Wells 68 % Runoff _____ % Recycled _____ %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

The City installed a touch-read meter system—19,000 meters were changed-out during 1999.

City Water Division Goal

The City of Buena Park's Water Division's goal is to bring its residents the highest quality water at the most affordable price.

CITY OF BUENA PARK

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$11,051,741	82%
Other Operating Revenues	1,511,197	12%
Investment Income	312,231	2%
Property Taxes	0	0%
Other (\$588320.68 Capital Contribution)	591,821	4%
Total Source of Funds	\$13,466,990	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$6,358,226	51%
Pumping	180,648	1%
Treatment	1,756,013	14%
Transmission & Distribution	1,384,742	11%
Customer Accounts	878,007	7%
Administrative	501,718	4%
Principal & Interest (all obligations)	306,414	2%
Capital Improvements funded by non-debt	868,968	7%
Other	8,215	0%
Transfers to City General Fund	300,000	2%
Total Use of Funds	\$12,542,951	100%
Net Source and Use of Funds	\$924,039	

Contact Person:

Charles Fowler

Phone: 714/562-3701

— EAST ORANGE COUNTY WATER DISTRICT —

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service \$1.64 /100 cubic feet (ccf) for all ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 8/16/05 ; the next increase is anticipated for unknown

The last rate restructuring was N/A ; the next restructuring is anticipated for N/A

EOCWD does not provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Monthly Charge or Customer Charge			
Meter Size	Bi-Monthly Charge*	Meter Size	Charge
1/2"	N/A	3"	114.00
5/8"	16.00	4"	N/A
3/4"	18.00	5"	N/A
1"	30.00	6"	N/A
1 1/2"	46.00	8"	N/A
2"	80.00	10"	N/A

* Does not include capital project fee \$20 bi-monthly

— EAST ORANGE COUNTY WATER DISTRICT —

General Water System Data			
Population	3,195		
Miles of Mains (8" & larger)	17 Miles		
Annual Water Produced & Purchased	1,160	AF	
Less Annual Water Sales	1,122	AF	
Less Internal Uses (flushing, cleaning, irrigation, etc.)	4.2	AF	
Equals Unaccounted for Water	42.4	AF	3.7% UAW
Peak Month Use Last Fiscal Year	130	AF	Aug 2006
Average Single-family Residential Use (monthly)	40 ccf		

Sources:

Local Surface

Met 28.8 % Wells 71.2 % Runoff N/A % Recycled N/A %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

EOCWD replaces meters approximately every 10 years.

Mission Statement

EOCWD's primary objective is to provide the most cost effective, reliable and highest quality water services for the present as well as the future. By operating in the most cost efficient manner possible, keep the cost of water to our customers affordable. Provide a safe working environment for its employees. Serve the community in an open manner and, at all times, communicate and deliberate in public meetings where open discussions are promoted.

EAST ORANGE COUNTY WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$964,579	69%
Other Operating Revenues	19,455	1%
Investment Income	10,765	1%
Property Taxes	313,314	22%
Other	97,455	7%
Total Source of Funds	\$1,405,568	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	403,805	29%
Pumping	57,183	4%
Treatment	15,684	1%
Transmission & Distribution	291,021	21%
Customer Accounts	1,219	1%
Administrative	237,422	17%
Principal & Interest (all obligations)	44,971	3%
Capital Improvements funded by non-debt	335,291	24%
Other	0	0%
Transfers to City General Fund		0%
Total Use of Funds	\$1,386,596	100%
Net Source and Use of Funds	\$18,972	

Contact Person:

Denise Dobson
Phone: 714/538-5815

EL TORO WATER DISTRICT

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service \$1.43 /100 cubic feet (ccf) for All ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 11/07 ; the next increase is anticipated for unknown

The last rate restructuring was 07/06 ; the next restructuring is anticipated for unknown

ETWD does not provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge					
Meter Size	Charge.	Cap. Replace. / Refurb. Charge	Meter Size	Charge	Cap. Replace. Refurb.Charge
1/2"	N/A	N/A	3"	N/A	N/A
5/8"	\$6.95	\$2.21	4"	N/A	N/A
3/4"	8.85	2.21	5"	N/A	N/A
1"	12.70	3.70	6"	N/A	N/A
1 1/2"	22.30	8.99	8"	N/A	N/A
2"	45.80	22.56	10"	N/A	N/A

EL TORO WATER DISTRICT

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	14.00	N/A
3"	21.00	45.80
4"	\$28.00	N/A
6"	42.00	N/A
8"	56.00	N/A
10"	70.00	N/A
12"	84.00	N/A

General Water System Data	
Population	50,800
Miles of Mains (8" & larger)	148 Miles
Annual Water Produced & Purchased	12,226 AF
Less Annual Water Sales	11,813 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	75 AF
Equals Unaccounted for Water	338 AF 2.7 % UAW
Peak Month Use Last Fiscal Year	1,166 AF July, 2006
Average Single-family Residential Use (monthly)	18 ccf

Sources:

Local Surface
 Met 96 % Wells % Runoff % Recycled 4 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

ETWD utilizes an aggressive old meter change-out replacement program designed to replace meters in excess of 15 years in age. Meters are tested on an ongoing basis.

Mission Statement

The mission of the El Toro Water District is to provide its customers a safe, adequate and reliable supply of water and wastewater service in an environmentally and economically responsible way. Please see www.etwd.com

EL TORO WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$9,098,404	78%
Other Operating Revenues	160,304	1%
Investment Income	707,333	6%
Property Taxes	440,525	4%
Other/Reserves	1,299,099	11%
Total Source of Funds	\$11,705,665	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$5,694,242	49%
Pumping	531,924	5%
Treatment	78,005	1%
Transmission & Distribution	1,971,236	17%
Customer Accounts	353,829	3%
Administrative	1,282,490	11%
Principal & Interest (all obligations)	707,333	6%
Capital Improvements funded by non-debt	1,086,606	9%
Other	-0-	0%
Total Use of Funds	\$11,705,665	100%
Net Source and Use of Funds	\$ 0	

Contact Person: Neely Shahbakhti
 Phone: 949/837-7092

EMERALD BAY SERVICE DISTRICT

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Commodity Rate _____ /100 cubic feet for first _____ ccf
 Residential service 2.51 for next All ccf up to _____ ccf
 Single family, small lot --- for next --- ccf up to --- ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/01/07 ; the next increase is anticipated for 7/01/08

The last rate restructuring was 7/01/07 ; the next restructuring is anticipated for 7/1/08

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"		3"	\$173
5/8"		4"	273
3/4"	\$20	5"	
1"	40	6"	
1 1/2"	80	8"	
2"	100	10"	

Construction Meters & Fire Protection Services		
Size	Fire	Construction
2"		N/A
3"	N/A	
4"	\$16.	
6"	24	
8"	32	
10"	40	
12"		

EMERALD BAY SERVICE DISTRICT

General Water System Data

Population	1,500
Miles of Mains (8" & larger)	2.2 Miles
Annual Water Produced & Purchased	357 AF
Less Annual Water Sales	352 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	0 AF
Equals Unaccounted for Water	5 AF 1 % UAW
Peak Month Use Last Fiscal Year	Sept. 2006
Average Single-family Residential Use	22 ccf

Sources:

Met 100 % Wells _____ % Local Surface
 Runoff _____ % Recycled _____ %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Meters are replaced every 20 years and meter boxes are maintained every 3 years.

Mission Statement

EMERALD BAY SERVICE DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)		
Other Operating Revenues		
Investment Income		
Property Taxes	277,706	100%
Other		0%
Total Source of Funds	\$277,706	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply		
Pumping		
Treatment		
Transmission & Distribution		
Customer Accounts		
Administrative	638	.04%
Principal & Interest (all obligations)		
Capital Improvements funded by non-debt	165,072	94.0%
Other	9,660	5.5%
Transfers to City General Fund		
Total Use of Funds	\$175,370	100%
Net Source and Use of Funds	\$102,336	

Contact Person:

Toni Schmidt

Phone: 949/494-8571

CITY OF FOUNTAIN VALLEY

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service \$1.62 /100 cubic feet (ccf) for first 20 ccf

 1.93 /ccf for all higher ccf

Recycled water rate 1.54 /ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/04 ; the next increase is anticipated for 7/06

The last rate restructuring was 8/99 ; the next restructuring is anticipated for N/A

Fountain Valley provides for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge		
All	\$12.96*		

*All sizes charged a minimum of \$12.96 (for 0--8 units) bi-monthly. If usage is over 4 units monthly, then there is no fixed charge. (0-8 units \$12.96 minimum bi-monthly).

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	\$7.50	N/A
3"	15.00	35.00**
4"	20.00	\$25.00/Lot Residential
6"	30.00	\$100./acre -nonresidential
8"	40.00	
10"	50.00	
12"	60.00	

**Only 3" fire hydrant meter- inspection charge \$40.00 plus monthly rate. Meter charge is \$2.00 per day or \$60.00/month.

CITY OF FOUNTAIN VALLEY

General Water System Data

Population	57,741
Miles of Mains (8" & larger)	141 Miles
Annual Water Produced & Purchased	11,834 AF
Less Annual Water Sales	11,179 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	300 AF
Equals Unaccounted for Water	355 AF 3.0 % UAW
Peak Month Use Last Fiscal Year	1,620 AF in July 2006
Average Single-family Residential Use (monthly)	15 ccf

* Increase in peak month due to OCWD Talbert Barrier Water Purchase Project.

Sources:

Local Surface
 Met 31 % Wells 69 % Runoff 0 % Recycled 6 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

3" meters and larger are tested and repaired every 2 years. 5/8, 3/4, 1, 1 1/2, and 2-inch meters are tested and replaced as needed on a 10-year cycle.

Mission Statement

"The City of Fountain Valley provides high-quality water to its customers at one of the lowest rates in Orange County. Customer service is our number one priority at the City of Fountain Valley."

CITY OF FOUNTAIN VALLEY

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$8,878,813	94%
Other Operating Revenues	309,239	3%
Investment Income	431,197	3%
Property Taxes	-0-	0%
Other Operating Revenues	23,557	0%
Total Source of Funds	\$9,642,806	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$5,819,452	59%
Pumping	186,864	2%
Treatment	366,657	3%
Transmission & Distribution	511,075	6%
Customer Accounts	269,679	3%
Administrative	249,421	3%
Principal & Interest (all obligations)	70,361	1%
Capital Improvements funded by non-debt	756,184	14%
Other	-0-	0%
Transfers to City General Fund	800,000	9%
Total Use of Funds	\$9,029,693	100%
Net Source and Use of Funds	\$613,113	

Contact Person:

Mike Green and Jeannie Heimberger

Phone: 714/593-4600

CITY OF FULLERTON

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service \$1.962 /1,000 gallons for first 7,500 gallons per mo.
 (single family) 2.251 /1,000 gallons up to 20,000 gallons per mo.
 2.53 /1,000 gallons for all higher usage per month

* multi-family tiers are 50% of those shown for single-family.

Commercial use	<u> \$1.895 </u> /1,000 gallons	Agricultural use	<u> \$1.958 </u> /1,000 gallons
Construction use	<u> 1.851 </u> /1,000 gallons	Fire-fighting use	<u> 1.997 </u> /1,000 gallons
Industrial use	<u> 1.762 </u> /1,000 gallons	Resid'l. Landscape use	<u> 2.479 </u> /1,000 gallons

(See Tables 1 & 2 for more information)

The last commodity rate increase was 8/1/07 ; the next increase is anticipated for 1/1/08

The last rate restructuring was 2005 ; the next restructuring is anticipated for 2009

Fullerton provides for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge for 2-Months			
Meter Size	Charge	Meter Size	Charge
5/8"	\$10.24	3"	55.34
3/4"	10.24	4"	78.74
1"	12.30	6"	124.86
1 1/2"	22.50	8"	209.92
2"	31.74	10"	305.96

CITY OF FULLERTON

Construction Meter & Fire Protection Service Charges for 2-Month Billing Period

Size	Fire	Construction
2"	\$ 12.68	\$2.00/day, min 7.00/month
4"	25.36	
6"	38.16	
8"	50.96	
10"	63.52	

General Water System Data

Population	135,000
Miles of Mains (8" & larger)	300 Miles
Annual Water Produced & Purchased	33,645 AF
Less Annual Water Sales	32,130 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	N/A AF
Equals Unaccounted for Water	1,514 AF 4.5 % UAW
Peak Month Use Last Fiscal Year	3,645 AF in July 2006
Average Single-family Residential Use (monthly)	21 ccf

Sources:

Local Surface
 Met 32 % Wells 68 % Runoff % Recycled %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Fullerton tests all large meters (6" and above) semi-annually. 3" and 4" meters are tested annually. 2" city, industrial and commercial meters are tested bi-annually. All other 2" meters are tested every 3 years. Small meters are replaced every 15 years.

Mission Statement

The City of Fullerton Water Utility is dedicated to providing high quality water at a reasonable price. www.ci.fullerton.ca.us

CITY OF FULLERTON

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$23,000,000	90%
Other Operating Revenues	-0-	0%
Investment Income	500,000	2%
Property Taxes	-0-	0%
Other	2,000,000	8%
Total Source of Funds	\$25,500,000	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$11,650,000	46%
Pumping, Treatment, Trans. & Distribution	5,795,000	23%
Customer Accounts	0	0%
Administrative	3,280,000	13%
Principal & Interest (all obligations)	875,000	3%
Capital Improvements funded by non-debt	1,600,000	6%
Other	0	0%
Transfers to City General Fund	2,300,000	9%
Total Use of Funds	\$25,500,000	100%
Net Source and Use of Funds	\$ 0	

Contact Person: David Schickling
 Phone: 714/738-6382

CITY OF GARDEN GROVE

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	\$15.00	N/A
3"	29.18	
4"	38.32	
6"	57.98	
8"	78.02	
10"	99.06	
12"	109.06	

General Water System Data	
Population	171,042
Miles of Mains (8" & larger)	418 Miles
Annual Water Produced & Purchased	30,542 AF
Less Annual Water Sales	29,067 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	1,475 AF
Equals Unaccounted for Water	1,475 AF 5 % UAW
Peak Month Use Last Fiscal Year	3,351.3 AF in July, 2006
Average Single-family Residential Use (monthly)	20 ccf

Sources:

Local Surface
 Met 18 % Wells 82 % Runoff _____ % Recycled _____ %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Garden Grove replaces 500 to 1,500 meters annually.

Mission

The City of Garden Grove's Water Division's mission is to provide high quality water at the lowest possible cost.

CITY OF GARDEN GROVE

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$19,842,924	97%
Other Operating Revenues	537,557	2.6%
Investment Income	135,967	.7%
Property Taxes	0	0%
Other		0%
Total Source of Funds	\$20,516,448	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$10,035,818	60%
Pumping	822,566	5%
Treatment		0%
Transmission & Distribution	1,201,026	7%
Customer Accounts	327,526	2%
Administrative	3,142,708	19%
Principal & Interest (all obligations)	1,290,813	7%
Capital Improvements funded by non-debt	0	0%
Other		0%
Transfers to City General Fund		0%
Total Use of Funds	\$16,820,457	100%
Net Source and Use of Funds	\$3,695,991	

Contact Person:

Zack Barrett

Phone: 714/741-5395

GOLDEN STATE WATER CO.
A Subsidiary of American States Water Company

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service 1.8640 /100 cubic feet (ccf) for all ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 1/1/08 ; the next increase is anticipated for 1/01/09

The last rate restructuring was N/A ; the next restructuring is anticipated for N/A

GSWC does not provide for an automatic commodity adjustment when the cost of supply changes. All rates are subject to California Public Utilities Commission approval.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"		3"	482.00
5/8"	\$32.20	4"	804.00
3/4"	48.20	5"	
1"	80.40	6"	1,608.00
1 1/2"	160.80	8"	2,572.00
2"	258.00	10"	3,698.00

GOLDEN STATE WATER CO.
A Subsidiary of American States Water Company

Construction Meter & Fire Protection Service Charges		
Size	Fire*	Construction
2"	\$20.00	N/A
3"	N/A	
4"	\$40.00	
6"	60.00	
8"	80.00	
10"	100.00	
12"	120.00	

* \$5.00/month for each inch of diameter of service connection.

General Water System Data			
Population	165,100		
Miles of Mains (8" & larger)	224	Miles	
Annual Water Produced & Purchased	31,970	AF	
Less Annual Water Sales	29,980	AF	
Less Internal Uses (flushing, cleaning, irrigation, etc.)	140	AF	
Equals Unaccounted for Water	1,850	AF	5.8 % UAW
Peak Month Use Last Fiscal Year	3,390	AF in Sept 2006	
Average Single-family Residential Use (monthly)	25 ccf		

Sources:

Met 35 % Wells 65 % Runoff 0 % Recycled 0 %

*In lieu counted as groundwater.

Meter Maintenance Program

GSWC maintains small meters on a regular program designed to test each meter as follows: 5/8" & 3/4" – 20 years; 1" – 15 years; and 2" – 10 years. Large meters are on a yearly testing schedule at a usage of 1000 ccf/month, or less. Large meters that use over 1000 ccf/month up to 5000 ccf/month will be tested every 6 months. Large meters that use over 5,000 ccf/month will be tested every 3 months.

Mission Statement

American States Water Company is a holding company dedicated to increasing value through excellence in managing utility assets and services. Golden State Water Company, a subsidiary of American States Water Company, provides water service to 246,800 customers throughout California, including over 41,600 customers in Orange County.

GOLDEN STATE WATER CO.
A Subsidiary of American States Water Company

Financial Information

No response received

Contact Person:

Lonnie Curtis 714/535-8010 ext. 300

CITY OF HUNTINGTON BEACH

Commodity Rates and Fixed Charges

Billing Period:

Monthly

Bi-monthly

Residential Service \$1.4471 /100 cubic feet (ccf) for all ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 10/06 ; the next increase is anticipated for 1/08

The last rate restructuring was 10/99 ; the next restructuring is anticipated for 10/08

Huntington Beach provides for an automatic commodity adjustment when the cost of supply changes.

*Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
¾"	\$8.2737	4" FM	\$273.0321
1"	16.5474	6" compound	273.0321
1-1/2"	24.8211	6" FM	554.3379
2"	41.3685	8" FM	968.0229
3"	91.0107	10" FM	1,514.0871
4"compound	140.6529		

* A \$5.50/month capital surcharge is added for each equivalent dwelling unit based on meter capacity.

CITY OF HUNTINGTON BEACH

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	\$10.00	N/A
3"	N/A	\$70.00
4"	20.00	70.00
6"	30.00	70.00
8"	40.00	N/A
10"	50.00	N/A
12"	60.00	N/A

General Water System Data	
Population	196,954
Miles of Mains (8" & larger)	378 Miles
Annual Water Produced & Purchased	33,316 AF
Less Annual Water Sales	31,649 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	42 AF
Equals Unaccounted for Water	1,624 AF 4.9 % UAW
Peak Month Use Last Fiscal Year	3,502 AF in July 2006
Average Single-family Residential Use (monthly)	12 ccf

Sources:

Local Surface

Met 34.6 % Wells 65.4 % Runoff 0 % Recycled 0 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Huntington Beach replaces 3/4" and 1" residential meters every 15 years, with the exception of high consumption meters. 1 1/2" and 2" positive displacement meters are replaced by consumption and age of meter. 2" through 10" compound and Class II meters are overhauled on a maintenance program using a factor of consumption at last overhaul date.

Mission Statement

Please see <http://surfcity-hg.org/HBWeb/CityDepartments/PublicWorks/WaterOperations/>

CITY OF HUNTINGTON BEACH

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$30,586,564	92.4%
Other Operating Revenues	0	0%
Investment Income	1,903,960	5.75%
Property Taxes		0%
Other	605,878	1.83%
Total Source of Funds	\$33,096,402	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$10,323,220	31.19%
Pumping	2,840,439	8.58%
Treatment	652,284	1.97%
Transmission & Distribution	3,008,535	9.09%
Customer Accounts	1,567,257	4.74%
Administrative	5,060,988	15.29%
Principal & Interest (all obligations)	-0-	0%
Capital Improvements funded by non-debt	3,336,745	10.08%
Other	-0-	-0-
Transfers to City General Fund	4,093,090	12.37%
Reserves (set aside)	2,213,844	6.69%
Total Use of Funds	\$33,096,402	100%
Net Source and Use of Funds	\$ 0	

Please note: these figure are pre-audit. Fiscal year was 10/1/06 to 9/30/07.

Contact Person:

Ken Dills

Phone: 714/375-5055

IRVINE RANCH WATER DISTRICT

Commodity Rates and Fixed Charges

Billing Period:

Monthly

Bi-monthly

			<u>Low ET</u>	<u>High ET</u>
Residential Service	\$0.82	/100 cf feet for first	<u>6</u> ccf	<u>7</u> ccf
Single family, small lot	<u>0.98</u>	up to	<u>14</u> ccf	<u>18</u> ccf
	<u>1.96</u>	up to	<u>21</u> ccf	<u>27</u> ccf
	<u>3.92</u>	up to	<u>28</u>	<u>36</u> ccf
	<u>7.84</u>	for all higher ccfs		

IRWD computes tier ccfs each month based on actual evapotranspiration (ET). The above-shown tiers are only examples typical of low and high ET weather periods.

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/07 ; the next increase is anticipated for unknown

The last rate restructuring was 6/97 ; the next restructuring is anticipated for unknown

IRWD provides for an automatic commodity adjustment whenever the cost of supply changes.

Residential Fixed Charge or Customer Charge				
Meter Size	Disc	Meter Size	Compound	Turbo
5/8"	\$7.50	3"	160.95	207.80
3/4"	7.50	4"	260.55	617.60
1"	7.50	6"	418.30	1,093.15
1 1/2"	17.65	8"	933.95	1,598.75
2"	24.20	10"	1,036.55	

IRVINE RANCH WATER DISTRICT

Construction Meters & Fire Protection Services			
Size	Fire	Construction	Turbo
3"	\$40.80	\$233.45	\$259.40
4"	54.40	602.20	669.10
6"	81.60	1,030.35	1,144.80
8"	108.80	1,4825.25	1,650.25
10'	136.00	2,309.05	2,565.60

General Water System Data	
Population	328,938
Miles of Mains (8" & larger)	1,080 Miles
Annual Water Produced & Purchased	63,646 AF
Less Annual Water Sales	58,501 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	200 AF
Equals Unaccounted for Water	5,018 AF 7.9 % UAW
Peak Month Use Last Fiscal Year	8,532 AF in June 2006
Average Single-family Residential Use	18 ccf

Sources:

Local Surface
 Met 36 % Wells 40 % Runoff 9 % Recycled 15 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

IRWD's in-house meter maintenance crew performs routine maintenance. Meters are maintained on a regular program designed to check every meter within 2 years.

Mission Statement

Irvine Ranch Water District is a public agency whose mission is to provide reliable, high-quality water and sewer services in an efficient, cost-effective manner and an environmentally sensitive way that provides a high level of customer satisfaction.

IRVINE RANCH WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$27,781,000	26%
Other Operating Revenues	17,357,000	16%
Investment Income	39,437,000	36%
Property Taxes	15,331,000	14%
Other	8,494,000	8%
Total Source of Funds	\$108,400,000	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$18,654,000	17%
Pumping		0%
Treatment		0%
Transmission & Distribution	14,627,000	13%
Customer Accounts	1,698,000	2%
Administrative	10,267,000	9%
Principal & Interest (all obligations)	32,973,000	31%
Capital Improvements funded by non-debt	-0-	0%
Other	15,314,000	14%
Transfers to Capital Replacement Fund	14,867,000	14%
Total Use of Funds	\$108,400,000	100%
Net Source and Use of Funds	\$ 0	

Contact Person:

Deborah Cherney
Phone: 949/453-5300

LAGUNA BEACH COUNTY WATER DISTRICT

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service \$2.94 /100 cubic feet (ccf) for all ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/1/07 ; the next increase is anticipated for 7/1/08

The last rate restructuring was 7/1/07 ; the next restructuring is anticipated for 7/1/08

LBCWD does not provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"		3"	\$173.00
5/8"		4"	273.00
3/4"	20.00	5"	
1"	40.00	6"	
1 1/2"	80.00	8"	
2"	100.00	10"	

LAGUNA BEACH COUNTY WATER DISTRICT

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"		N/A
3"	N/A	\$324.00
4"	\$16.00	
6"	24.00	
8"	32.00	
10"	40.00	
12"		

General Water System Data	
Population	15,500
Miles of Mains (8" & larger)	134 Miles
Annual Water Produced & Purchased	4,169 AF
Less Annual Water Sales	4,105 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	9 AF
Equals Unaccounted for Water	55 AF 1 % UAW
Peak Month Use Last Fiscal Year	426 AF in Sept. 06
Average Single-family Residential Use (monthly)	15ccf

Sources:

Met 100 % Wells _____ % Local Surface Runoff _____ % Recycled _____ %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Laguna Beach CWD replaces meters every 20 years and maintains meter boxes every 3 years.

Mission Statement

Laguna Beach County Water District was formed in 1925 to supplement the community's existing groundwater supplies. Currently, the District relies on 100% imported supplies. The District's mission is to continue to bring reliable sources of water to the community. Since 2004, the District has been providing contract water services to the community of Emerald Bay.

LAGUNA BEACH COUNTY WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$6,549,463	63%
Other Operating Revenues	133,026	1%
Investment Income	1,102,980	11%
Property Taxes	1,781,784	17%
Other	836,308	8%
Total Source of Funds	\$10,403,561	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$2,447,379	28%
Pumping	456,377	5%
Treatment		0%
Transmission & Distribution	1,511,593	17%
Customer Accounts	175,901	2%
Administrative	2,019,893	23%
Principal & Interest (all obligations)	-0-	0%
Capital Improvements funded by non-debt	2,060,020	23%
Other	153,384	2%
Transfers to City General Fund		0%
Total Use of Funds	\$8,824,547	100%
Net Source and Use of Funds	\$1,579,014	

Contact Person:

Bob Westphal

Phone: 949/494-1041

CITY OF LA HABRA

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service \$1.82 /100 cubic feet (ccf) for first 170 ccf
 1.97 For higher ccfs from May 1 to Oct. 1

Construction service 1.29 /ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 8/2007 ; the next increase is anticipated for 8/2008

The last rate restructuring was 8/2007 ; the next restructuring is anticipated for 8/2008

La Habra does not provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"		3"	\$106.14
5/8"	\$ 8.13	4"	187.87
3/4"	9.18	5"	
1"	11.85	6"	422.72
1 1/2"	27.21	8"	476.99
2"	47.17	10"	

\$3.20 additional charge per each additional living unit, regardless of meter size (duplex, triplex, etc.).

CITY OF LA HABRA

Construction Meter & Fire Protection Service		
Size	Fire	Construction
2"	\$ 2.40	N/A
3"	3.60	1,355.75 (deposit fee)
4"	4.80	
6"	7.20	
8"	9.60	
10"	12.00	
12"	14.00	

General Water System Data	
Population	61,789
Miles of Mains (8" & larger)	62 Miles
Annual Water Produced & Purchased	10,854 AF
Less Annual Water Sales	10,311 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	AF
Equals Unaccounted for Water	543 AF 5 % UAW
Peak Month Use Last Fiscal Year	1,258 AF in Aug 2006
Average Single-family Residential Use (monthly)	25 ccf

Sources:

Met 30 % Wells 70 % Local Surface Runoff _____ % Recycled _____ %

Meter Maintenance Program

La Habra tests all large meters every 10 years and replaces small residential meters every 15 years or as needed.

City Statement

City of La Habra...
"A Caring Community."

CITY OF LA HABRA

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$9,454,609	94.5%
Other Operating Revenues	298,661	3%
Investment Income	125,785	1.3%
Property Taxes	---	0%
Other	126,462	1.3%
Total Source of Funds	\$10,005,517	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$4,378,079	49%
Pumping	532,525	6%
Treatment	184,582	2%
Transmission & Distribution	1,065,051	12%
Customer Accounts	410,315	5%
Administrative	1,128,102	13%
Principal & Interest (all obligations)	467,594	5%
Capital Improvements funded by non-debt		0%
Other	709,174	8%
Transfers to City General Fund		0%
Total Use of Funds	\$8,875,422	100%
Net Source and Use of Funds	\$1,130,095	

Contact Person:

Mel Shannon

Phone: 562/905-9729

CITY OF LA PALMA

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential service \$2.048 /100 cubic feet (ccf) for all ccf

Construction service \$2.04 /ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 2005 ; the next increase is anticipated for unknown

The last rate restructuring was 2005 ; the next restructuring is anticipated for unknown

La Palma does not provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	\$26.00	3"	\$74.00
5/8"	\$26.00	4"	N/A
3/4"	\$26.00	5"	N/A
1"	\$74.00	6"	N/A
1 1/2"	\$74.00	8"	N/A
2"	\$74.00	10"	N/A

** A fixed charge of \$26.00 is charged for the first 0-5 units of water used.
 A commodity charge of \$2.04 is applied for each additional unit used.

Calculation of Theoretical Monthly Water Bill

(10 ccf)	(20 ccf)	(30 ccf)
\$13.00 fixed chg(0-5)	\$13.00 fixed chg (0-5)	\$13.00 fixed chg. (0-5)
<u>\$10.20 comm.chg (add 5 units)</u>	<u>\$30.00 comm.chg(add 15 u)</u>	<u>\$51.00 comm.chg. (add .25)</u>
\$23.20 total per month	\$43.60 total per month	\$64.00 total per month

CITY OF LA PALMA

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	N/A	N/A
3"	N/A	"
4"	N/A	"
6"	N/A	"
8"	N/A	"
10"	N/A	"
12"	N/A	"

General Water System Data	
Population	16,550
Miles of Mains (8" & larger)	34 Miles
Annual Water Produced & Purchased	2,481 AF
Less Annual Water Sales	2,257 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	118 AF
Equals Unaccounted for Water	105 AF 1.3 % UAW
Peak Month Use Last Fiscal Year	261 AF in July 2006
Average Single-family Residential Use (monthly)	18 ccf

Sources:

Local Surface
 Met 25 % Wells 75 % Runoff % Recycled %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Meters are maintained on a regular program designed to replace every meter within 10—15 years.

City Statement

CITY OF LA PALMA

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$2,419,553	96%
Other Operating Revenues	15,552	1%
Investment Income	78,304	3%
Property Taxes		0%
Other	0	0%
Total Source of Funds	\$2,513,409	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$1,447,554	46%
Pumping		0%
Treatment		0%
Transmission & Distribution	410,421	13%
Customer Accounts	254,708	8%
Administrative	88,909	3%
Principal & Interest (all obligations)	0	0
Capital Improvements funded by non-debt	964,723	30%
Other		0
Transfers to City General Fund	0	0%
Total Use of Funds	\$3,166,315	100%
Net Source and Use of Funds	(\$652,906)	

Contact Person:

Ismile H. Noorbaksh
Phone: 714/690-3310

— MESA CONSOLIDATED WATER DISTRICT —

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service \$2.17 /100 cubic feet (ccf) for all ccf
 Construction Service \$3.26

Plus an annual \$1.00 LAFCO surcharge.

(See Tables 1 & 2 for more information)

The last commodity rate increase was 9/07 ; the next increase is anticipated for unknown

The last rate restructuring was 2002 ;the next restructuring is anticipated for unknown

MCWD does not provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	---	3"	\$262.50
5/8"	\$15.00	4"	750.00
3/4"	22.50	5"	--
1"	37.50	6"	1,490.00
1 1/2"	75.00	8"	1,860.00
2"	120.00	10"	--

MESA CONSOLIDATED WATER DISTRICT

Construction Meter & Fire Protection Service Charges			
Size	Fire		Construction
	Class I	Class II	
2"	\$14.00	28.00	N/A
3"	21.00	42.00	600.00
4"	28.00	56.00	N/A
6"	42.00	84.00	N/A
8"	56.00	112.00	N/A
10"	70.00	140.00	---
12"	84.00	168.00	---

General Water System Data	
Population	110,000
Miles of Mains (8" & larger)	300 Miles
Annual Water Produced & Purchased	22,701 AF
Less Annual Water Sales	21,526 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	106 AF
Equals Unaccounted for Water	1,069 AF 5 % UAW
Peak Month Use Last Fiscal Year	7,294 AF in July 2006
Average Single-family Residential Use (monthly)	16 ccf

Sources:

Local Surface

Met 5 % Wells 90 % Runoff 0 % Recycled 5 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Mesa's goal is to replace 2,300 meters each year. In addition, approximately 250 non-operable meters are replaced each year. Large meters (3" and larger) are tested at least once every two years.

Mission Statement

Mesa Consolidated Water District's mission: Dedicated to satisfying our community's water needs. Visit our web site at www.mesawater.org

MESA CONSOLIDATED WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$26,183,740	92%
Other Operating Revenues	1,637,780	6%
Investment Income	688,588	2%
Property Taxes	-0-	0%
Other	8,546	0%
Total Source of Funds	\$28,518,654	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$9,890,612	37%
Pumping	1,254,116	5%
Treatment	2,024,349	8%
Transmission & Distribution	1,104,854	4%
Customer Accounts	547,798	2%
Administrative	6,211,185	23%
Principal & Interest (all obligations)	3,999,708	15%
Capital Improvements funded by non-debt	1,436,680	5%
Other	243,576	1%
Transfers to City General Fund	-0-	0%
Total Use of Funds	\$26,712,878	100%
Net Source and Use of Funds	\$1,805,776	

Contact Person: Victoria L. Beatley
 Phone: 949/574-1022

MOULTON NIGUEL WATER DISTRICT

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service	\$0.86	/100 cubic feet (ccf) for first	10	ccf
	.96	up to	20	ccf
	1.16	up to	30	ccf
	1.36	up to	50	ccf
	1.46	for all higher ccfs		

(See Tables 1 & 2 for more information)

The last commodity rate increase was 10/05 ; the next increase is anticipated for 10/10

The last rate restructuring was 7/97 ; the next restructuring is anticipated for N/A

MNWD does not provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	N/A	3"	\$26.60
5/8"	\$6.60	4"	36.60
3/4"	6.60	5"	N/A
1"	6.60	6"	56.60
1 1/2"	11.60	8"	76.60
2"	19.60	10"	96.60

MOULTON NIGUEL WATER DISTRICT

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	\$ 16.00	N/A
3"	24.00	50.00
4"	32.00	N/A
6"	48.00	N/A
8"	64.00	N/A
10"	80.00	N/A
12"	96.00	N/A

General Water System Data	
Population	165,918
Miles of Mains (8" & larger)	740 Miles
Annual Water Produced & Purchased	45,387 AF
Less Annual Water Sales	41,683 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	1,630 AF
Equals Unaccounted for Water	2,074 AF 5 % UAW
Peak Month Use Last Fiscal Year	5,069 AF in July 2006
Average Single-family Residential Use (monthly)	18 ccf

Sources:

Met 82 % Wells % Local Surface Runoff % Recycled 18 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

At MNWD, most meters are read on a monthly basis. Zero or low usage is checked at the time the meter is read. If a problem appears, then a service order is completed for the meter maintenance crew; otherwise, all meters are tested approximately every 3 years.

Mission Statement

Moulton Niguel Water District is a community-oriented agency dedicated to serving its customers and the environment with reliable, economical, high-quality water and sewer service.

MOULTON NIGUEL WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$25,831,145	44%
Other Operating Revenues	604,746	1%
Investment Income	5,670,571	10%
Property Taxes	26,370,628	45%
Other		0%
Total Source of Funds	\$58,477,090	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$18,183,889	35%
Pumping	393,556	1%
Treatment		
Transmission & Distribution	2,707,991	5%
Customer Accounts	285,213	1%
Administrative	8,044,838	15%
Principal & Interest (all obligations)	13,624,532	26%
Capital Improvements funded by non-debt	8,829,753	17%
Other	0	0%
		0%
Total Use of Funds	\$52,069,772	100%
Net Source and Use of Funds	\$6,407,318	

Contact Person:

Andy Czorny

Phone: 949/643-2006

CITY OF NEWPORT BEACH

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service \$2.08 /100 cubic feet (ccf) for all ccf
 Construction Service \$3.12 /ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 9/05 ; the next increase is anticipated for unknown

The last rate restructuring was N/A ; the next restructuring is anticipated for N/A

Newport Beach provides for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"		3"	\$36.00
5/8"		4"	51.00
3/4"	\$ 9.00	5"	
1"	11.00	6"	77.00
1 1/2"	14.00	8"	90.00
2"	19.00	10"	

CITY OF NEWPORT BEACH

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction*
2"	\$ 20.00	\$8.00/month
3"	N/A	all sizes
4"	40.00	
6"	60.00	
8"	80.00	
10"	100.00	
12"	120.00	

* Also \$813 deposit for meter.

General Water System Data	
Population	76,382
Miles of Mains (8" & larger)	285 Miles
Annual Water Produced & Purchased	18,698 AF
Less Annual Water Sales	15,717 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	1,599 AF
Equals Unaccounted for Water	1,382 AF 7 % UAW
Peak Month Use Last Fiscal Year	2,154 AF in Sept. 2006
Average Single-family Residential Use (monthly)	17 ccf

Sources:

Local Surface
 Met 31 % Wells 69 % Runoff _____ % Recycled <1 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Newport Beach checks meters on an as-needed basis, attempting to replace all meters within 15 years. 3-4 employees do meter maintenance during non-reading period.

City Statement

The City of Newport Beach, Utilities Department always strives to provide quality and cost effective utility services, specifically a safe and reliable water supply, to the community of Newport Beach. Additional information regarding the City of Newport Beach can be obtained at www.city.newport-beach.ca.us

CITY OF NEWPORT BEACH

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$17,099,837	96%
Other Operating Revenues	92,941	2%
Investment Income	615,721	3%
Property Taxes		0%
Other/Grants/Cooperative Funding		
Total Source of Funds	\$17,808,499	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$7,537,898	41%
Pumping	622,320	3%
Treatment	105,193	1%
Transmission & Distribution	4,808,073	25%
Customer Accounts		0%
Administrative	1,012,210	5%
Principal & Interest (all obligations)	1,584,900	8%
Capital Improvements funded by non-debt	1,785,166	9%
Other		0%
Transfers to City General Fund	1,541,004	8%
Total Use of Funds	\$18,996,764	100%
Net Source and Use of Funds	(\$1,188,265)	

Contact Person:

Cindy Asher

Phone: 949/644-3010

CITY OF ORANGE

Commodity Rates and Fixed Charges

Billing Period:

Monthly

Bi-monthly

Residential Service \$0.818 /100 cubic feet (ccf) for first 20 ccf
 1.368 / 21-70 ccf
 1.475 >70 ccf

City of Orange has an elevation charge to offset electrical energy cost for service to higher elevation zones: Zone 4: \$0.146/100 cf; Zone 5 - \$0.336/100 cf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/07 ; the next increase is anticipated for 6/2008

The last rate restructuring was 4/01 the next restructuring is anticipated for Spring 2010

On 5/1/02, the Orange City Council approved a new water rate structure and fee schedule method of adjusting rates in response to changes in water production and purchased water costs was approved.

Residential Fixed Charge or Customer Charge			
Meter Size	Monthly Charge	Meter Size	Charge
		3"	118.77
5/8"	\$16.33	4"	182.36
3/4"	16.33	5"	N/A
1"	23.39	6"	358.99
1 1/2"	41.04	8"	570.97
2"	62.24	10"	1348.17

CITY OF ORANGE

Construction Meter & Fire Protection Service Charges				
Size	Fire	Construction		
		Deposit	Installation	Daily Usage
2.5"	N/A	\$800.00	\$60.00**	\$2.00*
4"	49.02	1,500.00	1,000.00**	2.00*
6"	73.59	2,500.00	1,500.00**	2.00*
8"	98.01	N/A	N/A	N/A
10"	122.45	N/A	N/A	N/A
12"	N/A	N/A	N/A	N/A

* Meter rental. Plus the cost of water used; construction water billed at \$1.816/100 cu.ft.

** One time non-refundable charge plus daily meter rental.

General Water System Data			
Population	137,801		
Miles of Mains (8" & larger)	258	Miles	
Annual Water Produced & Purchased	34,826	AF	
Less Annual Water Sales	31,906	AF	
*Less Internal Uses (flushing, cleaning, irrigation, etc)	410	AF	
Equals Unaccounted for Water	2,510	AF	7.2 % UAW
Peak Month Use Last Fiscal Year	3,662	AF in July 2006	
Average Single-family Residential Use (monthly)	21.6 ccf		

* Includes construction water sales and F.H. flushing (estimated).

Sources:

Met 29 % Wells 67 % Local Surface Runoff 4 % Recycled 0 %

Orange replaces small meters on a 15-year program (or sooner if stuck or broken). Large meters are tested/repaired/replaced on a 1--4-year schedule, depending on size.

Mission Statement

The City of Orange Water Division is committed to courteous and timely service and the efficient use of resources to promote the public health, safety, and welfare through the provision and preservation of our City's infrastructure, facilities, and programs. www.cityoforange.org

CITY OF ORANGE

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$21,972,112	95%
Other Operating Revenues	307,225	1%
Investment Income	725,395	3%
Property Taxes		0%
Other	219,750	1%
Total Source of Funds	\$23,224,482	100%
*Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$16,867,741	82%
Pumping		0%
Treatment		0%
Transmission & Distribution	2,633,524	13%
Customer Accounts	919,639	4.5%
Administrative		0%
Principal & Interest (all obligations)	65,341	0.3%
Capital Improvements funded by non-debt		0%
Other	24,574	0.2%
Transfers to City General Fund		0%
Total Use of Funds	\$20,510,819	100%
Net Source and Use of Funds	\$2,713,663	

*Does not include depreciation expense of \$1,889,810

Contact Person:

Joe DeFrancesco, Janette Pichay

Phone: 714/288-2475

— ORANGE PARK ACRES MUTUAL WATER CO. —

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	N/A	N/A
3"	N/A	N/A
4"	N/A	N/A
6"	N/A	N/A
8"	N/A	N/A
10"	N/A	N/A
12"	N/A	N/A

General Water System Data	
Population	1,750
Miles of Mains (8" & larger)	15 Miles
Annual Water Produced & Purchased	1,026 AF
Less Annual Water Sales	960 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	10 AF
Equals Unaccounted for Water	56 AF 5 % UAW
Peak Month Use Last Fiscal Year	99 AF in July 2006
Average Single-family Residential Use (monthly)	67.7 ccf

Sources:

Met 33 % Wells 67 % Local Surface Runoff _____ % Recycled _____ %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

OPAMWC routinely changes meters every 7—10 years or sooner, if needed.

Mission Statement

At Orange Park Acres Mutual Water Company, the number one priority is to provide safe, healthful water to the community. They have a dedication to quality that places their customers' needs first and a continued commitment to new and enhanced ways of doing business to meet the changing needs of the customers they serve.

— ORANGE PARK ACRES MUTUAL WATER CO. —

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$1,137,943	0%
Other Operating Revenues		0%
Investment Income	24,482	0%
Property Taxes		0%
Other	12,000	0%
Total Source of Funds	\$1,174,425	0%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$293,583	0%
Pumping	110,698	0%
Treatment		0%
Transmission & Distribution	414,886	0%
Customer Accounts		0%
Administrative	271,165	0%
Principal & Interest (all obligations)		0%
Capital Improvements funded by non-debt		0%
Other		0%
Transfers to City General Fund		0%
Total Use of Funds	\$1,090,332	0%
Net Source and Use of Funds	\$84,093	

Contact Person: Deborah Cherney
Phone: 949/453-5300

CITY OF SAN CLEMENTE

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

			<u>Winter</u>	<u>Summer</u>
Residential Service	\$1.72	/100 cubic feet for first	9	13 ccf
(single family, small lot)	2.58	up to	15	21 ccf
	3.87	for all higher ccfs		

Note: "Winter" is January through April; "Summer" is May through December. Average commodity rate is \$1.75/ccf.

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/2007 ; the next increase is anticipated for N/A

The last rate restructuring was 7/1994 ; the next restructuring is anticipated for N/A

San Clemente provides for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
5/8"	\$7.67	3"	\$60.24
3/4"	\$7.67	4"	76.60
1"	7.67	5"	98.49
1 1/2"	9.90	6"	114.90
2"	17.02	8"	N/A
2 1/2"	26.19	10"	N/A

CITY OF SAN CLEMENTE

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	N/A	*3.00/day
3"	N/A	
4"		
6"		
8"		
10"		

* plus a \$825 refundable deposit to cover the cost of the meter and a \$25 install charge. Usage is charged at \$2.11 per unit.

General Water System Data	
Population	43,900
Miles of Mains (8" & larger)	175 Miles
Annual Water Produced & Purchased	11,342 AF
Less Annual Water Sales	10,683 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	400 AF
Equals Unaccounted for Water	259 AF 2.3 % UAW
Peak Month Use Last Fiscal Year	1,162 AF in Aug. 2006
Average Single-family Residential Use (monthly)	16.21 ccf

Sources:

Met 90.67 % Wells 3.62 % Local Surface Runoff 0 % Recycled 5.71 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

The City maintains and changes out residential meters on a regular basis. Large meters are also inspected on a regular basis; old compound meters and other selected meters are being replaced with high accuracy single-jet meters.

Mission Statement

To ensure our clients receive adequate supplies of potable water at all times that meets all health and quality standards of the State Health Department and the Federal Safe Water Drinking Act. Website: www.san-clemente.org

CITY OF SAN CLEMENTE

Financial Information

Source of Funds 2006-07

	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	10,543,000	49%
Other Operating Revenues	1,526,520	7%
Investment Income	268,680	1%
Property Taxes	0	0%
Other	2,420,070	11%
Reserves	6,927,620	32%
Total Source of Funds	\$21,685,890	100%

Use of Funds 2006-07

	Amount	Percent
Source of Supply	\$6,444,511	30%
Pumping	0	0
Treatment	924,002	4%
Transmission & Distribution	1,658,184	8%
Customer Accounts	0	0%
Administrative	2,515,181	12%
Principal & Interest (all obligations)	0	0%
Capital Improvements funded by non-debt	6,927,620	32%
Other	0	0%
Transfers to City General Fund	25,000	0.1%
Reserves	3,191,392	15%
Total Use of Funds	\$21,685,890	100%
Net Source and Use of Funds	\$ 0	

Contact Person:

James L. Mies

Phone: 949/361-6156 fax# 949/361-6156

CITY OF SAN JUAN CAPISTRANO

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

			<u>January</u>	<u>July</u>	
Residential Service	<u>\$2.27</u>	/ccf for first	<u>12</u>	ccf	<u>25*</u>
(single family, small lot)	<u>2.91</u>	up to	<u>24</u>	ccf	<u>50*</u>
	<u>4.85</u>	for all higher ccf			
Construction service	<u>2.91</u>	/ccf			

*The City of San Juan Capistrano's water allocations and tiers vary each month by actual evapotranspiration rate and also by lot size and density; the City has a water budget- based rate structure.

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/1/2006 ; the next increase is anticipated for 1/3/2008

The last rate restructuring was 1993 ; the next restructuring is anticipated for 1/3/2008

The City of San Juan Capistrano does not provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	N/A	3"	\$57.31
5/8"	\$11.42	4"	114.51
3/4"	N/A	5"	N/A
1"	11.42	6"	229.12
1 1/2"	17.16	8"	343.63
2"	28.61	10"	N/A

CITY OF SAN JUAN CAPISTRANO

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	N/A	N/A
3"	N/A	66.87
4"	\$57.31	
6"	57.31	
8"	57.31	
10"	N/A	
12"	N/A	N/A

General Water System Data		
Population	37,452	
Miles of Mains (8" & larger)	164 Miles	
Annual Water Produced & Purchased	9,944 AF	
Less Annual Water Sales	10,197 AF	
Less Internal Uses (flushing, cleaning, irrigation, etc.)	37 AF	
Equals Unaccounted for Water*	(290) AF	% UAW
Peak Month Use Last Fiscal Year	1,092 AF	Sept 2006
Average Single-family Residential Use (monthly)	14.4 ccf	

*The City is currently reconciling this variance between reported sales and amount purchased. A revised number for amount purchased will likely result later this fiscal year.

Sources:

Met 59 % Wells 39 % Local Surface Runoff 2 % Non-domestic well water 0 %

Meter Maintenance Program

Old and or hard-to-read meters are replaced as needed. Testing and repair of meters is performed annually.

Mission Statement

The City of San Juan Capistrano Water Division's mission is to provide water facility maintenance and operations services to the community. These services shall include responding to citizen requests for services, performing routine maintenance, providing emergency response, planning and implementing long-term maintenance, engineering and improvement projects. Current water rates and information are available at www.sanjuancapistrano.org

CITY OF SAN JUAN CAPISTRANO

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$12,389,691	73%
Other Operating Revenues	2,565,546	14%
Investment Income	519,287	3%
Property Taxes	826,827	2%
Other (Grants)	947,023	8%
Total Source of Funds	\$17,248,374	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	3,304,466	22%
Pumping	335,837	2%
Treatment	1,810,331	7%
Transmission & Distribution	3,119,936	21%
Customer Accounts	727,173	4%
Administrative	259,600	0.7%
Principal & Interest (all obligations)	3,805,294	25%
Capital Improvements funded by non-debt	6,440,228	11%
Other (Depreciation & Amortization)	1,057,259	7%
Transfers to City General Fund		0%
Total Use of Funds	\$20,860,124	100%
Net Source and Use of Funds	(\$3,611,750)	

Contact Person:

Steve Montano

Phone: 949/487-4317

CITY OF SANTA ANA

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	14.00	\$2.00/day*
3"	N/A	
4"	18.00	
6"	24.00	
8"	32.00	
10"	38.00	
12"	44.00	

* plus \$760 refundable deposit

General Water System Data			
Population	353,428		
Miles of Mains (8" & larger)	236	Miles	
Annual Water Produced & Purchased	46,396	AF	
Less Annual Water Sales	44,668	AF	
Less Internal Uses (flushing, cleaning, irrigation, etc.)	---	AF	
Equals Unaccounted for Water	1,728	AF	3.7 % UAW
Peak Month Use Last Fiscal Year	4,678	AF in Jul 2006	
Average Single-family Residential Use (monthly)	18.0 ccf		

Sources:

Local Surface

Met 31 % *Wells 69 % Runoff % Recycled %

* Well production includes 4,083 AF of long-term in-lieu production.

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program7

In Santa Ana, meters are on a 13-15 year replacement schedule for 2" and smaller; 3" and larger meters are tested on a 18-month schedule and repaired, if necessary. Santa Ana downsizes meters when appropriate to optimize revenue and lower maintenance costs.

Mission Statement

The City of Santa Ana's mission is to provide quality service to enhance the safety, livability and prosperity of the community.

CITY OF SANTA ANA

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$40,859,210	96%
Other Operating Revenues	1,423,440	3%
Investment Income	710,970	1%
Property Taxes		0%
Other		0%
Total Source of Funds	\$42,993,620	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$18,931,480	48%
Pumping		0%
Treatment		0%
Transmission & Distribution	4,164,290	11%
Customer Accounts		0%
Administrative*	11,478,700	29%
Principal & Interest (all obligations)	1,717,070	4%
Capital Improvements funded by non-debt	3,332,860	8%
Other		0%
Transfers to City General Fund		0%
Total Use of Funds	\$39,624,400	100%
Net Source and Use of Funds	\$3,369,220	

Contact Person: Thom Coughran/Ray Burk
Phone: 714/647-3318

SANTA MARGARITA WATER DISTRICT

Commodity Rates and Fixed Charges

Billing Period:

Monthly

Bi-monthly

Residential Service	\$1.38	/100 cubic feet (ccf) for first	6	ccf
	1.56	/ccf up to	35	ccf
	2.05	/ccf up to	70	ccf
	2.46	/ccf for all higher ccfs		

Note: A Power Surcharge is added for the following service zones: Zone 3: \$0.10/ccf; Zone 4: \$0.20/ccf; and Zone 5 \$0.25/ccf.

(See Tables 1 & 2 for more information)

The last commodity rate increase was July 94 ; the next increase is anticipated for unknown

The last rate restructuring was 7/1/00 ; the next restructuring is anticipated for unknown

SMWD does not provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
¾"	5.74	4"	53.42
1"	7.77	6"	104.14
1 ½"	12.84	8"	165.00
2"	18.93	10"	246.15
3"	35.16		

SANTA MARGARITA WATER DISTRICT

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"	\$18.93	N/A
2 1/2"	N/A	27.05
3"	35.16	35.16
4"	53.42	53.42
6"	104.14	104.14
8"	165.00	165.00
10"	246.15	246.15
12"	---	---

General Water System Data	
Population	160,000
Miles of Mains (8" & larger)	579 Miles
Annual Water Produced & Purchased	35,381 AF
Less Annual Water Sales	33,094 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	45 AF
Equals Unaccounted for Water	2,282 AF 6.5 % UAW
Peak Month Use Last Fiscal Year	4,634 AF in Aug. 2006
Average Single-family Residential Use (monthly)	19 ccf

Sources:

Local Surface
 Met 84 % Wells 0.4 % Runoff 3.6 % Recycled 12 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

At SMWD, meters are changed out as needed.

Mission Statement

Santa Margarita Water District provides its customers with quality water and wastewater service—maximizing human, environmental, and financial resources—to help guide South Orange County's water and wastewater needs. www.smwd.com

SANTA MARGARITA WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	33,806,453	48%
Other Operating Revenues	4,074,415	10%
Investment Income	4,978,521	5%
Property Taxes	23,149,213	37%
Other		0%
Total Source of Funds	\$66,008,602	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	18,839,312	36%
Pumping	3,604,211	7%
Treatment	762,492	1%
Transmission & Distribution	2,565,390	5%
Customer Accounts		0%
Administrative	12,555,358	25%
Principal & Interest (all obligations)	12,218,786	26%
Capital Improvements funded by non-debt		0%
Other		0%
Transfers to City General Fund		0%
Total Use of Funds	\$50,545,549	100%
Net Source and Use of Funds	\$15,463,053	

Contact Person:

Carol Megara

Phone: 949/459-6420

CITY OF SEAL BEACH

Commodity Rates and Fixed Charges

Billing Period:

Monthly

Bi-monthly

Residential Service	\$1.37	/100 cubic feet (ccf) for first	12.0	ccf
	1.98	/ccf up to	22.5	ccf
	2.28	/ccf up to	27.5	ccf
	2.73	/ccf for all higher ccfs		
Construction Service	\$1.00	/ccf		

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/1/2007 ; the next increase is anticipated for 7/1/2008

The last rate restructuring was 7/1/2003 ; the next restructuring is anticipated for 2008/2009

Seal Beach provides for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Monthly			
Meter Size	Charge	Meter Size	Charge
1/2"	N/A	3"	\$143.70
5/8"	\$15.97	4"	255.54
3/4"	15.97	5"	N/A
1"	28.42	6"	574.71
1 1/2"	35.93	8"	1,021.96
2"	63.87	10"	1,659.67

CITY OF SEAL BEACH

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
3"	N/A	N/A
4"	\$ 95.00	
6"	142.50	
8"	190.00	
10"	237.50	
12"	285.00	

General Water System Data	
Population	24,700
Miles of Mains (8" & larger)	66 Miles
Annual Water Produced & Purchased	4,302 AF
Less Annual Water Sales	4,282 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	20 AF
Equals Unaccounted for Water	0 AF 0 % UAW
Peak Month Use Last Fiscal Year	460 AF in July 2006
Average Single-family Residential Use (monthly)	10.6 ccf

Sources:

Local Surface
 Met 26 % Wells 74 % Runoff _____ % Recycled _____ %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Seal Beach replaces each water meter every 15 years.

City Statement

CITY OF SEAL BEACH

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$5,300,103	86%
Other Operating Revenues	455,103	8%
Investment Income	375,463	6%
Property Taxes		0%
Other		0%
Total Source of Funds	\$6,130,669	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$1,326,424	36%
Pumping		0%
Treatment		0%
Transmission & Distribution		0%
Customer Accounts		0%
Administrative		0%
Principal & Interest (all obligations)	7,576	1%
Capital Improvements funded by non-debt	-0-	0%
Other	1,536,428	42%
Depreciation	449,633	12%
Transfers to City General Fund	324,500	9%
Total Use of Funds	\$3,644,561	100%
Net Source and Use of Funds	\$2,486,108	

Contact Person:

Robbeyn Bird

Phone: 562/493-9857

SERRANO WATER DISTRICT

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service \$1.97 /100 cubic feet (ccf) for all units after 5 ccf
 Construction Service \$150.00 /month 1.97/100 cu.ft. for all ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/07 ; the next increase is anticipated for 7/08

The last rate restructuring was N/A ; the next restructuring is anticipated for N/A

SWD does not provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	\$21.09	3"	36.86
5/8"	21.09	4"	45.04
3/4"	21.09	5"	45.04
1"	21.09	6"	45.04
1 1/2"	23.36	8"	45.04
2"	25.61	10"	45.04

SERRANO WATER DISTRICT

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"		N/A
3"	N/A	
4"	N/A	N/A
6"	N/A	N/A
8"		
10"		
12"		

General Water System Data	
Population	6,900
Miles of Mains (8" & larger)	43 Miles
Annual Water Produced & Purchased	3,456 AF
Less Annual Water Sales	3,224 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	25 AF
Equals Unaccounted for Water	206 AF 5.9 % UAW
Peak Month Use Last Fiscal Year	418 AF in July 06
Average Single-family Residential Use (monthly)	55 ccf

Sources:

Met _____ % Wells 65 % Local Surface
 Runoff 35 % Recycled 0 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

SWD maintains meters on a regular program designed to check every meter within 10 years.

District Statement

www.SerranoWater.org

SERRANO WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	3,026,784	77%
Other Operating Revenues	599,272	15%
Investment Income	207,070	5%
Property Taxes		0%
Other	109,077	3%
Total Source of Funds	\$3,942,203	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	636,979	20%
Pumping	357,688	11%
Treatment	151,538	5%
Transmission & Distribution	528,936	17%
Customer Accounts		0%
Administrative	1,055,724	33%
Principal & Interest (all obligations)	368,473	12%
Capital Improvements funded by non-debt		0%
Other	56,528	2%
Transfers to City General Fund		0%
Total Use of Funds	\$3,155,866	100%
Net Source and Use of Funds	\$786,337	

Contact Person:

Ann Michel

Phone: 714/538-0079

SOUTH COAST WATER DISTRICT

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service (multi-family) \$2.56 /100 cubic feet (ccf) for all ccf

Single-family residence tiers 1-5 ccf 1.13

6—25 2.25

26—50 3.38

51—125 4.51

126+ 5.63

Constr. Service (So. Coast) \$2.44 /ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was July 2006 ;the next increase is not determined

The last rate restructuring was 2004 ; the next restructuring is anticipated for unknown

SCWD does not provide for an automatic commodity adjustment when the cost of supply changes.

Meter Size	Monthly Charge	Meter Size	Monthly Charge
1/2"		3"	\$253.25
5/8"		4"	506.70
3/4"	\$16.89	5"	N/A
1"	42.23	6"	844.49
1 1/2"	84.45	8"	N/A
2"	135.12	10"	N/A

As of November 2004, there is one rate structure. South Coast's service area and Capistrano Beach's service area have been consolidated so that number of services, water sales versus purchases, etc. are no longer segregated.

SOUTH COAST WATER DISTRICT

Construction Meter & Fire Protection Service		
Size	Fire	Construction
2"	\$18.00	N/A
3"	N/A	\$56.00
4"	26.00	56.00
6"	34.00	
8"	42.00	
10"	50.00	
12"	58.00	

General Water System Data	
Population	41,600
Miles of Mains (8" & larger)	119 miles
Annual Water Produced & Purchased	7,584 AF
Less Annual Water Sales	7,338 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	N/R
Equals Unaccounted for Water	246 AF 3.3% UAW
Avg. Single-family Residential Use (mo.)	20 ccf

Sources:

Met 86 % Wells 0 % Runoff 0 % Recycled 14 %

Meter Maintenance Program

SCWD maintains its meters on a regular program designed to replace each meter within 25 years. The district replaces meters by geographic location identified each year for budget purposes, or on as-needed basis as identified by meter reading personnel.

Mission Statement

South Coast Water District is an independent special district dedicated to providing the highest quality water, recycled water and sanitary service to our customers, in an environmentally sensitive and financially responsible manner.

SOUTH COAST WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	13,464,449	71%
Other Operating Revenues	1,405,615	8%
Investment Income	1,521,399	8%
Property Taxes	2,528,646	13%
Other	-0-	0%
Total Source of Funds	\$18,920,109	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	3,840,390	21%
Pumping	294,193	2%
Treatment	-0-	0%
Transmission & Distribution	1,613,620	9%
Customer Accounts	-0-	0%
Administrative	5,134,021	27%
Principal & Interest (all obligations)	1,710,671	9%
Capital Improvements funded by non-debt	5,302,138	28%
Other	815,133	4%
Transfers to City General Fund	-0-	0%
Total Use of Funds	\$18,710,166	100%
Net Source and Use of Funds	\$209,943	

Contact Person:

Mike Dunbar

Phone: 949/499-4555

— TRABUCO CANYON WATER DISTRICT —

Commodity Rates and Fixed Charges

Billing Period:

Monthly

Bi-monthly

Residential Service \$1.89 /100 cubic feet (ccf) for 0--9 ccf

(See Tables 1 & 2 for more information)

The last commodity rate decrease was 9/96 ; the next increase is anticipated for unknown

The last rate restructuring was 1/01/07 ; the next restructuring is anticipated for unknown

TCWD implemented a Conservation Encouragement Rate Program (CERP) effective 01/01/06 for agricultural users. The residential CERP was implemented on 01/01/07.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	None	3"	91.83
5/8"	\$ 8.25	4"	151.87
3/4"	10.76	5"	N/A
1"	16.77	6"	302.00
1 1/2"	31.78	8"	N/A
2"	49.79	10"	482.14

TRABUCO CANYON WATER DISTRICT

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"		N/A
3"	N/A	
4"		
6"		\$56.90
8"		
10"		
12"		

General Water System Data	
Population	14,217
Miles of Mains (8" & larger)	57 Miles
Annual Water Produced & Purchased	4,513 AF
Less Annual Water Sales	4,291 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	142 AF
Equals Unaccounted for Water	80 AF 2 % UAW
Peak Month Use Last Fiscal Year	520 AF in Aug 2006
Average Single-family Residential Use (monthly)	22 ccf

Sources:

Local Surface
 Met 81 % Wells 1 % Runoff 3 % Recycled 15 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

TCWD routinely inspects and replaces landscape irrigation meters as necessary. Their meter reader checks all meters on a monthly basis for inaccuracies or discrepancies. Meters are replaced as necessary.

District Statement

It is the purpose of the Trabuco Canyon Water District to provide service which instills trust regarding the quality and quantity of the water supply and reliable service for the collection and reuse of wastewater. www.tcwd.ca.gov

TRABUCO CANYON WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$4,085,652	90%
Other Operating Revenues	122,495	3%
Investment Income	185,493	4%
Property Taxes	35,395	1%
Other	87,572	2%
Total Source of Funds	\$4,516,607	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	1,499,563	31%
Pumping	416,209	9%
Treatment	513,521	11%
Transmission & Distribution	294,405	6%
Customer Accounts	203,060	4%
Administrative	797,278	17%
Principal & Interest (all obligations)	0	0%
Other	1,082,890	23%
Other		0%
Transfers to City General Fund	0	0%
Total Use of Funds	\$4,806,926	100%
Net Source and Use of Funds	(\$290,319)	

Contact Person:

Sharon E. Smith

Phone: 949/858-0277

CITY OF TUSTIN

Commodity Rates and Fixed Charges

Billing Period:

Monthly

Bi-monthly

Residential Service	\$0.44	/100 cubic feet (ccf) for first	12	ccf
	1.42	/ccf up to	40	ccf
	1.52	/ccf up to	60	ccf
	1.67	/ccf for all higher	60	ccfs
Construction Service	Same as above /ccf			

(See Tables 1 & 2 for more information)

The last commodity rate increase was Jan. 07 ; the next increase is anticipated for Jan. 08

The last rate restructuring was 2006 ; the next restructuring is anticipated for 2009

Tustin does not provide for an automatic commodity adjustment when the wholesale cost of supplies (imported and groundwater) changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	\$ 20.24	3"	303.59
5/8"	20.24	4"	505.98
3/4"	20.24	5"	---
1"	50.60	6"	1,011.00
1 1/2"	101.20	8"	1,011.00
2"	161.91	10"	1,011.00

CITY OF TUSTIN

Construction Meter & Fire Protection Service Charges		
Size	Fire	Construction
2"		N/A
3"		\$3.00 per day plus \$700 dep.
4"	\$61.24	
6"	\$93.08	

General Water System Data	
Population	62,100
Miles of Mains (8" & larger)	69 Miles
Annual Water Produced & Purchased	14,415 AF
Less Annual Water Sales	13,211 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	415 AF
Equals Unaccounted for Water	790 AF 5.5 % UAW
Peak Month Use Last Fiscal Year	1,532 AF in July 2006
Average Single-family Residential Use (monthly)	24 ccf

Sources:

Local Surface
 Met 20 % Wells 80 % Runoff _____ % Recycled _____ %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Tustin maintains meters on a regular program designed to replace every residential meter within 15 years. Bad meters are replaced on an as-needed basis as determined by staff.

City Statement

Tustin is responding to new demands for additional consumption and adequate fire protection by construction of two new wells, the rehabilitation/expansion of two aging reservoirs and continuing with its "main line" replacement program.

CITY OF TUSTIN

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	10,311,220	95%
Other Operating Revenues	86,417	.8%
Investment Income	425,994	4%
Property Taxes	-0-	0%
Other	20,886	.1%
Total Source of Funds	\$10,844,517	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply: RA, Met	4,145,807	32%
Pumping: Wells & booster pump stas.	988,485	8%
Treatment	705,663	5%
Transmission & Distribution	2,026,066	15%
Customer Accounts	113,603	.9%
Administrative	464,730	4%
Principal & Interest (all obligations)	568,715	4.3%
Capital Improvements funded by non-debt	3,100,564	24%
Other	2,200	0%
Transfers to City General Fund	1,041,871	8%
Total Use of Funds	\$13,157,704	100%
Net Source and Use of Funds	(\$2,313,187)	

Contact Person: Fred Adjarian Larry Schutz
 Phone: 714/573-3381 714/573-3062

CITY OF WESTMINSTER

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Plus 20.34 fixed charge and 4% utility tax

Residential Service-Tier 1 – 1—14 units	\$0.53	
Tier 2 – 15—28 units	1.26	
Tier 3 – 29 + units	\$2.51	/100 cubic feet
Construction Service	\$1.43	/ccf after \$40.00, min. flat fee <u>i.e. \$40 min. + \$1.43 unit</u>

(See Tables 1 & 2 for more information)

The last commodity rate increase was 8/17/04 ; the next increase is anticipated for 1/1/08

The last rate restructuring was 8/17/04 ; the next restructuring is anticipated for N/A

Westminster does not provide for an automatic commodity adjustment whenever the cost of supply changes.

Fixed Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	\$20.34	3"	180.94
5/8"	20.34	4"	277.30
3/4"	20.34	5"	---
1"	36.40	6"	544.90
1 1/2"	63.18	8"	
2"	95.28	10"	

CITY OF WESTMINSTER

Construction Meters & Fire Protection Services		
Size	Fire	Construction
2"	\$8.80	N/A
3"	N/AN/A	\$40.00*
4"	27.50	
6"	55.00	
8"	88.00	
10"	126.50	
12"	170.50	

- \$40.00 flat fee any size; \$1.60 utility tax and \$1.43 per unit for water.

General Water System Data	
Population	92,870
Miles of Mains (8" & larger)	149.5 Miles
Annual Water Produced & Purchased	14,475 AF
Less Annual Water Sales	12,876 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	5 AF
Equals Unaccounted for Water	1,594 AF 9 % UAW*
Peak Month Use Last Fiscal Year	1,456 in July 2006
Average Single-family Residential Use	20 ccf

- Greater development and accelerated flushing program.

Sources:

Local Surface

Met 31% % Wells 69 % Runoff 0 % Recycled 0 %

(See Tables 3, 4 & 5 for more information)

Meter Maintenance Program

Westminster has a program to replace faulty registers. 3" or larger meters are tested when warranted for accuracy. This is done on customer request or when read appears high or low compared to historical data.

Mission Statement

The mission of the City of Westminster is to provide safe and high quality drinking water at the lowest possible cost and to ensure 100 % fire protection and adequate pressure at all times to the residents and businesses of Westminster while providing a safe working environment for all employees.

CITY OF WESTMINSTER

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	10,611,976	87%
Other Operating Revenues	61,523	1%
Investment Income	144,030	1%
Property Taxes	-0-	0%
Other	1,390,871	11%
Total Source of Funds	\$12,208,400	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	2,285,184	18%
Pumping	3,197,470	25%
Treatment	-0-	0%
Transmission & Distribution	1,458,465	11%
Customer Accounts	863,323	7%
Administrative	533,816	4%
Principal & Interest (all obligations)	431,101	3%
Capital Improvements funded by non-debt	1,050,000	8%
Other	1,432,198	11%
Transfers to City General Fund	1,706,852	13
Total Use of Funds	\$12,958,409	100%
Net Source and Use of Funds	(\$750,009)	

Contact Person:

Willie Cobar

Phone: 714/895-2876 ext. 6295

YORBA LINDA WATER DISTRICT

Commodity Rates and Fixed Charges

Billing Period: Monthly Bi-monthly

Residential Service _____ \$1.57 /100 cubic feet (ccf) for all ccf

Construction Service _____ 3.14 /ccf

(See Tables 1 & 2 for more information)

The last commodity rate increase was 7/1/05 ; the next increase is anticipated for 1/1/2008

The last rate restructuring was 1995 ; the next restructuring is anticipated for _____

On December 13, 2007, YLWD's Board considered a provision to provide for an automatic commodity adjustment when the cost of supply changes.

Residential Fixed Charge or Customer Charge			
Meter Size	Charge	Meter Size	Charge
1/2"	\$7.92	3"	7.92
5/8"	7.92	4"	7.92
3/4"	7.92	5"	7.92
1"	7.92	6"	7.92
1 1/2"	7.92	8"	7.92
2"	7.92	10"	7.92

YORBA LINDA WATER DISTRICT

Construction Meter & Fire Protection Service Charges Bi-Monthly Charges

Size	Fire	Construction
2"	N/A	
3"	N/A	
4"	\$ 32.00	
6"	70.00	
8"	118.00	
10"	188.00	

General Water System Data

Population	75,400
Miles of Mains (8" & larger)	300
Annual Water Produced & Purchased + in-lieu	25,656 AF
Less Annual Water Sales	24,021 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	40 AF
Equals Unaccounted for Water	1,337 AF 6 % UAW
Peak Month Use Last Fiscal Year	2,641 AF in Oct 2006
Average Single-family Residential Use (monthly)	35 ccf

Sources:

Met 48 % Wells 52 % Local Surface
 Runoff 0 % Recycled 0 %

District Statement

"Yorba Linda Water District will provide reliable, high-quality water and sewer services in an environmentally responsible manner at the most economical cost to our customers."

Web site address: www.ylwd.com

YORBA LINDA WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Rate Payers (monthly or bi-monthly water bills)	\$18,489,306	83%
Other Operating Revenues	837,428	5%
Investment Income	1,503,192	5%
Property Taxes	1,180,932	5%
Other	400,861	2%
Total Source of Funds	\$22,411,719	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$9,455,810	43%
Pumping (energy only)	1,258,601	5%
Treatment		0%
Transmission & Distribution	3,118,743	14%
Customer Accounts	396,457	2%
Administrative	3,503,280	19%
Principal & Interest (all obligations)	674,113	3%
Capital Improvements funded by non-debt	2,541,437	13%
Other	121,100	1%
	-	0%
Total Use of Funds	\$21,069,541	100%
Net Source and Use of Funds	\$1,342,178	

Contact Person:

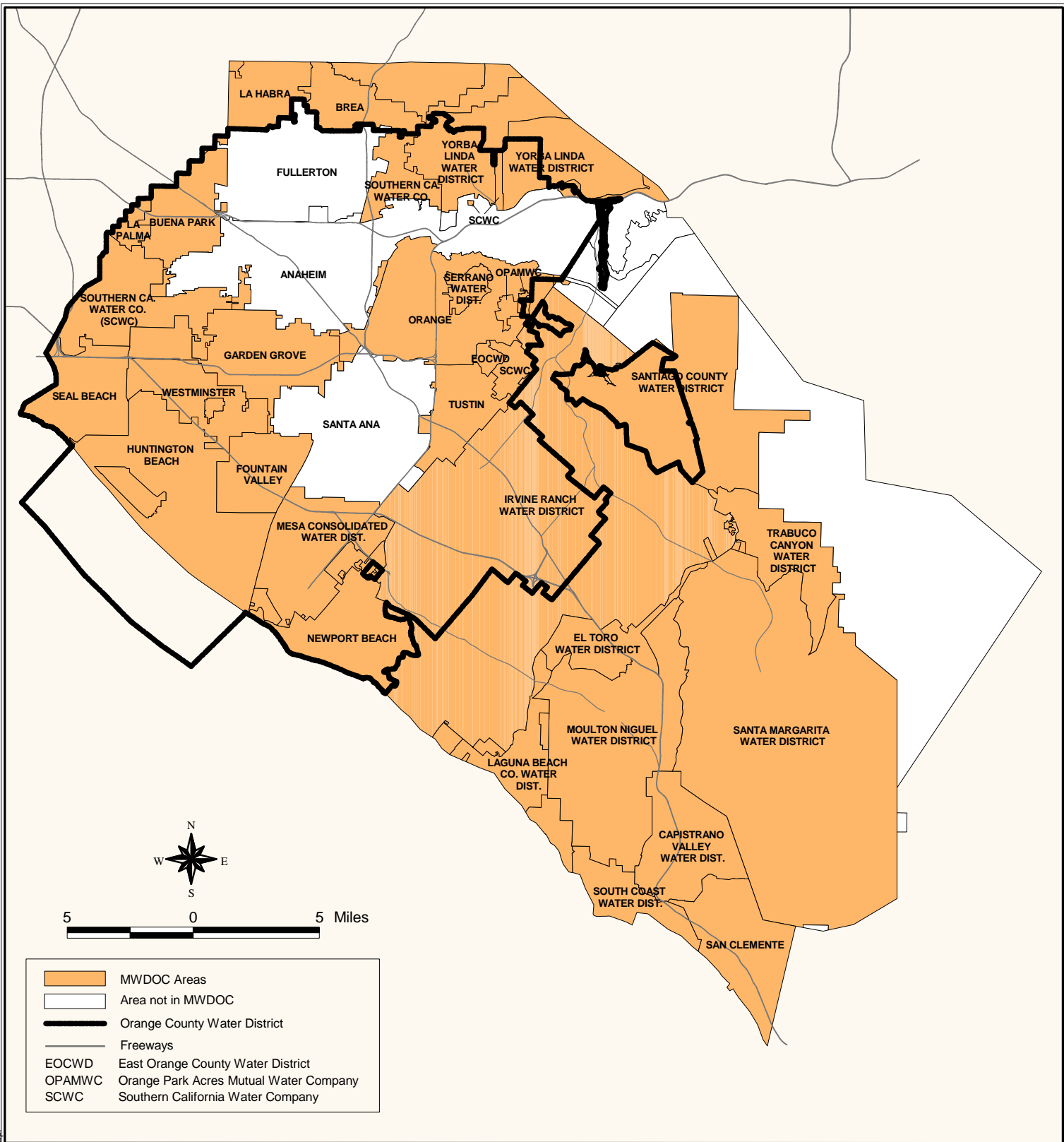
Chau Le

Phone: 701-3044

WHOLESALE AGENCIES

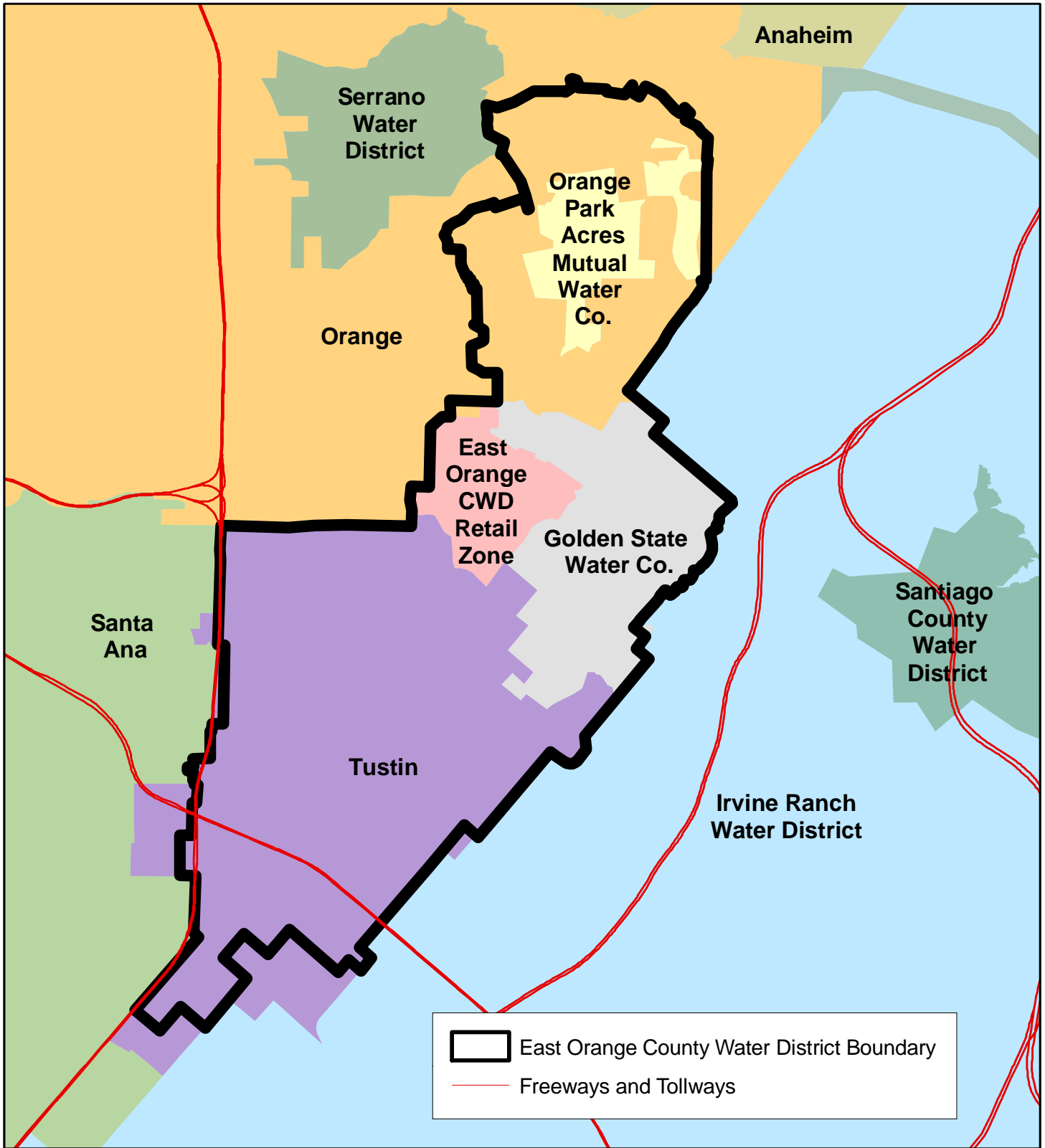
———— WHOLESALE WATER AGENCIES ————

- **East Orange County Water District - Wholesale**
- **Municipal Water District Of Orange County**
- **Orange County Water District**



Municipal Water District of Orange County and Orange County Water District





East Orange County Water District and Its Retail Water Agencies



Center for Demographic Research, February 2006
Portions of this map are copyrighted, and reproduced with permission granted, by THOMAS BROS. MAPS

EOCWD WHOLESAL

Commodity Rates and Fixed Charges

Commodity Surcharge -0- /acre-foot
 Annual Meter Charge -0- /yr/meter
 Annual Agency Charge -0- /yr/agency

The last commodity rate adjustment 7/04 ; next adjustment is anticipated for

The last rate restructuring was n/a ; the next restructuring is anticipated for n/a

EOCWD provides for an automatic commodity adjustment whenever the cost of supply changes.

General Water System Data

Population	100,000
Miles of Mains (8" & larger)	11 Miles
Annual Wholesale Water Purchased	7,105 AF
Less Annual Water Sales	6,841 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	0 AF
Equals Unaccounted for Water	264 AF 2 % UAW
Total Number of Wholesale Connections	17

Sources:

Local Surface
 Met 100 % Wells 0 % Runoff % Recycled %

EOCWD WHOLESAL

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Retail Agencies	3,303,177	72%
Other Operating Revenues	256,262	6%
Investment Income	54,008	1%
Property Taxes	552,113	12%
Other	393,845	9%
Total Source of Funds	\$4,559,405	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$3,716,738	80%
Pumping	1,481	0%
Treatment	0	0%
Transmission & Distribution	256,398	6%
Customer Accounts		0%
Administrative	183,456	4%
Principal & Interest (all obligations)		0%
Capital Improvements funded by non-debt	457,987	10%
Other	11,573	4%
Transfers to City General Fund		0%
Total Use of Funds	\$4,627,633	100%
Net Source and Use of Funds	(\$68,228)	

Contact Person:

Bill Redcay

Phone: 714/538-5815

MUNICIPAL WATER DISTRICT OF O.C.

Commodity Rates and Fixed Charges

Commodity Surcharge	<u>\$6.50</u>	/acre-foot
Annual Retail Meter Charge	<u>\$5.50</u>	/yr./meter
Annual Agency Charge	<u>-0-</u>	/yr./local agency

The last commodity rate increase was 7/1/05 ; the next increase is anticipated for 2008

The last rate restructuring was 2003 ; the next restructuring is anticipated for unknown

MWDOC provides for an automatic commodity adjustment whenever the cost of supply changes.

General Water System Data 2006-07

Population	2.26 million
Miles of Mains (8" & larger) *	See below Miles
Annual Wholesale Water Purchased	321,900 AF
Less Annual Water Sales	321,900 AF
Less Internal Uses (flushing, cleaning, irrigation, etc.)	-0- AF
Equals Unaccounted for Water	-0- AF -0- % UAW
Total Number of Retail Connections	598,500

* MWDOC owns 58.5% of 25-mile East Orange County Feeder No. 2.

Sources:

Local Surface

Met 100 % Wells 0 % Runoff 0 % Recycled 0 %

MWDOC's Mission

The mission of the Municipal Water District of Orange County is to provide reliable, high-quality water supplies from MWD and other sources to meet present and future needs, at an equitable and economical cost for all of Orange County, and to promote water use efficiency. MWDOC leads county-wide water planning, water use efficiency, emergency preparedness and education programs. Please visit <http://www.mwdoc.com>.

MUNICIPAL WATER DISTRICT OF O.C.

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Retail Agencies	\$138,958,180	99%
Other Operating Revenues		.0%
Investment Income	1,150,987	1%
Property Taxes		0%
Other	497,115	0%
Total Source of Funds	140,606,282	100%
Use of Funds 2006-07		
	Amount	Percent
Source of Supply	\$132,809,584	95%
Administrative	6,075,488	4%
Principal & Interest (all obligations)		0%
Capital Improvements funded by non-debt		0%
Other	299,721	1%
Transfers to City General Fund		0%
Total Use of Funds	139,184,793	100%
Net Source and Use of Funds	\$1,421,489	
Less Restricted Funds:		
Tier 2 Contingency Fund	1,566,017	
Capacity Charge Fund	(578,677)	
Adjusted Net Source and Use of Funds	3,566,183	

Contact Persons:

Lee Jacobi and Jeff Stalvey

Phone: 714/593-5011/593-5022

ORANGE COUNTY WATER DISTRICT

Commodity Rates and Fixed Charges

Commodity Surcharge (non-irrigation) \$237.00* /acre-foot

Commodity Surcharge (irrigation use) \$118.50* /acre-foot

Recycled Water \$various♦ /acre-foot

♦Various rates depending on the purchaser and range from \$173.10 to \$403.62.

*Replenishment Assessment on each acre-foot pumped; recovers costs of recharging the groundwater basin.

The last commodity rate increase was 7/07 ; the next increase is anticipated for 07/08

The last rate restructuring was n/a ; the next restructuring is anticipated for n/a

OCWD does not provide for an automatic commodity adjustment whenever the cost of supply changes.

General Water System Data	
Population	2,300,000
Number of Active Wells in the Basin	435
Annual Actual Groundwater Pumped	300,538 AF
Long-Term In-lieu Purchased	36,105 AF
Annual Wholesale Recycled Water Sales	**7,702 AF
Groundwater Pumped	300,538 AF
Long-Term In-Lieu	36,105 AF
Conjunctive Use Program (CUP)	14,427 AF
Imported Barrier	7,923 AF
Total (including Annual Recycled Water sales)	366,695 AF
<u>Basin Recharge Facilities</u>	
<ul style="list-style-type: none"> ▪ 1,600 acres of in/off stream percolation facilities; 2 rubber dams ▪ 500 acres of wetlands for bio-filtration ▪ 230 cfs pump station; 5 miles of 66" pipe ▪ 28 injection wells totaling 30 MGD capacity for sea water barrier 	
<u>Recycled Water Production Facilities</u>	
<ul style="list-style-type: none"> ▪ 12 MGD recycled water plant ▪ 32 miles of mains 	

**Includes OCSD and Coastal Green Acre Project (GAP) usage.

Sources: Met 16.0 % Wells 81.9 % Local Surface Runoff 0 % Recycled 2.1 %

ORANGE COUNTY WATER DISTRICT

Financial Information

Source of Funds 2006-07		
	Amount	Percent
Collected from Producers	\$82,227,722	75.03%
Rent & Other	2,467,350	2.25%
Investment Income	5,756,939	5.26%
Property Taxes	17,580,751	16.04%
Notes Receivable	1,096,345	1.00%
Long-Term debt funding Capital Proj. O/H Exp	458,226	0.42%
Total Source of Funds	\$109,587,333	100%
Use of Funds 2006-07		
	Amount	Percent
Water Purchases	\$24,451,766	28.91%
Small Equipment	1,486,922	1.76%
Replace & Refurb Transfers	3,300,000	3.90%
CIP (not financed)	726,931	0.86%
General Fund (G&A)	27,498,966	32.51%
Debt Service	27,116,381	32.06%
Total Use of Funds	\$84,580,966	100%
Net Source and Use of Funds	\$25,006,367	

OCWD Mission Statement:

The mission of the Orange County Water District is to provide local water retailers with a reliable, adequate, high-quality local water supply at the lowest reasonable cost and in an environmentally responsible manner.

Contact Person:

Wei Xu

Phone: 714/378-3291



Budget Report FY 2007-08

Orange County Water District

July 1, 2007



Orange County Water District Budget Report Fiscal Year 2007-08

Board of Directors

Philip L. Anthony
President

Jan Debay
1st Vice President

Kathryn L. Barr
2nd Vice President

Claudia Alvarez

Wes Bannister

Denis R. Bilodeau

Shawn Nelson

Irv Pickler

Stephen Sheldon

Roger C. Yoh



Michael P. Wehner
Acting General Manager

**ORANGE COUNTY WATER DISTRICT
BUDGET REPORT
FISCAL YEAR 2007-08**

OCWD HISTORY AND CHARACTER

SECTION 1 - GENERAL MANAGER'S MESSAGE

SECTION 2 - SUMMARIES

COMBINED SUMMARY
SOURCES AND USES OF FUNDS
GENERAL FUND BUDGET SUMMARY
GENERAL FUND BUDGET COMPARISON
DISTRICT MEMBERSHIPS

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ORGANIZATIONAL STRUCTURE
COST CENTER PROFILES

SECTION 4 - DEBT SERVICE FUND

SECTION 5 - WATER PURCHASE

SECTION 6 - BASIN EQUITY ASSESSMENT

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SECTION 8 - NEW EQUIPMENT (FIXED ASSETS) SUMMARY

NEW EQUIPMENT BUDGET FUNDED BY OPERATING REVENUES
NEW EQUIPMENT BUDGET FUNDED BY COMMERCIAL PAPER

SECTION 9 - REPLACEMENT AND REFURBISHMENT FUND

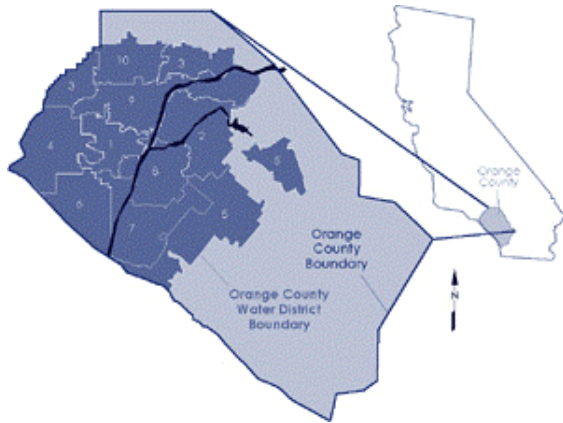
SECTION 10 - COST CENTER DETAILS

DETAIL COST CENTER GENERAL FUND BUDGET
ACRONYMS AND ABBREVIATIONS

ORANGE COUNTY WATER DISTRICT

HISTORY AND CHARACTER

The District receives an average of only 13 to 15 inches of rainfall annually, yet sustains a population of approximately 2.3 million people. The residents and businesses within the District have two primary sources of drinking water. One source is a natural underground reservoir, called the Orange County groundwater basin. The other source, referred to as imported water, comes from Colorado through the Colorado River Aqueduct and from the Sacramento/San Joaquin Delta in Northern California through the State Water Project.



The groundwater basin was used by early settlers to supplement flows from the Santa Ana River.

As the area developed into a thriving agricultural center, the increased demand upon the subsurface water by the county's many wells resulted in a gradual lowering of the water table. In response, the Orange County Water District was formed in 1933 by a special act of the California State Legislature. OCWD manages the groundwater basin that underlies the northwest half of the county, supplying a significant percentage of the District's total water demand. The remaining demand is obtained through the Colorado River Aqueduct and State Water Project via the Metropolitan Water District of Southern California and the Municipal Water District of Orange County.

DISTRICT VITAL STATISTICS

Date of Enactment: 1933
Form of Government: Special District of the State of California
Area (square miles): 358
Employees (full-time): 207

Major Groundwater Producing Agencies:

Anaheim, City of
Buena Park, City of
East Orange County Water District
Fountain Valley, City of
Fullerton, City of
Garden Grove, City of
Golden State Water Company
Huntington Beach, City of
Irvine Ranch Water District
La Palma, City of

Mesa Consolidated Water District
Newport Beach, City of
Orange, City of
Santa Ana, City of
Seal Beach, City of
Serrano Water District
Tustin, City of
Westminster, City of
Yorba Linda Water District



Section 1

General Manager's Message

Directors

CLAUDIA ALVAREZ
PHILIP L. ANTHONY
WES BANNISTER
KATHRYN L. BARR
DENIS R. BILODEAU
JAN DEBAY
SHAWN NELSON
IRVING PICKLER
STEPHEN R. SHELDON
ROGER C. YOH



Officers

PHILIP L. ANTHONY
President

JAN DEBAY
First Vice President

KATHRYN L. BARR
Second Vice President

--

MICHAEL P. WEHNER
Acting General Manager

ORANGE COUNTY WATER DISTRICT

ORANGE COUNTY'S GROUNDWATER AUTHORITY

June 20, 2007

Board of Directors
Orange County Water District

Subject: BUDGET FOR FISCAL YEAR 2007-2008

OVERVIEW

I am pleased to present to the Board of Directors the recommended budget for fiscal year (FY) 2007-08 beginning July 1, 2007 and ending June 30, 2008. The budget includes general fund expenditures, debt service, water purchases, refurbishment and replacement items, and capital projects for Board review and consideration. Development of the draft budget began with review of the Work Plans for each District cost center with the Board in January 2007.

Following review of the Work Plans, the draft budget was reviewed with the Board on March 7. Additional meetings and workshops were then held on the budget through March and April. The final draft budget presents the culmination of these meetings and workshops, along with a new review of the budget by me as Acting General Manager, which has led to reducing the proposed expenses by \$3.1 million as shown on Table 1. This includes changes to the General Fund, Water Purchase, New Equipment, and Capital Improvement Program Budget. Table 1 also provides new proposed expenses for the budget, the largest being the additional labor cost from the recent employee association negotiations.

The budget describes activities and projects that are a continuation of the District's existing workload with the significant task of startup and operation of the Groundwater Replenishment (GWR) System's Advanced Water Purification Facility. This facility is expected to be online in late November 2007 and operate for seven months out of the fiscal year. General Fund expenses will increase significantly as planned to operate the new facility. Approximately 40,000 acre-feet of water is expected to be produced from the plant over this seven-month period (December 2007 to June 2008).

The budget is based on increasing the Basin Production Percentage (BPP) from 69 percent to 74 percent, which corresponds to approximately 361,000 af of pumping in FY 2007-08. The BPP increase is based upon the basin management formula the District has been generally following the past four years and represents an approximate 31,000 af increase in basin pumping. Staff has been directed by the Board to reevaluate the use of this formula and to develop other BPP setting methodologies for consideration.

Highlights and assumptions of the proposed budget include:

- Assumes a normal hydrologic year on the Santa Ana River watershed.
- Purchasing 65,000 af of Metropolitan Water District of Southern California (Metropolitan) replenishment water assuming it is available.
- Increasing District storage supplies by 26,000 af.
- Metropolitan may store an additional 16,000 af of water into their account bringing it to its maximum limit of 66,000 af.
- The groundwater basin's accumulated overdraft would be reduced by 42,000 af (26,000 af of additional District supplies and 16,000 af of MWD supplies).
- Increasing the RA from \$223/af to \$237/af.
- Increasing General Fund expenses by \$17.1 million primarily due to the GWR System.
- Increasing the full-time employee head count from 207 to 212.
- The adoption of a 3-year Capital Improvement Program budget, with expenses of \$55.8 million in FY 2007-08, of which \$30.9 million is related to non-GWR System projects.

**TABLE 1
 PROPOSED CHANGES TO DRAFT FY 2007-08 BUDGET**

Item	Change	Notes
General Fund		
Salary and Benefits Adjustments	\$647,000	Updated salary ranges, health insurance premium increases, and approved COLA as recently negotiated with the employee association.
Employee Association Negotiator Reduction (Human Resources)	(\$10,000)	Budget estimate reduced as recent union negotiations and settlement includes FY 07-08
Part time temporary labor (Human Resources)	(\$20,000)	Temporary part time labor was decreased across all departments as a cost cutting measure
Reduced Annual Advertising Contract (Communications)	(\$50,000)	A revised estimate was provided by the OC Register
Deletion of Public Information Seminar (Communications)	(\$20,000)	Seminar can be deferred another year

Item	Change	Notes
Commercial Vacuum for Warehouse (Purchasing)	(\$4,950)	Vacuum estimate increased and will be added to New Equipment Budget as cost exceeds \$5,000
Removed Miscellaneous Expense (Finance Dept)	(3,000)	This budget item is not required as these expenses are included in miscellaneous office expenses.
Reduced Financial System Consultant (Finance Dept.)	(\$25,000)	In-house capabilities to operate and improve the Financial Information System have increased.
Reduced Consulting Needs (Engineering)	(\$10,000)	Consulting needs for feasibility studies were reduced with the deferral of minor improvement projects
Strategic Plan Update removal (Planning)	(\$50,000)	The need for a Strategic Plan Update can be re-evaluated in 2008-09
SAWPA Dues Increase (Planning)	\$73,000	An updated estimate of SAWPA dues was provided in the month of April
Professional Services (Regulatory Affairs)	\$20,000	A study initiated by the GWR System Independent Advisory Panel to monitor the microbial quality of the GWR Water is needed to support permit requirements
Professional Services (Research & Development)	\$20,000	The GWR System Independent Advisory Panel recommended this study to evaluate the efficiency of the AOP system to support permit requirements
Lab Sample Analysis (Research & Development)	\$14,000	This study was approved by the Board in May and expenses will be continued in the next fiscal year
Water Production reductions (Water Production)	(\$33,000)	Budget figures were re-evaluated using more current estimates on maintenance , chemical, and equipment costs.
BCV operations (Recharge Operations)	(\$30,000)	Reduction in operation of the BCV program
Reduced Technical Training (Wetlands)	<u>(\$1,000)</u>	Conference registration is already included in Travel/ Conferences
Sub Total	\$517,050	
New Equipment		
Lab Equipment (Ion Chromatograph)	(\$140,000)	Proposed purchase transferred into FY06-07 Budget due to the exclusion of current years ion chromatograph
5 Lab equipment items to be financed with commercial paper	(\$408,000) \$98,000	Financing equipment will distribute cost over 5 years
Commercial Vacuum for Warehouse	\$6,900	Budget increased and transferred from General Fund to New Equipment

Item	Change	Notes
Electric carts for GWR System Plant	\$40,000	Not included in the original budget
Sub Total	(\$403,100)	
Water Budget		
Water Budget	(\$56,000)	More refined figures since budget was originally prepared in January 2007
Sub Total	(\$56,000)	
Capital Improvement Program		
Chino Creek Wetlands	(\$3,000,400)	Project delayed due to Property Negotiations
Monitoring Well Program for Basin Storage Evaluation	(\$180,000)	Project deferred one year
Sub Total	(\$3,180,400)	
Total	(\$3,122,450)	

Table 2 delineates proposed District expenses along with the current FY 2006-07 budget.

**TABLE 2
 2007-2008 ALL FUNDS BUDGET**

EXPENSES	AMOUNT FY 06-07 (\$ MILLIONS)	PROPOSED FY 07-08 (\$ MILLIONS)
General Fund	31.6	48.8
Debt Service	27.4	28.1
Water Purchases	29.3	28.5
New Equipment	1.7	1.0
Capital Improvement Program (GWR System excluded; debt financed)	27.1	29.4
Small Project Capital Improvement Program (PAYGO)	1.4	1.5
Refurbishment and Replacement Expenditures	8.5	10.6
Appropriation to Designated Funds	1.7	2.2
Total	\$128.7 million	\$150.1 million
GWR System	\$119.5	\$24.9

At the April 11, 2007 Water Issues Committee, discussion occurred regarding how less staff time would be budgeted towards the construction of the GWR System as the plant is expected to be on line in November 2007. For the current fiscal year, \$1.95 million of staff time including benefits is budgeted to the GWR System. This figure would decline to \$1.01 million with the proposed FY2007-08 budget. Currently, staff time on the project is capitalized and funded with long-term debt proceeds and state loans. Once the project is completely constructed and operating, staff time to operate the project will be funded with operating revenues.

Four cost centers are primarily impacted and have seen increases in their General Fund operating budgets as less of their staff time is budgeted to the GWR System construction. These four cost centers are Water Production, Information Services, Engineering, and Communications.

The FY 2007-08 Work Plans for each of the four cost centers is provided in Section 3 of the proposed budget. Staffing, core activities and proposed FY 07-08 goals for each of these cost centers are described in detail. The issue of staff time moving back to each cost centers General Fund operating budget is summarized in Table 3 below.

**TABLE 3
 2007-08 GENERAL FUND AND CIP SALARY BUDGET SUMMARY**

Cost Center	Notes
Water Production	The water production staff that has been working to construct the GWR System will now be operating the new facility.
Information Systems	Several new systems have been installed with the GWR System. Significant consulting assistance has been hired to complete this work. Existing staff will now operate and maintain these systems.
Engineering	Engineering staff that was previously assigned to the GWR system project will now be reassigned to other capital projects or engineering studies.
Communications	Communications staff is now primarily focused on OCWD outreach that includes the GWR System as just one OCWD project. New OCWD initiatives include developing a Speakers Bureau, new OCWD brochure, new OCWD video, new facilities tour and an annual luncheon for Producers and their public relations staffs. Other initiatives include upgrading the OCWD web site, development of key value messages and vehicles, recharge signage at Field Headquarters, library posters, and regular water advertisement in the Register.

BUDGET HIGHLIGHTS

The Orange County Water District strives to improve the efficiency of all aspects of its operations in its continuing efforts to increase the water quality and reliability of Orange County's local water resources at the lowest possible cost. The *2007-08 Budget Report* for the District reflects the wide range of programs necessary to accomplish the District's primary mission of proactively managing the Orange County groundwater basin (the basin). The following sections provide highlights of the budget.

EXPENSES

GENERAL FUND BUDGET - \$48.8 MILLION

The District has 21 cost centers and their proposed activities for the year are provided in detail in later sections of this document. The District constantly attempts to minimize increases to the General Fund by taking actions such as limiting administrative personnel, reviewing operations, maximizing outside funding opportunities, and

reviewing all vacant positions before they are refilled. The General Fund budget includes the expenses of operating a number of facilities including:

- The 70 million gallons per day (mgd) GWR System Advanced Water Purification Facility
- Green Acres Project (GAP)
- Talbert seawater barrier injection facilities
- Water quality monitoring well maintenance and sampling
- Laboratory
- Recharge operations in Anaheim and Orange
- Alamitos seawater barrier injection facilities
- Prado Wetlands and water conservation programs

The District's total salary and benefit costs are projected to be \$22.2 million, which is allocated as follows: \$20.4 million to the General Fund and \$1.8 million to capital projects. As described in the Work Plans reviewed with the Board in January, the budget proposes five new positions, three in the Laboratory and one each in the Water Production and Planning and Watershed Management Groups. Justifications for these additional positions are provided in Section 3.

WATER PURCHASE BUDGET - \$28.5 MILLION

The proposed water budget is based upon the District's basin management approach, which was developed in collaboration with the Groundwater Producers and implemented by the District in December 2002. The budget calls for continuing the annual purchase of 65,000 af of Metropolitan replenishment water.

The total water budget is \$28.5 million. The District expects to receive \$3.2 million of revenue from the in-lieu program (avoided energy cost paid by groundwater producers), which makes the net water budget \$25.3 million.

Per Board policy, all revenues budgeted to fund water purchases can only be utilized to buy water. Any money not spent in the annual water budget remains in the designated water purchase fund.

Key assumptions in the water budget include:

- Metropolitan will have replenishment water available to purchase. If no replenishment water is available the groundwater basin's accumulated overdraft could increase by approximately 39,000 af, which is acceptable;
- The District will purchase supplies via Metropolitan's OC-44 connection for blend water for injection into the seawater barrier (permit blend requirement to last two years); and
- Water will not be available from the San Bernardino Valley Municipal Water District or Western Municipal Water District.

The District is currently pre-purchasing MWD replenishment water for FY2007-08. The pre-purchased total will be subtracted from the FY2007-08 budgeted amount to obtain the 2007-08 actual purchases.

DEBT SERVICE BUDGET - \$28.1 MILLION

The District has \$455 million in outstanding debt. This year's total debt service payment will be \$28.1 million, comprising \$13.2 million of fixed rate debt, \$10.0 million of variable rate debt, \$4.0 million for fixed junior lien debt (including low interest State Revolving Fund Loans and SWAPs), and \$0.9 million for debt administration. The District has developed a comprehensive long-range debt management program, which provides for the funding of projects necessary to protect the basin and to increase basin production while providing predictable and minimal impacts to the RA.

The District holds very high credit ratings of AA+ from Standard & Poor's and Fitch along with an aa2 rating from Moody's. The ratings assigned by these three agencies have a direct impact on the District's ratepayers. The District's high credit ratings translate into lower annual interest payments.

REPLACEMENT AND REFURBISHMENT (R&R) FUND BUDGET - \$10.6 MILLION

The District has over \$500 million in existing plant and fixed assets. These facilities annually depreciate and require routine minor repairs to maintain their capabilities. In October 1998, the District formally established an R&R Fund.

In March 2004, the District modified the R&R Fund to only include infrastructure type assets. By reducing the scope of the R&R Fund only \$3.53 million needs to be transferred into it in FY 2007-08. The annual transfer amount increases by seven percent annually. With the construction of the GWR System an additional \$4.5 million will be annually transferred into the fund. Since the plant is expected to be on line for seven months, the \$4.5 million transfer amount has been reduced by 0.583 (7/12) the first year.

Modeling efforts indicate this amount of funding will pay for necessary annual replacements and refurbishments to existing District infrastructure. The cash balance of the fund is expected to be approximately \$34.0 million, by the end of the year. \$10.6 million is budgeted for actual expenditures from this fund in FY 2007-08, of which \$5.0 million is anticipated to be refunded from disaster relief funds for reconstruction of the Prado Wetlands. A detailed list of these expenditures is provided in the R&R section (Section 9).

CAPITAL PROJECTS BUDGET - \$55.8 MILLION

The District prepares a multi-year CIP budget to support its mission. The CIP budget spans three years and provides expected capital expenditures over the 3-year period. The CIP is comprised of the GWR System and eight other large projects totaling \$54.3 million and eight small projects totaling \$1.5 million in FY 2007-08. The GWR System and nine other large projects are primarily funded through long-term debt. The nine small capital projects are funded by the PAYGO program. \$24.9 million of the CIP budget is attributable to the GWR System. Details of the CIP are provided in Section 7 of the budget book.

The projects are necessary to:

- Support basin production by increasing recharge capacity and operational flexibility;
- Protect the coastal portion of the basin; and
- Provide water quality improvements.

The CIP program and the capitalization of expenses comply with the adopted District policy in October 2000, which: (1) defines the types of expenses that can be capitalized; and (2) uses long-term debt to fund the projects. Each project included in the CIP must be individually reviewed and approved by the Board prior to design and construction.

NEW CAPITAL EQUIPMENT ITEMS - \$1.0 MILLION

This budget includes small equipment items such as laboratory equipment, vehicles, machines, tools, computers and software, pumps, equipment, etc. These items are funded using current revenues. There are a total of eight road vehicles included on the Equipment List. One of these vehicles is an additional vehicle while the other seven are replacement vehicles. All vehicles have been selected based on the Vehicle Replacement Policy established by the District in May 2006. While over 20 vehicles were eligible, per the policy, staff had initially submitted 16 that required replacement. The assistant general managers reviewed all vehicles and identified eight that should be replaced. There are currently 82 road vehicles operating within the organization.

A detailed list of these items is provided in Section 8 of this document.

REVENUES

ASSESSMENTS - \$85.1 MILLION RA; \$1.0 MILLION BASIN EQUITY ASSESSMENT

All water pumped out of the groundwater basin is assessed the RA on a \$/af basis. The RA is expected to generate \$85.1 million in revenue for FY 2007-08 based on 361,105 af of total anticipated basin production. Anticipated agricultural pumping of approximately 4,000 af generates revenues based on half the RA (\$118.50). The District semi-annually invoices producers for their production in July and January. The amount of revenue generated by the RA is directly related to the amount of groundwater production.

The Basin Equity Assessment (BEA) rate is calculated for each agency based on Metropolitan Tier II rates and currently averages \$320/af. The BEA is assessed annually in November for all groundwater production above the BPP. For FY 2007-08, \$1 million of BEA revenue is expected and dedicated to the water purchase fund.

AD VALOREM TAXES - \$16.0 MILLION

The District expects to receive approximately \$16.0 million from property taxes collected within the service area. The County of Orange assesses and collects the property taxes and transfers them to the District at various times during the year. This revenue source is dedicated to the District's annual debt service expense.

INVESTMENTS - \$4.4 MILLION

Cash reserves generate interest revenues. The majority of cash reserves are invested in short-term securities. Yields are expected to generally remain level and have been estimated at four percent. Total interest revenues have been estimated at \$4.4 million and reflect that the District may have large amounts of money, dedicated for the GWR System, sitting in our accounts for short periods of time prior to being expensed to the project.

Approximately \$1.3 million of the investment revenues are generated by and for the R&R program; another \$1.9 million of the investment revenues are generated by and for the CIP program. Approximately \$0.6 million is generated by and for the General Fund. The remaining \$0.6 million interest revenue is allotted to Debt Service.

MISCELLANEOUS REVENUES – \$8.4 MILLION

Miscellaneous revenues are comprised of numerous items including, water sales from the GAP, the Metropolitan subsidy received for GAP and the GWR System supplies, annexation fees, repayment of loans to the District, rents, subsidies, and other minor revenues. Approximately \$8.4 million is expected in FY 2007-08.

RESERVES

The District maintains cash reserves to ensure its financial integrity so that the groundwater basin can be successfully managed and protected. Cash reserves ensure that:

- The District has sufficient funds for cash flow purposes;
- Funds are available for unexpected events such as contamination issues;
- Funds are available to make necessary replacements and repairs to the District's infrastructure;
- The District has access to debt programs with very low interest cost; and
- Act as a financial hedge to balance the amount of outstanding variable rate debt the District has issued in case interest rates rise. The District needs approximately \$75.0 million in operating reserves to accomplish this goal.

The District has established policies which result in the establishment of the minimum reserve and operating fund levels shown in Table 2. The net effect of the proposed budget will be to increase total District reserves by \$4.1 million due to the following actions:

- Increasing general operating reserves by \$2.2 million
- Increasing the R&R fund balance by \$1.9 million

**TABLE 3
 RESERVE AND OPERATING FUND LEVELS**

RESERVE	PROJECTED YEAR-END FY 06-07 (\$/MILLION)	REQUIRED AMOUNT (\$/MILLION)
Debt reserve required by bond covenants	4.6	4.6
Operating reserve (15% of annual operating budget)	12.5	17.4
General Contingencies per District Act	3.0	3.0
Toxic Clean-up per Board Policy	2.6	2.6
R&R Fund per Board policy	34.0	34.0
OPERATING FUNDS		
Water Budget	0.0	0.0
Operating Fund	14.3	13.4
TOTAL CASH ON HAND	\$71.0 MILLION	\$75.0 MILLION

CONCLUSION

The proposed 2007-08 budget represents an expenditure plan that is fiscally sound and supports necessary programs. No new initiatives or projects are proposed. The obvious primary task for the District will be to successfully bring the GWR System on-line.

As part of the District's commitment to provide local groundwater producers with a reliable, adequate, high-quality water supply at the lowest reasonable cost in an environmentally responsible manner, the following areas will continue to be emphasized:

- Minimizing administrative and overhead type costs;
- Protect the coastal portion of the groundwater basin;
- Increase local water supplies where economical; and
- Maintain the financial health and integrity of the District.

Respectfully submitted,



Michael P. Wehner
 Acting General Manager



Section 2 Summaries

Combined Summary
Sources and Uses of Funds
General Fund Budget Summary
General Fund Budget Comparison
District Memberships

Orange County Water District
Combined Summary
Fiscal Year 2007-08

Revenues	
Property Taxes	\$ 16,016,164
Replenishment Assessment (Normal)	\$ 85,108,000
In-Lieu Revenue	\$ 3,160,000
Basin Equity Assessment	\$ 1,000,000
Facility Revenue from Other Agencies (GAP)	\$ 3,645,891
Project Reimbursement Revenue	\$ 20,320,000
Commercial Paper Issuance	\$ 408,000
Draw from Toxic Clean-up Reserve Funds	
Draw from R&R Fund Reserves	\$ (1,915,063)
Investment Revenues	\$ 4,400,000
Notes Receivable Reimbursement	\$ 1,420,248
Rent, Royalties and Others	\$ 3,383,750
Draw from Construction Fund	\$ 38,064,000
Total Revenues/Others	\$ 175,010,990

Appropriations	
General Fund	\$ 48,792,000
New Equipment	\$ 1,000,000
Water Purchases	\$ 28,487,000
Debt Service	\$ 28,139,000
Small Project CIP (PAYGO)	\$ 1,523,000
CIP (Debt funded)	\$ 29,416,000
GWR System	\$ 24,848,000
R&R Fund Expenditures	\$ 10,564,000
Appropriation to Designated Operating Reserves ***	\$ 2,241,990
Total Appropriations	\$ 175,010,990

**Sources and Uses of Funds
Fiscal Year 2007-08**

**Section 2
Summaries**

Expenses		Revenues													Total
	Total	Replenishment Assessment	In-Lieu	Basin Equity Assessment	Taxes	GAP Revenues & LRP (GWR/GAP)	Notes Receivables	Investment Revenue	Commercial Paper Borrowing	Rent & Others (*)	R&R Fund Drawdown	Toxic Reserve Fund Drawdown	Project Reimbursement	Debt Proceeds (**)	Total
General Fund	\$ 48,792,000	\$ 40,142,359				\$ 3,645,891		\$ 620,000		\$ 3,383,750				\$ 1,000,000	\$ 48,792,000
New Equipment	\$ 1,000,000	\$ 592,000							\$ 408,000						\$ 1,000,000
Water Purchases	\$ 28,487,000	\$ 24,327,000	\$3,160,000	\$ 1,000,000											\$ 28,487,000
Debt Service	\$ 28,139,000	\$ 10,082,588			\$ 16,016,164		\$ 1,420,248	\$ 620,000							\$ 28,139,000
Small Project CIP (PAYGO)	\$ 1,523,000	\$ 1,523,000													\$ 1,523,000
CIP (Debt funded)	\$ 29,416,000	\$ -						\$ 940,000				\$ 3,400,000	\$ 25,076,000		\$ 29,416,000
Repayment of Revenue Taken By State	\$ -	\$ -													\$ -
GWR System	\$ 24,848,000	\$ -						\$ 940,000				\$ 11,920,000	\$ 11,988,000		\$ 24,848,000
R&R Fund Expenditures	\$ 10,564,000	\$ 6,199,063						\$ 1,280,000		\$ (1,915,063)		\$ 5,000,000			\$ 10,564,000
Appropriation to Designated Operating Reserves ***	\$ 2,241,990	\$ 2,241,990													\$ 2,241,990
	\$ 175,010,990	\$ 85,108,000	\$ 3,160,000	\$ 1,000,000	\$ 16,016,164	\$ 3,645,891	\$ 1,420,248	\$ 4,400,000	\$ 408,000	\$ 3,383,750	\$ (1,915,063)	\$ -	\$ 20,320,000	\$ 38,064,000	\$ 175,010,990

* Misc. revenues from research grants, annexation fees, MWD storage program, rents & leases misc. fees, etc.
 ** Approximately \$1.0 million of debt proceeds will be used to fund overhead expenses that support CIP expenses
 *** Includes \$200,000 contribution to fund Retiree Medical Liability

Orange County Water District
General Fund Budget Summary
FY 2007-08

Cost Center #	Cost Center	Salaries & Benefits	Services & Supplies	FY 07-08 Proposed Budget
1010	General Manager's Office	799,851	1,585,701	2,385,552
1012	Communication Stakeholder Support	420,824	321,400	742,224
1016	Information Services	914,835	808,420	1,723,255
1018	Board Administration	455,980	462,902	918,882
1022	Purchasing	543,627	49,000	592,627
1024	Finance	1,317,863	462,900	1,780,763
1030	Human Resources	670,919	427,245	1,098,164
1034	Safety & Risk Management	189,966	867,950	1,057,916
1036	Water Quality	1,138,906	823,212	1,962,118
1038	Laboratory	2,490,822	843,200	3,334,022
1040	Research & Development	854,871	185,125	1,039,996
1044	Planning and Watershed Management	427,406	897,450	1,324,856
1045	Local Resources	277,752	5,450	283,202
1046	Regulatory Affairs	250,486	176,875	427,361
1050	Water Production/GWR System	5,079,909	15,909,021	20,988,930
1060	Recharge Operations	2,030,797	2,332,500	4,363,297
1062	Wetland Operations	575,512	441,850	1,017,362
1069	Property Management	100,990	107,489	208,479
1070	Engineering	540,698	161,200	701,898
1075	Hydrogeology	1,124,342	1,400,000	2,524,342
1080	Natural Resources	216,566	100,508	317,074
Total (rounded)		\$ 20,423,000	\$ 28,369,000	\$ 48,792,000

General Fund Budget Comparison
Fiscal Year 2007-08

Cost Center #	Cost Center	FY 2006-07 Budget	FY 2007-08 Proposed Budget	% Increased or Decreased
1010	General Manager's Office ⁽¹⁾	2,367,564	2,385,552	0.76%
1012	Communication Stakeholder Support	463,495	742,224	60.14%
1016	Information Services ⁽¹⁾	1,239,884	1,723,255	38.99%
1018	Board Administration	862,780	918,882	6.50%
1022	Purchasing	552,013	592,627	7.36%
1024	Finance	1,740,878	1,780,763	2.29%
1030	Human Resources	975,856	1,098,164	12.53%
1034	Safety & Risk Management ⁽²⁾	731,546	1,057,916	44.61%
1036	Water Quality	1,564,875	1,962,118	25.38%
1038	Laboratory	2,766,801	3,334,022	20.50%
1040	Research & Development	1,002,727	1,039,996	3.72%
1044	Planning and Watershed Management	1,234,691	1,324,856	7.30%
1045	Local Resources ⁽¹⁾	177,968	283,202	59.13%
1046	Regulatory Affairs	375,042	427,361	13.95%
1050	Water Production/GWR System ⁽¹⁾⁽³⁾	7,386,845	20,988,930	184.14%
1060	Recharge Operations	3,775,647	4,363,297	15.56%
1062	Wetland Operations	875,319	1,017,362	16.23%
1069	Property Management	162,020	208,479	28.67%
1070	Engineering ⁽¹⁾	490,325	701,898	43.15%
1075	Hydrogeology	2,585,489	2,524,342	-2.37%
1080	Natural Resources	326,936	317,074	-3.02%
	Total (rounded)	\$ 31,659,000	\$ 48,792,000	54.12%

- (1) Salaries were previously capitalized to the GWR System. With the project coming online, these salaries should be expensed following start-up and operation.
- (2) Increased insurance costs due to increased property coverage.
- (3) GWR System operational resulting in new treatment, chemical, and power costs.

DISTRICT MEMBERSHIPS
Fiscal Year 2007-08

ORGANIZATION	AMOUNT
ACWA Utility Service Agency	\$ 2,500
American Ground Water Trust	500
American Membrane Technology	650
American Water Works Association (AWWA)	1,350
Association of California Water Agencies (ACWA)	16,025
Association of Groundwater Agencies (AGWA)	1,000
AWWA Research Foundation	167,000
Black Chamber of Commerce	250
California Special Districts Association	3,000
California State Fullerton Demographics	27,501
California Urban Conservation Council	3,500
Colorado River Water Users Association	80
Groundwater Foundation	85
Groundwater Resources Association (GRA)	200
Hispanic Chamber of Commerce	250
Independent Special Districts Association (ISDOC)	50
Orange County Business Council	900
Orange County Chinese Chamber of Commerce	100
Orange County Public Affairs Association	50
Santa Ana River Flood Protection Agency (SARFPA)	1,400
Southern California Salinity Coalition	10,000
Southwest Membrane Operator Association (SWMOA)	300
UCI Urban Water Research Center	35,000
Urban Water Institute	1,000
Vietnamese Chamber of Commerce	250
Water Advisory Committee of Orange County (WACO)	100
Water Education Foundation	2,200
WaterReuse Association	10,000
WaterReuse Research Foundation	15,000
Watershed Management Council	1,300
Other	3,000
DISTRICT MEMBERSHIP TOTAL	\$ 304,541



Section 3

Operations and Cost Center

Descriptions

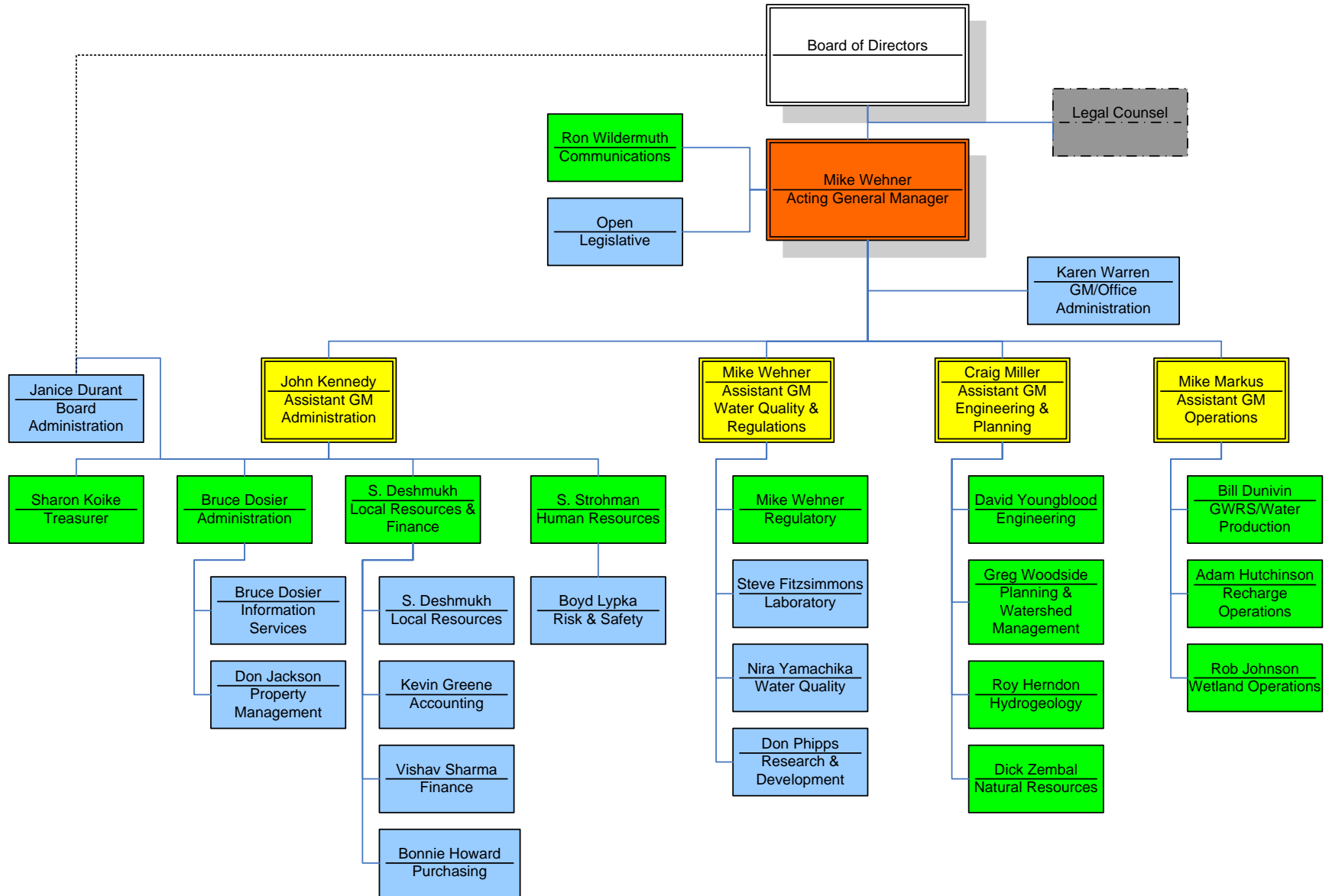
Organizational Structure
Cost Center Profiles

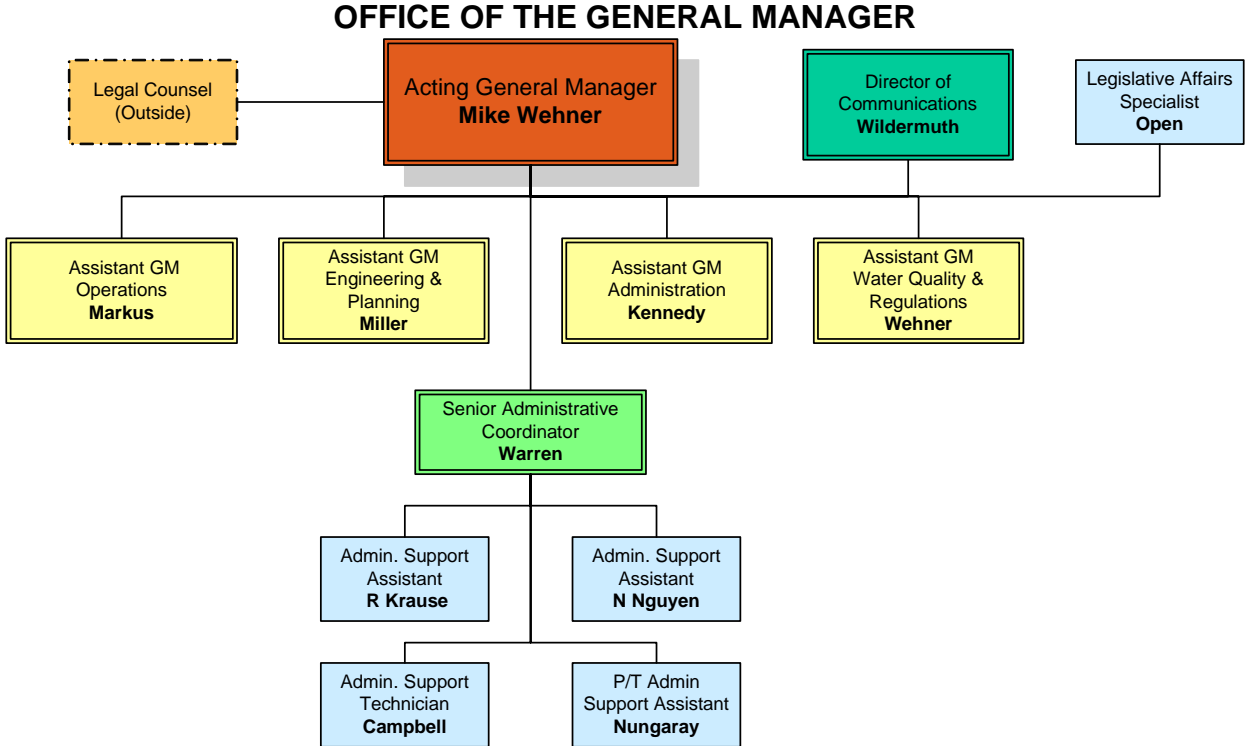
OPERATIONS AND COST CENTER DESCRIPTIONS
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ORGANIZATIONAL STRUCTURE

FY 2007-08





Summary Information

Existing Staff – 6.5 FTEs (Assistant General Managers and Director of Communications included in other Cost Centers)

- 1 – General Manager
- 1 – Legislative Affairs Specialist
- 1 – Senior Administrative Coordinator
- 1 – Receptionist/Administrative Support Technician
- 2.5 – Administrative Support Assistants

Mission

Implement the policies of the Board of Directors

Key issues for 2007-08

Complete the construction and begin operation of the GWR System.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	723,903	799,851
Services and Supplies	1,643,661	1,585,701
Total	\$2,367,564	\$2,385,552

I FY 2007-08 Major New Initiatives/Programs

Once the Groundwater Replenishment (GWR) System comes on-line with Board approval commence strategic planning workshops with the Directors.

II Core Activities

The General Manager’s Office is charged with directing the activities of 207 full time employees in their efforts to manage and protect the lower Santa Ana groundwater basin, which supplies the majority of the water used by 2.3 million people living in northern Orange County.

Core activities include:

- ◆ Implementing and communicating the policies of the Board of Directors
- ◆ Supporting and preparing for Board and Committee meetings
- ◆ Managing and providing outside legal services
- ◆ Coordinating legislative activities
- ◆ Managing organizational issues
- ◆ Providing external communications
- ◆ Attending and coordinating Santa Ana Water Project Authority (SAWPA) meetings and activities
- ◆ Providing receptionist, mailroom and copy production support services
- ◆ Managing organizational memberships and office supplies

III Non-Core Activities

Numerous requests for presentations and tours of District facilities

IV Group Goals for 2007-08

Work to improve the negotiation process and relationship with the employees’ union.

Lawsuits – Actively manage and aggressively pursue legal actions including

- ◆ MTBE litigation
- ◆ North Basin Groundwater Protection Project

Legislation - Advocate for the District's legislative interests at the federal, state, and local levels. Actively monitor and aggressively support/oppose legislation impacting the District's operations as necessary.

Federal: Secure the remainder of the District's GWR System authorization in fiscal year 2008 appropriations; aggressively work to enact HR 177/S 2106; maintain Prado language in the final Water Resources Development Act.

State: Aggressively pursue a resolution to the District's water rights application. Work with Association of California Water Agencies (ACWA), California Special Districts Association, (CSDA) and others to: oppose legislating water quality, shifting property tax revenue, legislating local issues; support good governance measures and the ACWA Blueprint; and monitor the infrastructure/resources bond proposals, the proposed Water Resources Investment Fund, and other legislation of importance to the District.

Local: Work with local agencies, organizations, (including the League of Cities, Orange County Council of Government [OCCOG], and Orange County Business Council), elected officials and their staff members to protect the District's interests and operations.

GWR System Construction – Closely monitor startup and commissioning activities and ensure start up takes place within the fiscal year.

Santa Ana River (SAR) Water Rights Application – Continue efforts to seek water rights for SAR flows and to work with upstream SAR watershed agencies.

Organizational – Work to improve recruitment and retention of employees.

Metropolitan Water District of Southern California (MWD) – Actively participate in efforts that could change the replenishment water program.

Proposition 50 and 84 Grant Administration – Support efforts to obtain grant funding for selected projects.

Annexation Process – Support and manage the existing efforts to complete the annexation discussions.

V Activities on Hold Due to Insufficient Resources

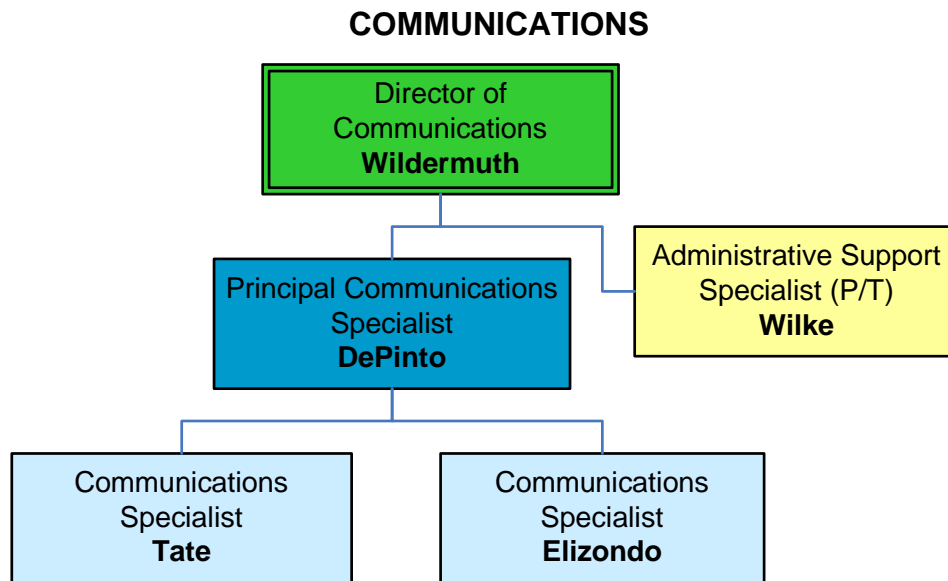
- ◆ Active participation with Municipal Water District of Orange County (MWDOC) regarding their Orange County reliability studies and work
- ◆ Seawater Desalination options
- ◆ Active participation in Salinity Coalition, Association of Ground Water Agencies (AGWA), Center for Demographic Research
- ◆ Developing relationships with non-SAWPA upper SAR watershed agencies

VI Staff Addition Needed for FY 2007-08

None.

VII Future Issues

Organizational changes and hiring needs created from operating the GWR System



Summary Information

Staff – 4.5 FTEs

- 1 – Director of Communications
- 1 – Principal Communication Specialist
- 2 – Communications Specialists
- 0.5 – Administrative Support Specialist

Mission

Build and maintain support of OCWD’s programs and projects by communicating to key community leaders, stakeholders, elected officials, media, businesses, and environmental groups.

Key Issues for 2007-08

- ◆ Build awareness and trust in OCWD.
- ◆ Continue successful GWR System outreach tactics and increase Speakers’ Bureau activity.
- ◆ Initiate OCWD speaker’s bureau.
- ◆ Integrate Value on Tap concepts in OCWD communications.
- ◆ Continue successful Children’s Water Education Festival.
- ◆ Improve producer communications support.

- ◆ Support outreach on legislative issues and District’s Capital Improvement Program, including new well development, recharge enhancements and the North Basin Groundwater Protection Project.
- ◆ Maintain memberships in key industry and community organizations

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	223,595	420,824
Services and Supplies	239,900	321,400
Total	\$463,495	\$742,224

I FY 2007-08 MAJOR NEW INITIATIVES/PROGRAMS

- ◆ OCWD Speaker’s Bureau to eventually replace GWR-specific Speaker’s Bureau
- ◆ Produce new OCWD branding video – hasn’t been done in more than ten years
- ◆ GWR System commissioning ceremony

II CORE ACTIVITIES

- ◆ Major focus will be on building awareness and support for OCWD’s programs and projects by communicating to key community leaders, stake holders, elected officials, businesses, environmental groups, etc.
- ◆ Continue successful GWR System outreach tactics and increase Speakers’ Bureau activity. Maintain and increase public support regarding GWR System, including emphasis on construction outreach, as project comes online in 2007.
- ◆ Work with City Councils, City Managers and Water Boards to be more informed and supportive of OCWD’s values, goals and objectives.
- ◆ Assist OCWD Board members in their communication efforts with their stakeholders.
- ◆ Improve communications for and between OCWD Communications Department and groundwater producers’ public information representatives in order to generate a positive, mutually beneficial relationship and increase clarity of wholesaler/retailer messages.
- ◆ Strengthen and enhance current employee outreach and add additional materials as workload permits to ensure timely communications. Administer employee communications programs: Employee Recognition Program, Employee of the Month/Year program, and Assistant General Manager’s Lunches.

- ◆ Be responsive to needs of community neighbors impacted by OCWD construction, operations or projects, so that they understand the need for the work and so that impacts are mitigated as much as possible.
- ◆ Increase local media coverage of OCWD activities, and be more proactive with local press, including distributing weekly press releases, contacting and meeting with new local reporters, coordinating media tours and monitoring news media.
- ◆ Ensure OCWD's innovations are noted in trade publications by developing relationships with key trade press.
- ◆ Work with the Legislative Affairs Specialist to keep state and federal elected officials and their staff members up-to-date and supportive of OCWD issues and needs; includes possible water bond, the SAR water rights and other issues.
- ◆ Build recognition, trust and awareness of OCWD in leading community organizations.
- ◆ Conduct Children's Water Education Festival and other youth and Groundwater Guardian activities and inform/involve Orange County education leaders about OCWD's youth education activities.
- ◆ Gain involvement and support of Orange County's business leaders in OCWD's groundwater issues by working through the Orange County Business Council and city Chambers.
- ◆ Maintain support of OCWD's environmental efforts by communicating with local environmental organizations.
- ◆ Continue to support communication efforts of other OCWD departments including water quality and emerging contaminants outreach, annexation issues, legislative support, and water rights application.
- ◆ Continue proactive media relations program, including distributing weekly press releases, contacting and meeting with new local reporters, coordinating media tours and monitoring news media.
- ◆ Support communication requirements of new, updated OCWD Strategic Plan.

III NON-CORE ACTIVITIES

- ◆ Coordination with MWDOC and Orange County Sanitation District (OCSD) on GWR System, medicine disposal, water conservation, and retail water agency public relations support. News releases and marketing information.
- ◆ Annual legislative breakfast for 50 city, state and federal elected officials and staff.
- ◆ Annual Groundwater Adventure Tour of OCWD facilities for groundwater producer general managers and public information, environmental resources and water quality staff.
- ◆ Create signage at injection wells to explain the seawater barrier.
- ◆ Create recharge basin explanatory signs for Burris Park.

- ◆ Production of a new brochure for the Prado Wetlands.
- ◆ Annual advertising contract with *The OC Register* for outreach, such as to promote Water 101, tours, construction closures, environmental affairs, Huell Howser, etc. The contract would guarantee a minimum of inches run that we could co-op with groundwater producers and water agencies to promote their news and events too.
- ◆ Secure full support and development of groundwater guardian team for active support of groundwater projects.
- ◆ Support of outside water industry agencies (American Water Works Association Research Foundation (AWWARF), WaterReuse, Water Environment Research Foundation, ACWA, National Water Research Institute (NWRI), etc.) for research support, conference support, etc.
- ◆ Maintaining effective OCWD membership programs.

IV ACTIVITIES ON HOLD DUE TO INSUFFICIENT RESOURCES

Major activities that are not being implemented include:

- ◆ One-day water education seminar for Directors led by U.C. Berkley Professor B.J. Miller.
- ◆ Conduct a Saturday morning tour of Forebay with breakfast for area residents to increase their understanding of our recharge operations.
- ◆ Develop California-friendly garden at front admin entrance when construction permits.
- ◆ Northern California and 2-day SAR watershed tours.
- ◆ Bi-annual report. In its place, the Communications team is producing a less costly *Year in Review*.
- ◆ Open house program for neighbors.
- ◆ Children education program at Prado.
- ◆ Support for MWDOC's education program to include groundwater education.

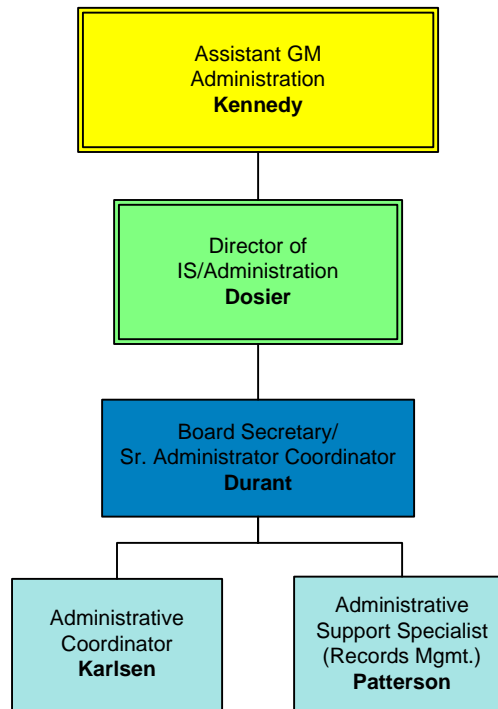
V STAFF ADDITION NEEDED FOR FY 2007-08

None.

VI FUTURE ISSUES

In the next one to three years, especially as the commissioning ceremony for the GWR system nears, OCWD may need to consider ramping up GWR System communications efforts so that any possible opposition, which has historically developed as the water reuse projects near completion of construction, does not prevent the project from going online.

BOARD ADMINISTRATION



Summary Information

Existing Staff - 3 FTE

- 1 – Board Secretary/Senior Administrative Coordinator
- 1 – Administrative Coordinator
- 1 – Administrative Support Specialist

Mission

Maintain and manage official District documents and records, compile and prepare Board and Committee agendas and minutes. Perform other statutory duties as set forth in the District Act, including Conflict of Interest filings and publication of required legal notices.

Key Issues for FY 2007- 08

- ◆ None

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	667,130	455,980
Services and Supplies	195,650	462,902
Total	\$862,780	\$918,882

I FY 2007-08 Major New Initiatives/Programs

The scanning and indexing of Board agendas and minutes into the Electronic Document Imaging/Records Management System (EDI/RMS).

II Core Activities

- ◆ The primary function of the Board Administration Department is to maintain all official District documents and records, to compile and prepare Board and Committee agendas and minutes to ensure compliance with all applicable state and federal laws, and to perform other statutory duties as set forth in the District Act, including Conflict of Interest filings and publication of required legal notices.
- ◆ Another prime function is Records Management, which includes recording, filing, indexing, and maintaining database of Board records for District-wide use.

III Non-Core Activities

Non-core activities (secondary priority compared to core activities) conducted by Board Administration include:

- ◆ Director's support – travel, expense reporting, and meeting scheduling, mail processing
- ◆ Management support – assist with research and preparation of submittals for Board consideration
- ◆ Maintenance of Board Policy Manual and District Act.

IV Group Goals for 2007-08

- ◆ Scanning and indexing Board agendas and minutes: With the scanning and indexing of District legal documents completed and now in production by Board Administration, the department will focus on scanning and indexing Board agendas and minutes into the EDI/RMS system.
- ◆ Updating of Records Retention Policy: The Department will review and recommend, if necessary, updating the District's records retention policy to ensure compliance with current regulations. The procedures for the storage and destruction of records will also be reviewed.

V Activities on Hold Due to Insufficient Resources

Implementation of a Records Management System for each department at the District has been put on hold due to limited staff resources. Staff will undertake this activity as resources become available.

VI Staff Addition Needed for FY 2007-08

None.

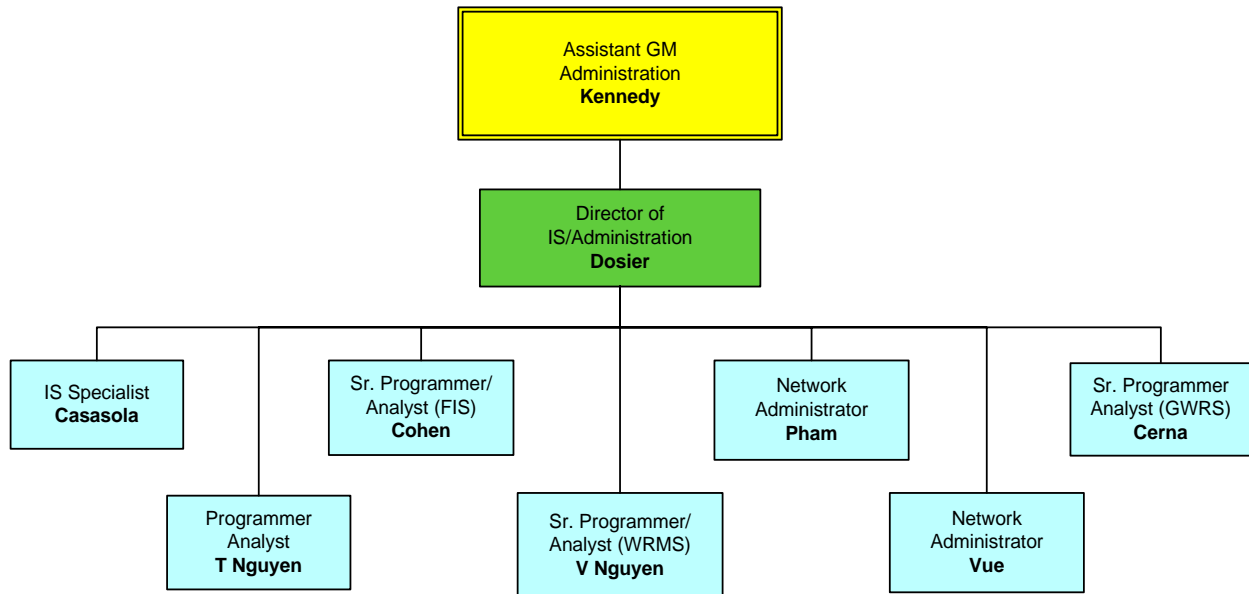
VII Future Issues

Development of a work plan for District-wide implementation of departmental central filing utilizing the electronic records management system and establishing District-wide procedures for key staff related to scanning, accessing and transmitting electronic records.

Archival of District historical records.

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INFORMATION SERVICES



SUMMARY INFORMATION

Existing Staff - 8 FTEs

- 1 – Director of Information Services/ Administration
- 3 – Senior Programmer/Analysts
- 1 – Programmer/Analyst
- 2 – Network Administrators
- 1 – Information Services Specialist

Mission

Manage and support information systems (IS), services, and communications assets used by District staff and third parties in support of basin management goals and objectives.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	596,084	914,835
Services and Supplies	643,800	808,420
Total	\$1,239,884	\$1,723,255

Key Issues for FY 2007-08

- ◆ GWR System Integrated Information Systems (IIS) - IS will continue to be involved with the implementation of the Maximo Computerized Maintenance Management System (CMMS), its integration with the JD Edwards Financial Information System (FIS) and the Process Control System (PCS).
- ◆ Implementation of new data networks for GWR System Advanced Water Purification Facility (AWPF) – the size of the District’s local area networks (LANs) will increase significantly with the construction of the new AWPF. The LANs will be used for communication with the intelligent devices used in the AWPF, the PCS, the District’s business network and the telephone system. Supporting these new networks will be a considerable challenge for IS.

I FY 2007-08 Major New Initiatives/Programs

There are no major new initiatives planned for upcoming fiscal year, but rather a continuation of the significant activities undertaken during the 2006-07 fiscal year.

II Core Activities

IS is a staff support organization that manages and supports a wide variety of District and non-District information systems, services and communications assets used by District staff, and third-parties in support of basin management goals and objectives.

Core activities include:

- ◆ Managing and supporting the various components of the enterprise-wide network infrastructure spanning the Fountain Valley campus, as well as the Anaheim and Prado facilities, and composed of Ethernet hubs, routers and switches and the copper and fiber-optic cabling and data communication services connecting them.
- ◆ Managing and supporting the various Microsoft Windows Servers and IBM AIX based network computer systems that support email, databases, core enterprise software applications, Intranet, Internet and other information services to District staff and third parties.
- ◆ Managing, supporting and programming for the District’s core enterprise software applications such as the JD Edwards FIS used by the Finance and other departments for tracking and reporting the financial and purchasing transactions of the District, the Water Resource Management System used for tracking, analyzing and mapping data collected from the District basin and the Lab Information System (LIMS) used by the Laboratory to track water samples from the District basin and for complying with regulatory reporting.
- ◆ Managing, supporting and programming for Interdepartmental projects including special, short-term computer system projects for various departments. IS also provides analytical, programming, technical and training support to those who use District information systems.
- ◆ Performing routine and non-routine systems operations including network and server system administration, managing user accounts, managing server disk space and

load balancing, performing daily, weekly and monthly computer system backups and restores, and telephone system administration.

- ◆ Providing support to District staff for network and server issues, core enterprise software applications, email systems, Microsoft Office software, desktop and laptop computers and a variety of other digital equipment including personal digital assistants (PDAs), digital cameras, Blackberries, as well as communication systems.
- ◆ Performing system maintenance, repairs and upgrades for network and servers, desktop and laptop computers as well as managing maintenance and license agreements for district hardware, software and information services.
- ◆ Managing and supporting voice and data communication services including the telephone and voicemail system, all communication equipment and lines connecting the District to various telephone system carriers, voice and data service contracts and District-issued cell phones. IS also manages and supports the enterprise-wide data lines connecting the Anaheim and Prado facilities with the Fountain Valley campus, various telemetry locations throughout the basin and Internet connectivity to District staff and third parties.
- ◆ Ongoing management of system security including administration of an appropriate level of firewall protection to prevent unauthorized intrusion to the District network from the Internet, the administration and monitoring of centralized, District-wide anti-virus software and services to prevent the spread of destructive and non-destructive computer viruses and worms and the administration of anti-spam services to prevent email inboxes from becoming overloaded with non-pertinent junk or “spam” email resulting in delayed or lost email messages. As new forms of security threats emerge on the Internet, IS analyzes the risk and determines the appropriate steps and actions necessary to respond.

III Non-Core Activities

None

IV Group Goals for 2007-08

Provide technical leadership and support during development of the GWR System IIS: IS staff has participated in the planning of the IIS and acquisition of hardware and software. IS will continue to be involved working with staff and consultants on the implementation of the Maximo CMMS and its integration with the PCS and the JD Edwards FIS.

Implementation of AWPf networks: Work with staff and consultants during the implementation of the AWPf networks and integration with existing OCWD networks.

Optimize IS Operations: Improve and optimize IS operations by improving the backup and recovery capabilities, optimizing network traffic, providing more efficient disk storage capacity as well as improving network security.

Improve data retrieval from the FIS: IS to develop improvements in data retrieval from the JD Edwards FIS by implementing improved FIS reporting software and reports, as well as developing online information retrieval capabilities.

Support the Water Resources Management System (WRMS) modernization: IS has been involved with the Hydrogeology group in the WRMS modernization project and will continue to do so in the fiscal year.

V Activities on Hold Due to Insufficient Resources

- ◆ Enhance the current basic disaster recovery plan with a more comprehensive disaster recovery program that would include appropriate offsite redundant services and systems.
- ◆ Provide support to Anaheim Forebay Supervisory Control and Data Acquisition (SCADA) systems.
- ◆ Provide training classes to employees on various software applications

VI Staff Addition Needed for FY 2007-08

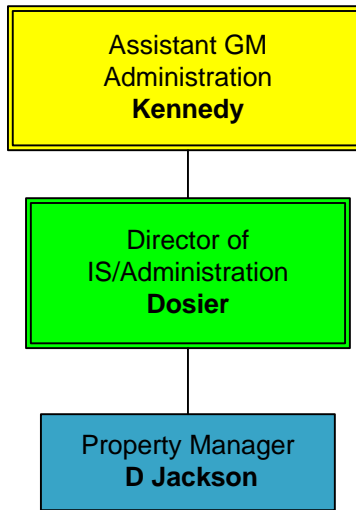
None

VII Future Issues

In the next two to three years, issues the District will need to consider include:

- ◆ Appropriate Staffing: The growth of the OCWD networks supporting the GWR System AWPf as well as the implementation of the IIS will require additional IS support and may require additional staffing.
- ◆ Increased disk storage, backup and disaster recovery requirements: With new systems and technology, the IS staff will be challenged with evaluating new methods and systems of data storage, backups and disaster recovery methods. Such methods may consist of network attached storage, redundant replicating servers as well as virtual servers.
- ◆ Increased Internet security threats: Measures to provide security against emerging Internet threats continue to increase resulting in dedicating additional hardware, software and staff resources to address the emerging issues.

PROPERTY MANAGEMENT



Summary Information

Existing Staff - 1 FTE

1 – Property Manager

Mission

Manage the District’s properties, which include over 3,600 acres of land, and their associated permits and leases.

Key issues for 2007-08

None

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	92,670	100,990
Services and Supplies	69,350	107,489
Total	\$162,020	\$208,479

I FY 2007- 08 Major New Initiatives/Programs

- ◆ The potential execution of a request for qualifications (RFQ) or request for proposals (RFP) process resulting in long-term ground leases and development of surplus District properties including but not limited to the Ball Road Basin and the Imperial Highway properties.

II Core Activities

The Property Management group is primarily responsible for the District's properties, permits, and leases on over 3,600 acres of land.

Core activities include:

- ◆ Property security through coordination with other groups to keep District land free of hazards and trespassers. Secures property with fencing, locks, and gates. Posts No Trespassing signs and other signage as appropriate. Verifies District Property lines to determine if trespassing or encroachment is occurring on District property.
- ◆ Property Management, which includes general management of District Property including inspections, fire department vegetation control and neighbor interaction.
- ◆ Property permits and lease activities, which include compliance negotiation and preparation of leases.
- ◆ Management of easements, property annexations, zoning modifications and potential sale or development of District property.
- ◆ Acquiring appraisals for new well sites and new construction projects.

III Non-Core Activities

Non-core activities (secondary priority compared to core activities) conducted by the Property Management group include:

- ◆ Verification of District boundaries
- ◆ Providing data and information to outside agencies and organizations.

IV Group Goals for 2007- 08

Negotiate terms with expiring lease – Negotiate lease terms with Gentry Golf, Inc. prior to expiration of current lease in September 2008.

Maintain Property Evaluation Report – Update as necessary the Property Evaluation Report such that the status, lease terms, and value of the properties are kept current.

Assistance on property issues for new wells and construction sites – Assist Hydrogeology and Engineering groups with acquiring easements for wells and facilities for the North Basin Groundwater Protection Project, Mid-Basin Injection Project, and other projects with site access needs.

Development of properties – continued work on strategies for developing surplus properties for long-term revenue generation.

V Activities on Hold Due to Insufficient Resources

Major activities that are not being implemented include:

- ◆ Proactive property acquisition to locate and research property for potential acquisition by the District.
- ◆ Proactive monitoring of zoning and sphere of influence issues on District property
- ◆ Research and pursuit of creative lease opportunities to generate revenue for the District
- ◆ Proactive search for potential recharge properties

VI Staff Addition Needed for FY 2007-08

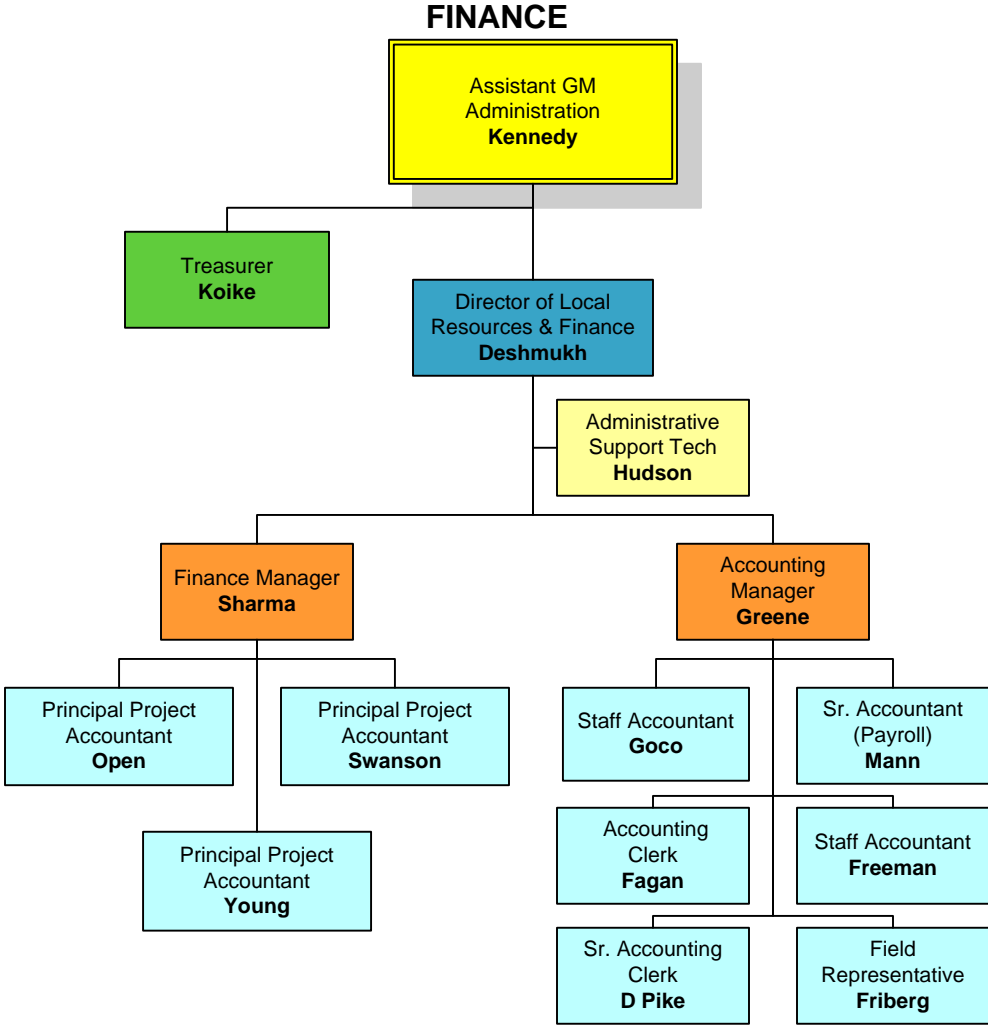
None

VII Future Issues

In the next one to two years, issues the District may need to consider:

- ◆ The potential execution of an RFQ or RFP process resulting in long-term ground leases and development of surplus District properties including but not limited to the Ball Road Basin and the Imperial Highway properties.
- ◆ Consideration of other long-term opportunities to lease District land at higher rental rates.
- ◆ Acquisition of additional property for additional capture and recharge of recycled, imported, and SAR water supplies

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Summary Information

Existing Staff - 13 FTEs

- 1 – Accounting Manager
- 1 – Finance Manager
- 1 – Treasurer
- 2 – Staff Accountants
- 1 – Senior Accountant/Payroll
- 3 – Principal Project Accountants
- 1 – Senior Accounting Clerk
- 1 – Accounting Clerk
- 1 – Administrative Support Technician
- 1 – Field Representative/Meter Reader

Mission

Perform the District's accounting, finance and treasury functions and manage the District's debt and assets.

Key Issues for FY 2007-08

- ◆ Continue to build and strengthen internal accounting controls in the District's processes and procedures.
- ◆ Assist with coordinating GWR System computer systems with the new accounting system.
- ◆ Review existing procedures and establish new procedures that will help expand the group's analysis and reporting capabilities.
- ◆ Develop systems and procedures to account for restricted and unrestricted funds on an automated real time basis.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	1,202,228	1,317,863
Services and Supplies	538,650	462,900
Total	\$1,740,878	\$1,780,763

I FY 2007-08 Major New Initiatives/Programs

Integrate the Maximo and Ceridian software systems with the Districts financial systems.

II Core Activities

The Finance Group is primarily responsible for all of the District's accounting and treasury functions, as well as working with various internal and external groups and agencies. The core activities of the group are:

- ◆ Processing the District's accounts payables and accounts receivables functions including the preparation of all vendors' 1099s at yearend.
- ◆ Maintaining the general ledger.
- ◆ Administering and processing the District's payroll function, including the process and payment of all related payroll tax payments, employee retirement and benefits payments, and any other employee related costs administered through the payroll function. This also includes the preparation of the District's W-2's for all employees at yearend.
- ◆ Monitor, track, execute and complete all grant billings for the District's capital projects, currently supporting GWR System from SAWPA, Bureau of Reclamation and the Department of Water Resources. Other grant funded

programs include State Water Resources Control Board grant for Chino Creek Wetlands, River Road Wetlands, and Santa Ana Watershed Association (SAWA) proposition 13 Arundo removal grant funding projects. Grant billing responsibilities also includes the necessary maintenance of the District's records in order to stay in compliance according to the applicable grant guidelines for each grant funding source.

- ◆ Providing budget versus actual variance analysis and reporting.
- ◆ Processing and calculating the District's Replenishment Assessment (RA)/Basin Equity Assessment (BEA) billings including any special water program billings. This includes ongoing monitoring and reading of all of the meters.
- ◆ Completing the financial information necessary for the District's annual Engineer's Report.
- ◆ Prepare and submit quarterly sales tax returns, and any other financial reporting or compliance reporting as needed as it relates to the District's finances.
- ◆ Working with external independent auditors to complete the District's annual fiscal year end audit, single audits (as necessary), and to also work with other outside agency auditors to fulfill any necessary audit requirements (such as MWD).
- ◆ Monitoring, managing, and forecasting and investing the District's cash on a regular daily basis to meet District's needs. This includes an annual review and update of the District's investment policy with the Board of Directors.
- ◆ Treasury operations – monitor, track and manage all of the District's Treasury operations, which include managing all debt payments for bond issuances, state loans and commercial paper. In addition, to maintain compliance with annual continuing disclosure requirements, update and renew all debt related administrative services such as bank letters of credit, rating agency monitoring, trustee administration and any other debt related maintenance services.
- ◆ Debt issuances – to initiate, support, analyze and complete the execution of the necessary debt financing needed for the District's capital projects. To review and study various financial scenarios in order to make recommendations to seek and obtain the most economical financings to support the District's capital projects
- ◆ To monitor, track and maintain the District's Reserve Funds and to update the District's reserve policy as necessary on a regular basis.
- ◆ Prepare and complete all quarterly reporting for District travel and expenses and professional services expenditures in a timely manner.

III Non-Core Activities

- ◆ Cash management for custodial NWRI funds
- ◆ Assist with implementation of the CMMS for the GWR System
- ◆ Children's Water Festival Accounting.

IV Group Goals for 2007-08

- ◆ Complete implementation of new water billings system (AMX) and document procedures and processes.
- ◆ Complete documentation of procedures for all accounting functions.
- ◆ Complete monthly closing of the general ledger on a timely basis, and complete all account reconciliations in a timely manner.
- ◆ Complete the annual independent audit and all necessary audit schedules more efficiently and in a timely manner in order to complete the year-end audit in a timely manner.
- ◆ Review and refine the District's overhead allocation methodology and to document the process for allocating overhead costs to various projects.
- ◆ Review the general ledger and all ledger accounts to ensure that revenues and expenses have been posted properly. This includes analyzing and researching any discrepancies and unusual variances.
- ◆ Evaluating ways to streamline processes and to continue to strengthen internal controls throughout the District, in accordance with "Best Practices".
- ◆ Financial modeling to analyze and support the District's annual RA/BEA rates established and approved by the Board on an annual basis. Ongoing forecasting and projections of revenue and expenses
- ◆ Provide project accounting analysis for all of the District's capital projects and work with all project managers to ensure that all project costs are properly accounted for and are within the project budget. This also helps to reduce the burden currently placed with each project manager to provide financial analysis support for their own projects.
- ◆ Record, monitor, and ensure proper accounting for the District's fixed assets and inventories on a monthly basis, including the proper accounting for depreciation and transferring assets from work in progress as projects are completed.
- ◆ Complete annual filings and certification of compliance with circular OMB-133 for all grant funding sources such as MWD, universities and other grant funding sources.
- ◆ Provide monthly reporting to the Board of Directors of the District's variable rate debt outstanding. This includes monthly tracking and analysis of all debt administration costs to support the District's debt program.

- ◆ Cross-training of staff in all accounting positions to provide better coverage, and to strengthen accounting internal accounting controls with the ability to “rotate” staff in certain functions.

V Activities on Hold Due to Insufficient Resources

Major activities that are not being implemented include:

- ◆ Administrating and updating the District’s Replacement and Refurbishment (R&R) model versus utilizing an outside consultant.
- ◆ Compiling a comprehensive report of all of the District’s assets, including all infrastructures, pipelines and inventory at all sites, and to properly classify all assets accordingly, to assist with the replacement and refurbishment (R&R) model and to ensure we are in compliance with all GASB 34 requirements.

VI Staff Addition Needed for FY 2007-2008

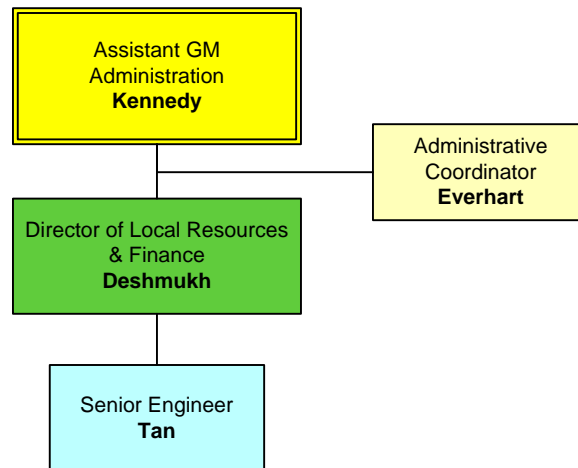
None

VII Future Issues

The Accounting and Finance departments will need to be prompt in supporting the water production group as they bring the GWR System online. This includes ensuring that the CMMS and FIS system works efficiently together.

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LOCAL RESOURCES



Summary Information

Existing Staff - 4 FTEs

- 1 – Assistant General Manager – Administration
- 1 – Director of Local Resources and Finance
- 1 – Senior Engineer
- 1 – Administrative Coordinator

Mission

Coordinate and manage water programs with the groundwater producers, manage the financial and water budgets of the District. Coordinate water purchases, basin management programs, OCWD rate structure, annual budget, and grant/loan activities with appropriate agencies (MWDOC, MWD, State Water Resources Control Board and others).

Key Issues for FY 2007-08

- ◆ Prepare FY 2008-09 Annual Budget
- ◆ Complete processing of annexation requests from Anaheim, Irvine Ranch Water District (IRWD), and Yorba Linda Water District (YLWD).
- ◆ Disburse State loan funds for the GWR System and begin the corresponding repayments to State loan as District's long-term debt services.
- ◆ District Act amendments, if approved by the Board.
- ◆ Possible acquisition of a new replacement well site for Golden State Water Company (GSWC) as part of the GWR System program and budget.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	177,168	277,752
Services and Supplies	800	5,450
Total	\$177,968	\$283,202

I FY 2007-08 Major New Initiatives/Programs

None

II Core Activities

The Local Resources Group is primarily responsible for developing the annual budget and managing various water programs with local groundwater producers. The core activities of the group are:

- ◆ Annual Budget preparation.
- ◆ Interacting, representing, and processing agreements with outside agencies such as the MWD, MWDOC, the local groundwater producers (i.e., water retailers), and others.
- ◆ Administering and/or developing special programs such as basin management programs with groundwater producers, processing annexations requests, and others.
- ◆ Preparing and administering the water budget and in-lieu water purchase program.
- ◆ Administer groundwater producers meetings.
- ◆ Providing long-term RA, BPP, and capital project projections.
- ◆ Coordinate and assist in response to the auditors of the Local Match State Revolving Fund Loan for the GWR System.
- ◆ Manage the MWD Conjunctive Use Storage and “Super In-Lieu” programs with MWD and MWDOC.
- ◆ Prepare and assist with the production of monthly in-lieu invoices and annual Basin Equity Assessment reports.
- ◆ Administer MWDOC/OCWD Joint Planning Committee meetings.

III Non-Core Activities

- ◆ In cooperation with MWDOC, prepare annual update to the District’s multi-hazard mitigation work plan in an effort to comply with FEMA requirements for an emergency grant application.
- ◆ Continue the management, outreach and innovative technologies programs to salinity issues and problems in the southern California region.

- ◆ Involved in the Orange County water use efficiency program for potential water saving applications within the District's service area.
- ◆ As a signatory of the California Urban Water Conservation Council, complete the Best Management Practices Report for the District.
- ◆ Serve on the Technical Advisory Committee of Demographic Research Center at California State University Fullerton.

IV Group Goals for FY 2007-08

Completion of Annexation Process - Upon completion of the EIR for the LTFP and annexations, the District may process annexation requests by the City of Anaheim, IRWD, and YLWD.

OCWD Grant Administration – Complete the addendum to the Final Report of Proposition 13 Grant for GWR System to be submitted to the State Water Resources Control Board as part of SAWPA's Southern California Integrated Watershed Program. Secure Proposition 50 grants and administer joint IEUA/OCWD grant for Chino Creek Wetlands. Complete annual filings and certification of compliance with circular OMB-133 for all grant funding sources such as MWD, universities and other grant funding sources.

GWR System Loan Administration – Prepare and provide the disbursement requests, loan repayment schedules, project performance certifications of completed projects and project financing reports for the Local Match State Revolving Fund Loan contract agreements of six construction projects of the GWR System.

GWR System Well Replacement Project – Conduct and manage the GSWC's production well replacement project as part of the GWR System. Efforts include search of potential project sites, acquisition of the candidate well site, environmental site assessment, site layout and CEQA compliance work.

Proposition 13 Grant Administration – River Road Wetlands quarterly project reporting and grant reimbursement with the State Water Resources Control Board through the Santa Ana Regional Water Quality Control Board.

CIP Review – Provide project analysis for all of the District's capital projects and work with all project managers to ensure that all project costs are properly accounted for and are within the project budget.

Rate Projections – Update the District's five-year RA and BPP projections.

Basin Management – Develop a program to shift coastal pumping inland and/or to construct new coastal wells inland.

V Activities on Hold Due to Insufficient Resources

Major activities that are not being implemented include:

- ◆ Water conservation activities and financial incentive program to further enhance water conservation efforts within the District's service area.

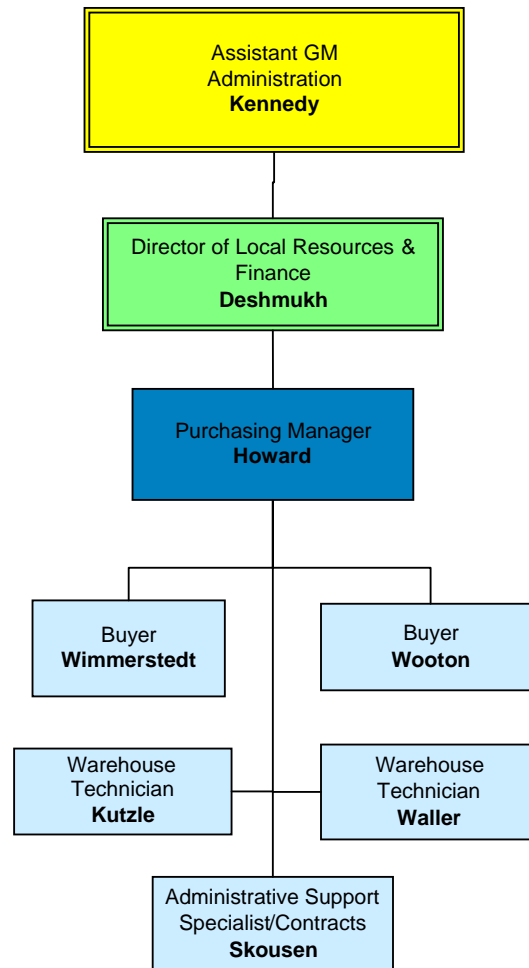
VI Staff Addition Needed for FY 2007-08

None.

VII Future Issues

None.

PURCHASING



Summary Information

Existing Staff - 6 FTEs

- 1 – Purchasing Manager
- 2 – Buyers
- 2 – Warehouse Technicians
- 1 – Administrative Support Specialist/Contracts

Mission

Purchase goods and services, maintain the warehouse and inventory prepare and administer the District's agreements, and identify and dispose of surplus equipment.

Key Issues for FY 2006-07

Complete coordination with Water Production on the Computerized Maintenance Management System (CMMS) to move the inventory function from the Financial Information System to the CMMS

Provide high level of service to the Water Production staff to accommodate the start up of the GWR System

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	515,613	543,627
Services and Supplies	36,400	49,000
Total	\$552,013	\$592,627

I FY 2006-07 Major New Initiatives/Programs

None

II Core Activities

The Purchasing Department is responsible for:

- ◆ Purchasing goods and services.
- ◆ Assisting all work groups with the issuance of request for proposals (RFP) for goods and services.
- ◆ Maintaining the warehouse and inventory.
- ◆ Preparing, processing, and administering District's public works contracts and professional services agreements.
- ◆ Maintaining filing system for purchase orders, contracts and professional service agreements.
- ◆ Identifying and disposing of surplus.
- ◆ Maintaining records for district vehicles and equipment, including registrations and licenses.
- ◆ Continuously locating new sources for procurement of materials, supplies and services.
- ◆ Prepare and issue requests for proposals for services to obtain the best pricing for quality service.
- ◆ Meet with each department monthly to discuss requests and problems to ensure quality service is being provided.
- ◆ Meet with the project managers to discuss contracts and professional services agreements in order to process the documents expeditiously,

- address the agreement language issues that arise, and give updates on status of the agreements/contracts, as needed.
- ◆ Offer classes to review procedures for electronic requisitions and professional services agreement requests to expedite the process.
 - ◆ Set up a class (conducted by JPIA) for project managers to learn more about the insurance requirements for the projects for which they are responsible.
 - ◆ Review and update warehouse procedures, purchase order procedures and professional services procedures and improve on receiving activities.
 - ◆ Check safety procedures for warehouse receiving and storing goods, including chemicals.
 - ◆ Complete a formal procedures manual to be submitted for approval.
 - ◆ Maintain list of district vehicles and assignees.
 - ◆ Assist departments for procurement of department special needs.

III Non-Core Activities

Non-core activities conducted by the Purchasing Department include:

- ◆ Meet with purchasing personnel from water agencies to share information on new vendors, pricing, procedures, etc.
- ◆ Attend seminars on procurement and warehousing for updated information to save money while still obtaining quality products.
- ◆ Continue to search for new and more effective ways to maintain the warehouse

IV Group Goals for 2007-08

- ◆ Complete a database program whereby project managers can view and print out a payment sheet for each contract. This will enable them to track their contract monies so they do not exceed the amount approved.
- ◆ Research the use of bar coding in the warehouse and determine the efficiency of this system.
- ◆ Continue finding new and improved warehouse practices.
- ◆ Assessment of all district vehicles – prepare a detailed report and analysis for the General Manager and senior management.

V Activities on Hold Due to Insufficient Resources

Major activities that are not being implemented include:

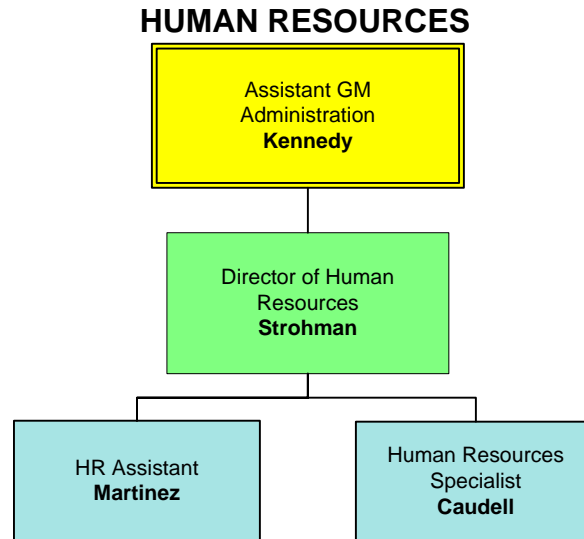
- ◆ Additional administrative assistance for (1) cross-training and backup for contract administration and (2) purchase order distribution and filing to allow time for buyers to solicit quotes on products and services for cost savings and quality.

VI Staff Addition Needed for FY 2007-08

None

VII Future Issues

Support for additional purchasing and warehouse workload created by the GWR System.



Summary Information

Existing Staff - 3 FTEs

- 1 – Director of Human Resources
- 1 – Human Resources Specialist
- 1 – Administrative Support Specialist/HR Assistant

Mission

Manage the District’s Human Resources program to integrate human value with water management objectives.

Key Issues for FY 2007-08

- ◆ Negotiations with employees represented by Orange County Employee Association (OCEA)
- ◆ Review of performance management program
- ◆ Required training program for managers and supervisor. This effort will be ongoing
- ◆ Work to improve the OCEA negotiation process

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	554,511	670,919
Services and Supplies	421,345	427,245
Total	\$975,856	\$1,098,164

I FY 2007-08 Major New Initiatives/Programs

Training will be a main focus for the department.

II Core Activities

The Human Resources Group is primarily responsible for the District programs that integrate human value with water management objectives.

Core activities include:

- ◆ Negotiations with OCEA
- ◆ District recruitment efforts - This includes placements, resume reviews, interviews, background investigation and coordinating pre-employment physicals and drug testing. Approximately 15 to 20 new employees need to be recruited each year to address normal turnover.
- ◆ Implement new programs to meet new mandates, such as the new regulations for domestic partner benefits.
- ◆ Policy development and management - Staff must monitor federal and state employment related laws and regulations to ensure the business practices and polices stay current and the District is fully compliant.
- ◆ Benefit Administration - Work with brokers to ensure competitive health insurance programs. Act as liaison on all benefit issues between employees and the carriers. Manage the District retirement programs.
- ◆ Retirement program administration.
- ◆ Compensation Administration - This includes market surveys and compensation policy development and administration.
- ◆ Mandated Programs - This includes programs mandated by federal and state guidelines. Unemployment insurance benefit program, Department of Transportation drug and alcohol program, training programs, among others.
- ◆ Employee Relations - This includes employee discipline, employee documentation, employee counseling, and representing the District at employment related hearings.
- ◆ General Personnel Administration - This includes keeping all required documentation on all employees, filing appropriate federal and state reports. This also includes participation in surveys and special reports as requested by managers.
- ◆ Employee moral programs such as annual holiday potluck, Employee of the Month and Year Program, and Employee Recognition Program.

III Non-Core Activities

None

IV Group Goals for 2007-08

- ◆ Negotiations with employees represented by OCEA will begin in spring 2007

- ◆ Review of performance management program
- ◆ Continue to develop and implement a required training program for supervisors and staff to meet legal requirements.
- ◆ Development and implementation of a Supervisor Manual.
- ◆ “In-depth” review of benefits plans and how to augment and/or cut costs but retain good benefit levels
- ◆ Retirement plan review meetings for all employees. This is a fiduciary responsibility and includes training on funds and plan options. This should be annual
- ◆ Comprehensive employee and manager training program
- ◆ Employee Wellness Program
- ◆ Update Leave of Absence procedures and documents

V Activities on Hold Due to Insufficient Resources

Major activities that are not being implemented include:

- ◆ Load historical payroll and employment data into new Human Resources system
- ◆ New Hire Program Modifications which will include new procedures
- ◆ Equal Employment Opportunity Program Review and Update

VI Staff Addition Needed for FY 2007-08

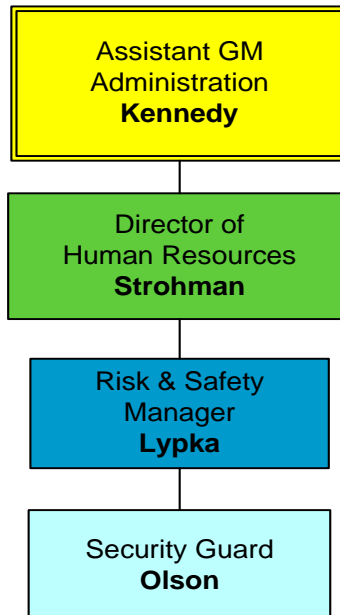
None

VII Future Issues

Increased level of state and federal regulations and laws continue to affect the amount of work placed on the Human Resources group.

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RISK MANAGEMENT AND SAFETY



Summary Information

Existing Staff - 2 FTEs

- 1 – Risk and Safety Manager
- 1 – Security Guard

Mission

Implement the District's risk management program and the District's safety and security programs.

Key Issues for FY 2007-08

- ◆ Work with Operations staff to transition GWR System facility from construction to operations (personal protective equipment, training and worksite analysis).
- ◆ Work with the GWR System contractors to begin implementing the access control and security camera systems.
- ◆ Costs in FY 2007-08 are estimated to be higher than in FY 2006-07 due to increased insurance costs (more property covered).

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	174,096	189,966
Services and Supplies	557,450	867,950
Total	\$731,546	\$1,057,916

I FY 2007-08 Major New Initiatives/Programs

GWR System completion (see above)

II Core Activities

The Risk Management & Safety group is primarily responsible for the District's Safety program, risk management (which includes all aspects of insurance) and the security program.

Core activities include:

- ◆ Manage regulatory safety training for 207 employees.
- ◆ Prepare required Fire Department Business plans (Anaheim and Fountain Valley), which document on-site hazardous materials.
- ◆ Conduct Ergonomic assessments for staff to reduce injuries and increase productivity.
- ◆ Administer and/or develop safety/risk policies (Universal Waste, lab eyewear program, boater safety, claims administration policy, OCWD tour/visitor protocol).
- ◆ Maintain regulatory compliance programs such as the Emergency Response Plan (ERP) and the Safety Manual (IIPP).
- ◆ Manage insurance coverage for District (general liability, workers' compensation (W/C), property, etc.).
- ◆ Closely monitor the W/C program, working closely with employee, health care provider and insurance company alike.
- ◆ Assign appropriate insurance to District activities and review insurance certificates for proper coverage.
- ◆ Monitor regulatory changes brought about by legislation.
- ◆ Manage claims (W/C, auto, property, etc).
- ◆ Procure needed safety/security supplies/equipment.
- ◆ Interact with work groups/managers and outside agencies such as MWDOC, County of Orange, Fire Departments, Police Departments, Field Headquarters (FHQ) staff, OCWD Engineers, GWR System project managers, OCSD planning committee and OCWD Safety committee.
- ◆ Oversee the Hazardous Waste program.

- ◆ Supervise security guard activities at FHQ and Prado.
- ◆ Maintain operation of access control system, security cameras and alarm coverage.
- ◆ Interact with General Counsel and Executive Management on District claims.
- ◆ Review visitor/tour requests received by the Public Relations Department.

III Non-Core Activities

Non-core activities (secondary priority compared to core activities) conducted by the Risk Management & Safety group include:

- ◆ Seeking outside grants.
- ◆ Water Emergency Response of Orange County (WEROC) Administrative Board.

IV Group Goals for 2007-08

OCWD Parking Permit system – Develop a unified, easily identifiable parking sticker to identify District and employee vehicles. Maintain this information in the employee database to help provide a secure site.

Develop a new visitor badge system that ties in with the sign-in book at the reception desk.

Implement the various security related systems for GWR System – Work with the various contractors to implement the access control and security camera systems.

Annual Business Plan updates – Hazardous Materials updates for Anaheim and Fountain Valley Fire Departments.

Insurance Certificate Review – Research outsourcing the insurance certificate review process, especially for those certificates received that are not part of a newly approved project.

V Activities on Hold Due to Insufficient Resources

Major activities that are not being implemented include:

- ◆ Effectively utilize the existing Drive-Cam system. The Drive Cam system is a camera system mounted in numerous District vehicles that monitors driving behavior. Currently it is only utilized on a post accident basis. The real effectiveness is reviewing the data on a regular basis to be proactive by identifying and retraining poor driving behavior prior to an accident.
- ◆ Follow up on current inspection programs.
- ◆ Assist in evaluating potential vendors by reviewing their safety record, thereby reducing our risk.
- ◆ Develop alternatives to assist in managing the Material Safety Data Sheet (MSDS) program. The MSDS program is regulated by the State of California and enforced by the Fountain Valley Fire Department. The MSDS program

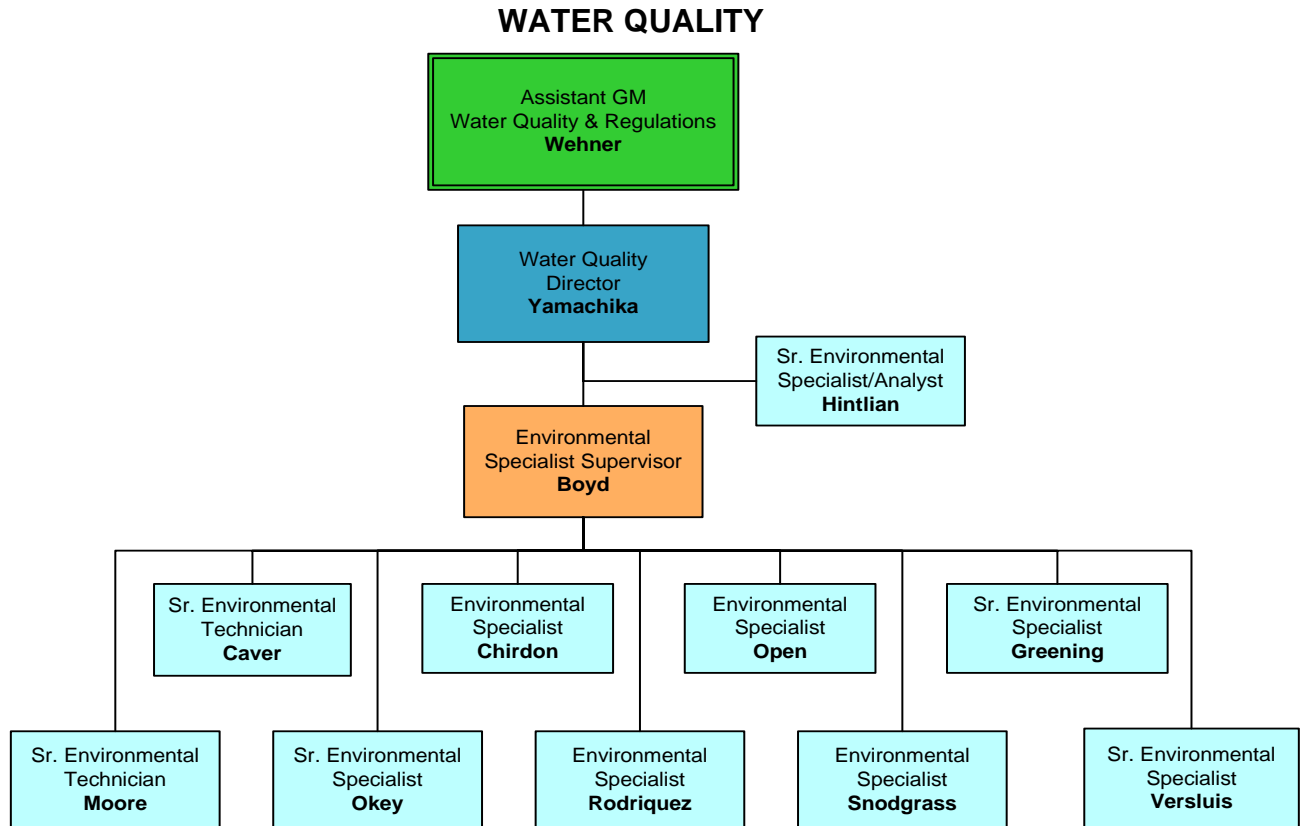
- has become burdensome on staff to collect manuals prior to exiting during an evacuation.
- ◆ Be an active participant in the Orange County Operational Area and other professional organizations monthly meetings to stay abreast of changes and for new ideas.
 - ◆ Generate safety programs that are proactive in nature to reduce safety/risk exposure.
 - ◆ Develop and distribute an on-going bi-monthly safety training topic, District wide.

VI Staff Addition Needed for FY 2007-08

None

VII Future Issues

- ◆ Costs for Property Insurance are estimated to be higher due to more property being covered as the GWR System construction project is completed and comes online.
- ◆ Costs for W/C insurance are estimated to rise based primarily on the number of new hires (and the resultant payroll) to operate the new plant.
- ◆ The impact on other areas of the Risk and Safety Department due to the new GWR System AWPf and the corresponding increase in employees has yet to be determined, but will be monitored closely.



Summary Information

Existing Staff - 12 FTEs

- 1 – Water Quality Director
- 1 – Environmental Specialist Supervisor
- 1 – Senior Environmental Specialist/Analyst/Administrative Assistant
- 3 – Senior Environmental Specialists
- 2 – Senior Environmental Technicians
- 4 – Environmental Specialists

Mission

Implement water quality programs to protect and evaluate basin conditions.

Key Issues for FY 2007- 08

- ◆ GWR System Sampling Requirements: In fall 2007, the GWR System will be on-line and delivering high-quality treated water, through a 13-mile pipeline from the newly commissioned GWR System AWP in Fountain Valley to

- Kraemer Basin, for recharge. Use of the GWR System water for recharge triggers additional new compliance monitoring requirements at twelve monitoring wells located at, and downgradient, of Kraemer Basin. Water quality monitoring includes (1) monitoring well locations in the Talbert Barrier area, treated GWRs product and diluent waters, (2) new compliance monitoring activities at Kraemer Basin and monitoring wells along the groundwater flow path toward the first drinking water well, and (3) evaluating water quality for emerging contaminants/trace organics, newly adopted federal Unregulated Contaminant Monitoring Rule Phase 2 (UCMR2) chemicals, and selected microbial and pharmaceutical analytes.
- ◆ Federal Unregulated Contaminant Monitoring Rule Phase 2 (UCMR2): The Environmental Protection Agency (EPA) adopted the second phase of the unregulated contaminant monitoring rule in December 2006, with compliance monitoring to occur within a 12 month period during 2008-2010. Twenty-five chemicals, using five new methods, will analyzed for the assessment and screening monitoring program. EPA will designate the calendar year for each system to perform testing with samples to be collected at the entry point into the distribution system. Additional sampling for N-nitrosodimethylamine (NDMA) is required at the distribution system maximum residence time to assess the occurrence of NDMA as a disinfection byproduct. Water quality results will be reported into EPA's national database using a unique sample station identification number. Staff will be coordinating with groundwater producers, EPA and California Department of Health Services (DHS) to prepare sampling locations and secure sampling dates. WQ staff will be entering system specific information into the federal database to report UCMR2 results. Challenges will be coordinating UCMR2 sampling with other required compliance sampling dates that do not fall within the UCMR2 timeframe and coordinating/managing the workload with the OCWD Laboratory considering all other compliance and basinwide monitoring programs.
 - ◆ Planning and Coordinating Water Quality/Laboratory Workload: Several challenges facing the department to manage, track, schedule and coordinate the compliance and non-compliance monitoring activities are dependent on Laboratory resources, coming on-line of GWR System, UCMR2 sampling dates, and new laboratory building construction timelines. The efficiency of the Water Quality field activities will be dependent on Laboratory sample load capacity, GWR System priority sampling requirements, meeting UCMR2 designated schedules, and potential impacts associated with moving into the new Laboratory building.
 - ◆ MTBE and VOC Litigation: Provide continued data records and field support to attorneys as needed for the MTBE and volatile organic compounds (VOC) litigation.
 - ◆ On-going Monitoring Activities for New Programs Initiated FY 2006-07: Continued field support for water quality sample collection and data review for the following District projects, investigations, and compliance monitoring:

- Santiago Pits Flow Path Evaluation: Baseline water quality monitoring activities will continue at surface water locations in Bond and Blue Diamond pits and at six zones in existing monitoring wells located downgradient of Santiago Pits to identify groundwater flow paths and travel times using changes in concentrations of general minerals (i.e., chloride, sulfate, total dissolved solids) of water recharged in Santiago Pits. This effort implements recommendations of NWRI's Scientific Advisory Panel (SAP) for the Santa Ana River Water Quality Health (SARWQH) Study made in 2004 to characterize water quality downgradient of the Santiago Pits.
- Fletcher Basin: Monitor groundwater to assess the effectiveness of sand filtration of SAR water and collection system to recharge a shallow well in Fletcher Basin. Evaluate water quality data to (1) assess the effectiveness of sand filtration to reduce physical and biological materials and (2) assess water quality of mixing groundwater and SAR water. Phase I testing of the sand filtration beds with SAR water continues 2006-07 and Phase 2 testing of the recharge well with filtered SAR water is planned to begin in spring 2007/summer 2008, pending DHS approval. Results will be used to assess the feasibility of development of a full-scale project using a larger area of Fletcher Basin, subject to Board approval (will require Engineer's Report, CEQA review, and regulatory approval).
- Irvine Desalter Project: The desalter will be coming on-line in early 2007 and includes five new drinking water wells requiring drinking water compliance monitoring for inorganics, organics, radioactivity and unregulated chemicals. Monitoring tasks will include quarterly testing of three production wells for the Principal Aquifer Treatment Plant project and periodically testing the quality of injected water from the Shallow Groundwater cleanup project (former Marine Corps Air Station El Toro trichloroethylene [TCE] contamination).

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	1,101,386	1,138,906
Services and Supplies	463,489	823,212
Total	\$1,564,875	\$1,962,118

I FY 2007-08 Potential Major New Initiatives/Programs

- ◆ Field support and resources may be needed to monitor water quality from existing locations or new monitoring wells to be constructed for the projects listed below, pending Board approval. These are listed as potential programs/projects for planning projections only.

- South Basin Groundwater Protection Project - Provide field support to monitor water quality from future proposed monitoring wells in the southeast Santa Ana area. Several multi-depth and single point monitoring wells may be constructed to aid in delineating the extent of groundwater contamination associated with the contaminants detected in an IRWD potable supply well
- Mid-Basin Injection Well Feasibility – Provide field resources to monitor water quality from two multi-depth monitoring wells in Santa Ana to provide information on groundwater travel times for potential future injection wells and downgradient production wells. Monitoring wells may serve as future permit compliance locations if project receives regulatory approval.
- North Basin Groundwater Protection Project – Implement monitoring activities at five new extraction and six new monitoring wells for the cleanup of volatile organic contaminants in the North Basin area of the District.
- ◆ GWR System Monitoring/Golden State Water Company Well Tracer Study – A tracer study will be performed to estimate the recharge water travel time from Kraemer Basin to the downgradient Golden State Water Company (GSWC) drinking water well. The tracer study will be conducted to assess groundwater flow and travel times with the concurrent use of the new La Jolla basin recharge facility.
- ◆ GWR System Storm Water Permit – Following completion of the GWR System project, an Industrial Storm Water permit will be re-issued for the treatment facility to comply with EPA’s National Pollutant Discharge Elimination System (NPDES) permit covering storm water management, discharges, monitoring and reporting requirements. During GWR System construction, the storm water compliance activities were covered by a general Storm Water Construction permit which will be terminated at the end of construction.
- ◆ Coordinate with the Laboratory to assess resource needs to implement the upcoming federal UCMR2 program for drinking water wells and GWR System compliance locations, and consider options, if necessary.

II Core Activities

The Water Quality Group is primarily responsible for (1) implementing water quality monitoring programs to protect and evaluate basin conditions, including emerging contaminants, (2) providing technical and field support for compliance programs, District projects, and research investigations, (3) disseminating water quality information and assisting with expansion and update of the WRMS database (historic and new water quality data), (4) reviewing and commenting on regulatory and compliance issues, and (5) providing support to ensure that the District complies with regulations pertaining to the Safe Drinking Water Act and Clean Water Act amendments.

Core activities include:

- ◆ Implementing surface and groundwater quality monitoring programs for (1) compliance with permits, mandated environmental and drinking water regulations, (2) District projects, and (3) evaluating the ambient quality of the groundwater basin.
- ◆ Scheduling and sampling groundwater producer wells for compliance with state/federal drinking water regulations for regulated and unregulated chemicals; reviewing, approving and reporting chemical data electronically to the state on behalf of the groundwater producers; assisting with data compilation for the groundwater producers' Annual Consumer Confidence Report, Public Health Goals Report, and the Annual District Engineer's Report.
- ◆ Implementing basinwide monitoring for constituents proposed for regulation and emerging chemicals of concern to assess occurrence and distribution within the Orange County Groundwater Basin and potential impact to the groundwater producers and OCWD.
- ◆ Overseeing and performing the compliance monitoring activities at groundwater monitoring wells specified in the GWR System permit, including waters used for blending, ultraviolet (UV) product water, and injected water; coordinating with contract labs for selected analyses not performed by OCWD's Main Laboratory (i.e., tentatively identified compounds [TIC] analysis, asbestos, dioxin, radioactivity, etc.). Monitoring activities include both Forebay and Talbert Barrier locations.
- ◆ Implementing a surface and groundwater quality monitoring program to assure the continued safety of the SAR as source water for groundwater replenishment.
- ◆ Ensuring compliance with the District's NPDES general *de minimus* dewatering permit and aquatic pesticide permit, including sampling, treatment of purged groundwater, analysis, and monthly reporting.
- ◆ Reviewing and approving new water quality data for the District's WRMS database; compiling and analyzing data for reports and internal staff, the Board, and groundwater producers.
- ◆ Coordinating annually with the Regional Water Quality Control Board (RWQCB) with monitoring activities at Prado Dam to assess compliance with Basin Plan objectives for the SAR; assisting with other water quality issues, data gathering and performing splits samples at selected sites having documented releases that have contaminated the underlying groundwater.
- ◆ Performing semi-annual water quality monitoring of coastal wells to assess the extent of seawater intrusion; coordinating with Hydrogeology on reviewing and revising program as new data become available.
- ◆ Assisting with field data collection for the semi-annual basinwide water level monitoring program to identify threats to the basin (i.e., overdraft, seawater

- intrusion, etc.) and provide groundwater elevations of basin aquifers measured six times annually.
- ◆ Fulfilling water quality and water resources information requests from the public, groundwater producers, and regulatory agencies; responding to special data requests for external site investigations and litigations.
 - ◆ Tracking, reviewing and addressing new emerging contaminants of concern; evaluating basin water quality conditions for emerging contaminants, assessing management and response strategies, coordinating with Public Affairs and groundwater producers.
 - ◆ Preparing materials and presentations on water quality issues; participating on advisory committees specific to water quality issues of concern to OCWD and groundwater producers.
 - ◆ Reviewing and commenting on proposed regulations such as federal and state maximum contaminant levels (MCLs), public health goals, unregulated chemicals, NPDES permits, emergency regulations, etc.
 - ◆ Responding to and coordinating with regulatory agencies on emergencies and hazardous materials spills that may affect groundwater quality.
 - ◆ Assisting District staff with NPDES dewatering *de minimus* permit issues, as needed.
 - ◆ Assisting with regulatory compliance reports and other water quality reports prepared by other groups.

III Non-Core Activities

Non-core activities (secondary priority compared to core activities) conducted by the Water Quality Group include:

- ◆ Serving on water quality and project advisory committees for AWWARF, ACWA, MWD, WEROC, etc.
- ◆ Providing information and current status on water quality and regulatory issues to groundwater producers, other agencies, and committees.
- ◆ Assisting other water agencies in addressing water quality issues, emerging contaminants, and tracking and commenting on proposed regulations.

IV Group Goals for 2007-08

Administer Water Quality Monitoring Programs: Ensure samples are collected and analyzed for compliance with mandated drinking water quality regulations and regulatory permits, District projects (GWRS/GSWC Well/La Jolla Basin/Kraemer Basin tracer study, Santiago Basin, colored water, etc.), and evaluating the quality of the basin (e.g., seawater intrusion in coastal areas); evaluate new emerging chemicals of concern; coordinate with the Laboratory to implement new compliance monitoring requirements for drinking water sources, newly installed GWR System compliance monitoring locations, and implementing activities for the upcoming federal UCMR2 program; continue to coordinate with

the Laboratory to ensure maximum use of resources based on laboratory capacity for increased efficiency.

Data Management Activities: Ensure new data are reviewed with high quality assurance and approved into the WRMS database for end users; submit compliance data electronically to the state DHS database; prepare annual water quality schedules for DHS and groundwater producers; prepare annual data summaries to groundwater producers for the Annual Consumer Confidence Report; prepare annual water quality data summary for OCWD's Engineer's Reports; track and periodically review the newly developed DHS compliance monitoring website for groundwater producer wells to ensure site is accurate and complete.

Water Quality Regulatory Activities: Review and comment on the upcoming DHS regulatory MCL rules for arsenic and perchlorate, evaluate potential impacts to groundwater basin and coordinate with groundwater producers; continue to track and comment on proposed regulations and public health goals and provide testimony, as needed; evaluate resources and coordinating tasks for EPA's Unregulated Contaminant Monitoring Rule Phase 2 (UCMR2).

Implement the Santa Ana River Monitoring Program: Continue to implement the revised, long-term Santa Ana River Monitoring Program in joint effort with Regulatory Affairs and Planning and Watershed Management Groups. Manage and provide oversight to ensure monitoring activities are completed based on recommendations of the NWRI convened SAR Scientific Advisory Panel.

Bolsa/Sunset Gap Seawater Intrusion Monitoring: Implement the seawater intrusion program in the Bolsa/Sunset Gap as recommended by the Hydrogeology Group and in coordination with coastal groundwater producers.

Water Quality Protection: Activities include tracking, reviewing and addressing new chemicals of concern, evaluating basin conditions or source waters potentially used for groundwater replenishment (e.g., perchlorate in the SAR); monitor and review media and research reports; coordinate with regulatory agencies on upcoming new water quality issues; provide field water quality monitoring support for Board approved projects that authorize construction of new monitoring wells for District projects and investigations (e.g., South Basin Groundwater Protection project).

New Water Sources: Assist with field monitoring activities to sample ambient water quality to provide information to estimate groundwater travel times between potential future injection wells and downgradient production wells for the future proposed GWR System Mid-Basin Injection Well feasibility study; implement groundwater monitoring activities for the Fletcher Basin feasibility study, as needed; provide compliance testing for newly constructed groundwater producers drinking water wells.

Improved Water Quality Monitoring Efficiency: This activity includes:

- ◆ Assess new methods and strategies to increase field productivity without compromising quality of sample collection;

- ◆ Improve single operator sampling equipment and procedures; develop standard operating procedures and implement process to increase efficiency and productivity;
- ◆ Continue with department-wide cross-training programs;
- ◆ Investigate restructuring specific monitoring programs for broader coverage and increased efficiency;
- ◆ Continue to research and improve equipment decontamination procedures to address higher concentrations of VOCs and chemicals such as 1,4-dioxane and perchlorate, which require treatment of purged water prior to discharge. New decontamination system configurations and types are routinely evaluated to improve efficiency and productivity to reduce the time needed to clean equipment between well locations. Continue to evaluate and prioritize locations for dedicated submersible pumps in “VOC hot” locations to avoid the need to clean equipment at these locations, thereby, saving significant time. Pumped groundwater at locations containing constituents exceeding a regulatory or notification level is also treated by the mobile carbon unit prior to discharge to the street or tributary to surface water to comply with OCWD’s NPDES *de minimus* general discharge permit
- ◆ Research new technologies for automating field data collection and scheduling tasks.

V Activities on Hold Due to Insufficient Resources

Major activities that are reduced, not being implemented or conducted include:

- ◆ Resume water quality monitoring programs to sampling frequencies that are necessary to provide information to meet the water quality and protection goals of the District:
 - Stormwater monitoring of the SAR and tributaries to OCWD’s recharge facilities
 - Non-point source water quality monitoring on the river and tributaries near our recharge facilities
- ◆ Implement a more stringent quality assurance data review protocol to include data analysis and tracking of water quality chemicals of concern to identify areas of developing water quality problems (i.e., increase in color, seawater intrusion, volatile organics, SAR monitoring, upper watershed, etc.); provide timely notification to OCWD program managers and stakeholders; prepare semi-annual reports, as needed; refine monitoring frequencies based on new information.
- ◆ Quarterly or monthly monitoring water quality of upper SAR watershed wastewater discharges; monitoring currently performed once per year; investigate water quality issues originating from the upper watershed that may potentially affect the Orange County groundwater basin (e.g., high perchlorate levels in the river).

- ◆ Develop and prepare an annual Water Quality report of the basin (deferred for several years) – strive to prepare initial report in near future.
- ◆ Complete cross-training of the basinwide water quality and water level monitoring programs to increase department coverage and educate new staff on the history of monitoring sites and programs.
- ◆ Provide enhanced staff development (internal and external) and mentoring to take on higher-level duties and responsibilities; enhance and broadening cross-training to enhance flexibility and ability to respond to changing conditions; reduce turnover related to lack of development.
- ◆ Active attendance and involvement with water associations and agencies on water quality issues relevant to OCWD and groundwater producers.

VI Staff Addition Needed for FY 2007-08

None

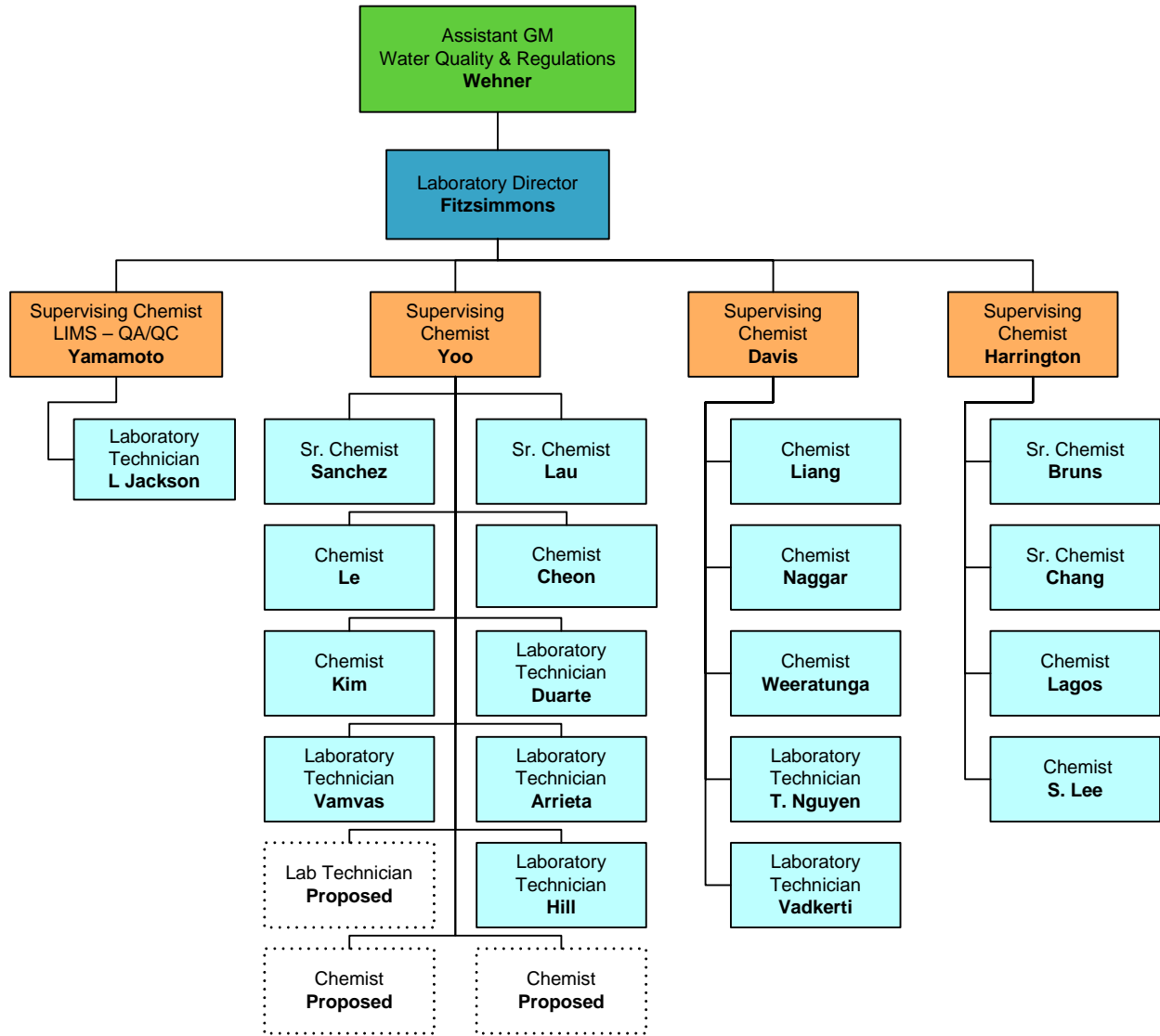
VII Future Issues

In the next two to three years, issues the District will need to consider the following issues and the associated resources and costs.

- ◆ Purchase new and more efficient sampling equipment to improve productivity with field monitoring activities, treatment of purged groundwater, and replace aging vehicles, as needed.
- ◆ Continue to install dedicated pumps in selected areas of the north Orange County groundwater basin containing high level of volatile organic compounds and other pollutants to increase field productivity (reduce sampling and decontamination time at a well) and avoid cross-contamination and potentially reporting false positives (multiyear program).
- ◆ Implementation of UCMR2 from 2008 to 2010.
- ◆ Possible resource needs pending outcome of MTBE litigation
- ◆ Adjusting to new and increasing regulations in monitoring.

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ADVANCED WATER QUALITY ASSURANCE LABORATORY



Summary information

Existing Staff – 24 FTEs

- 1 – Laboratory Director
- 1 – Supervising Chemist LIMS - QA/QC
- 3 – Supervising Chemists
- 4 – Senior Chemists
- 8 – Chemists
- 7 – Laboratory Technicians

Proposed Staff Increase – 3 FTEs

- 1 – Laboratory Technician
- 2 – Chemists

Mission

Provide cost-effective analytical services to assess water quality and comply with the District's permit conditions.

Key Issues for 2007-08

- ◆ Commissioning of the 70 mgd GWR System – As GWR System construction begins its final stages; monitoring plans are being actively developed for analytical information required during the commissioning phase of this project. This commissioning will require intense focused analytical support, which will investigate the optimal operating conditions of each major element of the treatment train – microfiltration (MF), reverse osmosis (RO), and UV. This will require increased support resources from the laboratory, and should impact both sections of the main laboratory with increased workloads. Commissioning will require the generation of highly reliable data, which can be quickly processed and turned-around to the end-user. The timing of the GWR System commissioning support will coincide with several critical laboratory events, including construction of the new lab facility and the monitoring of the UCMR2 program.
- ◆ GWR System Operational Support – Currently the GWR System is projected to come on-line in the fall of 2007. This will provide a massive influx of monitoring samples and data permit requirements. In our current laboratory facility, we're limited in specific areas of support, especially within sample extraction and processing functions. With these limitations, monitoring program requirements could easily overwhelm our support structure. It is critical to effectively plan and *schedule* workloads generated by this program, and provide a balance between demands and staff resources. In the initial phases of the project, these data/information requirements will require fast turnaround times. Additional monitoring wells have been brought on-line, as well as proposed future sampling locations near the final recharge areas. It is essential to our department that we provide additional staff resource support when and where needed.
- ◆ Federal Unregulated Contaminant Monitoring Rule Phase 2 (UCMR2) – The second phase of the unregulated contaminant monitoring rule program requires monitoring for 25 new target chemicals using five analytical EPA methods. The UCMR2 program is projected to begin monitoring during January 2008. We continue to gear up our support for this program; by actively seeking certification and purchasing needed analytical systems. To date, we're on track with our initial demonstration of competency (IDC) and should be certified and ready to completely support this program with cost effective in-house monitoring. The federally mandated program generates the greatest impact to the organic section of the main laboratory, and continues to address the required need to expand target listings and method capabilities.

- ◆ Emerging Target - Method Development – “Emerging Targets of Concern” within water recycling plants continues to be a major problem confronting our industry. There has been an increased focus on this issue within DHS. The District has tried to stay current with this high profile requirement; by updating the laboratory with several new analytical systems (LC/MS/MS, GC/MS, etc.). While the new equipment offers greater sensitivity and the ability to resolve difficult questions about emerging target compounds, it has also provided a concern on stretching staff resources to a limit of support. We have brought on-line several new methods of analysis over just the past few years alone. The SAR monitoring program also requires specific focus on emerging targets of concern, requesting a support scope from pharmaceuticals to formation potential analyses. These issues require a coordinated approach throughout the District, interaction with monitoring and activities of other agencies (OCSD, DHS, MWD, and EPA).
- ◆ New Analytical Compliance Laboratory - Facility Development – As we begin the process of actually building a new laboratory facility, additional feedback and input will be requested of our staff. This requires time to develop design reviews and facility programming. Also during this budget cycle, we’ll need to develop detailed plans on how we move the needed equipment into this new facility, while managing to stay on-line with our support structure. Our staff members are motivated to this effort; the most difficult requirement will be finding staff time to support this requirement.
- ◆ Laboratory Cost Containment – Laboratory staff continue to address operating costs as best we can, however expenses continue to increase. Across all of our vendors, we’re seeing a major increase in materials and applied support costs. The issue of effectively managing the sample workload will be a critical requirement to keep expenditures down. The effort of the laboratory to actively use batch-processing techniques has helped reduce impacts. However, this effort must be expanded and improved. We should use better tools and processes when ordering materials. We must find the time to work more closely with our larger vendors to streamline this process, and use available technology to reduce District costs.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	2,054,101	2,490,822
Services and Supplies	712,700	843,200
Total	\$2,766,801	\$3,334,022

I FY 2007-08 Major New Initiatives/Programs

Analytical support of several new monitoring programs and projects will be initiated during this budget year. A limited list is as follows:

- ◆ UCMR Phase 2 monitoring support – as described above - Monitoring is scheduled to begin January of 2008.
- ◆ Commissioning of the GWR System – focused monitoring support.
- ◆ Operational, Compliance, and Permit monitoring of the GWR System.
- ◆ Monitoring support of new production and monitoring wells within the basin.

II Core Activities

The Main Laboratory provides cost-effective analytical services to District departments and programs requiring water quality information. The laboratory is a service-oriented department, supporting groups such as: Water Quality, Operations, Basin Planning and Management, Engineering, and Research. Laboratory services provide critical analytical information, needed to make timely accurate decisions, for regulatory requirements as well as the direction and support of District policies. Our facility is designed as a compliance-monitoring laboratory certified with the State of California.

Basic core laboratory activities include:

- ◆ Support of long-term basinwide monitoring programs, to ensure the protection of quality in our local groundwater basin. Protection of the basin and the SAR through analytical monitoring.
- ◆ Support and direction of the GWR System activities, for both permitted requirements and operational improvements.
- ◆ Support and direction of emerging contaminants and water quality issues, to address both plant and basinwide concerns.
- ◆ Procurement of needed analytical State Certifications with the DHS, as well as development of any needed EPA methodology.
- ◆ Support and direction of the Green Acres Project (GAP) facility for both permit requirements and operational feedbacks.
- ◆ Support and direction of the Talbert Barrier, a DHS mandated monitoring requirement for the District.
- ◆ Support investigations in both treatment research and in-house analytical methodologies. Provide solutions to improve cost effectiveness - both within plant processes as well as with laboratory procedures.
- ◆ Projection and development of the new lab facility requirements.

III Non-Core Activities

The Main Laboratory is a core activity department without many non-required duties. This has been based on years of natural growth in workload, which has caused all non-

essential tasks to be dropped based on priority. Non-core activities (secondary priority compared to core activities) conducted by the Main Laboratory group include:

- ◆ Support of research and monitoring programs not directly benefiting District or laboratory processes.
- ◆ Support of public relations tours and NWRI investigations and studies.
- ◆ Support of emerging water related issues – Department of Homeland Security and CAMALnet support (see V.).

IV Group Goals for 2007-08

GWR System Operational & Compliance Support – As the GWR System comes on-line, we'll begin to see increased requirements for this program's performance analysis support. The RO units and UV lamp systems will require intensive support analysis as they're installed and commissioned; initial performance support studies are found to be intensive sampling programs, which usually require quick turnaround times for data. As we have increased our laboratory capability, by bringing on-line new targets, analytical systems, and methods, we have stretched the limits of our staff resources to keep up with this requirement. Within this budget cycle, we're requesting additional staff positions in order to cover the increased workload caused by the GWR System – which has the potential to increase our current workload by over 20 percent. We need to establish some "headroom" within our department so that we can remain flexible with support needs, and address the major analytical questions that are a challenge to this agency.

UCMR2 – Monitoring Support Development – To date, we feel we're on track with the process of preparing the District to fully support the UCMR2 monitoring program. We have completed most of the method application process with the EPA, and have just completed the performance testing for four of the five required new methods of analysis in support of this program. We have acquired the needed LC/MS/MS instrumentation, required of this program. This system will also be used within our efforts to monitor pharmaceuticals and other endocrine disruptors (EDCs) for GWR System and basin monitoring requirements. This one analytical system will cover a major load of methods needed to support the issue of emerging targets of concern. If we detect a new target (like an NDMA or 1,4-dioxane), this will easily overextend our ability to support this monitoring program. As we continue to prepare ourselves for UCMR2, we will fine tune (optimize) and address methods and processes to successfully support this critical monitoring program. Laboratory staff members have done an excellent job in positioning the District for full UCMR2 support.

Emerging Target Method Development – While regulatory focus continues to come from DHS, there have been increased research and data in the field of analysis that has cast a shadow on the quality of recycled water. The scope of this issue will continue to increase, with additional emphasis being placed on the issue of target analysis by Department of Homeland Security ("the other DHS"), CAMALnet, and other agencies (see V. - Activities on Hold Due to Insufficient

Resources). The issue of addressing new targets of concern has always been a function of the District. Many of the more common target compounds of today were at one time the new and cutting edge issue of concern (TCE, NDMA, Cr VI, Perchlorate, MTBE, etc.). However, with the expansion of programs and projects into a limited lab facility, with a staff challenged department, we have lost our flexibility to address these issues.

Development of Automated LIMS QA/QC Reports – The Laboratory Information Management System (LIMS) continues to be adaptable to new and changing data report requirements. During this budget cycle, we would like to investigate the ability of this system to provide reports to operational managers of GWR System - and other programs. We feel that the system could provide immediate data in any format, and will strengthen the understanding of how the GWR System can be optimized and adjusted with timely analytical information. LIMS has the ability to provide these reports directly through the District's e-mail system, and can be configured to the frequency (or target) required by the end-user. This is a very powerful tool for the District, and has not been fully utilized outside of the laboratory environment.

Improved Data Turnaround and Quality Assurance and Quality Control (QA/QC) – We continue to make significant improvements within our QA/QC program and the generation of highly reliable data. We continue to see much better turnaround times for data within both sections of the lab. We have improved our utilization of LIMS as a tool to insure that data generated from our department meets the quality objectives of the specific monitoring program. As the UCMR2 program begins monitoring, new additional reporting downloads and QA/QC reports will be required to fully support this effort.

Operational Cost Reductions – A major priority for our laboratory is to remain a very cost efficient department. To achieve this goal the laboratory must monitor processes and expenses, so that we can continue to develop ways to reduce operating costs for the District. Laboratory staff members must be refocused in this area, and track operational costs as part of their normal work function. This process will require more information and dialogue to be developed with our purchasing department, and our larger support vendors. To help reduce operating costs we must work closely with our vendors to utilize the bulk ordering of supplies and reagents. We must address expenses on a method-by-method review so that we can improve the quality of data as well as overall costs.

Overall Staff Support – The laboratory staff will be severely impacted by several new monitoring programs and the expected increase in sample loads required to support the GWR System. We have stretched our staff support structure to the limit, and if we do not provide additional support within this budget cycle, we cannot be expected to meet the demands being requested by these programs. Staff resources have limited laboratory services to the point where the District, for the first time, is playing catch-up on many critical water quality issues and concerns. We must somehow find the needed “headroom” to address more workload requirements. To address these issues we have applied several managerial processes to help alleviate these problems through cross-training

programs and assigned staff back-ups. We need additional staff resources just to contend with existing demands upon our service structure.

Investigations into Upgraded Laboratory Facility – All lab staff will need to provide feedback and input into the proposed new laboratory facility. Pre-planning and process programming will help make this program run efficiently. This effort will require coordination with a variety of departments and staff members.

V Activities on Hold Due to Insufficient Resources

The laboratory is covering more projects than our current resources can handle. As stated above, this has caused the delay in bringing new methods and capabilities on-line. New monitoring requirements will increase the need for critical analytical support. The Laboratory support will need to adjust to strictly compliance monitoring, without the focus and foresight to changing water quality issues and demands. Major activities that have been delayed or phased back include:

- ◆ Support of programs focused on water quality concerns and issues confronting the state and federal governments. There has been work through many water related agencies on security concerns, potential terrorist targeting of water sources and infrastructure since post 9-11. The District has monitored the progress of these programs, through non-active participation of CAMALnet (California Mutual Aid Laboratory network) and Department of Homeland Security. This program is starting to reach a point of active participation, with DHS and MWD actively being the leaders on this issue. While the OCWD's Board and upper management may conclude that the District should not view this program as part of its core functions, this decision must be openly made at some point during this budget cycle, since it carries significant political ramifications.
- ◆ Seawater Barrier and basin monitoring programs have been reduced or delayed because of cuts over the past several budget cycles. Sampling reductions were initiated with Prado and SAR monitoring program support. There have been some increased needs for research of this specific source water, which has been placed at a low priority compared to current loads received by our laboratory.
- ◆ Method development and new target support has been delayed because of limited staff resources. The flexibility of the lab to react to new demands or capabilities has been reduced over the past several budget cycles. Current programs and projects have kept resources focused on compliance support. As an agency - we're no longer one of the leaders to this support effort, and have dropped in status of knowledge and understanding on these key water quality issues.
- ◆ The activity of data reporting and utilization of generated laboratory information has not improved over the past several years. This effort is needed so that data can be utilized for process optimization. This is a critical need, which requires staff time from a variety of disciplines, to develop a more streamlined approach of sharing and access of critical information.

- ◆ We're trying to work closely with the research department, to prioritize work projects and studies that directly support District goals and objectives. Again, because of the increased compliance support priority for the GWR System and, SAR monitoring, UCMR2, other basin monitoring programs, we have limited resources and staff time to support the District's research department and plant operational investigations.

VI Staff Addition Needed for FY 2007-08

During this budget cycle, the laboratory will experience significant increases in projects and workloads across all monitoring programs. Additional staff positions are required to support the projected analytical data demands, which will be required to fully support the GWR System, as well as all SAR and basin monitoring programs needed to meet District compliance objectives. Two chemist positions focused within the organic section of the main lab are needed, while the technician responsibilities would be divided amongst the two sections – including weekend plant support. All three positions will be brought online when and where needed. They will be used to circumvent impacted processes, methods, or techniques – so that the compliance requirements of the department are met. The requested positions are for two chemists and a lab technician.

VII Future Issues

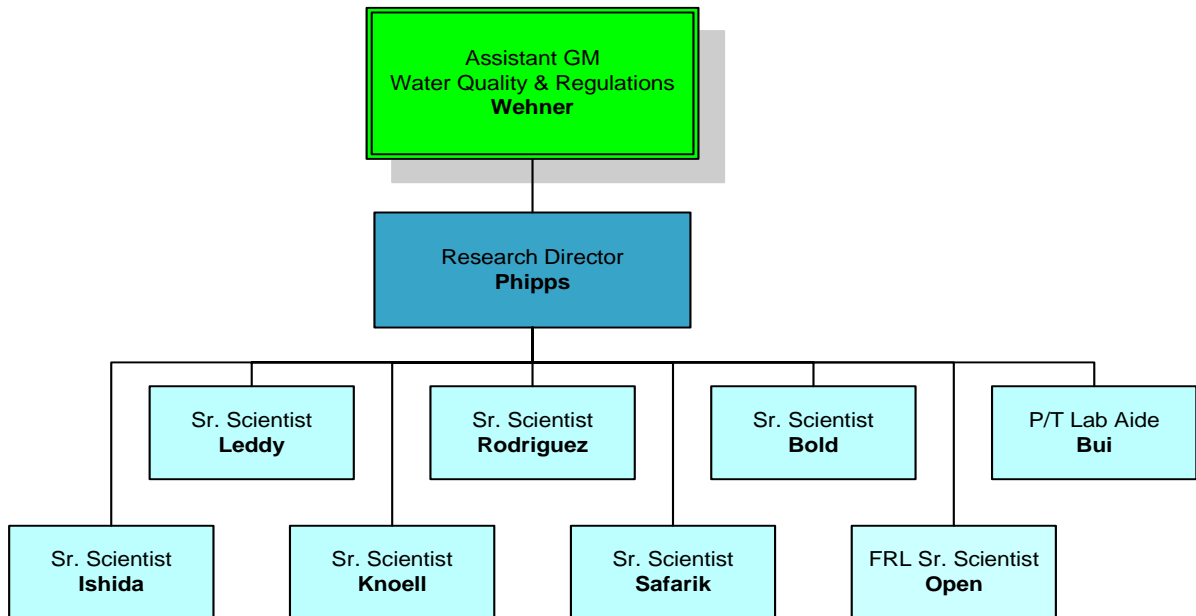
In the next two to three years, issues the District will need to consider include:

- ◆ Several monitoring programs will be coming on-line, which will result in increased workloads on an already impacted department. Specific monitoring needs may need to be supported with contract lab analysis. Setting program priorities will be critical.
- ◆ The federal UCMR2 monitoring program will be implemented during this time period. This program requires bringing on line five new analytical methods covering a total of 25 UCMR2 identified target contaminants. The program represents approximately a 20 percent increase in the number of covered extraction methods, which must be immediately processed in the confines of our existing sub-standard facility. Impacts could easily overwhelm support infrastructure.
- ◆ The laboratory will be moving into a new facility in late 2008. The goal of the department is to make a smooth transition - without impacting on-going analytical support.
- ◆ EPA and the DHS have several programs that are beginning to gain focus and momentum, which could impact how water quality data is reported in the future. Overall, it is an attempt to extract and report data at increasing lower levels of detection.
- ◆ The need for GWR System pre-project analysis support of the recharge area will be tested during this period. A standard procedure of bringing new GWR System targets on line. Determination of how this process is developed and how data is to be handled and distributed to appropriate District staff managers will be a key issue during the next few budget cycles.

- ◆ To properly support the GWR system, increased communication and data feedback with OCSD and DHS will be required, especially in response to target analysis and method development requirements.
- ◆ All required purchases for replacement analytical equipment are being reviewed, which could be potentially delayed until the new facility comes on-line. This would help in the process of moving analytical equipment and transition into the new facility.

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RESEARCH AND DEVELOPMENT



Summary Information

Existing Staff – 8.5 FTEs

- 1 – Research Director
- 7 – Senior Scientists
- 0.5 – Lab Aide (P/T)

Mission

Conduct applied research that supports and enhances the District's core operational needs.

Key Issues for 2007-08

- ◆ Focusing of Research and Development (R&D) research to support GWR System plant operation, both long-term and immediate issues that arise as the plant comes on-line in 2007.
- ◆ Implementing research aimed at improving percolation strategies (basin cleaning and operation) to lower percolation operation and maintenance (O&M) costs and improve water yield.
- ◆ Expanding the scope of water reclamation research through collaborative partnerships between OCWD R&D Group, the NWRI, and major academic water research groups.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	825,552	854,871
Services and Supplies	177,175	185,125
Total	\$1,002,727	\$1,039,996

I FY 2007-08 Major New Initiatives/Programs

- ◆ Start of a new grant project to evaluate pathogenic sources in the Santa Ana Watershed and develop a list of tentative best management practices (BMPs) to address those sources.
- ◆ Investigation of the hypothesis that proper management of active biofilms formed on the lead RO element can reduce AOC in the feed to elements downstream, thus protecting them from biofouling and significantly saving on RO cleaning chemicals.

II Core Activities

- ◆ Research promising technologies to improve water quality and to increase the efficiency of District water treatment and recharge operations.
- ◆ Provide support and implementation of strategic plan strategies to increase capture and recharge of SAR flows, implement an updated SAR protection program, and evaluate and address emerging contaminants.
- ◆ Provide scientific and technical support to GWR System treatment systems and recharge and injection.
- ◆ Provide scientific/technical assistance to OCWD staff.
- ◆ Develop and evaluate new analytical methods.
- ◆ Seek external funding.
- ◆ Publish and present research findings.

III Non-Core Activities

- ◆ Participate in scientific advisory panels/research advisory boards.
- ◆ Provide consulting information to other water agencies, utilities and regulatory agencies.

IV Group Goals for 2007-2008

GRANT FUNDED RESEARCH:

GWR SYSTEM GRANT FUNDED PROJECTS:

Effects of RO Plant Operating Parameters on Organic Compound Rejection (EPA2RO^{**}) – project currently funded by EPA via Metropolitan Desalination

Research Innovation Partnership (DRIP) consortium funds. Project completion date has been extended to January 2008. Anticipated activity during this period includes submission of final project report.

SANTA ANA RIVER AND WATERSHED GRANT FUNDED PROJECTS:

Middle Santa Ana River Pathogen Total Maximum Daily Load study (SARTMDL**) - This is a joint study with SAWPA with the with the support of San Bernardino County Flood and Riverside County Flood to evaluate pathogenic sources in the Santa Ana Watershed and develop a list of tentative BMPs to address those sources. R&D will analyze surface water samples for *Bacteroides thetaiotaomicron* to identify the sources of contamination. Project duration: March 2007 to August 2008. Funding \$40,000 - \$60,000 (depending on rainfall).

SPECIAL FUNDED PROJECTS:

MicroMem Analytical (H2OMEM**) – discretionary small (<\$20,000) short-term projects performed for other agencies (such as Metropolitan), entirely funded in the fiscal year, to be executed providing personnel resources are available.

NON GRANT-FUNDED RESEARCH:

GWR SYSTEM O&M:

Task 1: Operation of the R&D pilot test facilities on GAP – R&D staff will operate the pilot GWR System research plant on top of GAP. During the remainder of the shutdown period, this facility will serve as a GWR demonstration for Public Affairs. It also will provide a research platform until the GWR pilot research facilities behind the new MF facilities are operational.

Task 2: Determination of Mechanism(s) of Microfiltration Fouling by Reclaimed Wastewater; Development of Potential Mitigation Strategies* – Improving the efficiency of MF can represent a significant water production cost saving for the AWPf. During this period, research will be focused on implementation of strategies elucidated during FY 2006-07 reducing the interaction of nanoparticulate foulants in Q1 with the polypropylene HF-MF membrane material used in the AWPf. It is anticipated that a significant amount of this research will involve use of the Pilot Test Facility MF plant GAP.

Task 3: RO Fouling in GWRS – Potential Improved Cleaning Strategy – this study will use the pilot test facilities RO plant to investigate the hypothesis (based on previous observations) that active biofilms formed on the lead RO element can reduce AOC in the feed to elements downstream, thus protecting them from biofouling. The pattern of biological fouling and levels of AOC will be determined in the pilot plant. A cleaning strategy involving rapid exchange of lead elements in the plant will be evaluated. If successful, the strategy may result in a significant O&M cost improvement for the AWPf RO plant.

Task 4: Advanced Oxidation Plant (AOP) Studies* – continued research encompassing investigating properties of OCWD's UV-peroxide plant operations

with regard to oxidation of specific organic compounds of public health concern, optimization of hydrogen peroxide photolysis and potential for residual disinfection. Research during this period will concentrate on pilot scale studies using the small Trojan reactor on the R&D pilot test facility, and following startup of AWPf, on full-scale performance studies.

Task 5: Potential Mobilization of Metals during AWPf Recharge/Injection – investigation involving Water Quality, Hydrogeology and R&D of the potential for mobilization metals of public health concern during infiltration/injection of AWPf product water. Anticipated activities during this period are principally data analysis and modeling.

TALBERT BARRIER O&M:

Injection Well Fouling Studies – potential extension of Model Injection Well studies undertaken in FY 2006-07 evaluating potential impacts of AWPf product water on barrier wells during Barrier injection.

FOREBAY O&M:

Task 1: Percolation Studies – a continuation of the laboratory studies to determine the influence of suspended solids loading during percolation on the hydraulic conductivity of the recharge basins. Research during this period will focus on the relationships between soil particle size distribution and sediment particle size distribution of the kinetics of basin fouling. Predictive models developed during FY 2006-07 will be evaluated using field data.

Task 2: Recharge Working Group (REWG) Support – provide scientific assistance for implementation and performance analysis of recharge enhancement schemes developed as an outcome of the REWG during the fiscal year. Assist the Engineering and Recharge Operations Group to provide scientific and analytical support for recharge enhancement methods, including:

- Subsurface recharge galleries
- Desilting strategies
- Basin soil structure modification
- Aeration and cross-flow induction

BCV O&M:

R&D Support for Basin Cleaning Vehicle Operations (BCVHLP) - ongoing Forebay Research Laboratory activity focusing on providing scientific support for BCV operations, including sediment mass loading, mass removal analysis and correlation of BCV activities with recharge facility performance.

ADVMET:

Task 1: Seeking Collaborative Research and grant funding* – continue to seek collaborative research by partnering the research facilities at OCWD with water research groups such as the NWRI, the UCLA water Center, the UCI Urban

Water Center, the UIUC Water CAMPWS to promote development of new water purification technology. Continue to seek funding from AWWARF, WRF, EPA, U.S. Bureau of Reclamation and other sources as is available to support research projects.

Task 2: Research and development of advanced analytical methods useful for current and future research activities* - development of new analytical methods as required for support of projects.

V Activities on Hold Due to Insufficient Resources

Major activities that are not being implemented include:

- ◆ Organic Removal Studies – future research by the R&D group depends on Main Lab support for research – may be attempted if sufficient analytical support is available in the fiscal year.
- ◆ AWWPF Microbiological Monitoring – insufficient resources to implement a new large monitoring program at this time.

VI Staff Addition Needed for FY 2007-08

None

VII Future Issues

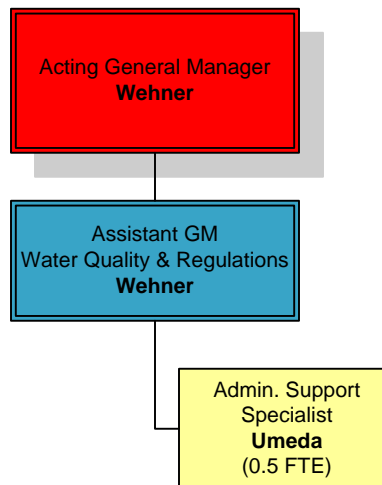
- ◆ Evaluation of new generation water treatment membranes (MF, RO) for the AWWPF.
- ◆ Evaluation of new, improved AOP methodologies (e.g., catalytic AOPs).
- ◆ Investigation of brine treatment technologies to mitigate discharge of organic compounds of concern, including endocrine disruptors.
- ◆ Implementation of new molecular biological methodologies for virus detection.
- ◆ Investigation of long-term effects of GWR System product water recharge on the groundwater basin.
- ◆ Evaluation of new solid-state, real-time detection methodologies for biological and chemical species of public health concern
- ◆ Investigation of surface water treatment technologies for improvement of SAR water quality prior to infiltration.
- ◆ Development of “self-cleaning” groundwater recharges systems (e.g., cross-flow systems) to improve recharge capacity.

** Legacy grant funded projects or projects with guaranteed funding

* Projects with potential for grant funding

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REGULATORY AFFAIRS



Summary Information

Existing Staff - 1.5 FTE

- 1 – Assistant General Manager – Water Quality & Regulations
- 0.5 – Administrative Support Specialist (shared with Hydrogeology)

Mission

Help to assure reasonable regulation of District projects and programs through interface with regulatory agencies, acquisition of necessary permits, and implementation of water quality monitoring and research programs to support district goals and compliance with regulatory requirements.

Key issues for 2007-08

- ◆ Obtain NPDES permit for GWR System emergency discharge to the SAR to provide OCSD with necessary peak flow relief.
- ◆ Prepare for commissioning and start up of the full scale 70 mgd GWR System facility, including monitoring of treatment unit performance, and blending operations to comply with all permit requirements.
- ◆ Coordinate development of the final Operation Maintenance and Monitoring (OMM) Plan for the full scale facility, including review and approval by the NWRI appointed Independent Advisory Panel and DHS to optimize water quality as required by the GWR System permit.
- ◆ Evaluate recommendations from NWRI's Independent Advisory Panel for the GWR System and prioritize implementation.
- ◆ Coordinate with OCWD operations staff and OCSD staff to improve understanding of links between secondary treatment and GWR System product water quality.

- ◆ Coordinate between OCWD Laboratory, OCSD Laboratory and OCSD Source Control to identify compounds of concern for regulation by the Source Control Program, including testing needs and concentration limits.
- ◆ Work with DHS to obtain approval of plan to ramp up GWR System from 75 percent recycled water to 100 percent recycled water at the Talbert Barrier.
- ◆ Develop plan for DHS approval of the Mid-Basin Injection Project, including determination of the information needed for approval, such as the performance of studies on potential water quality impacts, testing and modeling projections.
- ◆ Assist in development of OMM Plan for 70 mgd GWR System to assure compliance with regulatory requirements and consistency with GWR System Panel recommendations.
- ◆ Participate in Advanced Oxidation Process (AOP) treatment research project with WaterReuse Foundation and West Basin Municipal Water District. AOP is required in the District's GWR System permit and we need to better understand how the process functions to optimize the system for performance and cost.
- ◆ Work together with the Planning and Watershed Management Group to manage sampling and analysis for the SAR in follow up to the SARWQH Study and the recommendations of NWRI's Scientific Advisory Panel.
- ◆ Establish foundation of trust and confidence for working relationship with new leadership at DHS.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	213,892	250,486
Services and Supplies	161,150	176,875
Total	\$375,042	\$427,361

I FY 2007-08 Major New Initiatives/Programs

None

II Core Activities

The Regulatory Affairs Group is primarily responsible for the District's permits with the RWQCB, the DHS and the Orange County Health Care Agency (OCHCA).

Core activities include:

- ◆ Obtain permits and negotiate conditions for District projects and facilities from health and regulatory agencies; RWQCB, DHS, OCHCA

- ◆ Assure compliance with permit conditions, including monitoring and reporting to regulatory agencies
- ◆ Manage Water Quality and Technology Group, which includes the Laboratory, Water Quality, and Research & Development.
- ◆ Provide assistance to Communications Group on water quality, health and regulatory issues
- ◆ Coordinate with NWRI on management of Independent Advisory Panel appointed for GWR System
- ◆ Negotiate draft regulations with DHS and other regulatory agencies
- ◆ Provide consultation to other OCWD groups on water quality, health and regulatory issues affecting District projects or programs
- ◆ Provide assistance to MWDOC and producers on health and regulatory issues
- ◆ Assist in review and development of legislation regarding water quality requirements and reclamation
- ◆ Coordinate with regulatory agencies regarding requirements for emerging contaminants
- ◆ Serve as OCWD liaison with AWWARF, Water Environment Research Foundation (WERF) and WaterReuse Research Foundation (WRF).

III Non-Core Activities

Non-core activities (secondary priority compared to core activities) conducted by the Regulatory Affairs include:

- ◆ Serve on Project Advisory Committees for AWWARF, WERF and WRF funded projects
- ◆ Provide presentations to Water Education Foundation and other groups regarding water quality, health and regulatory issues
- ◆ Participate in review panels for NWRI, the National Academy of Science and the National Research Council regarding water recycling and reuse
- ◆ Assist other water agencies in addressing water quality issues related to groundwater recharge with recycled water

IV Group Goals for 2007-08

GWR System Permit for Emergency Discharge to the SAR – Obtain NPDES permit for OCSD flow relief emergency discharge to the SAR

Second Annual Report for GWR System – Assist in preparation of the third annual report to regulatory agencies on the performance of the GWR System, Phase 1 and results from testing required by the permit and recommended by the GWR System Panel

Final Draft Groundwater Recharge Regulations – Coordinate with DHS to develop final draft Groundwater Recharge Regulations for public review.

\$20,000 is budgeted for consulting services to support the District's input on the draft regulations.

Implement Recommendations from the NWRI Appointed GWR System Independent Advisory Panel - Evaluate recommendations from the GWR System Panel and prioritize implementation. The RWQCB permit requires the formation of the GWR System Panel. The costs incurred by NWRI for the Panel must be reimbursed by OCWD and are estimated to be \$65,000 for FY 2007-08.

Planning and Design for the New Laboratory - Provide technical assistance for design and construction of the laboratory facility

Equip Laboratory for Emerging Contaminant Testing - Coordinate acquisition of instruments needed for testing pharmaceuticals and endocrine disruptors as required by GWR System permit

Prioritize Monitoring Activities with Water Quality and Laboratory Groups - Since monitoring needs exceed resources in Water Quality and Laboratory Groups, programs and projects must be evaluated and prioritized

OMM Plan for the Full-Scale GWR System Facilities – Assist in development of OMM Plan for 70 mgd GWR System to assure compliance with regulatory requirements and consistency with GWR System Panel recommendations

Unregulated Contaminant Monitoring Rule (UCMR) Testing for Producers – Evaluate potential to provide testing required for producers under the UCMR phase 2 scheduled to begin in 2007

WRF Tailored Collaboration on “Tools to Assess and Understand the Relative Risks of Indirect Potable Reuse and Aquifer Storage and Recovery Projects” - Participate in project to evaluate the relative risks of emerging chemical contaminants in indirect potable reuse systems, including endocrine disruptors and pharmaceuticals. Cost to participate in the WRF project is \$20,000 in FY 2007-08.

Santa Ana River Monitoring – Manage the water quality sampling and analysis for the SAR in follow up to the SARWQH Study and the recommendations of NWRI's Scientific Advisory Panel

North Basin Groundwater Protection Project – Provide technical support for the North Basin Groundwater Protection Project and guidance relative to regulatory requirements for recharge of product water

Santa Ana VOC Project – Provide technical support for the Santa Ana VOC Project and guidance regarding regulatory alternatives for cleanup and reuse of contaminated groundwater

Water Center – Assist NWRI, OCWD and OCSD in development of a Water Center at the GWR System campus to provide information to visitors on Orange County water resources and the important role of OCWD and OCSD in protecting and managing those resources. The Water Center could also serve as a technical training center and a research facility for new technologies to increase efficiency of the GWR System operation.

R&D for District Critical Needs – Coordinate the Research & Development Department efforts with the most critical research needs for the District, including recharge enhancement, MF/RO optimization, UV-AOP optimization and microbial characterization of SAR recharge waters.

V Activities on Hold Due to Insufficient Resources

Major activities that are not being implemented include:

- ◆ Develop annual water quality report card on the groundwater basin
- ◆ Develop more comprehensive water quality testing program to assure adequate data for assessment of emerging contaminants, threats to producer wellfields and seawater intrusion
- ◆ Evaluate the contributions of wetlands to SAR water quality with respect to emerging contaminants and optimization of wetlands operation
- ◆ Emerging Contaminants – Coordinate efforts to prioritize emerging contaminants for testing, including test methods, sensitivities and significance of findings
- ◆ Develop depth and backup in the Work Group to the Director
- ◆ Enhanced Source Control – Actively coordinate with OCSD on enhanced source control efforts to prevent contaminants from adversely affecting GWR System

VI Staff Addition Needed for FY 2007-08

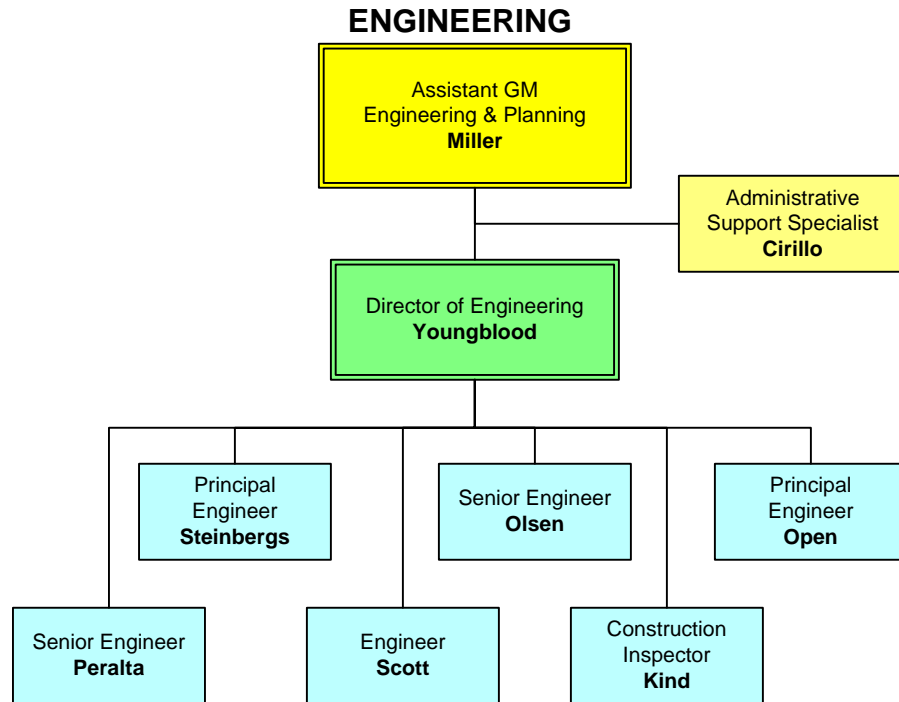
None.

VII Future Issues

In the next one to three years, issues that the District will need to consider include:

- ◆ Groundwater Rule – implement monitoring required by EPA Groundwater Rule. Monitoring may include testing of indicator bacteria at producer wellheads and may also include testing for phage as indicators of virus in groundwater.
- ◆ Emerging contaminants, including requirements for testing of endocrine disruptors and pharmaceuticals in recycled water, SAR water and groundwater using new analytical capabilities.
- ◆ Evaluation of new technologies to enhance treatment in the GWR System and to improve energy efficiency and reduce chemical costs.
- ◆ New and more stringent drinking water standards for contaminants like arsenic, polychlorinated bi-phenyls (PCBs), polybrominated diphenylethers (PBDEs), and disinfection by-products.
- ◆ Possible applications of groundwater recharge regulations to the use of SAR water for recharge.
- ◆ Expanded source water assessment obligations that could include the entire SAR watershed and all potential contaminating activities in the watershed.

- ◆ Succession planning – identify appropriate candidates to assume responsibility for regulatory affairs at OCWD, hire or promote best candidate, provide training and orientation on complex regulations and agencies affecting OCWD projects and programs.



Summary Information

Existing Staff - 9 FTE

- 1 – Assistant General Manager – Engineering /Planning
- 1 – Director of Engineering
- 5 – Engineers
- 1 – Construction Inspector
- 1 – Administrative Support Specialist

Mission

Plan, design, and manage the construction of the District's improvement projects.

Key issues for 2007-08

- ◆ Complete Prado Wetlands Reconstruction – Design for the wetlands was completed in January 2007. Reconstruction of the Prado Wetlands will begin in FY 2006-07 and continue into FY 2007-08.
- ◆ Construction of Laboratory – The laboratory is currently being designed. Construction is anticipated to begin in the 2006-07 fiscal year. Construction completion is anticipated in FY 2008-09.
- ◆ GWR System Startup Support – Startup of the Advanced Water Purification Facility will be initiated early in FY 2007-08 with the plant going online in October 2007. Engineering will provide support to the operations group during this period.

- ◆ Complete Construction of MWD Production Wells – Construction on wellhead facilities began in FY 2006-07 and will be completed in FY 2007-08. This project involves equipping eight well sites in seven cities as part of MWD’s Conjunctive Use Storage Program.
- ◆ North Basin Groundwater Protection Project – Manage design of wells, pipelines, and treatment facilities in FY 2007-08. Construction completion for the entire project is anticipated in FY 2008-09.
- ◆ Construct Santiago Pits Pump Station – Manage selection of equipment and/or construction of facilities in association with a new pumping system at Santiago Pits.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	\$341,275*	540,698
Services and Supplies	\$149,050	161,200
Total	\$490,325	701,898

* Due to engineering involvement on CIP projects, a large amount of the salaries is included in the CIP.

I FY 2007-08 Major New Initiatives/Programs

None

II Core Activities

The Engineering Department is responsible for planning, design and construction management of the District’s improvement projects. Projects range from small in-house modifications for existing facilities to major water treatment, pumping and conveyance facilities including the GWR System. Engineering staff may perform the planning, design and construction management or may manage outside consultants performing these functions. Departmental staff provides engineering support as needed for the daily operations of the District, including Water Production, Forebay Recharge, Prado Operations, Seawater Barrier Operations and Property Management. Engineering staff also reviews proposed projects of other agencies that may impact District operations or lands.

Core activities include:

- ◆ Implementing the startup of the GWR System
 - Manage design, construction management, and various consultants supporting construction of GWR System
 - Manage Start-up planning and electronic Operations and Maintenance Manual preparation
- ◆ Implementing the Capital Improvement Program including the design and construction of the Laboratory

- ◆ Planning new projects to increase the yield of the basin and protect water quality (shared with Planning)
- ◆ Supporting operations of Forebay, Prado Wetlands, Green Acres Plant, GWR System Phase 1, and Seawater Intrusion Barrier
 - Data analysis of operations
 - Permit compliance support
 - Operational improvement input
 - Facility improvement construction
- ◆ Utility conflict analysis and research
- ◆ Preparation of Annual Engineer's Report
- ◆ Administering and seeking outside grants

III Non-Core Activities

Non-core activities (secondary priority compared to core activities) conducted by the Engineering group include:

- ◆ Monitoring outside water reuse project operational activities.
- ◆ Monitoring ocean water desalination issues and opportunities.
- ◆ Monitoring regulations and legislative affairs activities of WaterReuse Organization
- ◆ Publishing operational data in journals and conference proceedings.
- ◆ Participation in technical review committees

IV Group Goals for 2007-08

Construction of the Miller Basin Turnout – This project involves the relocation of a turnout for Miller Basin. Design will be completed in FY 2006-07 and construction is scheduled to begin in summer 2007. Construction completion is anticipated in June 2007.

Construction of the Kraemer Basin Pipeline Improvements – This project involves the replacement of a 48" pipeline entering Miller Basin. Design will be completed in FY 2006-07 and construction is scheduled to begin in summer 2007. Construction completion is anticipated in June 2007.

Initiate Design on the Chino Creek Wetlands – This project involves construction of wetlands to treat Chino Creek just north of the Prado wetlands. A Feasibility Study has been completed and pending property negotiations, design will begin in FY 2006-07 and continue into FY 2007-08.

Initiate Design on the River Road Wetlands – This project involves construction of wetlands to treat the Santa Ana upstream of the Prado wetlands. An Environmental Impact Report is expected to be complete in FY 2006-07.

Burriss Basin Recontouring – Design will begin on the recontouring of the Burriss Basin in Anaheim. This project will improve the percolation capability of this large recharge basin. Construction is anticipated to commence in FY 2007-08.

Completion of Design of La Jolla Recharge Basin – Design will be completed in FY 2006-07. This construction would include a 5-acre recharge basin to increase recharge into the groundwater basin. Construction completion is expected in early FY 2007-08.

Initiate Design on Lower Santiago Creek Recharge Project – Following design completion in FY 2006-07, manage construction activities in the Santiago Creek downstream of Hart Park in Orange.

V Activities on Hold Due to Insufficient Resources

Major activities that are not being implemented include:

- ◆ Evaluating chemical types, chemical usage, and energy efficiency data, which could result in increased operational cost savings for the GWR System
- ◆ Survey existing recharge facilities for erosion and deterioration. A thorough survey could identify potential failures and erosion problems
- ◆ Digitize all engineering as-built drawings for incorporation into GIS system
- ◆ Develop on line, updated description of all Engineering projects and provide water quality or quantity reports for public and interested parties. Many requests are made and if a prepared set of information was made available, it would reduce staff time on these non-core but important tasks.
- ◆ Develop a Basin Cleaning Vehicle Jet Testing Program.
- ◆ An analysis of the energy usages and procurement program could result in cost savings and incentive programs.

VI Staff Addition Needed for FY 2007-08

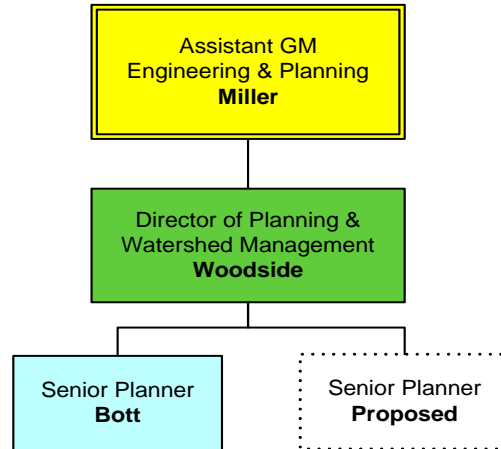
None.

VII Future Issues

In the next two to three years, issues the District will need to consider include:

- ◆ Depending on start-up issues, one or two engineers working on the GWR System may be available for other new projects in a few years.
- ◆ Provide support for basin cleaning vehicles (BCVs)
 - Performance improvement of current operations
 - Additional retrofits to vehicles to increase percolation
- ◆ Survey of Forebay recharge system structures and need for improvements
- ◆ Support Prado Wetlands operations by assisting in minor capital improvements, data analysis, and operational improvements

PLANNING AND WATERSHED MANAGEMENT



Summary Information

Existing Staff - 2 FTEs

- 1 - Director of Planning and Watershed Management
- 1 – Senior Planner

Requested New Staff - 1 FTE

- 1 – Senior Planner/Watershed

Mission

Conduct long-term planning of District's facilities and programs, prepare planning documents and environmental analyses for new projects, and implement the District's watershed management programs.

Key Issues for 2007-08

- ◆ Evaluate the most favorable methods to optimize the performance of the District's recharge facilities, such as desilting SAR water.
- ◆ Prepare planning documents for project to enhance recharge along lower Santiago Creek.
- ◆ Evaluate armoring in the SAR and its impact on recharge through the river bottom.
- ◆ Implement the Santa Ana River Monitoring Program (follow up to the Santa Ana River Water Quality and Health Study).
- ◆ Watershed Management – Interface with watershed stakeholders. Participate in Imported Water Recharge/Basin Plan workgroup. Monitor activities of Stormwater Quality Standards Task Force and SAR water quality task forces.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	\$441,741	427,406
Services and Supplies	\$792,950	897,450
Total	\$1,234,691	\$1,324,856

I FY 2007-08 Major New Initiatives/Programs

Prepare planning documents to recharge water in lower Santiago Creek below Hart Park. Assess impacts on riverbed percolation from armoring of SAR due to sand entrapment at Prado Dam.

II Core Activities

The Planning and Watershed Management group is primarily responsible for the District's long-term planning, institutional interface, watershed management, and preparation of environmental documents.

Core activities include:

- ◆ Conducting long-range planning of future activities and facilities at the District.
- ◆ Planning new projects to increase the yield of the basin and protect water quality (shared with Engineering and Hydrogeology).
- ◆ Protecting the quality and quantity of SAR flows.
- ◆ Preparing environmental documents (e.g., Environmental Impacts Reports).
- ◆ Interacting, representing, and processing agreements with outside upstream agencies such as SAWPA, upstream agencies, regulatory agencies, etc.
- ◆ Seeking outside grants.
- ◆ Interface with watershed stakeholders. Participate in implementation of the Chino Creek Integrated Plan. Monitor activities of Stormwater Quality Standards Task Force and SAWPA Technical Advisory Committee. Monitor implementation of stormwater NPDES permits in Riverside and San Bernardino Counties.
- ◆ Interfacing with the RWQCB and upstream agencies on issues affecting the SAR.
- ◆ Reviewing environmental documents prepared by agencies in the watershed with respect to potential impacts on the District's operations and the watershed.

III Non-Core Activities

Non-core activities (secondary priority compared to core activities) conducted by the Planning and Watershed Management group include:

- ◆ None

IV **Group Goals for 2007-08**

Recharge Facilities Optimization Study – The Recharge Enhancement Working Group and the Long-Term Facilities Plan (LTFP) identified several methods to improve the performance of the District's recharge facilities. Potential approaches to increase the recharge rate include desilting of SAR water, removing fine-grained sediments that have accumulated in the upper three to five feet of the basins (sand wash plant), recontouring selected basins, and changing the inlet structures to selected basins. Prepare an evaluation of the optimal approaches to increase the performance of the District's existing recharge facilities.

Lower Santiago Creek Recharge Enhancement – Prepare Engineering Report to increase recharge in Santiago Creek downstream of the Hart Park parking lot. Currently, managed recharge is limited to the portion of the creek upstream of the parking lot. This project will create a conduit for water through the parking lot. Maintain coordination with City of Orange. This project would increase capture and recharge of SAR flows.

SAR Armoring Evaluation – The transport and deposition of sand in the SAR is important to maintaining recharge through the SAR river bottom. A sandy river bottom provides high recharge rates and allows the District to construct levees to maximize percolation. Prado Dam traps the majority of sand flowing down the river, causing negative impacts on the recharge capacity of the riverbed and the District's ability to construct sand levees. The loss of sand and deterioration of the SAR channel downstream of Prado Dam is called 'channel armoring'. This condition, unless remediated, will cause long-term reductions in the recharge rate of the channel. Work in FY 2007-08 will focus on documenting and quantifying the rate of armoring, estimating the rate of future armoring, and evaluating options to address the issue.

Alternative Methods to Recharge GWR System Water – Starting in 2007, water from the GWR System will be recharged at Kraemer Basin and injection wells at the Talbert Seawater Barrier. It would be beneficial to recharge GWR System water in other locations besides Kraemer Basin and the Talbert Seawater Barrier. The benefits will include allowing the District to maintain the highest reasonable recharge rate and freeing up Kraemer Basin to recharge other water. Since GWR System water is very high quality and has low suspended solids, it is likely that GWR System water can be recharged through unconventional means. Staff will prepare a feasibility study evaluating alternative recharge methods, including recharge trenches, multi-lateral injection wells, and mid-basin injection. The evaluation would also investigate the optimal locations to recharge GWR System water (mid-basin, in the Forebay area, East Orange/ Santiago Pits, etc...).

Mid-Basin Injection Project – Evaluation of this project, which would inject GWR System water into the middle portion of the basin, will focus on outlining the project and reviewing the project with the Board to determine if more detailed studies should be prepared. This effort will include interfacing with DHS and Regional Board staff to determine regulatory requirements and hydrogeologic studies needed to address regulatory issues. If the Board determines more

detailed evaluation is warranted, then a feasibility study evaluating potential alignments for the pipelines and injection wells will be prepared.

Manage Santa Ana River Monitoring Program (followup to SARWQH Study) – Manage on-going Santa Ana River Monitoring Program in joint effort with Regulatory Affairs and Water Quality Groups. Prepare report summarizing SAR monitoring results for data collected from July 2006 to July 2007. Present monitoring results to NWRI's Independent Advisory Panel in November 2007. Prepare plans for FY 2008-09 monitoring based on recommendations of Advisory Panel.

CEQA Compliance and Design for Chino Creek Wetlands – Subject to reaching an agreement with Prado Recreation Inc. or identifying an alternative site, the work in 2007-08 will include CEQA compliance, permit acquisition, and design. This project would further improve water quality of the SAR.

Watershed Management – Monitor activities of Stormwater Quality Standards Task Force and SAWPA Basin Plan Monitoring Technical Advisory Committee. Participate in workgroup on Imported Water Recharge and Basin Plan Compliance. Monitor implementation of stormwater NPDES permits in Riverside and San Bernardino Counties.

Update Strategic Plan – The District adopted its 2003-2006 Strategic Plan in July 2003. After the GWR System comes on-line in 2007, it will be an opportune time to set the agenda going forward and revise the Strategic Plan. This effort should begin in fall 2007 so that it can be used in preparing the draft budget for fiscal year 2008-09.

V Activities On Hold Due to Insufficient Resources

Major activities that are not being implemented include:

- ◆ Increased watershed management activities, including acquiring grant funds for watershed cleanup and restoration projects. Evaluating the water quality impacts of new development in the watershed.
- ◆ Evaluation of percolation of runoff from new development and related effects of increased urbanization.
- ◆ Active attendance/involvement with upper SAR watershed agency meetings.
- ◆ Strategic Plan followup activities.

VI Staff Addition Needed for FY 2007-08

1 – Watershed Planner (new)

The Santa Ana River watershed continues to develop, particularly in the area above Prado Dam. An additional staff person is requested to implement the following activities which are currently not possible with existing staff:

- ◆ Increased involvement in watershed activities in the upper watershed (the area above Prado Dam). These activities would include acquiring grant funds for watershed cleanup and restoration projects. Proposition 84 and related

- state and federal funding opportunities provide resources to implement proactive measures to protect and improve water quality in the upper watershed, which will protect the quality of the SAR.
- ◆ Interaction with growing list of watershed and environmental groups in the watershed. The District will benefit from increased interaction with groups such as the Santiago Creek Watershed Preservation and Restoration Project which share the District's goal of protecting water quality in the SAR and its tributaries. As the watershed urbanizes, the number of non-profit/non-governmental agencies working on watershed issues continues to grow.
 - ◆ Working with San Bernardino and Riverside county agencies and cities on implementation of projects to protect and improve water quality. The counties and cities are under stringent permits from the RWQCB to manage runoff and water quality from new development and redevelopment areas. Implementation of these permits by the counties and cities provide opportunities for joint projects with the District, such as new wetlands.
 - ◆ Increased evaluation of potential sources of contamination in the upper watershed. Staff monitors activities by state and local agencies to address contamination at sites throughout the watershed, such as the Stringfellow site near Riverside and the Rialto/Colton perchlorate plume. Additional work is needed to help protect the SAR from these potential sources of contamination.
 - ◆ Enhanced evaluation of water resource management plans proposed by water agencies in the upper watershed. Western Municipal Water District, Inland Empire Utilities Agencies, and several other agencies are proposing more aggressive water management and water recycling activities that may impact the District. The new staff person would assist with evaluating these plans and interfacing with the upstream agencies.

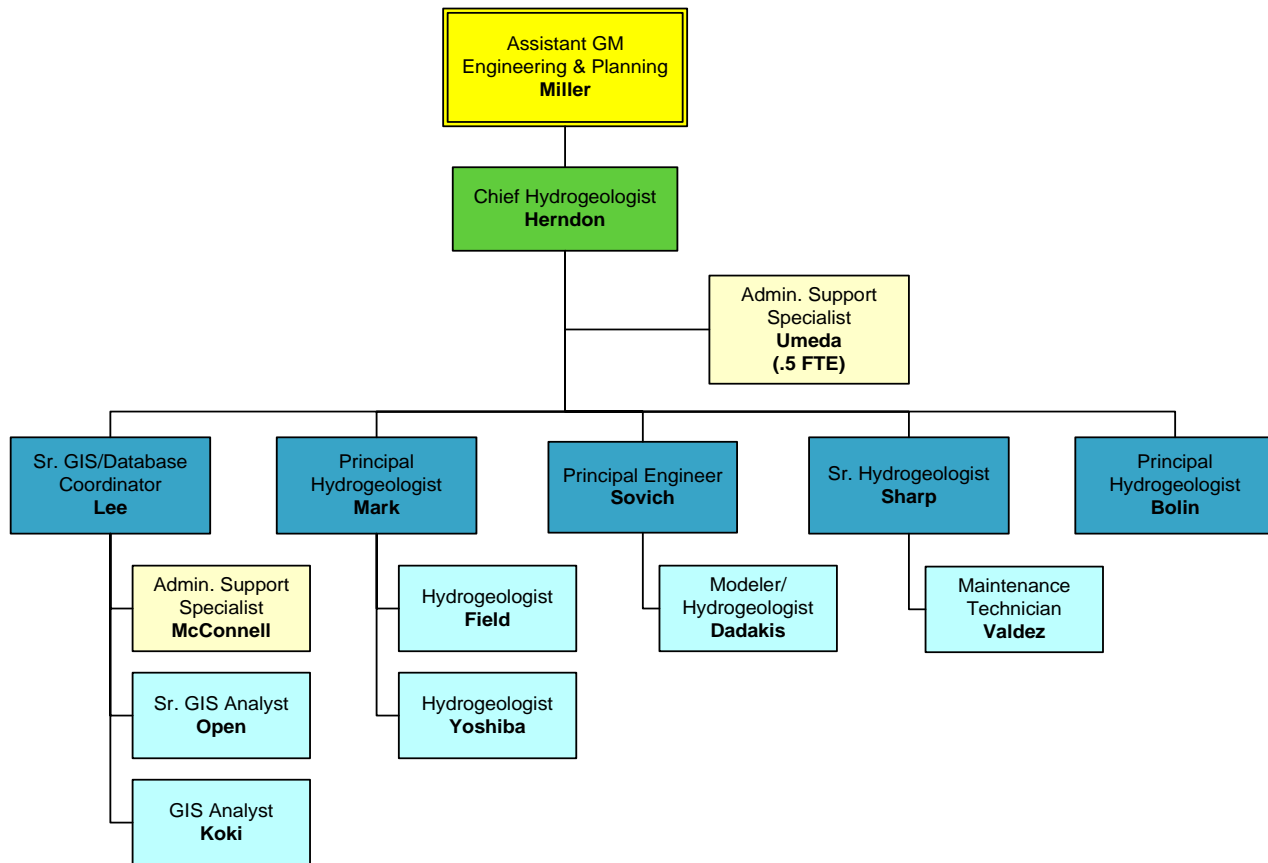
VII Future Issues

In the next two to three years, issues the District will need to consider include:

- ◆ When the District should request the next expansion of the Prado Pool storage level.
- ◆ How SAR flow rates are trending and the effect of the trend on long-term planning.
- ◆ Projects in the LTFP which require preparation of Feasibility Studies and Engineering Reports.
- ◆ New approaches to monitoring the SAR as water quality testing continues to evolve.

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HYDROGEOLOGY



Summary Information

Existing Staff - 13.5 FTE

- 1 – Chief Hydrogeologist
- 1 – Engineer
- 6 – Hydrogeologists
- 3 – GIS analysts
- 1 – Administrative Support Specialist/Data Entry Support
- 0.5 – Administrative Support Specialist (shared with Regulatory Affairs)
- 1 – Maintenance Technician

Mission

Define the physical characteristics of basin aquifers, determine groundwater flow pathways, and provide analyses and recommendations necessary to manage groundwater production, recharge, quality, and water levels within the Basin.

Key issues for 2007-08

- ◆ Evaluate performance and optimal injection rates of Talbert Barrier wells during operation of the GWR System. This effort will include refinement of and running scenarios using a computer model of the Talbert Gap.
- ◆ Complete extraction well construction and testing to support pipeline and treatment plant design of the North Basin Groundwater Protection Project.
- ◆ Provide continued data and analytical support to attorneys as needed for MTBE and VOC litigation.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	1,188,689	1,124,342
Services and Supplies	1,396,800	1,400,000
Total	\$2,585,489	\$2,524,342

I FY 2007-08 Major New Initiatives/Programs

- ◆ Collect hydrogeologic data necessary for the design of increased injection capacity of the Alamitos Seawater Barrier. Groundwater salinity data indicate that additional injection wells are needed to control seawater intrusion near the southeastern portion of the barrier along Westminster Avenue. Two monitoring wells are proposed to verify the depth and location of future injection wells. The results of staff's analysis will be prepared in an Engineer's/Geologist's Report for additional injection facilities that would be budgeted for design in FY 2008-09.
- ◆ Prepare South Basin Groundwater Protection Project Geologist's Report for hydrogeologic investigation of groundwater quality impacts in vicinity of IRWD well no. 3 in Santa Ana. The purpose of the investigation, if approved, will be to delineate the extent of contamination and lead to establishing the scope of a potential remediation system.
- ◆ Provide hydrogeologic analysis supporting the recharge feasibility study of Lower Santiago Creek.

II Core Activities

The objectives of the Hydrogeology group are to define the physical characteristics of basin aquifers, determine groundwater flow pathways, and provide analyses and recommendations necessary to manage groundwater production, recharge, quality, and water levels within the basin. Core functions include:

- ◆ Groundwater level monitoring and calculation of basin storage, including support for the Annual Engineer's Report.
- ◆ Refinement and operation of the basin groundwater flow model.
- ◆ Evaluation of the Talbert and Alamitos seawater barrier performance.
- ◆ Evaluation of seawater intrusion in the Bolsa and Sunset gaps.
- ◆ GIS map production and database support for projects, planning, reports, and presentations.
- ◆ Enhancement and maintenance of the WRMS.
- ◆ Technical support and assistance for the groundwater producers.
- ◆ Preparation of the monthly Water Resources and annual Santa Ana River Watermaster reports. Funds for contracting with the U.S. Geological Survey to collect annual SAR flow measurements have been budgeted. These measurements are essential for preparation of the Watermaster reports, storage operations at Prado Dam, and calculation of recharge volumes.
- ◆ Basinwide water level monitoring program of over 200 wells and trend analysis.
- ◆ Investigation and remediation of VOCs in the Forebay area.
- ◆ Review and evaluation of site-specific groundwater contamination investigations and cleanups overseen by regulatory agencies.
- ◆ Hydrogeologic analysis of recharge project feasibility studies.
- ◆ Evaluation of RA/BEA exemption requests.

III Non-core Activities

IV Group Goals for 2007-08

The following programs are highlighted as major activities encompassed within or in addition to the core group activities listed above:

Talbert Gap Seawater Intrusion Evaluation – Evaluate the control of seawater intrusion and the effectiveness of the expanded Talbert Barrier by using the calibrated Talbert Gap groundwater model to run barrier operational scenarios under different injection amounts and basin conditions. One monitoring well, approved last year by the Board, will be constructed on the Newport Mesa in FY 2007-08 to accommodate City of Costa Mesa's park schedule.

North Basin Groundwater Protection Project – Complete site acquisition, construction and testing of five extraction wells and six monitoring wells for the North Basin Groundwater Protection Project.

Alamitos Gap Seawater Intrusion Evaluation – Data indicate that portions of the Alamitos Barrier in Orange County are not sufficiently effective in controlling sea

water intrusion and that additional injection capacity is likely required. Staff proposes to construct two monitoring wells to provide information that is needed to prepare an Engineer's/Geologist's Report on barrier improvements, e.g., new injection well locations, depths, and flow rates. Any barrier improvements recommended in the Report would be budgeted for implementation in future fiscal years. In addition, a monitoring well replacing one that had to be destroyed in 2007 is budgeted as an R&R item.

WRMS Modernization – Complete Phase 2 scope of work and initiate Phase 3, which includes necessary upgrades to database forms and reports to operate in the modern, web-based architecture. These phases also include design of new database applications to support secure and optimized storage and reporting of Water Resources Report data, as well as streamlining data transfer between the OCWD LIMS and WRMS.

South Basin Groundwater Protection Project – Staff will evaluate the results of the data/file review and work plan prepared by Todd Engineers and discuss potential implementation of an investigation to delineate extent of groundwater contamination associated with impacted IRWD Well No. 3 in Santa Ana.

GWR System Monitoring/GSWC Well – Conduct a groundwater tracer study to estimate recharge water travel time from Kraemer Basin to a downgradient production well. Staff will also estimate travel times of Talbert Barrier injection water to downgradient monitoring wells, as required under the GWR System permit.

Recharge Facility Evaluation – Provide hydrogeologic evaluation and data collection support for the following proposed projects: La Jolla Basin, Burris Basin recontouring, Lincoln Basin, Atwood Sales Property, and Santiago Creek regrading. Three monitoring wells along lower Santiago Creek are budgeted to evaluate whether the local hydrogeology is conducive to recharging the Principal aquifer.

Basin Storage Calculation Refinement – An outcome of staff's recent basin storage evaluation and methodology revision is the finding that the shallow aquifer plays a dominant role in storing and releasing groundwater. To improve the accuracy of the annual storage calculation, staff identified two issues: (1) verification of the shallow aquifer storage coefficients and (2) providing shallow aquifer water level data in parts of the basin where no data exist. A gravity geophysical survey and the installation of six shallow aquifer monitoring wells in outlying portions of the basin are proposed to address these issues.

Irvine Desalter Project Monitoring - Monitor groundwater levels and quality during first year of operation of the Irvine Desalter Project.

MTBE and VOC Litigation Support – Provide data and analytical support to attorneys as needed.

V Activities on Hold Due to Insufficient Resources

Major activities not being conducted include:

- ◆ Develop and manage well closure program, including location and identification of abandoned wells and possible grant funding.
- ◆ Prepare report documenting the construction and calibration of the basin model, and extend the nine-year calibration period from 1999 to 2005.
- ◆ Refine/update basin-wide geologic cross-sections based on new data collected since 2000. Cross sections are routinely used in a variety of basin analyses, including water quality evaluations and designing new production wells.
- ◆ Convert basin model from UNIX to PC platform using off-the-shelf software to reduce staff time in setting up and running model scenarios.
- ◆ Develop groundwater flow model of the Alamitos Gap to evaluate minimum injection requirements under various basin conditions.
- ◆ Implement program to identify and locate unregistered groundwater production facilities and quantify unreported volumes pumped.

VI Staff Addition Needed for FY 2007-08

None

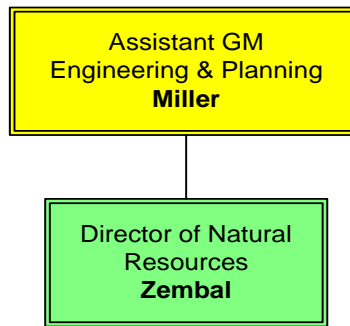
VII Future Issues

In the next two to three years, issues involving the Hydrogeology group that the District will need to consider include:

- ◆ Follow-up analysis and data collection in support of future capital improvement projects, e.g., mid-basin injection well siting and permitting.
- ◆ Possible outcomes of the MTBE litigation.
- ◆ Potential design and construction of the South Basin Groundwater Protection Project.

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NATURAL RESOURCES



Summary Information

Existing Staff - 1 FTE

1 - Director of Natural Resources

Mission

Manage natural resources in the Santa Ana River Watershed to improve water quality, water supply, and habitat for the betterment of people and the environment.

Key issues for 2007-08

- ◆ Raise funds for additional Arundo control on the SAR while raising public awareness of the issues and benefits.
- ◆ Assist in the preparation of permit applications and negotiate conditions cooperatively with engineering staffs and others for various District projects including Chino Creek and River Road Wetlands, Santiago Creek Recharge, and Burris Basin Reconfiguration.
- ◆ Help facilitate the City of Ontario's Mill Creek Wetlands.
- ◆ Oversee endangered bird monitoring and Natural Resources management efforts in the Prado Basin.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	235,428	216,566
Services and Supplies	91,508	100,508
Total	\$326,936	\$317,074

I. FY 2007-08 Major New Initiatives/Programs

Implement and report sucker conservation and native fish establishment efforts.

II. Core Activities

- ◆ Managing wildlife habitat and populations as per mitigation requirements and regulatory permit compliance;
- ◆ Interacting with outside agencies such as the U.S. Fish and Wildlife Service, Army Corps of Engineers (ACOE), the SAWPA, the local governmental agencies, etc., in representing OCWD interests in environmental planning;
- ◆ Interacting with other departments and regulatory agencies to ensure environmental compliance of District projects and activities;
- ◆ Administering and overseeing natural resources management efforts and removal of Arundo and other invasives from the SAR Watershed and;
- ◆ Seeking outside funding and administering expenditure of those funds.
- ◆ Interfacing with non-governmental organizations in the SAR Watershed.

III. Non-Core Activities

- ◆ Monitoring wildlife use of District lands
- ◆ Production of educational materials

IV. Group Goals for 2007-2008

Monitor Endangered Bird Populations in the Prado Basin and Watershed – The Department is the lead on the implementation of the wildlife aspects of Strategic Plan Strategy 3.3. This activity also keeps the District in compliance with Regulatory Permits for Water Conservation and other District projects. Endangered bird populations will be monitored and managed in the Prado Basin and throughout most of the SAR Watershed.

Santa Ana River Watershed Program – Staff will participate as a member of the governing Board and as Treasurer of the SAWA, which is the organization removing Arundo throughout the SAR Watershed. The Natural Resources Director will attend regular meetings, prepare, review, and edit various documents including amendments to bylaws, operational procedures, budgets, annual work plan, and reports in directing management activities in the upper watershed.

Mitigation/Habitat Restoration Plans in Prado Basin – Staff will prepare, implement, monitor, and report upon habitat restoration in compliance with permit conditions for Prado Water Conservation and other District projects. The rate of planting new mulefat needs to be increased to satisfy mitigation requirements.

Ongoing Removal of 3,000 acres of Arundo – Staff will help manage and monitor the efforts to keep Arundo out of the 3,000 acres initially treated with Proposition 13 funding and before (Strategic Plan Issue 2).

Negotiate Outside Funding of at Least \$1 Million for Arundo Removal – Natural Resources staff will write grants and negotiate with agencies for additional funding for the Arundo removal efforts. Staff will solicit, track, and report funding and activities received under the in-lieu-fee program with the ACOE.

Assist in Implementation of Chino Creek Riparian Habitat Enhancement Project – Natural Resources staff will participate in the implementation of the restoration plan for Chino Creek between Euclid and Pine Avenues in partnership with IEUA and Planning group.

Prepare and Negotiate Permits for District Projects – Natural Resources Staff will prepare permit applications and negotiate conditions cooperatively with engineering staffs and others for various District projects including Chino Creek Wetlands, Santiago Creek Recharge, River Road Wetlands, and Burris Pit Reconfiguration.

Participate in Project Planning – Natural Resources staff will continue to participate cooperatively with other departments in preparation of environmental documentation and other planning efforts on Santiago Creek, Burris Pit, Chino Creek, Mill Creek, and others.

Educational Material – Natural Resources staff will continue to compile interpretive materials including live-mounted specimens, species reports, and a quarterly newsletter.

V. Activities Not Being Addressed Due to Insufficient Resources

Major activities that are not being implemented include:

Clean up of Chino Creek into the Prado Basin – Giant reed and several other problematic non-native plants have invaded Chino Creek and are interfering with flood control, water flow, habitat restoration, endangered bird management, etc. The creek is isolated and could be cleaned as a separate unit.

Clean up of Temescal Creek into the Prado Basin – Although most of Temescal Creek has been cleared of Arundo, the area from the concrete-lined section down to the basin has not. This stream section is isolated and could be worked as a separate unit.

Clean up of the Riverside County portion of the Santa Ana Canyon – Orange County is implementing Arundo-control in the canyon, which will help keep the OCWD recharge area more free of debris. However, they are not including the part of the canyon just upstream in Riverside County. Giant reed from this upstream section will re-infest their work areas unless it is removed.

Pursuit of additional grants – Full knowledge and use of available grant funding will not be accomplished without additional staff resources.

VI. Proposed Staff Additions for FY 2007-08

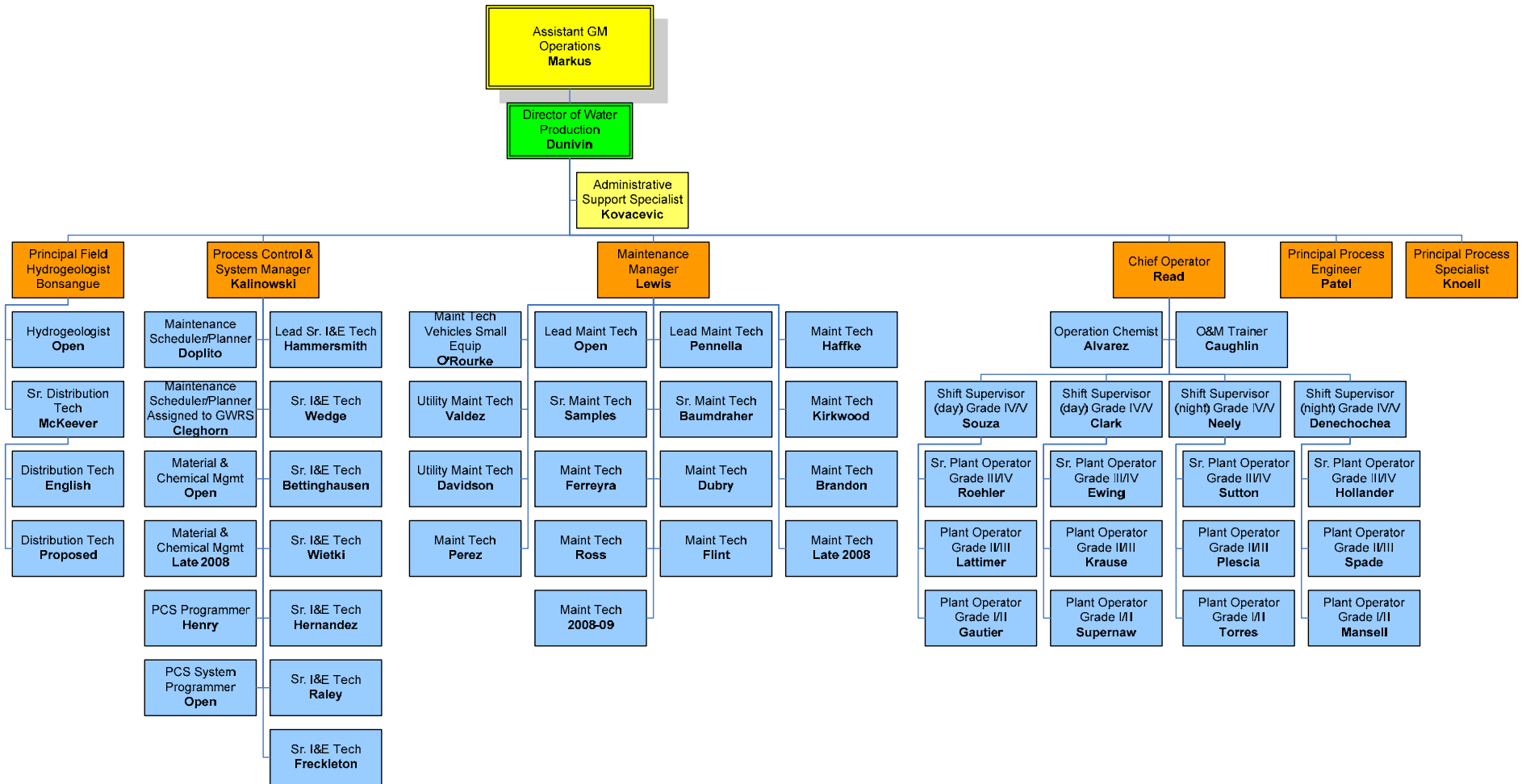
None.

VII. Future Issues

Full implementation of the SAR Watershed Program – There are still 7,000 – 8,000 acres of Arundo, or more to be removed from the watershed. This scale of removal would generate more than 25,000 af of water annually for the District.

Developing additional partnerships to maximize wetlands above the Prado Basin
– The natural resources managed by the District will be impacted by future flooding affecting our standing and ability to negotiate for future Water Conservation and other District Projects in the Regulatory Arena. Additional natural treatment wetlands, associated riparian habitat, and temporary floodwater retention in the upper watershed will cushion the temporary impacts of these inevitable natural phenomenon and generate Regulatory Capital.

WATER PRODUCTION



Summary Information

Existing Staff – 56 FTEs

- 1 – Assistant General Manager – Operations
- 1 – Director of Water Production
- 1 – Administrative Assistant
- 1 – Process Engineer
- 4 – Supervisors (Chief Operator, Process Control & System Manager, Maintenance Manager and Principal Hydrogeologist)
- 16 – Operators
- 15 – Maintenance Technicians
- 2 – Maintenance Scheduler/Planner
- 1 – Material and Chemical Management Technician
- 7 – Instrumentation & Electrical Technicians
- 2 – Process Control System Programmer
- 1 – Chemist
- 1 – Operation and Maintenance Training Coordinator
- 3 – Barrier Maintenance Technicians

Proposed Staff Increase – 1 FTE

- 1 – Barrier Maintenance Technician

Mission

Operate and maintain the GWR System AWPf, GAP, Talbert Barrier injection wells and associated pipeline distribution systems.

Key Issues for 2007-08

- ◆ Involvement of staff in training, final commissioning, start-up, and operation of the 70 million gallon per day (mgd) GWR System AWPf.
- ◆ Consistently monitor and improve operations to optimize the GWR System so operation and maintenance costs are reduced.
- ◆ Work with the DHS to ensure approval of treatment process prior to injection and recharge of GWR System water.
- ◆ Redevelop eight to ten Talbert Seawater Barrier injection well sites.
- ◆ Continue the development of the GWR System electronic O&M training manuals and the Enterprise Asset Management System for the GWR System.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	3,379,895	5,079,909
Services and Supplies	4,006,950	15,909,021
Total	\$7,386,845	\$20,988,930

I FY 2007-08 Major New Initiatives/Programs

None.

II Core Activities

The Water Production Group is responsible for a wide variety of District activities, which include:

- ◆ Operations and Maintenance of the 70 mgd GWR System AWPf.
- ◆ Operations and Maintenance of the GAP distribution and treatment plant.
- ◆ Operations and Maintenance of the Talbert Seawater Barrier system.

III Non-Core Activities

- ◆ Participate in technology transfer on advanced treatment with other water districts, consultants, and public agencies.
- ◆ Provide technical support on various wellhead treatment systems or reverse osmosis treatment plants throughout Santa Ana Watershed.
- ◆ Provide technical support on well related construction and O&M issues for the Water Quality and Hydrogeology Departments.
- ◆ Provide data collection and monitoring support for Research & Development projects.
- ◆ Building maintenance (Administration, MWDOC, Lab and Annex).

IV Group Goals for 2007-08

GWR System – Start up the GWR System successfully and produce 40,000 acre feet of water for recharge and injection. Continue development of the electronic Operations and Maintenance training manuals and the Enterprise Asset Management System including the CMMS for the GWR System. Develop GIS/GPS asset location data base for the Green Acres, GWR System pipelines and injection well assets. Continue to train the Water Production staff to operate and maintain the GWR System. Assist the AWPf contractor in the commissioning and start-up of the plant. Include staff in all aspects of training involving plant operations and maintaining new equipment.

OCSD – Continue to work with the OCSD staff on improving communications and monitoring current plant water quality and future water quality that could

impact the GWR System. Continue to coordinate joint operations meeting discussing OCSD plant operations and source control.

DHS and the RWQCB – Continue to work with both agencies on reclaimed water quality permit and compliance activities. Gain approval of the GWR System Barrier Ramp-up Plan to defined goals for approval for injection of 100 percent reclaimed water.

Talbert Barrier – Redevelop up to ten injection well sites. Continue working with hydrogeologist to optimize barrier operations to prevent seawater intrusion. Implement Board-approved Interim Barrier Operations Plan.

V Activities on Hold Due to Insufficient Resources

None

VI Staff Addition Needed for FY 2007-08

The Board approved the recommended GWR System Staffing Plan on April 6, 2005. This plan outlined the staffing requirements needed to operate and maintain the 70 mgd GWR System AWPf.

During FY 2006-2007 staff will have completed hiring the 15 positions outlined in the staffing plan. The staffing plan calls for one position to be hired in FY 2007-08 and this position is for a Barrier Maintenance Technician.

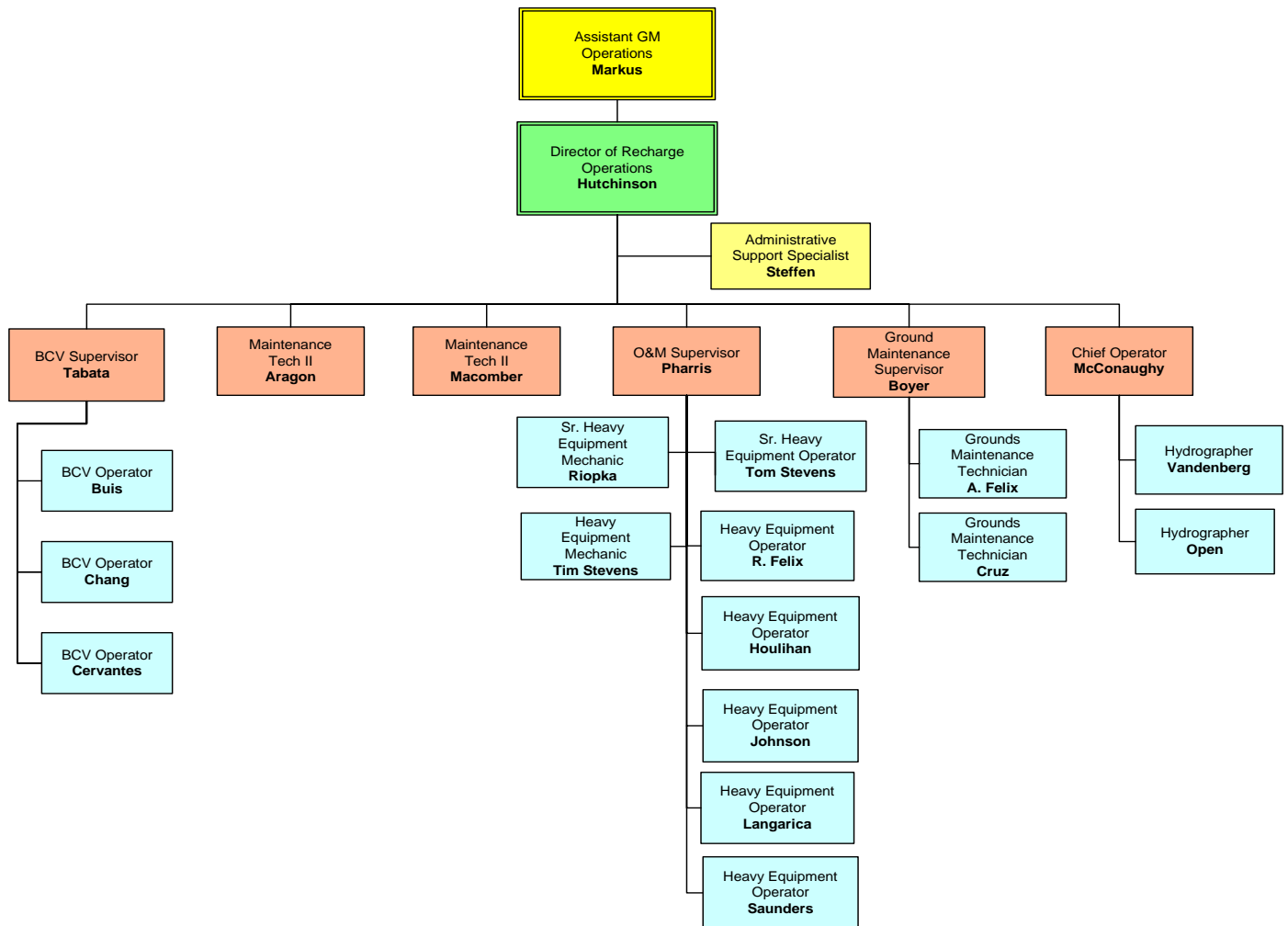
This hiring strategy assures that the staff will be in place and properly trained to achieve successful operation of the GWR System AWPf.

VII Future Issues

In the next two years, issues the District will need to consider include:

- ◆ Optimization of the GWR System AWPf treatment process to lower operational costs.
- ◆ Successful implementation of an integrated enterprise asset management system.
- ◆ Develop R&D opportunities to optimize the Trojan Advance Oxidation treatment process.
- ◆ Continue to monitor energy issues to ensure the best available power rates for the GWR System.
- ◆ Operations of the GWR System and GAP Treatment Facilities with variable water quality from OCSD.
- ◆ Continued redevelopment and upgrade of barrier legacy wells.

RECHARGE OPERATIONS



Summary Information

Existing Staff - 23 FTEs

- 1 – Director of Recharge Operations
- 1 – Administrative Support Specialist
- 1 – Chief Operator
- 1 – Operations Supervisor
- 1 – Groundskeeping Supervisor
- 1 – BCV Supervisor
- 2 – Hydrographers
- 2 – Maintenance Technicians
- 2 – Heavy Equipment Mechanics
- 6 – Heavy Equipment Operators
- 3 – BCV Operators
- 2 – Grounds Maintenance Technicians

Mission

Replenish the Basin by operating the District’s recharge facilities in the cities of Anaheim and Orange and managing the Prado Dam conservation pool.

Key issues for 2007-08

- ◆ Maximizing the recharge of SAR water when construction projects in Kraemer and Miller Basins will reduce the District’s overall recharge capacity (May-September 2007).
- ◆ If supplies are available, recharge 220,000 acre-feet (af) of water (SAR water and purchased water). The projected recharge volume for FY 2007-08 is lower than previous years due to the projected impacts of construction projects in Kraemer and Miller Basins.
- ◆ Incorporate GWR System flows at Kraemer and Miller Basins into the recharge operations water supply mix in fall 2007 when the GWR System plant is scheduled to come on-line. Recharge operations will coordinate with Water Production to minimize the impacts of GWR System recharge on the recharge of SAR water.
- ◆ Coordinate with Research and Development, Planning and Watershed Management, the Field Research Lab, and other District departments to test recharge enhancement methods identified by the Recharge Enhancement Working Group (REWG), such as:
 - Collecting turbidity and suspended solids data to support the Recharge Basin Optimization Study
 - Conduct studies to quantify impact of riverbed armoring on percolation rates
 - Use of subsurface recharge galleries with GWR System water
 - Improved basin cleaning methods
 - Continued feasibility testing of vadose zone recharge wells at Fletcher Basin

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	1,888,722	2,030,797
Services and Supplies	1,866,925	2,332,500
Total	\$3,755,647	4,363,297

I FY 2007-08 Major New Initiatives/Programs

- ◆ Incorporating GWR System water into the recharge operations water supply mix in fall 2007 while minimizing the impact of this new supply on the recharge of SAR water.
- ◆ Utilizing La Jolla Recharge Basin, which is projected to be on-line in fall 2007.

II Core Activities

The Recharge Operations group is primarily responsible for the District's core function of replenishing the groundwater system and managing the conservation pool behind Prado dam.

Core activities include:

- ◆ Recharging SAR baseflow and stormflows.
- ◆ Recharging imported water.
- ◆ Cleaning recharge facilities by mechanical methods using heavy equipment and basin cleaning vehicles.
- ◆ Evaluating and testing new approaches to increase District's recharge capacity, such as those proposed by the REWG.
- ◆ Collection and analysis of appropriate data to maximize effectiveness of recharge process. Improve and maintain hydrologic and Supervisory Control and Acquisition (SCADA) data collection systems to this end.
- ◆ Operating and maintaining four BCVs.
- ◆ Maintenance of recharge facilities, dewatering pumps, electrical facilities, control valves, pipelines, and metering systems.
- ◆ Basic maintenance of District properties including landscape of Field Headquarters, Field Research Laboratory, and areas surrounding the recharge facilities.
- ◆ Vector control; midge spraying along SAR and around recharge basins. Providing community outreach when public requests information regarding midge and mosquito spraying.
- ◆ Supporting Prado Operations by furnishing personnel and equipment as-needed.
- ◆ Supporting Field Research Laboratory activities by furnishing labor and equipment, as necessary, in order to construct and maintain facilities related to recharge and water quality studies, including testing of concepts proposed by the REWG.

III Non-Core Activities

Non-core activities (secondary priority compared to core activities) conducted by the Recharge Operations group include:

- ◆ Supporting District's education and outreach program by providing tours of the District's recharge system.
- ◆ Providing data and information to outside agencies and organizations.

IV Group Goals for 2007-08

Maximize recharge based on available supplies and necessary maintenance and construction constraints - Specific constraints in FY 2007-08 include construction projects in Kraemer and Miller Basins.

Incorporate GWRS recharge at Kraemer and Miller Basins into water supply portfolio – Coordinate with Water Production to begin recharging GWRS water while minimizing any adverse impacts to the recharge of Santa Ana River water.

Continued testing and operation of BCVs – Fourth year operations of BCVs will concentrate on small design modifications to improve silt removal and beginning to control and operate the BCVs remotely.

Collect necessary data to support the Recharge Facilities Optimization Study – Such data would included, but not be limited to, flow and water quality data and total suspended solids (TSS) measurements at selected locations in the recharge system to evaluate how solids loads vary within the system at different flow rates and at different times during the year.

Testing and implementation of REWG concepts: - Test or further develop innovative recharge techniques or projects developed by the REWG.

Complete facilities atlas for Anaheim Lake – Complete the facilities atlas for Anaheim Lake started in FY 2006-07 and expand to other facilities in a phased approach. The goal is, over several years, to have a complete GIS-based atlas of the District's recharge facilities, which will serve as the core of an O&M Manual (to be developed).

Improve SCADA system – In 2000, the District installed a computerized facilities control and data acquisition program (i.e., SCADA) to allow for remote operations of the recharge system and to collect data on various system parameters, such as water levels, flow rates, etc. Since the system was installed, numerous facilities have been added and shortcomings in the existing data reporting portion of the program have been identified. Improvements to the existing SCADA program are needed to allow for more efficient operations and to make the data collection and reporting features more functional. Improved data reporting is needed to better understand recharge system performance, provide data for use in an annual report, and reduce the time needed to prepare monthly and annual reports.

V Activities Not Being Addressed Due to Insufficient Resources

Major activities that are not being implemented include:

- ◆ Operation of sediment dredge in Weir Ponds 1 and 2. Although used successfully in the past, continued future use will be one of many alternatives considered in a future Desilting Study.
- ◆ Adequate property maintenance and beautification efforts by providing additional care of District property, trees, landscaping, and security fencing.

VI Staff Addition Needed for FY 2007-08

None.

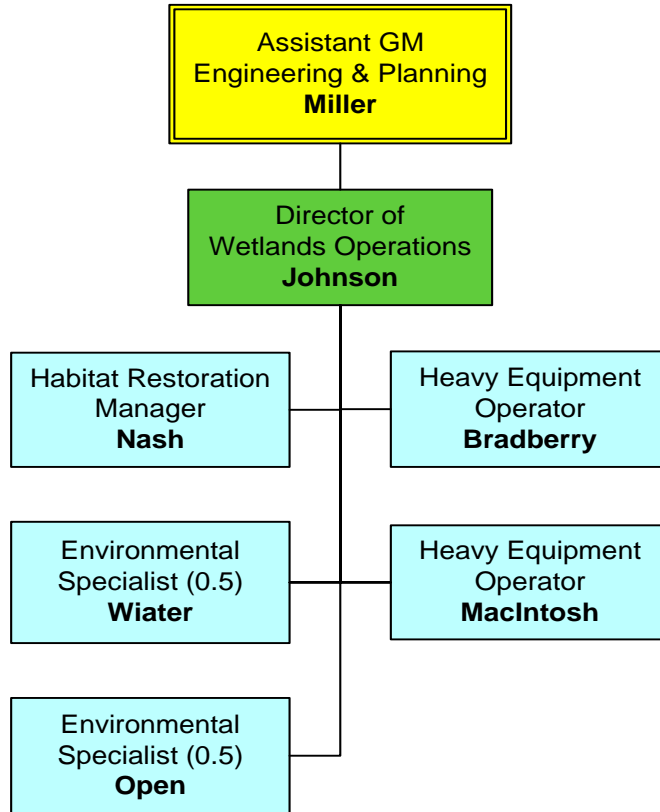
VII Future Issues

In the next two to three years, issues the District will need to consider include:

- ◆ Replacing heavy equipment. The District's heavy equipment fleet is aging and will need to be replaced over the next few years.
- ◆ Constructing a new recharge basin adjacent to River View Basin that is currently leased by the Sandbagger.
- ◆ Re-grading Burris Pit to allow it to be cleaned periodically, thus increasing its overall recharge capacity.
- ◆ Installation of facilities to allow the transfer of water directly from the SAR to Burris Pit. This would allow for the maintenance of Five Coves Basins without having to shut down the Burris-Santiago System.
- ◆ Increased utilization of the Off-River System for storm water storage and desilting. This may include the construction of new weir ponds in the Off-River System. Results of a Desilting Feasibility Study will shed light on how to better utilize the Off-River System for desilting purposes.
- ◆ Increased desilting of SAR water prior to entry into the recharge basins. Results of the future Desilting Study should provide the District with alternatives to accomplish this objective.
- ◆ Developing innovative methods to maintain and potentially restore the recharge capacity of Santiago Pits.
- ◆ Updating and maintaining infrastructure, pipelines, tubes, gates, and installation of new, more accurate metering systems.

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WETLANDS OPERATIONS



Summary Information

Existing Staff – 5 FTEs

- 1 – Director of Wetlands Operations
 - 1 – Habitat Restoration Manager
 - 2 – Heavy Equipment Operators
 - 2 – Environmental Specialist (Cost Shared 50% with SAWA)
- Administrative support provided by Recharge Operations' administrative staff

Mission

- ◆ Operate and maintain the Prado Wetlands to provide natural water quality treatment of SAR flows behind Prado Dam.
- ◆ Support the Natural Resources Group by implementing environmental mitigation measures in accordance with inter-agency agreements.

Key Issues for 2007-08

- ◆ The key issue for 2007-2008 is to utilize Federal Emergency Management Agency (FEMA) funding, assist in the finalizing of the design and construction to complete reconstruction of the Prado Wetlands and initiate operation of the wetlands.

Account Information	FY 2006-07 Budget	FY 2007-08 Proposed Budget
Salaries and Benefits	460,969	575,512
Services and Supplies	414,350	441,850
Total	\$875,319	\$1,017,362

I FY 2007-08 Major New Initiatives/Programs

The completion and implementation of this Prado Facilities Plan is a new initiative. The goal is to provide safe reliable office, lab and restroom space for existing and future wetlands operations.

Also, Investigations to determine best available technologies to remove excess or unwanted vegetation from treatment ponds without incurring the time to drain and dry the ponds.

II Core Activities

The Wetland Operations group is primarily responsible for the management and maintenance of the wetland facilities that provide natural water quality treatment of SAR flows behind Prado Dam. The group also supports the Natural Resources group by implementing mitigation measures in accordance with inter-agency agreements.

Core activities include:

- ◆ Providing natural water quality treatment of SAR flows through constructed wetlands in the Prado Basin;
- ◆ Coordination of cleaning and maintenance of wetland treatment ponds;
- ◆ Maintaining habitat mitigation obligations and supporting natural resources development activities;
- ◆ Maintenance of the levees, roads and transfer facilities within the wetlands;
- ◆ Reconstruction of earthen diversion following storm events to ensure 50 percent of river flows through wetlands, and;
- ◆ Supporting the District's education and outreach program by providing tours of the wetlands system.

III Non-Core Activities

Non-core activities conducted by the Wetlands Operations group include:

- ◆ Providing data and information to outside agencies and organizations.
- ◆ Supporting Natural Resources volunteer functions, such as tree planting.
- ◆ Coordinating District sand mining operations with Riverside County and the contractor to ensure stability of River Road Bridge during storm events.

IV Group Goals for 2007-08

Continue Repairing the Wetlands and Restoring Operations – Provide adequate budget, manpower and equipment needed to restore the operation and functionality of the wetlands.

Prado Facilities Plan – The completion and implementation of this Prado Facilities Plan is a new initiative. The goal is to provide safe reliable office, lab and restroom space for existing and future wetlands operations.

Development of Long-Term Equipment and Manpower Needs – Prepare a Strategic Plan for Wetlands Operations that will address long-term operations of the wetlands. The Strategic Plan will include an evaluation of the estimated equipment and manpower needs to meet the current and future permit conditions and operating requirements.

Potential Future Constructed Wetlands – Following Board approval, coordinate with OCWD Planning and Watershed Management staff to facilitate permitting, acquisition, and planning of additional constructed wetlands in the upper Santa Ana Watershed (such as Chino Creek Wetlands, River Road Wetlands, and Temescal Creek Wetlands).

V Activities Not Being Addressed Due to Insufficient Resources

Major activities that are not being conducted include:

- ◆ Development of an Operational Plan for the Prado Wetlands.
- ◆ Evaluation of operational changes to increase nitrogen removal during wetlands treatment.
- ◆ Reinitiating research work in wetland test cells to evaluate nitrate removal efficiency with various wetland configurations and density of vegetation.

VI Staff Addition Needed for FY 2007-08

None

VII Future Issues

In the next one to two years, issues the District will need to consider include:

- ◆ Addition of staff and equipment to operate and maintain proposed future wetlands if additional wetlands are approved (Chino Creek Wetlands, River Road Wetlands, and Temescal Creek Wetlands).



Section 4

Debt Service Fund

DEBT SERVICE FUND

The District primarily uses debt to fund capital projects approved by the Board. The purpose of the Debt Service Fund is to make principal and interest payments on the District's short- and long-term debts.

Total gross debt service payments are budgeted at \$30,079,453 for FY 2007-08 as shown on Table 1. This amount does not reflect any revenues received related to the 2005A interest rate swap transaction. For FY 2007-08 the swap revenues are projected to be \$1,940,400. Therefore the net debt service cost is \$28,139,053. The components of the debt service payments are as follows:

- \$15.1 million for fixed rate debt;
- \$10.0 million for variable rate debt;
- \$ 4.0 million for fixed rate junior lien debt (includes low interest State Revolving Fund Loans and SWAPs);
- \$0.9 million for debt administration.

In November 2002, the Board approved a comprehensive long-term debt program with a number of goals including:

- To provide funding for the GWR System and other capital projects;
- To provide the lowest cost of funds;
- Take advantage of low interest rates and the District's variable rate debt capacity; and
- Provide the lowest predictable RA

The District used approximately \$4 million of Commercial Paper in FY 2002-03 to purchase additional replenishment water, which is being paid back over five years. This obligation will be fulfilled in FY 2008-09. (See Repayment Schedule #1)

In the FY 2006-07 budget the District used \$775,000 of Commercial Paper to fund the purchase of new equipment purchases for four pieces of equipment that have a purchase price of greater than \$100K. (See Repayment Schedule #2)

It is proposed to issue Commercial Paper for five items in the New Equipment Budget totaling \$408,000. These items are included on Repayment Schedule #3.

In FY 2006-07 the District updated the Plan of Finance and refunded some of the District's more costly debt and executed two interest rate swap transactions. The overall impact to the District's debt structure was to effectively lower the District's overall cost of debt outstanding and to reduce the District's variable rate

exposure using an interest rate swap. In addition, the District has reduced the duration of the existing debt outstanding by approximately two years. Revenues from the interest rate swap transactions will be used to offset the District's overall cost of debt.

The District's policy of using long-term debt to fund capital projects was established in October 2000 and calls for the following:

- Preliminary project expenses related to direct research are to be paid from the General Fund and cannot use long-term debt;
- Project expenses for such items as feasibility reports, pilot studies, engineers reports, compliance with CEQA and project design and construction may be capitalized and funded with long-term debt; and
- Project expenses that are capitalized and funded with long-term debt and which do not lead to construction of a project will require an adjustment by the Accounting Department to pay off the long-term debt incurred using cash reserves.

TABLE 1
DEBT SERVICE FUND BUDGET
FY 2007-08

Expenditures:

	<u>Principal</u>	<u>Interest</u>	<u>Total</u>	<u>Outstanding Debt Balance</u>
<u>Fixed Rate Senior Lien Debt:</u>				
2003B COP		\$ 8,249,444	\$ 8,249,444	\$ 132,535,000
2005B COP	\$ -	\$ 3,668,550	\$ 3,668,550	\$ 76,765,000
2007A COP	\$ 1,845,000	\$ 407,096	\$ 2,252,096	\$ 9,475,000
Santiago Pipeline	\$ 211,090	\$ 3,638	\$ 214,729	\$ -
GAP Phase I	\$ 160,910	\$ 17,022	\$ 177,932	\$ 354,910
Irvine Desalter	\$ 203,909	\$ 40,936	\$ 244,845	\$ 1,116,617
GAP Phase II	\$ 218,167	\$ 72,164	\$ 290,331	\$ 2,359,111
subtotal	\$ 2,639,076	\$ 12,458,850	\$ 15,097,926	\$ 222,605,638
<u>Variable Rate Senior Lien Debt:</u>				
2003A COP	\$ -	\$ 5,192,600	\$ 5,192,600	\$ 129,815,000
(1) 2005A COP	\$ -	\$ 3,807,000	\$ 3,807,000	\$ 95,175,000
Commercial Paper FY07-08 Equipment Purchases Repayment Schedule #3	\$ 81,600	\$ 16,320	\$ 97,920	\$ 326,400
Commercial Paper FY06-07 Equipment Purchases Repayment Schedule #2	\$ 155,000	\$ 24,800	\$ 179,800	\$ 465,000
Commercial Paper FY02-03 Water Purchases Repayment Schedule #1	\$ 800,000	\$ 48,000	\$ 848,000	\$ 400,000
subtotal	\$ 1,036,600	\$ 9,088,720	\$ 10,125,320	\$ 226,181,400
TOTAL SENIOR DEBT	\$ 3,675,676	\$ 21,547,570	\$ 25,223,246	\$ 448,787,038
<u>Fixed Rate Junior Lien Debt:</u>				
GWR Sys State Loan (2007)	\$ 343,159	\$ 137,923	\$ 481,082	\$ 6,526,124
GWR Sys State Loan (2008)	\$ -	\$ -	\$ 869,591	\$ -
(1) 2005A Fixed Payer (swap)	\$ -	\$ 1,948,632	\$ 1,948,632	N/A
2007B Synthetic Fixed (Swap)	\$ -	\$ 631,903	\$ 631,903	N/A
	\$ -	\$ -	\$ -	\$ -
TOTAL JUNIOR DEBT	\$ 343,159	\$ 2,718,458	\$ 3,931,208	\$ 6,526,124
DEBT ADMINISTRATION			\$ 925,000	
TOTAL EXPENDITURES	\$ 4,018,835	\$ 24,266,027	\$ 30,079,453	\$ 455,313,162

(1) Reflects fixed interest rate swap payment on a portion of the 2005A variable rate debt outstanding. Variable swap receiver payments are projected to be \$1,940,400 and are shown as "Other Revenues" to the District and are not reflected in this debt section of the budget.

Repayment Schedule #1

Commercial Paper Borrowed in FY 2002-03 to Purchase
Additional MWD Replenishment Water

Original Principal Amount \$4,000,000
Assumed Interest Cost 4%

Fiscal Year	Interest Cost	Principal Payment	Total Payment	Remaining Principal
2003-04	\$115,000	\$400,000	\$515,000	\$3,600,000
2004-05	\$108,000	\$800,000	\$908,000	\$2,800,000
2005-06	\$112,000	\$800,000	\$912,000	\$2,000,000
2006-07	\$80,000	\$800,000	\$880,000	\$1,200,000
2007-08	\$48,000	\$800,000	\$848,000	\$400,000
2008-09	\$16,000	\$400,000	\$416,000	\$0
Totals	\$479,000	\$4,000,000	\$4,479,000	

Repayment Schedule #2

Commercial Paper Borrowed in FY 2006-07 to Purchase Equipment

No.#	Item	Amount
1	New capital equipment - Lab - LC/MS/MS for GWRS & UCMR2	\$380,000
2	New capital equipment - Lab - GC/MS Ion Trap Saturn 4000	\$100,000
3	New capital equipment - Lab - IC/MS	\$160,000
4	New capital equipment - New Phone System	<u>\$135,000</u>
	Sub total equipment	\$775,000
	Total (items 1-4)	\$775,000
	Original Principal Amount	\$775,000
	Assumed Interest Cost	4%

Fiscal Year	Interest Cost	Principal Payment	Total Payment	Remaining Principal
2006-07	\$31,000	\$155,000	\$186,000	\$620,000
2007-08	\$24,800	\$155,000	\$179,800	\$465,000
2008-09	\$18,600	\$155,000	\$173,600	\$310,000
2009-10	\$24,800	\$155,000	\$179,800	\$155,000
2010-11	\$6,200	\$155,000	\$161,200	\$0
Totals	\$105,400	\$775,000	\$880,400	

Repayment Schedule #3

Commercial Paper Borrowed in FY 2006-07 to Purchase Equipment

No.#	Item	Amount
1	New capital equipment - Lab - GC/MS System for EPA Method 524 - VOC	\$120,000
2	New capital equipment - Lab - GC/MS System for EPA Method 521 - NDMA	\$120,000
3	New capital equipment - Lab - Flow Injector Analyzer	\$68,000
4	New capital equipment - Lab - Automated Solid Phase Extractors	\$50,000
5	New capital equipment - Lab - Autotitrator	<u>\$50,000</u>
	Sub total equipment	\$408,000
	Total (items 1-5)	\$408,000
	Original Principal Amount	\$408,000
	Assumed Interest Cost	4%

Fiscal Year	Interest Cost	Principal Payment	Total Payment	Remaining Principal
2007-08	\$16,320	\$81,600	\$97,920	\$326,400
2008-09	\$13,056	\$81,600	\$94,656	\$244,800
2009-10	\$9,792	\$81,600	\$91,392	\$163,200
2010-11	\$13,056	\$81,600	\$94,656	\$81,600
2011-12	\$3,264	\$81,600	\$84,864	\$0
Totals	\$55,488	\$408,000	\$463,488	



Section 5 Water Purchase

WATER PURCHASE

The Water Purchase budget is based upon the District's long-term average of purchasing replenishment supplies from the Metropolitan Water District of Southern California (MWD), which is 65,000 afy. This figure was developed and implemented by the District in December 2002 as part of the District's revised basin management strategy. The average generally accounts for the District's facility constraints and ability to recharge MWD's replenishment supplies along with the availability of these water supplies.

For FY 2007-08, 65,000 af of MWD replenishment water is included in the proposed budget to support a Basin Production Percentage of 74 percent and to continue storing water in the basin. Of the total amount of water to be purchased, 26,000 af would be used to continue refilling the basin (lowering the groundwater basin's accumulated overdraft). If replenishment supplies are not available from MWD, the funds will remain in the Water Fund until replenishment supplies become available. In addition to the 65,000 af of replenishment supplies, an additional 16,000 af of supplies will be received through the MWD Conjunctive Use Program. OCWD does not pay for this water as MWD may call on it in a dry year.

The accompanying table provides a detailed summary of the Water Purchase Budget for FY 2007-08. Since MWD's rates will increase on January 1, 2008, the cost per acre-foot for MWD water is an average of the calendar year 2007 and 2008 rates. The specific items in the table include:

1. Item 1 is the estimated MWD replenishment water which would be purchased and recharged at the District's facilities in the cities of Anaheim and Orange.
2. Item 2 is the amount of MWD in-lieu replenishment water that the District would purchase by working with the participating groundwater producers. It is anticipated that the cost of in-lieu replenishment water will increase from \$360/af to \$390/af beginning in January 2008.
3. The District anticipates purchasing approximately 2,000 af of water from the City of Long Beach for injection into the Alamitos Barrier. The cost of this water is \$5/af above the cost of MWD Tier I water plus the Readiness-To-Serve and Capacity Charge paid by the City of Long Beach to MWD.
4. The District also purchases treated non-interruptible MWD water for the Talbert seawater barrier injection via a connection with the City of Huntington Beach and the Mesa Consolidated Water District on the OC-44 pipeline. The unit cost of treated non-interruptible MWD water is expected to be \$500/af. This blend water will be required for the first two years of GWR System operation.
5. The District purchases water from the Arlington Desalter located adjacent to the SAWPA headquarters in southern Riverside. The desalter treats groundwater with high total dissolved solids and nitrate concentrations,

which is sold to the City of Norco. The surplus water is discharged into the SAR and captured and recharged by the District. The cost of this water supply is equivalent to the MWD replenishment rate.

6. The District has a contract to purchase up to 10,000 afy of groundwater from the San Bernardino Valley Municipal Water District (SBVMWD) at \$150/af. This water is discharged into the SAR and captured by the District. This water is only available when SBVMWD is experiencing high groundwater conditions which are not expected to occur next year.
7. The District also has a contract to purchase up to 7,000 afy of groundwater from the Western Municipal Water District (WMWD) at \$150/af. WMWD has annual rights to this water, which is also located in the San Bernardino area. This water is discharged into the SAR and captured by the District. These supplies are not always available. If they became available, less MWD replenishment water would be purchased.
8. The District has a contract with Irvine Ranch Water District to supply Title 22 water during the winter months for distribution within the Green Acres Project (GAP) system. The GAP treatment plant is turned off during this period.
9. MWDOC charges OCWD a surcharge based upon a rolling eight-year historical average of the annual volume of replenishment water deliveries. The proposed surcharge for FY 2007-08 is \$6.50/af. The \$6.50/af is also added to any treated non-interruptible water that the District purchases.
10. The District incurs a Capacity Charge fee on any purchase of MWD treated non-interruptible water supplies. The Capacity Charge is administered by MWDOC. Recently, MWDOC has made a change on the Capacity Charge which used to be \$14/af. The Capacity Charge is now billed monthly to the District as a flat fee. The Capacity Charge for FY 2007-08 will be \$100,056.
11. The District also incurs a Readiness-To-Serve charge on any purchase of MWD treated non-interruptible water supplies. The fee is expected to increase from \$57,520 (an average estimate used in FY 2006-07) to \$68,409 in FY 2007-08.

The total Water Purchase budget expense for FY 2007-08 is \$28.49 million. The additional revenue generated by the energy reimbursement from the in-lieu program is approximately \$3.16 million, which would reduce the net Water Purchase budget to approximately \$25.33 million.

**Fiscal Year 2007-08 Budget for Water Purchases
(July 1, 2007 to June 30, 2008)**

<u>Item #</u>		<u>Volume (AF)</u>	<u>2007-08 Unit Cost \$/af</u>	<u>MWDOC Surcharge \$/af</u>	<u>Total Cost Amount</u>
1	Metropolitan (MWD) Direct Replenishment at Anaheim Facilities ⁽¹⁾	15,000	\$248	see item #9	\$ 3,720,000
2	MWD In-lieu Replenishment	50,000	\$375	see item #9	\$ 18,750,000
3	Alamitos Barriers Injection from Long Beach Water Dept ⁽²⁾	2,000	\$536	n/a	\$ 1,072,000
4	Treated Non-interruptible MWD water for Talbert Seawater Barrier Injection from MWD OC-44 connection ⁽³⁾	8,000	\$500	see item #9	\$ 3,996,000
5	Arlington Desalter	1,000	\$248	n/a	\$ 248,000
6	San Bernardino Valley Municipal Water District	0	\$150	n/a	\$ -
7	Western Municipal Water District	0	\$150	n/a	\$ -
	Sub-total	76,000			\$ 27,786,000
8	GAP Purchase from IRWD Intertie Water ⁽⁴⁾	2,000	\$84		\$ 168,879
9	For MWD replenishment water deliveries, the surcharge is based upon an 8-Year average of previous deliveries (from MWDOC)		\$6.5		\$ 364,000
10	MWD/MWDOC Capacity Charge ⁽⁵⁾				\$ 100,056
11	Readiness-to-serve charge is based upon an 4-year average of previous treated non-interruptible water sales (from MWDOC) ⁽⁶⁾				\$ 68,409
	Total	78,000			\$ 28,487,344

SUMMARY OF IN-LIEU PROGRAM

In-lieu program costs	50,000	\$375	\$ 18,750,000
In-lieu Revenue (average energy)	50,000	(\$63)	\$ (3,162,500)
In-lieu Revenue (replenishment assessment)	50,000	(\$246)	\$ (12,300,000)
Net In-lieu program costs	50,000	\$66	\$ 3,287,500

NOTES

- (1) Most MWD rates to increase on 1/1/2008. Therefore, the unit cost is average of current and future rate.
Direct replenishment rate to increase from \$238/af to \$258/af in 2008: Average is \$248.00/af
In-lieu replenishment rate to increase from \$360/af to \$390/af: Average is \$375.00/af
Treated Non-interruptible rate to increase from \$482/af to \$517/af: Average is \$499.50/af
- (2) Unit cost includes \$5/af City of Long Beach fee plus RTS and Capacity Charge paid by Long Beach to MWD
- (3) Capacity Charge - Applied to Treated Non-Interruptible MWD water sales
- (4) 50% of GAP unit cost charged to OCS D for GAP supplies per agreement
- (5) MWD/MWDOC Capacity Charge is billed monthly by MWDOC as a flat fee
- (6) Readiness-to-serve (RTS) charge is calculated and provided by MWDOC



Section 6

Basin Equity Assessment

BASIN EQUITY ASSESSMENT (BEA) BUDGET

The objective of the BEA program as authorized by Section 31.5 of the Orange County Water District Act is to make possible more effective management of the groundwater basin, and to equalize water costs within the District.

BEA collections for FY 2007-08 are estimated to be \$1.0 million, which applies to pumping in excess of the basin production percentage (BPP). The District sets the BEA based upon the price of Metropolitan Water District (MWD) Tier II water, which has generally made pumping above the BPP slightly more expensive than purchasing MWD water.

BEA revenue is used to offset the cost of MWD replenishment water. Predicting BEA revenue is difficult as it is determined by: (1) groundwater producers who decide to pump above the BPP; and (2) groundwater producers participating in water quality projects that receive partial BEA exemptions for pumping above the BPP.

BEA revenues expected for pumping above the BPP	\$1,000,000
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Section 7

Capital Improvement Program

Multi-Year Debt Funded CIP Summary
Groundwater Replenishment System Budget
Groundwater Replenishment System ELA Cost
Small CIP Projects Funded by Operating Revenues

**FISCAL YEAR 2007-08
CAPITAL IMPROVEMENT PROGRAM**

The fiscal year 2007-08 Capital Improvement Program (CIP) is provided on the following pages. The CIP has two components: (1) large debt-funded projects and (2) small projects. The small projects each have a cost of less than \$1 million and a typical duration of one year.

The total CIP cost is \$55.8 million. There are nine large debt-funded projects with a total expected FY 2007-08 costs of \$54.3 million in the proposed CIP budget. Excluding the Groundwater Replenishment System (GWR System), the debt-funded CIP cost is \$29.4 million. The budget of debt-funded CIP projects spans three years and provides the expected capital expenditures over that time frame. Eight small capital improvement projects are also included in the FY 2007-08 CIP budget at an estimated cost of \$1.5 million. The funding source of these small capital improvement projects is the operating revenues (PAYGO).

The CIP is primarily driven by the following objectives: (1) increasing the recharge capacity to allow for increased sustainable production out of the groundwater basin; (2) protecting the water quality by removing contaminated groundwater from the basin and providing additional wetlands treatment for Santa Ana River flows; and (3) protecting the coastal portion of the groundwater basin.

Budgeting of project expenditures does not authorize staff to proceed with a project. Each budgeted project must be individually reviewed and formally approved by the Board via the preparation of an Engineer's Report. In addition, the Board would need to approve the design and the construction contracts as/if the project progresses forward.

The expenditures for each project are shown in the fiscal year they are anticipated to occur in. The District has many multi-year projects that require several years to process and construct. Table 7-1 provides a broad summary of the projects in the CIP. Brief description and status of each project are provided on the attached Capital Projects Information sheet.

**TABLE 7-1
SUMMARY OF PROJECTS IN CAPITAL IMPROVEMENT PROGRAM**

PROJECT TYPE	OBJECTIVE
WATER SUPPLY	PROVIDE FOR INCREASED GROUNDWATER PRODUCTION AND CREATE SUPPLIES WHERE ECONOMICAL AS COMPARED WITH MWD RATES.
	Construct facilities to increase recharge capacity and percolation rates to allow for increased groundwater pumping
	Improve existing facilities to increase percolation rates
	Create new water supply (through the GWR System)

PROJECT TYPE	OBJECTIVE
WATER QUALITY	PROTECT THE QUALITY OF THE GROUNDWATER BASIN SUPPLIES.
	Complete EIR for River Road Wetlands
	Construct a new advanced water quality laboratory to provide the ability to analyze water quality and meet current and future testing requirements
	Protect groundwater in north basin by extracting and treating wells threatened by VOC contamination in Anaheim and Fullerton
COASTAL IMPROVEMENTS	MITIGATE FOR EXISTING AND PROJECTED FUTURE PROBLEMS ALONG THE COAST.
	Construct barrier facilities to significantly expand and strengthen the seawater barrier
	Construct additional coastal monitoring well

The cost information for multi-year debt funded projects, excluding the GWR System, is summarized in Table 7-2.

Table 7-3 provides cost information for the GWR System budget. This budget is segregated based on the GWR System subprojects. Table 7-4 provides the GWR System engineering, legal, and administrative cost information.

The OCWD staff work closely with the Board of Directors in processing capital projects. Formal Board approval is required at various stages of a project's life as shown below:

1. Inclusion in OCWD annual budget;
2. Issuance of Request for Proposals for hiring of consultants for fees greater than \$20,000 to assist in processing project documents;
3. Awarding consultant contracts greater than \$20,000;
4. Approval of Feasibility Study Report, if so directed by General Manager;
5. Approval of necessary CEQA documents;
6. Approval of Engineer's Report;
7. Approval of any agreements (i.e. grant funding, interagency);
8. Approve advertising construction contracts;
9. Award of construction contracts;
10. Approval of change orders greater than 5% of construction budget; and
11. Approval of Notice of Completion

The District primarily uses long-term debt to fund capital projects. The District policy for using long-term debt was established in October 2000. The policy calls for the following:

- ◆ Preliminary project expenses related to direct research are to be paid from the general fund;

- ◆ Project expenses for such items as feasibility reports, pilot studies, engineer's reports, compliance with CEQA, and project design and construction may be capitalized and funded with long-term debt; and
- ◆ Project expenses that are capitalized and funded with long-term debt and to which do not lead to construction of a project will require an adjustment by the Accounting Department to pay off the long-term debt incurred using cash reserves.

Capital Projects Information Sheet

Project Name: Chino Creek Wetlands (C05001)

Total Estimated Project Cost: \$8.7 million

Project Description: Approximately 100 acres of new wetlands would be created to treat Chino Creek flows.

Engineer's Report Completed and Approved by Board: No

Funding Source(s): \$2.3 million Prop 13 Grant
2005 COP bond proceeds

Most Recent Board/Committee Review: July 20, 2005 Feasibility Report Review

Project Stage

Staff development per budget Work Plans	_____
Preparing Feasibility Report	_____
Processing CEQA compliance documents	_____
Preparing Engineer's Report	_____
Project under design	_____
Project being constructed	_____
Other (see project status)	_____ ←

Project Status: Project on hold pending property negotiations

Capital Projects Information Sheet

Project Name: Burris Basin Recontouring (C05003)

Total Estimated Project Cost: To Be Determined

Project Description: Regrade the basin to facilitate cleaning and remove clay layers which impede percolation

Engineer's Report Completed and Approved by Board: No

Funding Source(s): 2005 COP bond proceeds
Applied for Prop. 50 Grant funding

Most Recent Board/Committee Review: October 5, 2005 - Approved City of Anaheim grant letter

Project Stage

Staff development per budget Work Plans	
Preparing Feasibility Report	←
Processing CEQA compliance documents	
Preparing Engineer's Report	
Project under design	
Project being constructed	
Other (see project status)	

Project Status: Feasibility report being prepared

Capital Projects Information Sheet

Project Name: La Jolla Recharge Basin (C05008)

Total Estimated Project Cost: \$3.2 million

Project Description: Construct recharge basin near La Jolla Street in Anaheim to increase recharge capacity

Engineer's Report Completed and Approved by Board: June 18, 2003

Funding Source(s): 2005 COP bond proceeds

Most Recent Board/Committee Review: May 17, 2006 Approved EIR

Project Stage

Staff development per budget Work Plans	_____
Preparing Feasibility Report	_____
Processing CEQA compliance documents	_____
Preparing Engineer's Report	_____
Project under design	_____
Project being constructed	_____ ←
Other (see project status)	_____

Project Status: Design has been completed and construction is under way

Capital Projects Information Sheet

Project Name: Advanced Water Quality Assurance Laboratory (C05002)

Total Estimated Project Cost: \$24 million

Project Description: Construct WQ Lab to provide space needed to meet current and future testing requirements to year 2020

Engineer's Report Completed and Approved by Board: Yes

Funding Source(s): 2005 COP bond proceeds

Most Recent Board/Committee Review: February 21, 2007 Board approval to advertise to bid

Project Stage

Staff development per budget Work Plans	_____
Preparing Feasibility Report	_____
Preparing Engineer's Report	_____
Processing CEQA compliance documents	_____
Project under design	_____
Project being constructed	_____ ←
Other (see project status)	_____

Project Status: Design has been completed and construction is under way

Capital Projects Information Sheet

(C05007)

Project Name: River Road Wetlands

Total Estimated Project Cost: \$9.0 million

Project Description: Construct wetlands project upstream of River Road to treat other half of SAR flow

Engineer's Report Completed and Approved by Board: No

Funding Source(s): \$1.2 million Prop. 13 Grant
2005 COP bond proceeds

Most Recent Board/Committee Review: June 15, 2005 - Placed project on hold pending EIR completion

Project Stage

Staff development per budget Work Plans	_____
Preparing Feasibility Report	_____
Preparing Engineer's Report	_____
Processing CEQA compliance documents	←_____
Project under design	_____
Project being constructed	_____
Other (see project status)	_____

Project Status: Project to be placed on hold after completion of EIR

Capital Projects Information Sheet

Project Name: MWD Groundwater Storage Conjunctive Use Project
(C04005 TO C04012)

Total Estimated Project Cost: \$16,115,000

Project Description: Eight new production wells for seven producers as part of the MWD Groundwater Storage Conjunctive Use Project

Engineer's Report Completed and Approved by Board:

Funding Source(s): Prop. 13 Grant funded through MWD

Most Recent Board/Committee Review: March 15, 2006 - Awarded contract

Project Stage

Staff development per budget Work Plans	_____
Preparing Feasibility Report	_____
Processing CEQA compliance documents	_____
Preparing Engineer's Report	_____
Project under design	_____
Project being constructed	←_____
Other (see project status)	_____

Project Status: Above ground facilities are currently being constructed. Phase 2 wells to be constructed.

Capital Projects Information Sheet

Project Name: North Basin Groundwater Protection Project (C05013)

Total Estimated Project Cost: \$22,100,000

Project Description: Construction of extraction and monitoring wells, pipelines, treatment system and radial recharge well for groundwater VOC remediation

Engineer's Report Completed and Approved by Board: Yes

Funding Source(s):

- 2005 COP bond proceeds
- Future settlements
- Possible future bond proceeds

Most Recent Board/Committee Review: November 16, 2005 Board approval of Geologist's/Engineer's Report

Project Stage

Staff development per budget Work Plans	_____
Preparing Feasibility Report	_____
Processing CEQA compliance documents	_____
Preparing Engineer's Report	_____
Project under design	_____ ←
Project being constructed	_____
Other (see project status)	_____

Project Status: Design and construction to be done in phases

Capital Projects Information Sheet

Project Name: Coastal Monitoring Well (C05015)

Total Estimated Project Cost: \$570,000

Project Description: Construction of one monitoring well on Newport Mesa near Adams Avenue to assess effectiveness of new injection wells

Engineer's Report Completed and Approved by Board: Yes

Funding Source(s): 2005 COP bond proceeds

Most Recent Board/Committee Review: November 15, 2006 Board approval to construct monitoring well

Project Stage

Staff development per budget Work Plans	_____
Preparing Feasibility Report	_____
Processing CEQA compliance documents	_____
Preparing Engineer's Report	_____
Project under design	← _____
Project being constructed	_____
Other (see project status)	_____

Project Status: Well site being secured with City of Costa Mesa. Design and construction to be done simultaneously.

Capital Projects Information Sheet

Project Name: Groundwater Replenishment System

Total Estimated Project Cost: \$481 million

Project Description: See attached description under the Capital Improvement Program

Engineer's Report Completed and Approved by Board: Yes

Funding Source(s): 2005 COP bond proceeds
OCSD participation
State loans
Grants

Most Recent Board/Committee Review: On-going

Project Stage

Staff development per budget Work Plans	_____
Preparing Feasibility Report	_____
Processing CEQA compliance documents	_____
Preparing Engineer's Report	_____
Project under design	_____
Project being constructed	←_____
Other (see project status)	_____

Project Status: See attached description under the Capital Improvement Program

GROUNDWATER REPLENISHMENT SYSTEM – Project #9

Purpose of Project

The GWR System is a jointly funded project of OCWD and OCSD. OCWD is the lead or constructing agency. The GWR System is a water supply project designed to reuse approximately 72,000 afy of advanced treated wastewater (recycled water). The project will supplement existing water supplies by providing a new, reliable, high-quality source of water to recharge the Orange County groundwater basin (the basin) and to protect the basin from further degradation due to seawater intrusion. It will also postpone the need for OCSD to construct a new ocean outfall by diverting flow that would otherwise be discharged to the Pacific Ocean.

Scope of Project

The GWR System will be comprised of three major components: (1) Advanced Water Purification Facilities (AWPF) and pumping stations; (2) a major pipeline connecting the treatment facilities to existing recharge basins; and (3) extension of an existing seawater intrusion barrier. Phase 1 of the GWR System will have a nominal rated product water capacity of 70 mgd. Timing of future phases will be determined by projected flow requirements for anticipated water demands.

The construction of the GWR System will consist of the following seven major construction contracts:

- Southeast Barrier Pipeline
- Phase I GWR System Plant (also referred to as Temporary Microfiltration and Site Power Distribution)
- Advanced Water Purification Facility (also referred to as Advanced Water Treatment Facility)
- Barrier Facilities (Well Drilling, Wellhead Facilities and West Barrier Pipeline)
- GWR System Pipeline Unit I – Advanced Water Purification Facility to 17th Street
- GWR System Pipeline Unit II – 17th Street to Katella Avenue
- GWR System Pipeline Unit III – Katella Avenue to Kraemer Basin

The Southeast Barrier Pipeline Contract was completed in FY 2003-04, Phase I GWR System Plant was completed in FY 2004-05. The GWR System Pipeline Unit III and the Barrier Facilities were completed in FY 2005-06. The GWR System Pipeline Units I and II were completed in FY 2006-07. A description of the remaining contract is listed below.

Advanced Water Purification Facility (AWPF) Contract

The AWPF contract includes all structures, piping and facilities that are within the boundaries of the OCWD and OCSD treatment site located at Ellis Avenue and Ward Street in Fountain Valley. Facilities include the Screening Facility at OCSD's Plant No. 1, the 96-inch diameter influent pipeline from the Screening Facility to Microfiltration Facility, Microfiltration Facility (86 mgd filtrate), Microfiltration Break Tank, Reverse Osmosis Facility (70 mgd permeate), Ultraviolet (UV) light System (70 mgd product),

Chemical Feed/Lime Stabilization System, Product Water/Barrier Pump Station, and all yard piping. Included in the AWPf contract are all electrical, instrumentation, and process control systems associated with each facility. The pre-selection contracts for Microfiltration and UV equipment were assigned to the Contractor for installation of that equipment. Work also includes Category 2 demolition of remaining obsolete Water Factory 21 facilities including Backwash Water Tank, Chlorine Facilities, Control Room, Reverse Osmosis Plant, and Carbon Contact and Regeneration Facilities.

The GWR System computerized control and information system will be called the Process Control System (PCS). The PCS will consist of an informational network and a process control network. The Systems Integrator will be responsible for programming the informational links between the PCS, Financial Information System (FIS), Computerized Maintenance Management System (CMMS) and other systems in order to exchange data and communicate over the information network. The PCS will be installed and programmed by the control systems provider under the contract, which provides that particular system (i.e., Microfiltration, UV, Reverse Osmosis).

The start-up of the AWPf is scheduled for September 2007, with the final project completion in December 2007.

**TABLE 7-2 FISCAL YEAR 2007-08
MULTI-YEAR DEBT FUNDED CAPITAL IMPROVEMENT PROGRAM SUMMARY**

	Fiscal Year	Salaries	Benefits	Salaries & Benefits	Pre-design	Design	Construction	Total
ACCOUNT NO: COST CODE					2000	3000	40010	
Grand Total	2007-08	391,585	122,028	513,613	130,000	2,096,000	26,676,000	29,415,613
	2008-09	0	0	0	0	496,000	24,975,400	25,471,400
	2009-10	0	0	0	0	0	11,700,000	11,700,000

JDE PROJECT NO.	Project Name	Project Description	Fiscal Year	Salaries	Benefits	Salaries & Benefits	Pre-design	Design	Construction	Total	Project Details	Dept.
1	C05001	Chino Creek Wetlands Restore habitat and develop Wetlands to treat Chino Creek flows. Estimated Total Capital Cost: \$8,700,000	2007-08	-	-	-	130,000	500,000		630,000	Project is on hold pending property negotiations.	1070
			2008-09			-			3,000,400	3,000,400		
			2009-10			-			4,000,000	4,000,000		
			3-Year Project Total									
2	C05003	Burris Basin Recontouring Reconstruction of Burris Basin to level existing grades to facilitate cleaning and remove clay layers which impede percolation. Estimated Total Capital Cost: To Be Determined	2007-08	26,429	8,098	34,527	-	500,000	-	534,527	A Feasibility Study is currently being developed to determine the scope of the project. Estimate of the total project cost will be determined upon the completion of feasibility study.	1070
			2008-09			-			-	-		
			2009-10			-			-	-		
			3-Year Project Total									
3	C05008	La Jolla Recharge Basin Construction of a recharge basin near La Jolla Street in Anaheim to increase recharge capacity. Estimated Total Capital Cost: \$3,200,000	2007-08	45,468	13,704	59,172	-	-	2,800,000	2,859,172	Design has been completed and construction is under way.	1070
			2008-09			-			-	-		
			2009-10			-			-	-		
			3-Year Project Total									
4	C05002	Advanced Water Quality Assurance Laboratory Construct a new Water Quality Lab to provide space needed to meet current and future testing requirements to 2020. Estimated Total Capital Cost: \$25,000,000	2007-08	115,608	36,902	152,510	-	-	16,000,000	16,152,510	Design is completed and construction is under way.	1070
			2008-09			-			7,000,000	7,000,000		
			2009-10			-			-	-		
			3-Year Project Total									
5	C05007	River Road Wetlands Construct wetlands project upstream of River Road to treat other half of Santa Ana River flow. Estimated Total Capital Cost: \$9,000,000	2007-08	14,134	4,353	18,487	-	600,000		618,487	An EIR/EIS is currently being developed for CEQA compliance. It is anticipated that design would begin towards the end of FY 2007-08 and construction to be completed in 2009.	1070
			2008-09			-			8,200,000	8,200,000		
			2009-10			-			-	-		
			3-Year Project Total									
6	C04005 to C04012	MWD Groundwater Storage Conjunctive Use Project/Prop.13 Funded through MWD Construction of eight production wells for seven groundwater producers as part of the MWD Groundwater Storage Conjunctive Use Project. Estimated Total Capital Cost: \$17,460,136	2007-08	18,350	5,265	23,615	-	-	3,413,000	3,436,615	Two drilling contracts have been completed and one construction contract remains. The well equipment contract involves installation of wellhead equipment at 8 well sites.	1070
			2008-09			-			-	-		
			2009-10			-			-	-		
			3-Year Project Total									

**TABLE 7-2 FISCAL YEAR 2007-08
MULTI-YEAR DEBT FUNDED CAPITAL IMPROVEMENT PROGRAM SUMMARY**

JDE PROJECT NO.	Project Name	Project Description									Project Details	Dept.
			Fiscal Year	Salaries	Benefits	Salaries & Benefits	Pre-design	Design	Construction	Total		
7 C05013	North Basin Groundwater Protection Project	Construction of extraction and monitoring wells, pipelines, treatment system and radial recharge well for groundwater VOC remediation. Estimated Total Capital Cost: \$22,100,000	2007-08	118,477	37,534	156,011	-	496,000	3,963,000	4,615,011	FY07-08 budget includes continued construction and testing of 5 extraction and 12 monitoring wells, modeling to provide water quality and flow data to proceed with design, topo surveying, exploratory boring for radial well, and communication relations.	1075
			2008-09			-		496,000	6,775,000	7,271,000		
			2009-10			-			7,700,000	7,700,000		
			3-Year Project Total									
8 C05015	Coastal Monitoring Wells	Construction of one monitoring well on Newport Mesa near Adams Avenue Estimated Total Capital Cost: \$568,000	2007-08	53,119	16,172	69,291	-	-	500,000	569,291	FY07-08 budget includes construction of a multi-depth monitoring well on the Newport Mesa near Adams Avenue. Budget includes outside construction management services.	1075
			2008-09			-						
			2009-10			-						
			3-Year Project Total									

**TABLE 7-3
FY 2007-08**

GROUNDWATER REPLENISHMENT SYSTEM BUDGET

Project Name/ID	Project Description	FY	Salaries & Benefits	Design	Construction	Contingency	Administration	Total
Groundwater Replenishment System	New dependable 72,000 acre foot per year water supply.	FY 07-08	1,008,233	0	21,500,000	0	-	22,508,233
		FY 08-09		0	0	0	-	0
		FY 09-10		0	0	0	-	0
			1,008,233	0	21,500,000	0	0	22,508,233

Groundwater Replenishment System Subprojects

Project Name/ID	Project Description	FY	Salaries & Benefits	Design	Construction	Contingency	Total	3-Year Total
Advanced Water Purification Facility GWSAT	Construction of 70 mgd MF/RO/UV Treatment Facility and Pump Station to supply project water.	FY 07-08			21,000,000		21,000,000	
		FY 08-09			0		-	
		FY 09-10					-	
Integrated Information System GWSIS	System that links the PCS, FIS, CMMS and AS programs together	FY 07-08			500,000		500,000	
		FY 08-09			0		-	
		FY 09-10					-	

Table 7-4
GWR System
Engineering, Legal and Administrative Cost

Item	Cost
Camp Dresser & McKee	\$ 200,000
Carl Nelson	\$ 5,000
DDB Engineering	\$ 10,000
Geo-Environmental	\$ 50,000
Laura Thomas	\$ 100,000
Miscellaneous Items	\$ 500,000
Montgomery Watson Harza	\$ 1,000,000
Orange County Reprographics	\$ 10,000
Faubel Public Affairs	\$ 200,000
Rutan & Tucker	\$ 40,000
Separation Processes, Inc.	\$ 100,000
TGR Geotechnical	\$ 100,000
Woodruff, Spradlin & Smart	\$ 25,000
Total	\$ 2,340,000

Descriptions of Small Capital Projects

The projects proposed in this section are relatively small in nature and/or the life of the project is relatively short. It would not be a good business practice to use long-term debt to fund these projects. These projects are all funded by the District's operating revenues under the PAYGO program.

Table 7-5 provides the cost information for eight small capital projects to be funded by operating revenues. The detailed descriptions of these eight small capital projects are summarized below:

Santiago Creek Grading

The District currently recharges about 10 cubic feet per second in Santiago Creek downstream of the Santiago Pits. The amount the District can recharge is limited by the geometry of the creek channel. In November 2005, staff presented a Feasibility Study to the Board that evaluates grading to smooth out the channel, which would increase the area over which water will spread and thereby increase the recharge rate. Based on the Feasibility Study, the proposed project is anticipated to be beneficial to the District. Staff has prepared an Engineer's Report for Board consideration in spring 2007. Staff has also been preparing the environmental documents and permit applications for this project.

Desilting Basin for Miller Basin Cleaning Vehicle

The clogging material removed by the BCV in Miller Basin is currently disposed of in a portion of Kraemer Basin. In order to maximize the percolation capacity of Kraemer Basin, this practice will be stopped prior to the start of the pipeline replacement project in Kraemer Basin. As a result, concrete desilting basins, which were previously constructed for the BCVs at Weir Pond 3 and Five Coves Basins, will need to be constructed at Miller Basin. The desilting basins will be designed to collect the clogging material and discharge cleaned water back to Miller Basin for recharge.

Barrier Workshop Improvement

The primary need for the mezzanine in the Talbert Barrier workshop is to gain more workspace and provide additional storage space. The workshop was originally designed to provide the Talbert Barrier Operations a place to work on equipment and to store parts and supplies. Since the design occurred, the Geology Department has also requested to use the workshop to store some of their department supplies and equipment.

As the Talbert Barrier Group continues to focus on the Talbert Barrier, it appears that the Barrier Group will also take over the operation of the GAP pipeline (50 miles) and the new GWR System pipeline from Fountain Valley up to Forebay (14 miles). Many parts and some new equipment will need to be stored in the workshop to accomplish the new responsibilities.

The Geology Department recently purchased a pump hoist that both the Geology Department and the Barrier Group use to provide well maintenance. This hoist costs approximately \$50,000 and the best way to extend the life of the machine is to keep it out of the elements. With the mezzanine, staff would be able to park the rig inside the workshop and still accommodate other storage needs.

Water Quality Workshop Improvement

Similar to the Barrier workshop improvement, the primary need for the mezzanine in the Water Quality workshop is to gain more workspace and provide additional storage space. The installation of a mezzanine in the Water Quality workshop will increase the useable work space by utilizing open air space for storage. With increasing water sampling needs, additional storage space must be created. This project will be combined with the Barrier workshop improvement in an effort to achieve cost saving opportunities.

Anaheim Lake Landscaping

Staff has developed a multi-year project to improve the landscaping at Anaheim Lake. Over the past several years, the landscaping at the lake has deteriorated due to loss of trees. The causes of loss of trees are disease and an aging irrigation system. Phase 1 of the project, which was completed in FY 2006-07, included the replacement of the irrigation system and the installation of new landscaping along the eastern edge of Anaheim Lake on Tustin Avenue. The landscaping at Anaheim Lake along Tustin Avenue had made this area much more attractive and helped to allay concerns expressed by City of Anaheim officials on the condition of the District's recharge facilities. Phase 2 of the project includes the replacement of the old and aging irrigation mainline on the north shore of Anaheim Lake (approximately 2,600 feet of mainline). The aging irrigation mainline is estimated to be greater than 20 years old.

Alamitos Barrier Seawater Intrusion Investigation

The goal of this proposed project is to investigate specific areas of seawater intrusion and to provide data to support potential Engineer's Report for seawater intrusion barrier improvements. During the FY 2007-08, two deep monitoring wells with depths of approximately 300 feet will be constructed along southeastern portion of barrier in areas of increased salinity. Staff's analysis of historical data indicates that the southeastern portion of the barrier, along Westminster Avenue, requires additional injection wells to create sufficient hydraulic pressure to control seawater intrusion. The proposed monitoring wells will allow staff to determine the number, depths, and locations of potential future injection wells.

Lower Santiago Creek Recharge Evaluation

The goal of this proposed project is to provide hydrogeologic data needed to determine the feasibility of recharging along two-mile stretch of lower Santiago

Creek downstream of Hart Park. During the FY 2007-08, three deep monitoring wells with depths of 300 feet will be constructed adjacent to the Santiago Creek to identify potential aquitards that would impede recharge to the Principal aquifer. This section of Santiago Creek lies at the transition between the basin's intake or Forebay area and the Pressure Area, so it is unclear whether water recharged along this section will reach the Principal aquifer system or will stay in the Shallow aquifer system due to intervening clay/silt layers. Water level and geologic data from the proposed wells will allow staff to determine the potential hydraulic connection to the Principal aquifer in this area.

Burriss Pit Return Pipeline

This project was originally a portion of the Santiago Pits Pump Station Project. This work was deleted from the contractor's work due to operational constraints at the time of construction. The project consists of a 36-inch pipeline that returns water from the Santiago Pipeline to the Burriss Pit. The materials for the pipeline were received from the contractor on the Santiago Pits Pump Station. However, the pipeline was not installed as the water levels could not be lowered in Burriss Pit during the construction period. The pipeline was previously designed as a portion of the Santiago Pits Pump Station and is currently being prepared as a separate bid package. Construction will be carried out to minimize any impacts to operations.

TABLE 7-5 FISCAL YEAR 2007-08
PROGRAM SUMMARY
SMALL CAPITAL IMPROVEMENT PROJECTS FUNDED BY OPERATING REVENUES

Project Name/ID	Project Description	Fiscal Year	Salaries	Benefits	Salaries & Benefits	Pre-design	Design	Construction	Total	Project Details	Dept.		
<i>COST CODE</i>						2000	3000	40010					
Total		2007-08	157,982	51,344	209,326	0	20,000	1,294,000	1,523,326				
1	C05011	Santiago Creek Grading	Grading of Santiago Creek bottom upstream of Hart Park to increase recharge rate	2007-08	24,962	7,559	32,521		20,000	250,000	302,521	Feasibility Study presented to the Board in December 2005. Engineer's Report to be prepared.	1070
2		Desilting Basin for BCV	Construction of a desilting basin for Miller Basin BCV	2007-08			-			250,000	250,000	Construct a desilting basin for Miller Basin BCV.	1060
3		Barrier Workshop Improvement	Addition of a Mezzanine in Talbert Barrier operations workshop	2007-08			-			44,000	44,000	Installation of a Mezzanine in the Talbert Barrier workshop to increase useable work space by utilizing open air space for storage. This project will be combined with Water Quality workshop improvement to achieve cost saving opportunity.	1050
4		Water Quality Workshop Improvement	Addition of a Mezzanine in Water Quality workshop	2007-08			-			25,000	25,000	Installation of a Mezzanine in the Water Quality workshop to increase useable work space by utilizing open air space for storage. This project will be combined with Barrier workshop improvement to achieve cost saving opportunity.	1036
5	C06001	Anaheim Lake Landscaping	Replacement of old irrigation mainlines, valves, clocks and landscape plants in Anaheim Lake.	2007-08			-			50,000	50,000	Phase 2 of three phases project. Phase 2 includes installation of 2,600 feet of irrigation mainline on north shore of Anaheim Lake.	1060
6		Alamitos Barrier Seawater Intrusion Investigation	Investigate areas of seawater intrusion and provide data to support potential Engineer's Report for barrier improvements	2007-08	56,831	18,528	75,359			250,000	325,359	Construction of two approximately 300-foot deep monitoring wells along southeastern portion of barrier in area of increased salinity.	1075
7		Lower Santiago Creek Recharge Evaluation	Provide hydrogeologic data needed to determine feasibility of recharging along 2-mile stretch of lower Santiago Creek downstream of Hart Park	2007-08	64,995	21,916	86,911			350,000	436,911	Construction of three approximately 300-foot deep monitoring wells adjacent to the creek to identify potential aquitards that would impede recharge to Principal aquifer.	1075

**TABLE 7-5 FISCAL YEAR 2007-08
PROGRAM SUMMARY
SMALL CAPITAL IMPROVEMENT PROJECTS FUNDED BY OPERATING REVENUES**

Project Name/ID	Project Description	Fiscal Year	Salaries	Benefits	Salaries & Benefits	Pre-design	Design	Construction	Total	Project Details	Dept.	
<i>COST CODE</i>						2000	3000	40010				
8 C5017	Burris Pit Return Pipeline	Install previously purchased pipe in Burris Pit to discharge flow from Santiago Pit pump station	2007-08	11,194	3,341	14,535			75,000	89,535	Rescheduled work that was part of original Santiago Pits pump station project. This project allows for return flow to Burris Pit for operational flexibility.	1070
Total Funded by Operating Revenues (2007-08)									\$ 1,523,326			



Section 8 New Equipment (Fixed Assets)

New Equipment Budget Funded by Operating Revenues
New Equipment Budget Funded by Commercial Paper

New Equipment (Fixed Assets)

This section describes the new equipment items proposed for FY 2007-08.

There are 28 new equipment items listed in Table 8-1. These items would be funded using operating revenues.

There are five new equipment items for the laboratory listed in Table 8-2. These items would be funded using the Commercial Paper program. The estimated lifetime of each of these five items is approximately ten years.

There is a total of eight new road vehicles included in the new equipment list (Table 8-1). One of these vehicles is an additional vehicle and the other seven are replacement vehicles. All vehicles have been selected based on the Vehicle Replacement Policy established by the District in May 2006. While over 20 vehicles were eligible per the policy, staff had initially submitted 16 vehicles that required replacement. The assistant general managers reviewed all vehicles and identified eight that should be replaced. There are currently 82 road vehicles operating within the organization.

**Table 8-1
FY 2007-08 PROPOSED NEW EQUIPMENT BUDGET
FUNDED BY OPERATING REVENUES**

	Item Name	Item Description	Department	Budget Amount
Communication Stakeholder Support (1012)				
1	Passenger Transport Cart	Tours/Visitors 8-passenger Transport Cart	Communication (1012)	12,000
		Total	Communication	12,000
Information Services (1016)				
2	Power Supply	Information Services - additional frame, power module and battery string for UPS power supply	Information Services (1016)	25,000
3	ArcGIS Server	Hydrogeology - Windows server to be used as the server for ArcGIS by the Hydrogeology department	Information Services (1016)	18,000
4	Network Firewall	Information Services - replace current software-based network with hardware network firewall to provide increased network traffic and security	Information Services (1016)	15,000
5	Network Monitoring Hardware	Information Services - network monitoring hardware and/or software to monitor new network data switches - for detecting and isolating network problems and faults	Information Services (1016)	15,000
		Total	Information Services	73,000
Purchasing (1022)				
6	Replace electric carts	Two electric carts used by warehouse technicians to deliver supplies to administration building, trailers and new buildings are in poor condition and must be replaced	Purchasing (1022)	13,000
7	Commercial Vacuum	Commercial vacuum for sweeping the warehouse	Purchasing (1022)	6,900
		Total	Purchasing	19,900
Water Quality (1036)				
8	Vehicle (Truck) - Traffic Control	Replace T60; 1989. T60 is an 18-yr old traffic control (TC) vehicle equipped with an arrow panel required for traffic control set-ups for sampling tasks performed at wells located in streets. The truck remains running throughout the sampling day to run the TC lights and charging system. Breakdowns occur frequently including tows back to the District, over a dozen battery jump starts, clutch replacement, and major electrical short-out in the past year. It has an on-going electrical shortage problem and is difficult to control (steering) above 45 mph, limiting its use to local FV/HB area only.	Water Quality (1036)	45,000
9	Vehicle (Truck)	Last year, increased monitoring requirements (12 new compliance sites in the Forebay) have required use of multiple vehicles to transport sample bottles, coolers and equipment to monitoring sites. Productivity and efficiency were reduced in other field programs caused by routine shortage of vehicles. A new small pickup truck will be used for field sampling events not requiring use of extensive ancillary equipment and will be used for routine purveyor compliance sampling (including increased monitoring with the onset of UCMR2), water level routes, and sample deliveries to contract laboratories.	Water Quality (1036)	19,000
		Total	Water Quality	64,000

**Table 8-1
FY 2007-08 PROPOSED NEW EQUIPMENT BUDGET
FUNDED BY OPERATING REVENUES**

	Item Name	Item Description	Department	Budget Amount
Laboratory (1038)				
10	Zymark Turbo Vap concentrators	Four Zymark - Turbo Vap extract concentrators (replace two 12-year old ones and purchase two new systems for higher capacity requirements)	Laboratory (1038)	28,000
11	Cryo fridge - sample and extract storage refrigerators	Replacement of three 18-year old cryo sample refrigerators used for extract and sample storage	Laboratory (1038)	21,000
			Total	49,000
Research & Development (1040)				
12	Vehicle (Minivan)	Replace A-48 (Ford Aerostar); 1990. It's more costly to replace fuel pump unit, brake master cylinder, and other parts due to the availability of old parts in the market. Recent repair costs and downtime have increased significantly. Towing has been an issue as well. Staff inefficiencies are caused by the old vehicle that will be improved by the new vehicle.	Research & Development (1040)	26,000
			Total	26,000
Water Production/GWR System (1050)				
13	Flatbed carts	4 flatbed carts 1,500 lbs capacity with ladder rack for moving tools and equipment around GWR System facility	Water Production (1050)	52,000
14	Electrical carts	4 electrical carts for transportation within the new GWR System treatment plant	Water Production (1050)	40,000
15	Vehicle (Truck)	New vehicle for barrier maintenance technician new hire and pipeline inspections	Water Production (1050)	25,000
16	Data Logger	To be installed in M-26 to capture real time barrier performance. This technology is being considered at other points along barrier to help monitor water levels as injection into the Talbert Barrier is increased	Water Production (1050)	15,000
17	Tow Safety Arrow Boards for Traffic Control	2 towing solar safety arrow boards. Finding that more routine work in streets is requiring more than one board	Water Production (1050)	12,000
18	Intrusion Alarms	Addition of intrusion alarm at new GWR System injection wells to help protect assets	Water Production (1050)	11,000
19	Thermal Imager	Fluke thermal imager device to measure temperature of equipment. Helps identify issues with equipment to avoid more costly repairs of equipment	Water Production (1050)	7,000
20	10kv Megger	Megger is used to identify electrical shorts or motor winding integrity on large GWR System equipment	Water Production (1050)	5,500
			Total	167,500

**Table 8-1
FY 2007-08 PROPOSED NEW EQUIPMENT BUDGET
FUNDED BY OPERATING REVENUES**

	Item Name	Item Description	Department	Budget Amount
Recharge Operations (1060)				
21	Utility Truck Bed	Groundskeepers truck utility bed	Recharge Operations (1060)	35,000
22	Vehicle (1/2 Ton Truck)	Replace T-87; 1997. Truck is used daily by hydrographer in off-road conditions. Truck is showing signs of significant mechanical problems, including transmission problems. It is estimated that near-term repairs will total \$5,500 and future repairs will be approximately \$2,100. Current Blue-Book value for the truck is \$5,100.	Recharge Operations (1060)	30,000
23	Turbidity Meters/Pumps	Turbidity meters, pumps and pertinent equipment needed to collect turbidity data for desilting study	Recharge Operations (1060)	15,000
24	Mower	Replace Mower No. 2; 1996; 1,355 hours	Recharge Operations (1060)	13,000
25	Arrow Board	Arrow board to provide directions to drivers during lane closures	Recharge Operations (1060)	6,000
			Total	99,000
Wetland Operations (1062)				
26	Vehicle (1/2 Ton Truck)	Replace T-55; 1991. Currently inoperable due to major transmission & engine fluid leaks (est. \$5,000 to repair). Utility bed truck - not suited for Prado conditions. Assignee: recently approved new position - Environmental Specialist.	Wetland Operations (1062)	30,000
27	Vehicle (1/2 Ton Truck)	Replace T-90; 1992. Repair costs >\$4,000 in FY 2006-2007. Advanced state of corrosion adversely affecting electrical system (needs wiring loom), frame/body heavily rusted. Assignee: Environmental Specialist (T. Wiater).	Wetland Operations (1062)	22,000
			Total	52,000
Engineering (1070)				
28	Vehicle (Ford Explorer)	Replace A-56; 1996. Suspension is in unsafe condition due to heavy use in off road conditions. Engine power has notably declined and lags heavily. Interior is in poor condition from 11 years of field use.	Engineering (1070)	30,000
			Total	30,000
Grand Total for New Equipment Funded by Operating Revenues				\$ 592,400

New Equipment (Fixed Assets) Funded by Commercial Paper Program

Because of the larger five new laboratory equipment items, short-term debt (repaid over five years) will be used to fund the items using the District's Commercial Paper Program.

Laboratory

Gas Chromatograph/Mass Spectrometer - for EPA method 524.2 - VOCs (\$120,000)

EPA method 524.2 is used for the analysis of volatile organic compounds (VOCs) such as trichloroethylene (TCE), benzene, methyl tert-butyl ether (MTBE) and many others. EPA method 524.2 is one of the most critical methods utilized in the District's monitoring programs. This method has the capability of analyzing 78 specific target compounds. Currently, the laboratory operates a VOC analytical system that has a mass spectrometer that is approximately 9-years old, and a gas chromatograph that is over 19 years in age. The system is used on a daily basis to support both the GWR System and the basin monitoring requirements, and is reaching its limits on the instrument lifetime. VOCs are the most commonly detected organics in the basin and the treatment plant monitoring programs, and require state-of-the-art instrumentation to sustain the ever-increasing regulatory requirements and the scope of analysis. While this system currently generates acceptable data, the laboratory cannot be impacted by a catastrophic failure of this instrument's monitoring support. This system has shown to have increasing maintenance problems and analytical downtime, and requires an increase in staff resources to be focused on this unit. The laboratory is requesting funds to be allocated in the budget cycle of this upcoming fiscal year to support the replacement of this unit. The main benefits from the new system include improved system sensitivity and sample throughput. Without this system, the laboratory cannot meet the current workload demands.

Gas Chromatograph/Mass Spectrometer - for EPA method 521 – NDMA (\$120,000)

The District's laboratory is requesting the purchase of a replacement gas chromatograph/mass spectrometer (GC/MS) to support the EPA method 521 for the analysis of nitrosamines. The current GC/MS was brought on-line eight years ago to support the analysis of nitrosodimethylamine (NDMA) for both the treatment plant and the basin monitoring programs. Since that time, this system has processed thousands of samples for NDMA, and helped sustain the District's ability to meet the regulatory levels, as well as support the specifications of UV treatment systems for the GWR System. NDMA analysis will continue to be a critical analysis parameter for years to come. However, analytical demand has since expanded to include more of these other nitrosamines under the EPA method 521. This method will be required in the monitoring under the GWR

System permit and the Unregulated Contaminate Monitoring Rule requirements (UCMR2). Both monitoring requirements demand significant supports from the laboratory. This requires an analytical system with much greater sensitivities and software control of the critical Ion-Trap operating functions needed to generate acceptable data. The laboratory is requesting the replacement of this GC/MS system to provide for proper support of the GWR System permit and the UCMR2 monitoring programs which require an analytical system of greater capability. The benefit of this GC/MS system would be the ability to provide full support to the UCMR2 monitoring as well as basin and GWR System demands.

Lachat QuickChem 8500 – Flow Injection Analyzer (FIA)
(\$68,000)

There are two flow injection analyzers (FIA) units currently operating in the inorganic section of the laboratory. There is an immediate need to replace the 13-year old FIA system which is currently providing support for TKN, phosphate and ammonia. These analyses are critical parameters monitored in both the GWR System and the basin programs. The current system, while still in operation, has more than covered its expected analytical lifetime. These parameters are measured daily in the laboratory, and the 13-year old unit is showing signs of age with increased downtime and maintenance repairs. Funds should be budgeted in this upcoming fiscal year for the eventual replacement of this FIA unit.

Horizon SPE-DEX 4790 Extractors
(\$50,000)

The organic section continues to experience increasing number of available extraction methods in its effort to increase the laboratory analytical capability. This task has placed a significant impact on the extraction process which the laboratory has tried to automate as much as possible. This focus on automation improves work efficiency and helps to reduce labor impacts, and has demonstrated to be successful for many years. The current extractors cannot keep up with the work demand, and, thus, the laboratory is requesting additional extractors in the budget cycle of this upcoming fiscal year. The extractors are used for all methods utilizing the solid phase extraction process with the 47-mm disk. The system is used in support of the GWR System and the basin monitoring programs.

Autotitrator System
(\$50,000)

The current autotitrator system is a nine-year old unit. This system is utilized daily in support of the GWR System treatment plant operations and all basin

monitoring programs. Specific water quality analyses include pH, total alkalinity, and amperometric chlorine. The laboratory has experienced an increase in problems with the operation of this unit, and has actually suffered samples expiring on the system due to the instrument lock-ups. The maintenance on the system continues to rise and places a burden on this analysis support. The sample load continues to be high on this unit and is projected to increase as the GWR System plant comes on-line, particularly, in support of the amperometric chlorine. The system requires manual change over from amperometric chlorine to alkalinity everyday, which has caused some sample coordination problems. The laboratory staff believes that the majority of problems are caused by this change over step. The replacement system would eliminate many of these issues, and reduce the potential of instrument malfunctions. The new unit also provides the ability to analyze for electrical conductivity with an automated approach; thus, helping to improve labor impacts within the inorganic section of the laboratory. In the meantime, the laboratory will continue to run the existing autotitrator until it can no longer function.

**Table 8-2
FY 2007-08 PROPOSED NEW EQUIPMENT BUDGET
FUNDED BY COMMERCIAL PAPER**

	Item Name	Item Description	Department	Budget Amount
1	VOC GC/MS	Replacement of 1a 9-year old VOC GC/MS operating on EPA Method 524.2	Laboratory	120,000
2	NDMA GC/MS	Replacement of a 8-year old NDMA GC/MS operating on EPA Method 521	Laboratory	120,000
3	QuickChem FIA	Flow Injection Analyzer used for TKN, phosphate and ammonia analyses	Laboratory	68,000
4	Extractors	Horizon automated solid phase extractors to process samples for extraction	Laboratory	50,000
5	Autotitrator	Automatic titrator to analyze for pH, alkalinity, amprometric chlorine and EC	Laboratory	50,000
Total Laboratory				408,000
Grand Total for New Equipment Funded by Commercial Paper				\$ 408,000



Section 9

Replacement and Refurbishment Fund

REPLACEMENT AND REFURBISHMENT BUDGET

The District has over \$500 million in assets that will need to be replaced or refurbished at some point in the future. To prevent additional pressure on the Replenishment Assessment, a replacement and refurbishment model was developed in 1998, which includes all District assets and uses engineer's estimates for the useful life of each asset. This model is capable of forecasting future costs and required revenue streams and is updated annually.

The Replacement and Refurbishment fund was originally funded in FY 1998-99 with \$15 million from the District Replacement Reserves and \$20 million from the Orange County bankruptcy proceeds. The District previously made an annual contribution of \$4.8 million from the General Fund.

In 2004, the District significantly modified the R&R Fund whereby only infrastructure type assets are now included in the program. This reduction of the Fund's scope allowed for the annual contribution to be lowered to \$2.8 million in FY 2004-05. To provide for a projected 25-year life of the fund, the annual contributions will increase at seven percent annually. For FY 2007-08, the contribution will be \$3.53 million. Approximately \$1.3 million in interest is estimated to accrue to the fund in FY 2006-07.

An additional R&R fund contribution will be annually made with the construction completion and operation of the GWR System of \$4.5 million. This amount will be reduced to \$2.63 million in FY 2007-08 as the plant will only be operating for seven months ($\$4.5 \text{ million} \times 7/12$). Thus, the total contribution into the R&R fund, including interest, is \$7.5 million ($\$3.53 + \$1.3 + \2.63 million).

Actual expenditures from the fund vary significantly each year depending upon which District assets have reached the end of their useful life and need to be replaced or which assets can have their lives extended by refurbishing them. In FY 2007-08, the proposed R&R expenses include four major items estimated to cost over \$0.5 million:

- Reconstruction of the Prado Wetlands (from flood damage suffered in FY 2004-05).
- Repairs and modifications to the pipeline that delivers recharge water to Kraemer Basin and Miller Basin.
- Cathodic protection for pipelines that serve the Alamitos Injection Barrier and the Green Acres Project.

The actual proposed expenditures for FY 2007-08 are \$10.57 million, of which \$5.0 million would be reimbursed through disaster relief funds (from FEMA and State Office of Emergency Services), for a net cost of \$5.57 million.

**ORANGE COUNTY WATER DISTRICT
FY 2007-08 PROPOSED REPLACEMENT & REFURBISHMENT FUND REQUESTS**

Item	Description	Department	Salary & Benefits	Project Cost	Total Project Cost	Asset Class	Refurbishment or Replacement	Asset Age (Years)
Water Production (1050)								
1	GAP pipeline	Water Production (1050)		\$ 600,000	\$ 600,000	Pipe/pipeline	Refurbishment	15
2	Worn carpet in administration building	Water Production (1050)	\$ -	\$ 182,000	\$ 182,000	Building	Replacement	16
3	Painting and replacement of wall coverings in administration building	Water Production (1050)	\$ -	\$ 77,000	\$ 77,000	Building	Replacement	16
4	Relocation and packing services to replace carpet and move cubicles	Water Production (1050)	\$ -	\$ 70,000	\$ 70,000	Building	Replacement	16
5	Access hatches	Water Production (1050)	\$ -	\$ 25,000	\$ 25,000	Other	Replacement	16
6	AO1-VFD-6200 & AO2-VFD-6200	Water Production (1050)	\$ -	\$ 15,000	\$ 15,000	Other	Replacement	15
7	Pressure/flow regulating valve	Water Production (1050)	\$ -	\$ 10,000	\$ 10,000	Other	Refurbishment	7
8	5 ton HVAC unit on annex building	Water Production (1050)	\$ -	\$ 8,000	\$ 8,000	Building	Replacement	17
9	Analyzer 320-AIT-6635	Water Production (1050)	\$ -	\$ 6,600	\$ 6,600	Other	Replacement	10
10	Flowmeter 320-FIT-0862	Water Production (1050)	\$ -	\$ 6,200	\$ 6,200	Other	Replacement	10
		TOTAL	Water Production (1050)	\$ -	\$ 999,800	\$ 999,800		
Recharge (1060)								
11	Kraemer-Miller Basin Pipelines	Recharge (1060)	\$ 13,328	\$ 1,300,000	\$ 1,313,328	Pipe/pipeline	Replacement	Varying
12	Warner transfer tubes	Recharge (1060)	\$ -	\$ 100,000	\$ 100,000	Pipe/pipeline	Refurbishment	10
13	Conduit and fiber optic lines	Recharge (1060)	\$ -	\$ 100,000	\$ 100,000	Technical Equipment	Replacement	Varying
14	Catwalk for Weir Pond 4	Recharge (1060)	\$ -	\$ 60,000	\$ 60,000	Recharge basins	Replacement	15
15	Flygt dewatering pump	Recharge (1060)	\$ -	\$ 40,000	\$ 40,000	Pumps	Refurbishment	10
16	Asphalt road at Anaheim Lake	Recharge (1060)	\$ -	\$ 40,000	\$ 40,000	Parking lots/roads	Refurbishment	20
17	CATD7 undercarriage	Recharge (1060)	\$ -	\$ 30,000	\$ 30,000	Heavy Equipment	Replacement	10
18	FHQ equipment parking lot	Recharge (1060)	\$ -	\$ 20,000	\$ 20,000	Parking lots/roads	Refurbishment	20
19	Accusonic flowmeters	Recharge (1060)	\$ -	\$ 16,000	\$ 16,000	Pumps	Replacement	10
20	FHQ interior	Recharge (1060)	\$ -	\$ 15,000	\$ 15,000	Building	Refurbishment	10
21	Flowmeter	Recharge (1060)	\$ -	\$ 7,000	\$ 7,000	Other	Replacement	10
22	Bathroom flooring	Recharge (1060)	\$ -	\$ 7,000	\$ 7,000	Building	Refurbishment	10
23	3" air vacuum release valves	Recharge (1060)	\$ -	\$ 3,000	\$ 3,000	Other	Replacement	15
		TOTAL	Recharge (1060)	\$ 13,328	\$ 1,738,000	\$ 1,751,328		
Wetland Operations (1062)								
24	Wetlands reconstruction	Wetland Operations (1062)	\$ 34,424	\$ 6,300,000	\$ 6,334,424	Wetlands	Refurbishment	10
25	Backhoe/loader	Wetland Operations (1062)	\$ -	\$ 130,000	\$ 130,000	Heavy Equip >50,000	Replacement	17
26	Prado access road	Wetland Operations (1062)	\$ -	\$ 20,000	\$ 20,000	Parking lots/road	Replacement	15
		TOTAL	Wetland Operations (1062)	\$ 34,424	\$ 6,450,000	\$ 6,484,424		

**ORANGE COUNTY WATER DISTRICT
FY 2007-08 PROPOSED REPLACEMENT & REFURBISHMENT FUND REQUESTS**

Item	Description	Department	Salary & Benefits	Project Cost	Total Project Cost	Asset Class	Refurbishment or Replacement	Asset Age (Years)	
Engineering (1070)									
27	Alamitos Seawater Barrier Pipeline	Cathodic protection for pipeline that supplies water to Alamitos Seawater Barrier, repair of valve and relocation of monitoring well	Engineering (1070)	\$ 41,904	\$ 827,000	\$ 868,904	Pipe/Pipeline & Wells	Refurbishment	Varying
28	Monitoring Well SAR-5	Install 36-inch steel casing to protect the monitoring well from high SAR flows	Engineering (1070)	\$ -	\$ 460,000	\$ 460,000	Wells	Refurbishment	17
		TOTAL	Engineering (1070)	\$ 41,904	\$ 1,287,000	\$ 868,904			
R & R GRAND TOTAL			\$ 89,656	\$ 10,474,800	\$ 10,564,456				

NOTE: The estimated grant reimbursement from FEMA and State OES is approximately \$5,000,000.



Section 10

Cost Center Details

Detail Cost Center General Fund Budget
Acronyms and Abbreviations

**GENERAL FUND BUDGET
COST CENTER DETAIL**

Cost Center		Page No.
1010	General Manager's Office	10-1
1012	Communication Stakeholder Support	10-7
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1022	Purchasing	10-15
1024	Finance	10-17
1030	Human Resources	10-21
1034	Risk Management & Safety	10-25
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1080	Natural Resources	10-79

Acronyms and Abbreviations

GENERAL FUND OPERATING BUDGET FY 07-08
GENERAL MANAGER'S OFFICE (1010)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
	SALARIES & BENEFITS		
1010.50104	REGULAR SALARIES	613,362	613,362
1010.50202	RETIREMENT	99,246	99,246
1010.50204	HEALTH INSURANCE	70,760	70,760
1010.50206	WORKERS' COMPENSATION	6,517	6,517
1010.50210	PAYROLL TAXES	9,966	9,966
	SALARIES & BENEFITS TOTAL	799,851	799,851
1010.51102	DISTRICT MEMBERSHIP		
	ACWA UTILITY SERVICE AGENCY	2,500	2,500
	AMERICAN GROUND WATER TRUST	500	500
	AMERICAN MEMBRANE TECHNOLOGY	600	600
	AMERICAN WATER WORKS ASSOC. (AWWA)	1,250	1,250
	ASSOCIATION OF CALIFORNIA WATER AGENCIES (ACWA)	16,025	16,025
	ASSOCIATION OF GW AGENCIES (AGWA)	1,000	1,000
	AWWA RESEARCH FOUNDATION	167,000	167,000
	BLACK CHAMBER OF COMMERCE	250	250
	CAL STATE FULLERTON DEMOGRAPHICS	27,501	27,501
	CALIFORNIA SPECIAL DISTRICTS ASSOCIATION	3,000	3,000
	CALIFORNIA URBAN WATER CONSERVATION COUNCIL	2,500	2,500
	COLORADO RIVER WATER USERS ASSOCIATION	80	80
	GROUNDWATER FOUNDATION	85	85
	GROUNDWATER RESOURCES ASSOC. (GRA)	200	200
	HISPANIC CHAMBER OF COMMERCE	250	250
	INDEPENDENT SPECIAL DISTRICTS ASSOCIATION (ISDOC)	50	50
	NWRA MUNICIPAL CAUCUS	375	375
	ORANGE COUNTY BUSINESS COUNCIL	900	900
	ORANGE COUNTY CHINESE CHAMBER OF COMMERCE	100	100
	ORANGE COUNTY PUBLIC AFFAIRS ASSOCIATION	50	50

GENERAL FUND OPERATING BUDGET FY 07-08
GENERAL MANAGER'S OFFICE (1010)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1010.51102	DISTRICT MEMBERSHIP (CONTINUED)		
	SANTA ANA RIVER FLOOD PROTECTION AGENCY (SARFPA)	1,400	1,400
	SOUTHERN CALIFORNIA SALINITY COALITION	10,000	10,000
	SOUTHWEST MEMBRANE OPERATORS ASSOCIATION	300	300
	UCI URBAN WATER RESEARCH CENTER	35,000	35,000
	URBAN WATER INSTITUTE	1,000	1,000
	VIETNAMESE CHAMBER OF COMMERCE	250	250
	WATER ADVISORY COMMITTEE OF ORANGE COUNTY (WACO)	100	100
	WATER EDUCATION FOUNDATION	2,000	2,000
	WATEREUSE ASSOCIATION	15,000	15,000
	WATEREUSE FOUNDATION	10,000	10,000
	WATERSHED MANAGEMENT COUNCIL	1,300	1,300
	OTHER	3,000	3,000
	DISTRICT MEMBERSHIP TOTAL	303,566	303,566
1010.51104	SUBSCRIPTIONS		
	ADMINISTRATIVE PROFESSIONAL	75	75
	SUBSCRIPTIONS TOTAL	75	75
1010.51192	TECHNICAL TRAINING		
	STAFF TRAINING	1,500	1,500
	TECHNICAL TRAINING	1,500	1,500

GENERAL FUND OPERATING BUDGET FY 07-08
GENERAL MANAGER'S OFFICE (1010)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1010.51301	TRAVEL/CONFERENCE		
	ACWA, DC (2)	3,000	3,000
	ACWA CONF (6)	6,000	6,000
	AWWA (1)	1,000	1,000
	COLORADO RIVER WATER USERS ASSOCIATION (1)	1,000	1,000
	LEGISLATIVE SUPPORT	7,500	7,500
	MISC CONFERENCES/MEETINGS	10,000	10,000
	SACRAMENTO (10)	3,500	3,500
	WASHINGTON DC (3)	4,500	4,500
	WATEREUSE (1)	1,500	1,500
	TRAVEL/CONFERENCE TOTAL	38,000	38,000
1010.51501	OFFICE EXPENSE - GENERAL		
	BULK OFFICE AND CONSUMABLE SUPPLIES	117,500	117,500
	FED EX	250	250
	MINUTE MAN	14,500	14,500
	NORCO	4,750	4,750
	POSTAGE	46,000	46,000
	OFFICE EXPENSE - GENERAL TOTAL	183,000	183,000
1010.51510	HARDWARE/SOFTWARE		
	SOFTWARE FOR COPY ROOM	1,000	1,000
	HARDWARE/SOFTWARE TOTAL	1,000	1,000
1010.51530	UNIFORMS & SAFETY		
	UNIFORMS	700	700
	UNIFORMS & SAFETY TOTAL	700	700

GENERAL FUND OPERATING BUDGET FY 07-08
GENERAL MANAGER'S OFFICE (1010)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1010.51565	RENT EQUIP - GENERAL		
	6115 XEROX COPY MACHINE LEASE (MAIN COPY ROOM)	89,000	89,000
	COPY CENTER C35 (MAIN COPY ROOM)	6,000	6,000
	COPY CENTER C35 (SM COPY ROOM)	6,000	6,000
	DC420AC COPIER (FHQ)	2,500	2,500
	DC420AC COPIER (LAB/MAINT)	2,500	2,500
	DC420AC COPIER (OPERATIONS)	2,500	2,500
	DC535H COPIER (LARGE COPY ROOM)	6,000	6,000
	DC535H COPIER (ANNEX)	6,000	6,000
	DOCUCOLOR 12 XEROX COPY MACHINE (MAIN COPY ROOM)	20,000	20,000
	NEOPOST POSTAGE MACHINE	10,200	10,200
	RENT EQUIP - GENERAL TOTAL	150,700	150,700
1010.51204	MISCELLANEOUS EXPENSE		
	LEGISLATIVE EVENTS AND ACTIVITIES	5,000	5,000
	MISC EXPENSE FOR COPY ROOM	500	500
	MISCELLANEOUS EXPENSE TOTAL	5,500	5,500
1010.53001	PROFESSIONAL SERVICES - GENERAL		
	ENS RESOURCES	53,000	53,000
	JAMES F. MCCONNELL	51,000	51,000
	MGT. CONSULTING . GENERAL	30,000	30,000
	SANTA ANA RIVER WATER MASTER CONSULTING (W. DENDY)	20,000	20,000
	TOWNSEND PUBLIC AFFAIRS	60,000	60,000
	PROFESSIONAL SERVICES - GENERAL TOTAL	214,000	214,000
1010.53005	PROFESSIONAL SERVICES - LEGAL		
	PILLSBURY WINTHROP	100,000	100,000
	RUTAN & TUCKER, LLP	400,000	400,000
	PROFESSIONAL SERVICES - LEGAL TOTAL	500,000	500,000

GENERAL FUND OPERATING BUDGET FY 07-08
GENERAL MANAGER'S OFFICE (1010)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1010.56012	INTERAGENCY AGREEMENTS		
	LAFCO	35,000	35,000
	NWRI	50,000	50,000
	ACOE WATER CONSERVATION MAINTENANCE FEE	50,000	50,000
	SANTA ANA RIVER WATERMASTER EXPENSES	8,000	8,000
	WEROC	40,000	40,000
	INTERAGENCY AGREEMENTS TOTAL	183,000	183,000
1010.57004	MAINT EQUIP - GENERAL		
	EQUIPMENT/TYPEWRITER REPAIRS	1,200	1,200
	MAINTENANCE FOR FOLDING MACHINES	1,460	1,460
	MAINTENANCE FOR PUNCH MACHINE	200	200
	MAINTENANCE/BLADE FOR PAPER CUTTER	300	300
	NEOPOST POSTAGE METER AND SCALE	1,500	1,500
	MAINT EQUIP - GENERAL TOTAL	4,660	4,660
	GENERAL MANAGERS OFFICE GRAND TOTAL	2,385,552	2,385,552

GENERAL FUND BUDGET FY 07-08
COMMUNICATION & STAKEHOLDER SUPPORT (1012)

JDE Account Number	Description	General	Youth Education	Groundwater Producer Assistance	Total
		9900	1206	4406	
	SALARIES & BENEFITS				
1012.50104	REGULAR SALARIES	217,853	86,164	36,155	340,172
1012.50202	RETIREMENT	33,182	9,338	5,544	48,064
1012.50204	HEALTH INSURANCE	13,830	5,609	2,509	21,948
1012.50206	WORKERS' COMPENSATION	1,611	637	267	2,515
1012.50210	PAYROLL TAXES	4,310	3,114	701	8,125
	SALARIES & BENEFITS TOTAL	270,786	104,862	45,176	420,824
1012.51301	TRAVEL/CONFERENCE				
	CONFERENCES	2,800			2,800
	GROUNDWATER GUARDIAN	1,500			1,500
	TRAVEL/CONFERENCE TOTAL	4,300	0	0	4,300
1012.51305	PUBLIC INFORMATION TOURS				
	GROUNDWATER ADVENTURE TOUR			6,000	6,000
	SMALL TOURS			5,500	5,500
	PUBLIC INFORMATION TOURS TOTAL	0	0	11,500	11,500
1012.53001	PROFESSIONAL SERVICES - GENERAL				
	BIANNUAL REPORT			6,000	6,000
	GROUNDWATER GUARDIAN	3,700			3,700
	HALLWAY UPDATE	2,000			2,000
	OCWD & PRADO BROCHURES	2,500			2,500
	SIGNAGE: RECHARGE, BASINS, BARRIER	4,000			4,000
	COPY/DISTR. "CALIFORNIA'S WATER" DVDs TO FILE	2,000			2,000
	GROUNDWATER ACTIVITY BOOK	1,000			1,000
	NEWSLETTER			28,400	28,400
	OCWD VIDEO	15,000			15,000
	OCWD WEBSITE	20,000			20,000
	PROFESSIONAL SERVICES - GENERAL TOTAL	50,200	0	34,400	84,600

GENERAL FUND BUDGET FY 07-08
COMMUNICATION & STAKEHOLDER SUPPORT (1012)

JDE Account Number	Description	General	Youth Education	Groundwater Producer Assistance	Total
	ACTIVITY CODE	9900	1206	4406	
1012.51501	OFFICE EXPENSE - GENERAL				
	AWARDS	800			800
	BOARD DIRECTOR PHOTOS	2,000			2,000
	BOOKS	600			600
	BOTTLED WATER	9,000			9,000
	CRISIS COMMUNICATION	1,700			1,700
	EMPLOYEE RECOGNITION PROGRAM	9,600			9,600
	GROUNDWATER GUARDIAN	5,000			5,000
	MAIL	500			500
	MEDIA ACTIVITIES			6,000	6,000
	OC WATER 101	2,500			2,500
	OFFICE EXPENSES	15,000			15,000
	PRESS RELEASES			9,000	9,000
	SAR TOUR (ADD A TOUR)			8,000	8,000
	SMALL TOURS (ADD A TOUR)			4,000	4,000
	PRODUCER PUBLIC AFFAIRS ANNUAL LUNCHEON	500			500
	FLIER DISTRIBUTION (WALKING MAN CONTRACT)	2,500			2,500
	LEGISLATIVE BREAKFAST	2,500			2,500
	VIDEO DUPLICATION	1,200			1,200
	WACO			3,500	3,500
	OFFICE EXPENSE - GENERAL TOTAL	53,400	0	30,500	83,900
1012.51104	SUBSCRIPTIONS				
	SUBSCRIPTIONS	800			800
	SUBSCRIPTIONS TOTAL	800	0	0	800
1012.51102	MEMBERSHIP				
	PROFESSIONAL MEMBERSHIPS	900			900
	MEMBERSHIP TOTAL	900	0	0	900
1012.51192	TECHNICAL TRAINING				
	PROFESSIONAL DEVELOPMENT	1,000			1,000
	TECHNICAL TRAINING TOTAL	1,000	0	0	1,000

GENERAL FUND BUDGET FY 07-08
COMMUNICATION & STAKEHOLDER SUPPORT (1012)

JDE Account Number	Description	General	Youth Education	Groundwater Producer Assistance	Total
		9900	1206	4406	
1012.51112	SPECIAL DEPT EXPENSE				
	OC REGISTER ANNUAL AD CONTRACT	50,000			50,000
	ASST. GENERAL MANAGER'S LUNCHEON	1,800			1,800
	BANNER	600			600
	CHILDREN'S FESTIVAL		63,500		63,500
	COMMUNITY SERVICE AWARDS			500	500
	EMPLOYEE EVENT	7,500			7,500
	HOTEL/MOTEL/RESTAURANT CONSERVATION			8,000	8,000
	NEIGHBORHOOD FLIERS	2,500			2,500
	SPECIAL DEPT EXPENSE TOTAL	62,400	63,500	8,500	134,400
COMMUNICATIONS & STAKEHOLDER SUPPORT GRAND TOTA		443,786	168,362	130,076	742,224

GENERAL FUND BUDGET FY 07-08
INFORMATION SERVICES (1016)

JDE Account Number	Description ACTIVITY CODE	General 9900	Total
	SALARIES & BENEFITS		
1016.50104	REGULAR SALARIES	710,975	710,975
1016.50202	RETIREMENT	10,309	10,309
1016.50204	HEALTH INSURANCE	118,377	118,377
1016.50206	WORKERS' COMPENSATION	69,915	69,915
1016.50210	PAYROLL TAXES	5,259	5,259
	SALARIES & BENEFITS TOTAL	914,835	914,835
1016.52501	COMMUNICATION		
	ANSWER NET AND CONFERENCING SERVICE	2,500	2,500
	CELLULAR TELEPHONE & WIRELESS SERVICES	50,000	50,000
	INTERNET SERVICE - QTY 2 T1 FOUNTAIN VALLEY (COGENT)	14,400	14,400
	T1 DATA LINE TO FOUNTAIN VALLEY TO CONNECT TO BUSINESS NETWORK	8,400	8,400
	LEASED LINE TO FHQ (DATA ONLY)	12,000	12,000
	MISC COMMUNICATIONS	15,000	15,000
	PHONE SERVICE (PHYSICAL CIRCUITS, DID LINES, LONG DISTANCE, ETC.)	90,000	90,000
	PHONE SYSTEM PURCHASES	3,000	3,000
	COMMUNICATION TOTAL	195,300	195,300
1016.51301	TRAVEL/CONFERENCE		
	CONFERENCES	3,000	3,000
	TRAVEL/CONFERENCE TOTAL	3,000	3,000
1016.51501	OFFICE EXPENSE - GENERAL		
	GENERAL OFFICE EXPENSE (SHIPPING, FEDEX)	3,500	3,500
	OFFICE EXPENSE - GENERAL TOTAL	3,500	3,500
1016.51510	HARDWARE/SOFTWARE		
	HARDWARE & SOFTWARE PURCHASES FOR DEPARTMENTS, PROGRAMMER TOOLS FOR IS	30,000	30,000
	COMPUTERS - REPLACE QTY 29 COMPUTERS; PURCHASE QTY 4 NEW COMPUTERS	52,500	52,500
	TAPES, STORAGE MEDIA, OFFSITE & OTHER DATA SERVICES	15,000	15,000
	FIBER OPTIC INSTALLATION - ANAHEIM FHQ	7,500	7,500
	CISCO WIRELESS DATA NETWORK ACCESS POINTS FOR ADMIN BUILDING	4,500	4,500
	HARDWARE/SOFTWARE TOTAL	109,500	109,500

GENERAL FUND BUDGET FY 07-08
INFORMATION SERVICES (1016)

JDE Account Number	Description ACTIVITY CODE	General 9900	Total
1016.57004	MAINT EQUIP - GENERAL		
	MAINTENANCE AGREEMENTS FOR EXISTING HW&SW	440,620	440,620
	MAINTENANCE AGREEMENTS FOR NEW HW & SW	20,000	20,000
	REPAIR EXISTING CABLING (NETWORK, TELEPHONE, COPPER, ETC.)	5,000	5,000
	REPAIR EXISTING EQUIPMENT (WORKSTATIONS, PRINTERS,AUDIO/VISUAL, ETC.)	10,000	10,000
	MAINT EQUIP - GENERAL TOTAL	475,620	475,620
1016.51102	MEMBERSHIP		
	USER GROUP MEMBERSHIP	1,500	1,500
	MEMBERSHIP TOTAL	1,500	1,500
1016.51192	TECHNICAL TRAINING		
	ONGOING SOFTWARE TRAINING FOR IS DEPT.	10,000	10,000
	PC SOFTWARE TRAINING FOR ALL DEPTS.	10,000	10,000
	TECHNICAL TRAINING TOTAL	20,000	20,000
	INFORMATION SERVICES GRAND TOTAL	1,723,255	1,723,255

GENERAL FUND BUDGET FY 07-08
BOARD ADMINISTRATION (1018)

	Description	General	Total
	ACTIVITY CODE	9900	
	SALARIES & BENEFITS		
1018.50104	REGULAR SALARIES	241,001	241,001
1018.50118	DIRECTORS' FEES	269,652	269,652
1018.50202	RETIREMENT	85,024	85,024
1018.50204	HEALTH INSURANCE	118,774	118,774
1018.50206	WORKERS' COMPENSATION	3,777	3,777
1018.50210	PAYROLL TAXES	7,404	7,404
	SALARIES & BENEFITS TOTAL	725,632	725,632
1018.51301	BOARD TRAVEL/CONFERENCES		
	ACWA, AWWA, ADA, NWRA, ASCE, CRWUA, OCCOG, LEAGUE OF CITIES, WATEREUSE, MISC. CONFERENCES, URBAN WATER INSTITUTE	15,800	15,800
	ETHICS TRAINING	300	300
	BOARD TRAVEL/CONFERENCES TOTAL	16,100	16,100
1018.51012	LEGAL ADVERTISING		
	LEGALLY REQUIRED NOTICES AND REPORTS, I.E. PUBLIC HEARINGS, ETC.	5,000	5,000
	LEGAL TOTAL	5,000	5,000
1018.51501	OFFICE EXPENSE - GENERAL		
	BOARDROOM AND BOARDROOM KITCHEN, REFRESHMENTS FOR BOARD AND COMMITTEES	11,700	11,700
	BOARDROOM SUPPLIES	1,000	1,000
	FILING FEES	500	500
	MINUTE MAN/FEDEX/COURIER	1,200	1,200
	NOTARY SUPPLIES	100	100
	REFERENCE MATERIALS	500	500
	STAMPS & OFFICE SUPPLIES	1,000	1,000
	OFFICE EXPENSE - GENERAL TOTAL	16,000	16,000

GENERAL FUND BUDGET FY 07-08
BOARD ADMINISTRATION (1018)

	Description	General	Total
	ACTIVITY CODE	9900	
1018.51510	HARDWARE/ SOFTWARE		
	RECORDS MANAGEMENT EQUIPMENT/FILES	800	800
	RMS SOFTWARE MAINTENANCE AND UPGRADE	1,500	1,500
	HARDWARE/ SOFTWARE TOTAL	2,300	2,300
1018.57004	MAINT EQUIP - GENERAL		
	MAINTENANCE OF BOARDROOM PC/RECORDERS/LG SCREEN	500	500
	MAINT EQUIP - GENERAL TOTAL	500	500
1018.51102	MEMBERSHIP		
	ASSOC. OF RECORDS MGRS & ADMINISTRATORS (1)	150	150
	NATIONAL NOTARY ASSOC (2)	200	200
	MEMBERSHIP TOTAL	350	350
1018.51192	EDUCATIONAL TRAINING		
	ARMA TRAINING AND SEMINARS	2,000	2,000
	SPECIAL DISTRICT BOARD SECY WORKSHOP	500	500
	EDUCATIONAL TRAINING TOTAL	2,500	2,500
1018.51112	SPECIAL DEPT EXPENSE		
	BOOKBINDING FEES RE MINUTE BOOK SCANNING	2,500	2,500
	DOCUMENT ARCHIVAL AND SCANNING	5,000	5,000
	OFFSITE STORAGE	10,000	10,000
	SPECIAL DEPT EXPENSE TOTAL	17,500	17,500
1018.51042	ELECTION COSTS		
	ACCRUED ELECTION COSTS	133,000	133,000
	ELECTION COSTS TOTAL	133,000	133,000
	BOARD ADMINISTRATION GRAND TOTAL	918,882	918,882

GENERAL FUND BUDGET FY 07-08
PURCHASING (1022)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
	SALARIES & BENEFITS		
1022.50104	REGULAR SALARIES	411,420	411,420
1022.50202	RETIREMENT	67,504	67,504
1022.50204	HEALTH INSURANCE	52,590	52,590
1022.50206	WORKERS' COMPENSATION	5,776	5,776
1022.50210	PAYROLL TAXES	6,337	6,337
	SALARIES & BENEFITS TOTAL	543,627	543,627
1022.51301	TRAVEL/CONFERENCES		
	INVENTORY AND CONTROL MANAGEMENT CONFERENCE	2,500	2,500
	TRAVEL/CONFERENCES TOTAL	2,500	2,500
1022.51501	OFFICE EXPENSE - GENERAL		
	SAFETY SIGNS/HARDWARE FOR WAREHOUSE	1,000	1,000
	TONERS, SUPPLIES, SPECIAL PAPER, ETC.	4,500	4,500
	SPECIAL LABELS FOR SHELVING	500	500
	NAT. PURCHASING . INST. APPLICATION FEES	250	250
	NAT. PURCHASING . INST. APPLICATION/PREP COPY	500	500
	CONTAINERS FOR WAREHOUSE PARTS	1,000	1,000
	SHIPPING SUP./SHRINK WRAP/TAPE, BINDING SUP., ETC	650	650
	UPS SHIPPING FEES	500	500
	SUPPLY CART FOR STOCKING ITEMS	1,200	1,200
	TRUCK WASH TICKETS FOR DISTRICT VEHICLES	1,000	1,000
	OFFICE EXPENSE - GENERAL TOTAL	11,100	11,100
1022.51510	HARDWARE/SOFTWARE		
	MISC COMPUTER SUPPLIES AND SOFTWARE	1,500	1,500
	HARDWARE/SOFTWARE TOTAL	1,500	1,500
1022.51104	SUBSCRIPTIONS		
	PURCHASING MGMT MATERIAL	300	300
	SUBSCRIPTIONS TOTAL	300	300

GENERAL FUND BUDGET FY 07-08
PURCHASING (1022)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1022.51520	GAS & DIESEL		
	FUEL	500	500
	GAS & DIESEL TOTAL	500	500
1022.51530	UNIFORMS		
	SHIRTS/JACKETS	700	700
	UNIFORMS TOTAL	700	700
1022.51545	SMALL TOOLS		
	SMALL VACUUM FOR UPPER MEZZANINE	150	150
	MISC HAND TOOLS	2,500	2,500
	SMALL TOOLS	2,650	2,650
1022.57004	MAINT EQUIP - GENERAL		
	MAINTENANCE FOR FORKLIFTS (2)	2,000	2,000
	MAINT EQUIP - GENERAL	2,000	2,000
1022.51102	MEMBERSHIP		
	PURCHASING (CAPPO, NAPM,)	250	250
	MEMBERSHIP TOTAL	250	250
1022.51192	TECHNICAL TRAINING		
	JDE AND MAXIMO/USERS TRAINING	10,000	10,000
	TECHNICAL TRAINING TOTAL	10,000	10,000
1022.51630	INVENTORY FREIGHT		
	DELIVERY FEES AND FREIGHT CHARGES	10,000	10,000
	INVENTORY FREIGHT TOTAL	10,000	10,000
1022.57016	MAINT STRUCTURE AND IMPROVEMENT - GENERAL		
	WAREHOUSE MAINTENANCE	7,500	7,500
	MAINT STRUCTURE AND IMPROVEMENT TOTAL	7,500	7,500
	PURCHASING GRAND TOTAL	\$ 592,627	\$ 592,627

GENERAL FUND BUDGET FY 07-08
FINANCE (1024)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
	SALARIES & BENEFITS		
1024.50104	REGULAR SALARIES	1,015,725	1,015,725
1024.50202	RETIREMENT	168,121	168,121
1024.50204	HEALTH INSURANCE	109,715	109,715
1024.50206	WORKERS' COMPENSATION	9,203	9,203
1024.50210	PAYROLL TAXES	15,099	15,099
	SALARIES & BENEFITS TOTAL	1,317,863	1,317,863
1024.51301	TRAVEL/CONFERENCES		
	SPECIAL DISTRICT FINANCIAL MNGT CONFERENCE	3,000	3,000
	ACWA AND CALIFORNIA MUN. TREASURERS ASSOC	2,000	2,000
	GFOA ANNUAL CONFERENCE	4,000	4,000
	JDE FINANCIAL USERS GROUP CONFERENCE .	5,000	5,000
	RATING AGENCY PRESENTATION.	1,500	1,500
	ASSOCIATION OF GW AGENCIES (AGWA)	15,500	15,500
1024.53001	PROFESSIONAL SERVICES - GENERAL		
	ANNUAL RETIREMENT ADMIN FEES	60,000	60,000
	AUDIT/FINANCIAL SERVICES	15,000	15,000
	EXTERNAL AUDIT (SINGLE AUDIT / MPP INCLUDED)	50,000	50,000
	FINANCIAL SYSTEM CONSULTANT	50,000	50,000
	PAYROLL OUTSOURCING	50,000	50,000
	REVIEW & REPORT TO BOARD ON OCWD INVESTMENT PORTFOLIO.	30,000	30,000
	REVIEW & ADVISE OF ACCOUNTING & TAX ISSUES, AUDIT, DEBT ISSUES (SYCR).	50,000	50,000
	SPECIALIZED ACCOUNTING SERVICES	50,000	50,000
	PROFESSIONAL SERVICES - GENERAL TOTAL	355,000	355,000

GENERAL FUND BUDGET FY 07-08
FINANCE (1024)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1024.51501	OFFICE EXPENSE - GENERAL		
	BANK COURIERS	2,000	2,000
	BUSINESS FORMS (TIMESHEETS, TRAVEL EXP REPORTS, ETC).	2,500	2,500
	CHECK STOCK FOR A/P - SAFECHECKS.	5,000	5,000
	COLOR COPY ALLOCATION	1,000	1,000
	COLOR PRINTING CHARGE FOR CAFR AND BUDGET BOOK	2,500	2,500
	FEDEX	1,000	1,000
	MAIL DELIVERIES NORCO (U.S. POSTAL)	1,000	1,000
	MICR TONER - A/P, P/R ((\$350 x7) - TROY.	2,400	2,400
	MISC. SUPPLIES (COMP. PAPER, SMART & FINAL, SUPPLIES)	7,500	7,500
	SIGN. PLATE FOR A/P and P/R (\$375 EA.) CUMMINS.	1,000	1,000
	OFFICE EXPENSE - GENERAL TOTAL	25,900	25,900
1024.51510	HARDWARE/SOFTWARE		
	MISC COMPUTER SUPPLIES AND SOFTWARE (TAPE & RIBBONS ETC.).	5,000	5,000
	HARDWARE/SOFTWARE TOTAL	5,000	5,000
1024.51104	SUBSCRIPTIONS		
	CCH-TAXES AND PAYROLL TAXES	2,000	2,000
	GASB/GAAP-ACCOUNTING JOURNAL	1,000	1,000
	GFOA SUBSCRIPTIONS	500	500
	IOMA - MANAGING A/ P AND P/R UPDATES.	500	500
	PPC - GENERAL ACCOUNTING GUIDELINES.	500	500
	WALL STREET JOURNAL	200	200
	SUBSCRIPTIONS TOTAL	4,700	4,700
1024.51520	GAS & DIESEL FUEL		
	SMOGPROS (CF's TRUCK FUEL @ 325/MO)	3,900	3,900
	GAS & DIESEL FUEL TOTAL	3,900	3,900
1024.51530	UNIFORMS & SAFETY		
	PRUDENTIAL OVERALL- UNIFORMS (CF)	400	400
	SALLINGER'S ACCOUNTING OCWD SHIRTS	400	400
	UNIFORMS & SAFETY TOTAL	800	800

GENERAL FUND BUDGET FY 07-08
FINANCE (1024)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1024.57004	MAINT EQUIP - GENERAL		
	CHECK PROTECTOR ANNUAL MAINT CUMMINS	700	700
	ITRON HANDHELD ANNUAL MAINTENANCE.	3,000	3,000
	MAINT EQUIP - GENERAL TOTAL	3,700	3,700
1024.51102	MEMBERSHIP		
	AICPA	400	400
	CMTA	300	300
	CPA LICENSE/AICPA (SK, VS, DS)	1,200	1,200
	CSCPA	550	550
	CSMFO	200	200
	GFOA	250	250
	MEMBERSHIP TOTAL	2,900	2,900
1024.51192	TECHNICAL TRAINING		
	CSCPA TRAINING	5,000	5,000
	DIEHL EVANS TAX LAW CHANGES SEMINAR(4 STAFF).	1,500	1,500
	JDE SPECIAL FINANCIAL REPORTING /USER TRAINING.	10,000	10,000
	MICROSOFT EXCEL/ WORD AND OTHER TRAINING	5,000	5,000
	TECHNICAL TRAINING TOTAL	21,500	21,500
1024.56028	MISCELLANEOUS EXPENSE		
	MISCELLANEOUS EXPENSE		
	MISCELLANEOUS EXPENSE TOTAL	0	0
1024.56028	WFB/COUNTY BANKING CHARGE		
	BANK CHARGES (\$2,000 AVE./MO)	24,000	24,000
	WFB/COUNTY BANKING CHARGE TOTAL	24,000	24,000
	FINANCE GRAND TOTAL	\$ 1,780,763	\$ 1,780,763

GENERAL FUND BUDGET FY 07-08
HUMAN RESOURCES (1030)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
	SALARIES & BENEFITS		
1030.50104	REGULAR SALARIES	250,357	250,357
1030.50202	RETIREMENT	39,690	39,690
1030.50204	HEALTH INSURANCE	64,357	64,357
1030.50206	WORKERS' COMPENSATION	1,852	1,852
1030.50210	PAYROLL TAXES	4,373	4,373
1030.50205	RETIREE HEALTH INSURANCE PREMIUMS	310,290	310,290
	SALARIES & BENEFITS TOTAL	670,919	670,919
1030.51301	TRAVEL/CONFERENCES		
	ACWA PERSONNEL COMMITTEE	1,800	1,800
	TRAVEL/CONFERENCES TOTAL	1,800	1,800
1030.53001	PROFESSIONAL SERVICES - GENERAL		
	CERIDIAN EMPLOYEE ASSISTANCE PROGRAM	5,500	5,500
	EMPLOYEE ASSOCIATION NEGOTIATIONS	30,000	30,000
	HEALTH AND WELLNESS	2,000	2,000
	INFORMATION RESOURCES BACKGROUND INVESTIGATION	7,000	7,000
	RETIREMENT PLAN DOCUMENT UPDATE AND IRS FILING	20,000	20,000
	US HEALTHWORKS PRE-EMPLOYMENT PHYSICALS	9,000	9,000
	PROFESSIONAL SERVICES - GENERAL TOTAL	73,500	73,500
1030.53015	TEMPORARY WORKERS		
	COMMUNICATIONS	4,000	4,000
	FINANCE	15,000	15,000
	GM OFFICE	2,000	2,000
	HUMAN RESOURCES	15,000	15,000
	HYDROGEOLOGY	8,000	8,000
	INFORMATION SERVICES	4,000	4,000
	LABORATORY	18,000	18,000
	NATURAL RESOURCES	40,000	40,000
	PURCHASING	4,000	4,000
	BOARD ADMINISTRATION	4,000	4,000
	RECHARGE OPERATIONS	18,000	18,000
	WATER PRODUCTION/GWR SYSTEM	1,000	1,000
	WETLAND OPERATIONS	10,000	10,000
	TEMPORARY WORKERS TOTAL	143,000	143,000

GENERAL FUND BUDGET FY 07-08
HUMAN RESOURCES (1030)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1030.51501	OFFICE EXPENSE - GENERAL		
	EMPLOYMENT ADVERTISING	80,000	80,000
	FED EXP/COURIER	400	400
	LENGTH OF SERVICE AWARDS	2,000	2,000
	OFFICE SUPPLIES	2,000	2,000
	OFFICE EXPENSE - GENERAL TOTAL	84,400	84,400
1030.51104	SUBSCRIPTIONS		
	PERSONNEL JOURNAL	100	100
	SUBSCRIPTIONS TOTAL	100	100
1030.51102	MEMBERSHIP		
	EMPLOYERS GROUP	2,400	2,400
	LEAGUE OF CITIES - BENCHMARKING	800	800
	NATIONAL NOTARY ASSOCIATION	45	45
	MEMBERSHIP TOTAL	3,245	3,245
1030.51192	TECHNICAL TRAINING		
	HR EDUCATIONAL TRAINING	5,000	5,000
	MANDATED EMPLOYEE TRAINING MATERIALS	30,000	30,000
	TECHNICAL TRAINING TOTAL	35,000	35,000
1030.50208	EDUCATION TUITION REIMBURSEMENT		
	BOARD ADMIN EDUCATION	3,000	3,000
	COMMUNICATIONS	2,000	2,000
	FINANCE EDUCATION	2,000	2,000
	FOREBAY EDUCATION	8,000	8,000
	GM OFFICE EDUCATION	3,000	3,000
	INFORMATION SERVICES	3,000	3,000
	LABORATORY	2,000	2,000
	PLANNING	1,000	1,000
	PURCHASING	3,000	3,000
	WATER PRODUCTION	3,000	3,000
	WATER QUALITY	1,200	1,200
	EDUCATION TUITION REIMBURSEMENT TOTAL	31,200	31,200

GENERAL FUND BUDGET FY 07-08
HUMAN RESOURCES (1030)

JDE Account Number	Description ACTIVITY CODE	General 9900	Total
1030.51112	SPECIAL DEPT. EXPENSE		
	DOT DRUG & ALCOHOL PROGRAM	5,000	5,000
	UNEMPLOYMENT INSURANCE	50,000	50,000
	SPECIAL DEPT. EXPENSE TOTAL	55,000	55,000
	HUMAN RESOURCES GRAND TOTAL	1,098,164	1,098,164

GENERAL FUND BUDGET FY 07-08
RISK MANAGEMENT AND SAFETY (1034)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
	SALARIES & BENEFITS		
1034.50104	REGULAR SALARIES	141,609	141,609
1034.50202	RETIREMENT	23,578	23,578
1034.50204	HEALTH INSURANCE	20,797	20,797
1034.50206	WORKERS' COMPENSATION	1,929	1,929
1034.50210	PAYROLL TAXES	2,053	2,053
	SALARIES & BENEFITS TOTAL	189,966	189,966
1034.52001	INSURANCE		
	CRIME/EXCESS	8,500	8,500
	FIDUCIARY	6,200	6,200
	COURSE OF CONSTRUCTION		
	GENERAL LIABILITY	385,000	385,000
	PROPERTY	296,000	296,000
	TOUR GROUP/TRAVEL	1,500	1,500
	INSURANCE TOTAL	697,200	697,200
1034.52005	CLAIMS		
	SMALL NON-TRIAL CLAIMS, WORK COMP FIRST AID	10,000	10,000
	CLAIMS TOTAL	10,000	10,000
1034.51301	TRAVEL/CONFERENCES		
	ACWA JPIA COMMITTEE MEETINGS (2)	1,000	1,000
	SAFETY/RISK CONFERENCE/SEMINAR FOR PROF. DEV.	1,100	1,100
	TRAVEL/CONFERENCES TOTAL	2,100	2,100
1034.53001	PROFESSIONAL SERVICE - GENERAL		
	HAZMAT INVENTORY	7,500	7,500
	RISK/SAFETY PLAN UPDATES (ERP/RMP/BCP)	10,000	10,000
	PROFESSIONAL SERVICE - GENERAL TOTAL	17,500	17,500

GENERAL FUND BUDGET FY 07-08
RISK MANAGEMENT AND SAFETY (1034)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1034.51501	OFFICE EXPENSE - GENERAL		
	EMERGENCY PREPAREDNESS MATERIAL/MANUALS	1,200	1,200
	FED EX/COURIER	200	200
	MISC SUPPLIES	250	250
	REFERENCE MANUALS	500	500
	TRAINING MATERIALS	750	750
	TRAINING MEETING MEALS	1,000	1,000
	OFFICE EXPENSE - GENERAL TOTAL	3,900	3,900
1034.51510	HARDWARE/SOFTWARE		
	REGULATORY SOFTWARE - MSDS	900	900
	SAFETY/SECURITY HARDWARE/SOFTWARE	2,500	2,500
	HARDWARE/SOFTWARE TOTAL	3,400	3,400
1034.51520	GAS & DIESEL		
	FUEL	500	500
	GAS & DIESEL TOTAL	500	500
1034.51104	SUBSCRIPTIONS		
	BEST KEY RATING GUIDE	200	200
	SAFETY+HEALTH	300	300
	SUBSCRIPTIONS TOTAL	500	500
1034.51530	UNIFORMS & SAFETY		
	EAR/EYE PROTECTION	300	300
	ERGONOMIC EQUIPMENT/SOFT ITEMS	3,000	3,000
	PERSONAL PROTECTIVE EQUIPMENT	2,500	2,500
	MONITORING BADGES - LAB	350	350
	RESPIRATORS, O2 SENSORS	2,500	2,500
	SAFETY GLASSES - RX	1,000	1,000
	SHOES	11,500	11,500
	UNIFORMS & SAFETY TOTAL	21,150	21,150

GENERAL FUND BUDGET FY 07-08
RISK MANAGEMENT AND SAFETY (1034)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1034.57004	MAINT EQUIP - GENERAL		
	EYEWASH R/R	400	400
	FIRE EXTINGUISHER MAINT	7,000	7,000
	MEDICAL EQUIP (SAFETY SUPPLIES/ DEFIBRILLATOR SUPPLIES)	1,000	1,000
	MISC EQUIP MAINT	300	300
	SELF CONTAINED BREATHING APPARATUS MAINTENANCE	1,200	1,200
	MAINT EQUIP - GENERAL TOTAL	9,900	9,900
1034.51550	SAFETY SUPPLIES		
	CONFINED SPACE EQUIP - HARNESS, ROPES	8,900	8,900
	DISASTER/HAZMAT SUPPLIES	5,500	5,500
	FIRST AID SUPPLIES	1,000	1,000
	SIGNS, TRAFFIC CONES, AUTO CAMERAS	3,500	3,500
	SAFETY SUPPLIES TOTAL	18,900	18,900
1034.51102	MEMBERSHIP		
	AMERICAN SOCIETY OF SAFETY ENGINEERS	200	200
	PUBLIC AGENCY RISK MANAGERS ASSOC	150	150
	MEMBERSHIP TOTAL	350	350
1034.51192	STAFF TRAINING		
	CONFINED SPACE	1,200	1,200
	CPR/FIRST AID/AED	1,500	1,500
	DEFENSIVE DRIVING	600	600
	HAZMAT 24/40 HR	4,400	4,400
	HAZMAT ANNUAL	3,400	3,400
	POWERED EQUIP-F/LIFT, CRANE	4,200	4,200
	RESPIRATOR FIT-MEDICAL	3,600	3,600
	TRAFFIC CONTROL	1,500	1,500
	STAFF TRAINING TOTAL	20,400	20,400

GENERAL FUND BUDGET FY 07-08
RISK MANAGEMENT AND SAFETY (1034)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1034.51202	SECURITY PROGRAM		
	ACCESS CONTROL MAINTENANCE	9,000	9,000
	ALARM SYSTEM MONITORING	3,800	3,800
	ID BADGE SUPPLY	1,000	1,000
	SECURITY EQUIPMENT / PRADO FENCING	22,000	22,000
	SECURITY SERVICE/FACILITY CLEAN UP	3,500	3,500
	SECURITY PROGRAM TOTAL	39,300	39,300
1034.51112	SPECIAL DEPARTMENT EXPENSE		
	CITY/COUNTY ALARM PERMITS	250	250
	COUNTY HAZMAT WASTE PROGRAM - CUPA	4,600	4,600
	DTSC, AND EPA FEES	850	850
	HAZMAT DISPOSAL FEE, CITY PERMITS	750	750
	HAZMAT DISPOSAL FEE-MARS	14,000	14,000
	SAFETY INCENTIVES	1,200	1,200
	STATE GENERATOR FEE	1,200	1,200
	SPECIAL DEPARTMENT EXPENSE TOTAL	22,850	22,850
	RISK MANAGEMENT GRAND TOTAL	1,057,916	1,057,916

GENERAL FUND BUDGET FY 07-08
WATER QUALITY (1036)

JDE Account Number	Description	General	Forebay VOC Litigation	MTBE Litigation	GWP Assistance	GWR System O&M	SAR Monitoring	Total
	ACTIVITY CODE	9900	9936	MTBE	4406	9922	4602	
SALARIES & BENEFITS								
1036.50104	REGULAR SALARIES	294,601	5,196	9,016	189,271	219,531	101,813	819,428
1036.50106	OVERTIME	11,953	43	233	8,281	14,591	7,011	42,112
1036.50202	RETIREMENT	51,041	872	1,540	32,893	38,981	18,119	143,446
1036.50204	HEALTH INSURANCE	29,740	358	818	19,904	27,546	13,042	91,408
1036.50206	WORKERS' COMPENSATION	10,584	196	346	7,169	8,095	3,629	30,019
1036.50210	PAYROLL TAXES	4,445	76	134	2,865	3,395	1,578	12,493
	SALARIES & BENEFITS TOTAL	402,364	6,741	12,087	260,383	312,139	145,192	1,138,906
1036.51301 TRAVEL/CONFERENCES								
	ACWA WATER QUALITY TASK FORCE MTGS. (SACRAMENTO AREA)	475						475
	AWWA WATER QUALITY TECH. CONFERENCE	1,800						1,800
	TRAVEL/CONFERENCES TOTAL	2,275	0	0	0	0	0	2,275
1036.51501 OFFICE EXPENSE - GENERAL								
	OFFICE/WQ SAMPLING CONSUMABLE PRODUCTS (SAMPLE BOTTLE LABELS, PRINTER CARTRIDGES, TAPE, ETC.); REFERENCE MATERIALS	2,500		200	1,500	2,000	800	7,000
	OFFICE EXPENSE - GENERAL TOTAL	2,500	0	200	1,500	2,000	800	7,000
1036.51510 HARDWARE/SOFTWARE								
	COMPUTER SUPPLIES AND SPECIAL ORDERED SOFTWARE OR UPGRADES;	400			300	500	200	1,400
	HARDWARE/SOFTWARE TOTAL	400	0	0	300	500	200	1,400
1036.51520 GAS & DIESEL FUEL								
	GASOLINE/DIESEL FUEL	4,300		200	3,000	3,000	1,500	12,000
	GAS & DIESEL FUEL TOTAL	4,300	0	200	3,000	3,000	1,500	12,000
1036.51530 UNIFORMS & SAFETY								
	OCWD UNIFORMS	1,000			850	750	400	3,000
	UNIFORMS & SAFETY TOTAL	1,000	0	0	850	750	400	3,000
1036.53010 PROFESSIONAL SERVICES - ENG								
	MONITORING WELL SITES LOCATED IN STREETS REQUIRING DIVERSION OF VEHICLES AND PEDESTRIANS AROUND WORK SITE	76,000				64,000		140,000
	PROFESSIONAL SERVICES - ENG TOTAL	76,000	0	0	0	64,000	0	140,000

GENERAL FUND BUDGET FY 07-08
WATER QUALITY (1036)

JDE Account Number	Description	General	Forebay VOC Litigation	MTBE Litigation	GWP Assistance	GWR System O&M	SAR Monitoring	Total
	ACTIVITY CODE	9900	9936	MTBE	4406	9922	4602	
1036.57004	MAINT EQUIP - GENERAL							
	ROUTINE MAINT & PARTS FOR FIELD MONITORING EQUIPMENT, PUMPS, GENERATORS, CONSTRUCTING ANCILLARY SYSTEMS, TREATMENT ISSUES, ETC.							
	PIPES, TUBES, WIRE, CONNECTORS, FITTINGS, SPARE PARTS FOR MECHANICAL AND SUBMERSIBLE PUMPS; FLOWSORB CARBON FOR TREATMENT SYSTEM; STEEL DRUMS FOR SPENT CARBON (TREATMENT SYSTEM) FILTER, ETC.	8,600		1,000	3,000	6,500	1,400	20,500
	REPLACE CABLE ON MOUNT SOPRIS WESTBAY WINCH AND CENTER PULLEY ON WESTBAY CABLING SYSTEM	3,750						3,750
	4500 WATT REPLACEMENT GENERATOR (12+ YRS OLD; T76 TRK)	3,000						3,000
	GRUNFOS SUBMERSIBLE PUMPS - REPLACEMENT OF FAILED MP1 AND SQE PUMPS (EXISTING PUMPS)	7,500						7,500
	REPLACEMENT OF 2 VARIABLE FREQUENCY DRIVE CONTROLLERS FOR MONITORING SYSTEMS	5,000						5,000
	HYDRAULIC SYSTEM MAINTENANCE (T-98)	1,100				900		2,000
	SPENT CARBON DISPOSAL COSTS	1,200				800		2,000
	MANUFACTURER FIELD EQUIPMENT REPAIRS	1,675			650	1,200	275	3,800
	MOUNT SOPRIS WINCH MAINTENANCE CONTRACT	750				600		1,350
	MAINT EQUIP - GENERAL TOTAL	32,575	0	1,000	3,650	10,000	1,675	48,900
1036.57016	MAINT STRUCTURE AND IMPROVEMENT - GENERAL							
	STORAGE MATERIALS/TRANSPORTING EQUIPMENT FOR CHEMICALS, FIELD & EQUIP. SUPPLIES/MATERIALS SERVICES	550			250	600	200	1,600
	WQ WORKSHOP FLOOR COATING	600						600
		1,250				1,000	250	2,500
	MAINT STRUCTURE AND IMPROVEMENT - GENERAL TOTAL	2,400	0	0	250	1,600	450	4,700
1036.51545	SMALL TOOLS/FIELD SUPPLIES							
	BATTERIES, GEN. FIELD SUPPLIES & MATERIALS FOR SAMPLE COLLECTION TASKS; BUCKETS, ICE CHESTS, MAN-HOLE PULLERS, CARBON TREATMENT VESSELS AND ANCILLARY PARTS, LOCKS, 250-GAL DECON WATER TANK(S), SAFETY EQUIPMENT (LIGHT BAR, CONES, SIGNS), SPECIALIZED FITTINGS FOR CARBON TREATMENT SYSTEM, REPLACEMENT OF FAILED METERS, PROBES, WL TAPES, SAMPLING TUBING AND HOSES, SMALL SHOP TOOLS, FITTINGS, REPLACEMENT OF SMALL FIELD SAMPLING TOOLS; BLUE ICE, SHIPPING SUPPLIES	8,250		250	3,000	6,500	2,000	20,000
	INSITU-TROLL 200 ELECTRICAL CONDUCTIVITY MONITORING PROBE FOR SEAWATER INTRUSION PROGRAM	4,100						4,100
	GRUNFOS SUBMERSIBLE PUMPS - 10 DEDICATED PUMP SYS. FOR NORTH BASIN VOC MONITORING WELL SITES	25,000						25,000
	SMALL TOOLS/FIELD SUPPLIES TOTAL	37,350	0	250	3,000	6,500	2,000	49,100

GENERAL FUND BUDGET FY 07-08
WATER QUALITY (1036)

JDE Account Number	Description	General	Forebay VOC Litigation	MTBE Litigation	GWP Assistance	GWR System O&M	SAR Monitoring	Total
	ACTIVITY CODE	9900	9936	MTBE	4406	9922	4602	
1036.51555	LAB SUPPLIES							
	CALIBRATION SOLUTIONS AND FIELD PRESERVATIVES	2,000		100	1,200	1,000	500	4,800
	GLASSWARE, STORAGE CONTAINERS, CARBOYS, GLOVES, DISPENSERS, SAFETY GLASSES, SPILL CONTROL MATERIALS, MISC. LAB SUPPLIES AND UTENSILS, RADIOACTIVITY BOTTLES AND OTHER SPECIALTY SAMPLE CONTAINERS OR SUPPLIES (ORP SOLN., ETC.)							0
								0
								0
								0
	LAB SUPPLIES TOTAL	2,000	0	100	1,200	1,000	500	4,800
1036.51560	LAB SAMPLES ANALYSIS							
	COMPLIANCE, SPECIAL ANALYSES, HAZ MAT, SPILLS, ETC. GAP (ANNUAL RADIOLOGICAL AND PRIORITY POLLUTANT)	875						875
	GWRS-KRAEMER BASIN (ORGANICS, MICROBIAL, RADIOLOGICAL, ASBESTOS, DIOXIN, PRIORITY POLLUTANTS, TENTATIVELY IDENTIFIED COMPOUNDS (TIC) ANALYSIS, ETC.)					159,369		159,369
	GWRS-TALBERT BARRIER (ORGANICS, MICROBIAL, ASBESTOS, DIOXIN, RADIOLOGICAL, PRIORITY POLLUTANTS, TIC ANALYSIS, ENDOCRINE DISRUPTING CHEMICALS, ETC.); DIPLOMATE WELLS - ANNUAL TESTING (POTABLE WELLS NEAR THE BARRIER)					352,728		352,728
	GWP WELLS (RADIOACTIVITY TESTING FOR NEW WELLS AND NEW FEDERAL/STATE COMPLIANCE TESTING CYCLE)				23,865			23,865
	MISC. OUTSIDE LAB TESTING (SPILLS, EMERGENCIES, SPLITS, CONFIRMATION TESTING, ETC.)	5,000						5,000
	LAB SAMPLES ANALYSIS TOTAL	5,875	0	0	23,865	512,097	0	541,837
1036.51565	RENT EQUIP - GENERAL							
	CONTINENTAL WATER (D.I. WATER FOR LAB) . MAINTENANCE ALTAIR (AIR COMPRESSOR . COMPRESSED GAS FOR WQ LAB) ALTAIR (AIR COMPRESSOR, COMPRESSED GAS FOR WQ TRAILER	300	0	0	250	225	125	900
	RENT EQUIP - GENERAL	300	0	0	250	225	125	900
1036.51192	TECHNICAL TRAINING							
	TRAINING	4,000						4,000
	TECHNICAL TRAINING TOTAL	4,000	0	0	0	0	0	4,000
1036.51112	SPECIAL DEPT EXPENSE							
	AQUATIC PESTICIDE NPDES PERMIT	1,285						1,285
	NPDES STORMWATER PERMIT - GWRS FACILITY					830		830
	NPDES GENERAL DEWATERING PERMIT - BASINWIDE (EXCLUDES DISCHARGES TO NEWPORT BAY)	700				350	135	1,185
	SPECIAL DEPT EXPENSE TOTAL	1,985	0	0	0	1,180	135	3,300
	WATER QUALITY GRAND TOTAL	575,324	6,741	13,837	298,248	914,991	152,977	1,962,118

GENERAL FUND BUDGET FY 07-08
LABORATORY (1038)

JDE Account Number	Description	General	GWR System O&M	Talbert Barrier O&M	GAP O&M	Groundwater Producers Assistance	MTBE Litigation	Forebay VOC Litigation	SAR Monitoring	Prado O&M	Total
	ACTIVITY CODE	9900	9922	9908	9911	4406	MTBE	9936	4602	9924	
	SALARIES & BENEFITS										
1038.50104	REGULAR SALARIES	199,565	708,101	142,252	60,529	650,024	6,307	6,307	65,028	58,329	1,896,442
1038.50202	RETIREMENT	33,228	114,907	23,286	9,679	104,839	1,050	1,050	10,428	9,313	307,780
1038.50204	HEALTH INSURANCE	22,544	87,618	17,345	7,196	79,240	772	772	7,810	6,998	230,295
1038.50206	WORKERS' COMPENSATION	2,719	9,647	1,938	825	8,856	86	86	886	795	25,838
1038.50210	PAYROLL TAXES	2,894	11,381	2,211	1,026	10,688	91	91	1,091	994	30,467
	SALARIES & BENEFITS TOTAL	260,950	931,654	187,032	79,255	853,647	8,306	8,306	85,243	76,429	2,490,822
1038.51301	TRAVEL/CONFERENCES										
	OTHER CONFERENCES - DHS, EPA, ETC.	500	500	500		500					2,000
	PITTCON - AMERICAN CHEMICAL SOCIETY	500	500	500		500			500		2,500
	WQTC - AWWA CONFERENCE	500	1,000			500			500		2,500
	TRAVEL/CONFERENCES TOTAL	1,500	2,000	1,000	0	1,500	0	0	1,000	0	7,000
1038.51501	OFFICE EXPENSE - GENERAL										
	OFFICE SUPPORT MATERIALS PAPERS, PARTS, DATA CABLES, INSTRUMENT DATA LINKS, ETC	4,000	1,000	850	200	1,000	1,000	1,000	750	200	10,000
	OFFICE EXPENSE - GENERAL TOTAL	5,000	1,000	850	200	1,000	1,000	1,000	750	200	11,000
1038.51510	HARDWARE/SOFTWARE										
	LABEL MAKER SOFTWARE AND BAR CODE SYSTEM	500	500	500	500				250	250	2,500
	HARDWARE/SOFTWARE TOTAL	500	500	500	500	0	0	0	250	250	2,500
1038.51104	SUBSCRIPTIONS										
	JOURNAL: AWWA, ACS, ANALYTICAL CHROMATOGRAPHY	200									200
	SUBSCRIPTIONS TOTAL	200	0	0	0	0	0	0	0	0	200

GENERAL FUND BUDGET FY 07-08
LABORATORY (1038)

JDE Account Number	Description	General	GWR System O&M	Talbert Barrier O&M	GAP O&M	Groundwater Producers Assistance	MTBE Litigation	Forebay VOC Litigation	SAR Monitoring	Prado O&M	Total
	ACTIVITY CODE	9900	9922	9908	9911	4406	MTBE	9936	4602	9924	
1038.51525	ONLINE DATA SERVER										
	UCMR PROGRAM SUPPORT	1,000									1,000
	ONLINE DATA SERVER TOTAL	1,000	0	0	0	0	0	0	0	0	1,000
1038.51530	UNIFORMS & SAFETY										
	LAB COATS AND SAFETY GLASSES		1,750	1,250	500	1,250			1,250	500	6,500
	UNIFORMS & SAFETY TOTAL	0	1,750	1,250	500	1,250	0	0	1,250	500	6,500
1038.57004	MAINT EQUIP - GENERAL										
	DIONEX IC SYSTEM (ANIONS/IDBP)		3,500	2,000	500	3,000			4,500	500	14,000
	DIONEX IC SYSTEM (PERCHLORATE/Cr VI)		3,500	2,000	500	2,500			4,000	500	13,000
	ICP/MS		7,000	3,000	500	6,000			6,000	500	23,000
	ICP/OES		4,000	1,000	500	4,000			3,000	500	13,000
	LABORATORY BALANCES		500	500	500	500			500	500	3,000
	LABORATORY SAMPLE REFRIGERATORS		1,000		500	500			500	500	3,000
	LC/MS SYSTEM		7,000	1,000		5,000			4,000		17,000
	LIMS (ASPEN) AND INSTRUMENT INTERFACE (LIMSLINK) SERVICE SUPPORT		2,000	2,000	1,000	2,000	500	500	1,500	500	10,000
	TOC SYSTEMS		5,000		1,000	5,000			4,000	1,000	16,000
	VARIAN ANALYTICAL SYSTEMS (ORGANIC)		28,000			18,000			18,000		64,000
	WATER'S HPLC SYSTEMS (2)		7,000	1,000		5,000			4,000		17,000
	NITROGEN GENERATOR		2,000			2,000					4,000
	TRI-GAS GENERATOR		2,000	500		2,000			500		5,000
	APPLIED BIOSYSTEM - LC/MS/MS		25,000	2,500		10,000			2,500		40,000
	LEAP AUTOSAMPLER		1,000	500		1,000			500		3,000
	AUTOTITRATOR		1,000								1,000
	AGILENT LC SUPPORT		2,500	500		1,500			500		5,000
	MAINT EQUIP - GENERAL TOTAL	0	102,000	16,500	5,000	68,000	500	500	54,000	4,500	251,000

GENERAL FUND BUDGET FY 07-08
LABORATORY (1038)

JDE Account Number	Description	General	GWR System O&M	Talbert Barrier O&M	GAP O&M	Groundwater Producers Assistance	MTBE Litigation	Forebay VOC Litigation	SAR Monitoring	Prado O&M	Total
	ACTIVITY CODE	9900	9922	9908	9911	4406	MTBE	9936	4602	9924	
1038.57016	MAINT STRUCTURES & IMPROVEMENTS - GENERAL										
	MAINTENANCE OF AIR TEMPERATURE AND FLOW	2,000	1,000			1,000			1,000		5,000
	MAINT STRUCTURES & IMPROVEMENTS - GENERAL TOTAL	2,000	1,000	0	0	1,000	0	0	1,000	0	5,000
1038.51545	SMALL TOOLS										
	TOOLS & EQUIPMENT TO SERVICE ANALYTICAL SYSTEM	200	500	100	100	500			500	100	2,000
	SMALL TOOLS TOTAL	200	500	100	100	500	0	0	500	100	2,000
1038.51555	LAB SUPPLIES										
	LABORATORY CHEMICALS, REAGENTS, GLASSWARE, GAS CYLINDER		220,000	50,000	10,000	179,000			40,000	40,000	539,000
	LAB SUPPLIES TOTAL	0	220,000	50,000	10,000	179,000	0	0	40,000	40,000	539,000
1038.51560	LAB SAMPLES ANALYSIS										
	CONFIRMATION DATA FROM A SECOND LAB		600	200	200	400			400	200	2,000
	LAB SAMPLES ANALYSIS TOTAL	0	600	200	200	400	0	0	400	200	2,000
1038.51565	RENT EQUIP - GENERAL										
	CYLINDER RENTAL, PORTABLE AIR CONDITIONING SYSTEM		1,500	500	500	1,000			1,000	500	5,000
	RENT EQUIP - GENERAL TOTAL	0	1,500	500	500	1,000	0	0	1,000	500	5,000
1038.51192	EDUCATIONAL TRAINING										
	LAB TRAINING ON COMPLEX INSTRUMENTATION	4,000									4,000
	EDUCATIONAL TRAINING TOTAL	4,000	0	0	0	0	0	0	0	0	4,000
1038.51112	SPECIAL DEPT EXPENSE										
	ANNUAL CERTIFICATION FEE AND SUPPORT		2,000	500	500	1,500			2,000	500	7,000
	SPECIAL DEPT EXPENSE TOTAL	0	2,000	500	500	1,500	0	0	2,000	500	7,000
	LABORATORY GRAND TOTAL	275,350	1,264,504	258,432	96,755	1,108,797	9,806	9,806	187,393	123,179	3,334,022

GENERAL FUND BUDGET FY 07-08
RESEARCH & DEVELOPMENT (1040)

JDE Account Number	Description	General	GRANT FUNDED BUDGET				NON-GRANT FUNDED BUDGET					Total
			EPA2RO	MWD	H2OMEM	SARTMDL	GWR O&M	Talbert O&M	BCV O&M	Forebay O&M	ADVMET	
			9900				9922	9908	9942	9920		
	SALARIES & BENEFITS											
1040.50104	REGULAR SALARIES	163,209	78,844	4,514	16,293	47,126	184,365	2,606	25,154	98,874	56,258	677,243
1040.50202	RETIREMENT	25,035	13,128	752	2,713	7,846	30,697	434	4,188	16,462	9,367	110,622
1040.50204	HEALTH INSURANCE	10,956	6,125	330	1,317	3,885	14,207	211	985	4,831	4,317	47,164
1040.50206	WORKERS' COMPENSATION	2,223	1,074	61	222	642	2,512	36	343	1,347	766	9,226
1040.50210	PAYROLL TAXES	3,163	1,143	65	236	683	2,673	38	365	1,434	816	10,616
	SALARIES & BENEFITS TOTAL	204,586	100,314	5,722	20,781	60,182	234,454	3,325	31,035	122,948	71,524	854,871
1040.51301	TRAVEL/CONFERENCES											
	GRANT REIMBURSABLE		5,000									5,000
	NON-GRANT REIMBURSABLE					500	3,000			1,500		5,000
	TRAVEL/CONFERENCES TOTAL	0	5,000	0	0	500	3,000	0	0	1,500	0	10,000
1040.53001	PROFESSIONAL SERVICES - GENERAL											
	PROFESSIONAL SERVICES						15,000					15,000
	UCI TOC CHARACTERIZATION STUDY						20,000					20,000
	PROFESSIONAL SERVICES - GENERAL TOTAL						35,000					35,000
1040.51501	OFFICE EXPENSE - GENERAL											
	MISC. OFFICE EXPENSES (NOTEBOOKS, PHOTO, REPORT PREP, POSTERS)	100	200				200					500
	PRINTER INK/TONER CARTRIDGES	500										500
	SHIPPING (FEDEX/COURIER)	500	100		50		350					1,000
	OFFICE EXPENSE - GENERAL TOTAL	1,100	300	0	50	0	550	0	0	0	0	2,000
1040.51510	HARDWARE/SOFTWARE											
	COMPUTER COMPONENTS	500										500
	SPECIALTY SOFTWARE	500										500
	HARDWARE/SOFTWARE TOTAL	1,000	0	0	0	0	0	0	0	0	0	1,000
1040.51104	SUBSCRIPTIONS											
	ASM NEWS	100										100
	SUBSCRIPTIONS TOTAL	100	0	0	0	0	0	0	0	0	0	100
1040.51520	GAS & DIESEL FUEL											
	FUEL FOR DEPT. VEHICLE	800				200						1,000
	GAS & DIESEL FUEL TOTAL	800	0	0	0	200	0	0	0	0	0	1,000

GENERAL FUND BUDGET FY 07-08
RESEARCH & DEVELOPMENT (1040)

JDE Account Number	Description	General	GRANT FUNDED BUDGET				NON-GRANT FUNDED BUDGET					Total
			EPA2RO	MWD	H2OMEM	SARTMDL	GWR O&M	Talbert O&M	BCV O&M	Forebay O&M	ADVMET	
ACTIVITY CODE		9900					9922	9908	9942	9920		
1040.51525	ONLINE DATA SERVER											
	DIALOG INFORMATION SERVICES	1,000	500				500			100	500	2,600
	ONLINE DATA SERVER TOTAL	1,000	500	0	0	0	500	0	0	100	500	2,600
1040.51530	UNIFORMS & SAFETY											
	LAB COATS (SUPPLY & CLEANING)	2,400										2,400
	UNIFORMS & SAFETY TOTAL	2,400	0	0	0	0	0	0	0	0	0	2,400
1040.57004	MAINT EQUIP - GENERAL											
	ABI 310 GENETIC ANALYZER SERVICE CONTRACT	6,200										6,200
	ALL BALANCES (8)	700										700
	ALL INCUBATORS (6)	300										300
	ALL MICROSCOPES (5)	1,100										1,100
	ATOMIC FORCE MICROSCOPE SYSTEM	700										700
	ATR.FTIR SPECTROMETER (1)	4,650										4,650
	BECKMAN DNA SYNTHESIZER	300										300
	BIOLOGICAL SAFETY HOOD	300										300
	FRL EQUIPMENT MAINTENANCE	5,000										5,000
	HIGH SPEED CENTRIFUGES (2)	200										200
	LARGE REFRIGERATOR	250										250
	LKB 1219 LIQUID SCINTILLATION COUNTER SERVICE CONTRACT	4,500										4,500
	MEMBRANE TEST UNITS REPAIRS (11)	4,000										4,000
	NEURALWORKS PREDICT SERVICE CONTRACT	400										400
	PE 9600 PCR INSTRUMENT (1)	500										500
	SMALL REFRIGERATORS (6)	300										300
	SPECTROPHOTOMETERS (4)	400										400
	TOC ANALYZER (R&D TEST FACILITY)	2,500										2,500
	RATEMETER CALIBRATION	100										100
	ULTRA LOW TEMP FREEZER	500										500
	WAVE DNA ANALYZER SERVICE CONTRACT	8,000										8,000
	MAINT EQUIP - GENERAL TOTAL	40,900	0	0	0	0	0	0	0	0	0	40,900
1040.57016	MAINT STRUCTURE & IMPROVEMENT - GENERAL											
	GENERAL DEPARTMENTAL REPAIR WORK	1,000										1,000
	MAINT STRUCTURE & IMPROVEMENT - GENERAL TOTAL	1,000	0	0	0	0	0	0	0	0	0	1,000

GENERAL FUND BUDGET FY 07-08
RESEARCH & DEVELOPMENT (1040)

JDE Account Number	Description	General	GRANT FUNDED BUDGET				NON-GRANT FUNDED BUDGET					Total
			EPA2RO	MWD	H2OMEM	SARTMDL	GWR O&M	Talbert O&M	BCV O&M	Forebay O&M	ADVMET	
	ACTIVITY CODE	9900					9922	9908	9942	9920		
1040.51555	LAB SUPPLIES											
	EXPENDABLE LAB SUPPLIES, GENERAL	5,000		100	100	2,000	8,500		500	2,000	1,500	19,700
	HYDRAULIC SUPPLIES (PUMPS, VALVES, FITTINGS)						5,000	1,000	500	3,000	500	10,000
	MEMBRANES (MF/RO)						13,000				500	13,500
	MOLECULAR BIOLOGY SUPPLIES				500	10,000	2,000				500	13,000
	RADIO LABELED COMPOUNDS				100							100
	LAB SUPPLIES TOTAL	5,000	0	100	700	12,000	28,500	1,000	1,000	5,000	3,000	56,300
1040.51560	LAB SAMPLES ANALYSIS											
	EM ANALYSIS						1,500			200		1,700
	OTHER (DNA SEQUENCING, CHEMICAL ANALYSIS, ETC.)					1,000	20,000		500	200		21,700
	LAB SAMPLES ANALYSIS TOTAL	0	0	0	0	1,000	21,500	0	500	400	0	23,400
1040.51565	RENT EQUIP - GENERAL											
	BOTTLED WATER SERVICE (DS WATERS BPO ANNEX)	500										500
	DI CARTRIDGES (US FILTER BPO)	3,100										3,100
	GAS CYLINDERS/LIQUID N2 (PRAXAIR BPO)	1,000										1,000
	RENT EQUIP - GENERAL TOTAL	4,600	0	0	0	0	0	0	0	0	0	4,600
1040.51102	MEMBERSHIP											
	AMERICAN SOCIETY FOR MICROBIOLOGY	75										75
	MEMBERSHIP TOTAL	75	0	0	0	0	0	0	0	0	0	75
1040.51192	EDUCATIONAL TRAINING											
	RADIOISOTOPE TRAINING	500										500
	SHORT TRAINING COURSES/WORKSHOPS	400										400
	EDUCATIONAL TRAINING TOTAL	900	0	0	0	0	0	0	0	0	0	900
1040.51112	SPECIAL DEPT EXPENSE											
	JOURNAL PAGE CHARGES & REPRINTS	100	300			200	100					700
	RAD MATERIAL USE PERMIT (FROM DHS)	2,000										2,000
	REFERENCE MATERIAL (BOOKS, MANUALS, CDS)	500					650					1,150
	SPECIAL DEPT EXPENSE TOTAL	2,600	300	0	0	200	750	0	0	0	0	3,850
	RESEARCH AND DEVELOPMENT GROSS TOTAL	266,061	106,414	5,822	21,531	74,082	324,254	4,325	32,535	129,948	75,024	1,039,996
	ANTICIPATED GRANT FUNDING THIS BUDGET YEAR		150,000	5,800	21,650	35,000						212,450
	RESEARCH & DEVELOPMENT NET TOTAL	266,061	-43,586	22	-119	39,082	324,254	4,325	32,535	129,948	75,024	827,546

GENERAL FUND BUDGET FY 07-08
PLANNING & WATERSHED MANAGEMENT (1044)

JDE Account Number	Description	General	SAR Monitoring	Total
		9900	4602	
	SALARIES & BENEFITS			
1044.50104	REGULAR SALARIES	322,702	11,300	334,002
1044.50202	RETIREMENT	52,719	1,882	54,601
1044.50204	HEALTH INSURANCE	29,700	1,413	31,113
1044.50206	WORKERS' COMPENSATION	2,387	84	2,471
1044.50210	PAYROLL TAXES	5,055	164	5,219
	SALARIES & BENEFITS TOTAL	412,563	14,843	427,406
1044.51301	TRAVEL/CONFERENCES			
	SUSTAINABLE WATER SYMPOSIUM	1,000		1,000
	BASIN PLAN REVIEW MEETING (SACTO)	350		350
	MANAGEMENT TRAINING	2,000		2,000
	CEQA COMPLIANCE CONFERENCE	900		900
	ASSOCIATION OF GW AGENCIES (AGWA) CONFERENCE	1,000		1,000
	TRAVEL/CONFERENCES TOTAL	5,250	0	5,250
1044.53001	PROF SERVICE - GENERAL			
	CONSULTANT SERVICES: SUPPORT FOR WATER RIGHTS APPLICATION (BILL DENDY)	20,000		20,000
	CONSULTING SERVICES: SUPPORT FOR CEQA COMPLIANCE	70,000		70,000
	CONSULTING SERVICES: SUPPORT FOR FINAL EIR FOR LONG-TERM FACILITIES PLAN & ANNEXATIONS	25,000		25,000
	CONSULTING SERVICES FOR SAR WATER QUALITY STUDIES		25,000	25,000
	CONSULTING SERVICES: SUPPORT TO PREPARE FEASIBILITY STUDIES	90,000		90,000
	CONSULTING SERVICES: ARMORING STUDY	60,000		60,000
	CONSULTING SERVICE: SUPPORT FOR CORPS/COUNTY COORDINATION	10,000		10,000
	PROF SERVICE - GENERAL TOTAL	275,000	25,000	300,000

GENERAL FUND BUDGET FY 07-08
PLANNING & WATERSHED MANAGEMENT (1044)

JDE Account Number	Description	General	SAR Monitoring	Total
		9900	4602	
1044.51501	OFFICE EXPENSE - GENERAL			
	OFFICE SUPPLIES	200		200
	SAMPLE SHIPMENT (SHIPPING OF SAR WATER QUALITY SAMPLES TO LABS; REPORT DELIVERY)		16,000	16,000
	OFFICE EXPENSE - GENERAL TOTAL	200	16,000	16,200
1044.51510	HARDWARE/SOFTWARE			
	GRAPHICS SOFTWARE (TO PREPARE FIGURES FOR REPORTS AND PRESENTATIONS)	400		400
	HARDWARE/SOFTWARE TOTAL	400	0	400
1044.51104	SUBSCRIPTIONS			
	WATER DESALINATION REPORT	400		400
	SUBSCRIPTIONS TOTAL	400	0	400
1044.51545	SMALL TOOLS			
	SMALL TOOLS FOR FIELD TESTING		200	200
	SMALL TOOLS TOTAL	0	200	200
1044.51204	MISC EXP			
	SWRCB WATER RIGHT FEES (APPLICATIONS A027261, A008899, A008900, A031174) - FOR SANTIAGO CREEK & SAR	25,000		25,000
	MISC EXP TOTAL	25,000	0	25,000
1044.51112	SPECIAL DEPT. EXPENSE			
	SAR WATER QUALITY STUDIES:			
	CONTRACT LAB CHEMISTRY		30,000	30,000
	CONTRACT LAB MICROBIOLOGY		24,000	24,000
	SAR RECHARGE MONITORING ADVISORY PANEL (NWRI)		15,000	15,000
	TESTING FOR EMERGING CONTAMINANTS		90,000	90,000
	NORTHWEST VECTOR CONTROL MOSQUITO RESEARCH		20,000	20,000
	SPECIAL DEPT. EXPENSE TOTAL	0	179,000	179,000

GENERAL FUND BUDGET FY 07-08
PLANNING & WATERSHED MANAGEMENT (1044)

JDE Account Number	Description	General	SAR Monitoring	Total
		9900	4602	
1044.51192	TECHNICAL TRAINING			
	TRAINING ON GRAPHICS AND REPORT PREPARATION SOFTWARE	1,000		1,000
	TECHNICAL TRAINING TOTAL	1,000	0	1,000
1044.56012	INTERAGENCY AGREEMENT			
	SAWPA COMMISSION/GENERAL FUND SUPPORT	171,000		171,000
	SAWPA INTERSERVICE SUPPORT	60,000		60,000
	SAWPA ACTIVITY FUNDING:			
	BASIN MONITORING PROGRAM	45,000		45,000
	LAKE ELSINORE JPA	1,000		1,000
	PA10 BASIN PLANNING GENERAL	73,000		73,000
	PA10 SC WATER RECYCLING PROJECTS	5,000		5,000
	SA RIVER FISH CONSERVATION	3,000		3,000
	STORMWATER QUALITY TASK FORCE	12,000		12,000
	INTERAGENCY AGREEMENT TOTAL	370,000	0	370,000
	PLANNING & WATERSHED MANAGEMENT GRAND TOTAL	1,089,813	235,043	1,324,856

GENERAL FUND BUDGET FY 07-08
LOCAL RESOURCES (1045)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
	SALARIES & BENEFITS		
1045.50104	REGULAR SALARIES	211,525	211,525
1045.50202	RETIREMENT	35,219	35,219
1045.50204	HEALTH INSURANCE	26,376	26,376
1045.50206	WORKERS' COMPENSATION	1,565	1,565
1045.50210	PAYROLL TAXES	3,067	3,067
	SALARIES & BENEFITS TOTAL	277,752	277,752
1045.51112	SPECIAL DEPT EXPENSE		
	SWRCB INSPECTION VISITS AS REQUIRED BY STATE LOANS	500	500
	GSWC REPLACEMENT PRODUCTION WELL SITE	750	750
	SPECIAL DEPT EXPENSE TOTAL	1,250	1,250
1045.51192	TECHNICAL TRAINING		
	MICROSOFT PROJECT TRAINING	450	450
	TECHNICAL TRAINING TOTAL	450	450
1045.51301	TRAVEL/CONFERENCES		
	GRANT ACQUISITION MEETING (SACRAMENTO-2)	1,000	1,000
	AWWA NATIONAL	2,500	2,500
	TRAVEL/CONFERENCES TOTAL	3,500	3,500
1045.51501	OFFICE EXPENSE - GENERAL		
	FEDERAL EXPRESS TO GRANTS & LOAN FUNDING AGENCIES	150	150
	OFFICE SUPPLIES (TONER, ETC)	100	100
	OFFICE EXPENSE - GENERAL TOTAL	250	250
	LOCAL RESOURCES GRAND TOTAL	283,202	283,202

GENERAL FUND BUDGET FY 07-08
REGULATORY AFFAIRS (1046)

JDE Account Number	Description	General	SAR Monitoring	Forebay VOC Litigation	MTBE Litigation	GWR O&M	Total
	ACTIVITY CODE	9900	4602	9936	MTBE	9922	
	SALARIES & BENEFITS						
1046.50104	REGULAR SALARIES	75,313	34,040	8,510	8,510	68,080	194,453
1046.50202	RETIREMENT	12,540	5,668	1,417	1,417	11,335	32,377
1046.50204	HEALTH INSURANCE	9,050	2,957	739	739	5,913	19,398
1046.50206	WORKERS' COMPENSATION	557	252	63	63	504	1,439
1046.50210	PAYROLL TAXES	1,092	494	123	123	987	2,819
	SALARIES & BENEFITS TOTAL	98,552	43,411	10,852	10,852	86,819	250,486
1046.51301	TRAVEL/CONFERENCES						
	DHS RECHARGE REGS MEETINGS (SACTO)	850					850
	DRINKING WATER REGS LEGISLATION (SACTO)	400					400
	GRANT ACQUISITION MEETING (SACTO)	400					400
	WATEREUSE SYMPOSIUM (TAMPA, FL)	1,200					1,200
	WATER QUALITY TECHNOLOGY CONF (CHARLOTTE, NC)	1,800					1,800
	ASSOCIATION OF GW AGENCIES (AGWA)	1,200					1,200
	TRAVEL/CONFERENCES TOTAL	5,850	0	0	0	0	5,850
1046.53001	PROF SERVICE - GENERAL						
	AWWARF TOXICOLOGICAL RELEVANCE PROJECT FOLLOWUP - WORKSHOPS FOR REGULATORS AND WATER UTILITIES	15,000					15,000
	CONSULTING SERVICES ON DHS REGULATIONS	20,000					20,000
	NWRI PANEL FOR GWR SYSTEM (PERMIT REQMT) RESEARCH FOR ADVANCED OXIDATION SYSTEM EFFECTIVENESS	20,000				75,000	75,000
	GWRS WATER QUALITY STUDY (BILL YANKO)					20,000	20,000
	WATEREUSE RISK COMMUNICATION PROJECT	15,000					15,000
	PROF SERVICE - GENERAL TOTAL	70,000	0	0	0	95,000	165,000

GENERAL FUND BUDGET FY 07-08
REGULATORY AFFAIRS (1046)

JDE Account Number	Description	General	SAR Monitoring	Forebay VOC Litigation	MTBE Litigation	GWR O&M	Total
	ACTIVITY CODE	9900	4602	9936	MTBE	9922	
1046.51501	OFFICE EXPENSE - GENERAL						
	FEDEX	500					500
	OFFICE SUPPLIES (TONER, ETC)	450					450
	OFFICE EXPENSE - GENERAL TOTAL	950	0	0	0	0	950
1046.51102	MEMBERSHIP						
	IWA, AWWA	475					475
	MEMBERSHIP TOTAL	475	0	0	0	0	475
1046.51204	MISC EXPENSES						
	MISCELLANEOUS	500					500
	PERMIT FEE FOR GWR SYSTEM RIVER DISCHARGE					3,750	3,750
	PUBLICATIONS	350					350
	MISC EXPENSES TOTAL	850	0	0	0	3,750	4,600
	REGULATORY AFFAIRS GRAND TOTAL	176,677	43,411	10,852	10,852	185,569	427,361

GENERAL FUND BUDGET FY 07-08
WATER PRODUCTION (1050)

JDE Account Number	Description	General	GWRS O&M	Talbert Barrier O&M	Alamitos Barrier O&M	FV Facility	GAP O&M	Total
	ACTIVITY CODE	9900	9922	9908	9932	9901	9911	
	SALARIES & BENEFITS							
1050.50104	REGULAR SALARIES	219,508	2,477,407	364,629	0	245,453	407,797	3,714,795
1050.50106	OVERTIME SALARIES	1,692	43,343	3,206	0	7,962	7,417	63,620
1050.50202	RETIREMENT	36,830	395,773	61,245	0	42,194	69,133	605,175
1050.50204	HEALTH INSURANCE	32,134	310,767	55,809	0	39,460	56,772	494,943
1050.50206	WORKERS' COMPENSATION	8,034	92,817	13,451	0	8,782	14,595	137,680
1050.50210	PAYROLL TAXES	3,207	45,462	5,334	0	3,675	6,021	63,698
	SALARIES & BENEFITS TOTAL	301,407	3,365,569	503,673	0	347,526	561,734	5,079,910
1050.51301	TRAVEL/CONFERENCE							
	AWWA CONFERENCE (3)		3,500	1,750				5,250
	AWWARF MEETINGS (2)		1,500					1,500
	CONSTRUCTION SUPER CONFERENCE		3,000					3,000
	CWEA LOCAL SECTION & ANNUAL CONFERENCE (3)		2,500	800			1,000	4,300
	CWEA SARBS SAFETY TRAINING (15)		1,200	500				1,700
	EMERSON USER CONFERENCE (2)		3,000					3,000
	NEC ELECTRICAL CONFERENCE (2)		2,600					2,600
	TRI STATE AWWA TRAINING CONFERENCE		1,500					1,500
	TRAVEL/CONFERENCE TOTAL	0	18,800	3,050	0	0	1,000	22,850
1050.51501	OFFICE EXPENSE - GENERAL							
	BLUE PRINT COPIES		1,000	500				1,500
	CORK AND DRY ERASER BOARDS (APPROXIMATELY 20)		1,000					1,000
	FAX MACHINES (3)		1,600					1,600
	TABLES AND FILING CABINETS		2,500					2,500
	OFFICE SUPPLIES		3,000				1,600	4,600
	COPY MACHINE RENTAL		7,200					7,200
	PLAN RACK FOR GWRS PLANS		2,000					2,000
	CONSUMABLE SUPPLIES		2,500					2,500
	MICROWAVES FOR LUNCH ROOM AND 2 KITCHENETTES		300					300
	REFRIGERATORS FOR LUNCH ROOM AND 2 KITCHENETTES		1,500					1,500
	OFFICE EXPENSE - GENERAL TOTAL	0	22,600	500	0	0	1,600	24,700
1050.51510	HARDWARE/SOFTWARE							
	LASERJET PRINTERS		4,000					4,000
	LARGE FORMAT INKJET PRINTER (3)		800					800
	INKJET PRINTERS 5		1,500					1,500
	PCS SYSTEM HARDWARE PM		10,000					10,000
	HARDWARE/SOFTWARE TOTAL	0	16,300	0	0	0	0	16,300

GENERAL FUND BUDGET FY 07-08
WATER PRODUCTION (1050)

JDE Account Number	Description	General	GWRS O&M	Talbert Barrier O&M	Alamitos Barrier O&M	FV Facility	GAP O&M	Total
	ACTIVITY CODE	9900	9922	9908	9932	9901	9911	
1050.51104	SUBSCRIPTIONS							
	LAB AND MAINT MANAGEMENT		800			300	150	1,250
	SUBSCRIPTIONS TOTAL	0	800	0	0	300	150	1,250
1050.51520	GAS & DIESEL FUEL							
	FUEL		3,500	4,600		1,000	6,000	15,100
	GAS & DIESEL FUEL TOTAL	0	3,500	4,600	0	1,000	6,000	15,100
1050.51530	UNIFORMS & SAFETY							
	BOTTLED WATER AS REQUIRED IN TREATMENT AREA		2,500				1,500	4,000
	UNIFORMS/RAINGEAR		22,000					22,000
	UNIFORMS & SAFETY TOTAL	0	24,500	0	0	0	1,500	26,000
1050.57001	MAINT - SUPPLIES & MATERIAL - ELECTRICAL							
	MISC MOTOR, PUMP WAREHOUSE SUPPLIES		2,750	500		1,000	1,000	5,250
	INSTRUMENTATION PARTS AND SUPPLIES		2,000				1,000	3,000
	ELECTRICAL WAREHOUSE SUPPLIES		3,000	500		1,200	1,000	5,700
	LIGHTING & EMERGENCY. LIGHT SUPPLIES		5,000			3,100	300	8,400
	OFFICE ELECTRICAL & LIGHTING REPAIRS		2,000			2,000	500	4,500
	MAINT. - SUPPLIES & MATERIAL - ELECTRICAL	0	14,750	1,000	0	7,300	3,800	26,850
1050.57004	MAINT - SUPPLIES & MATERIAL							
	BARRIER FIELD EQUIPMENT REPAIR SUPPLIES			2,000				2,000
	BOTTLED GAS NITROGEN ECT FOR BARRIER, OPS & MAINT		500	1,800		500	500	3,300
	EQUIP AND STRUCTURE REPAIRS SUPPLIES		2,000				800	2,800
	EQUIPMENT LUBRICATION SUPPLIES		17,600				2,500	20,100
	FENCING AND SECURITY GATE REPAIRS		2,500	1,500		1,200	250	5,450
	GASKETS, BEARINGS, AND GEARS WAREHOUSE SUPPLIES		2,000	200			500	2,700
	HARDWARE SUPPLIES FOR BUILDINGS AND PROCESSES		3,000			2,000	500	5,500
	IRRIGATION SUPPLIES					2,500		2,500
	JANITORIAL SUPPLIES					20,000		20,000
	LABORATORY & ANNEX STRUCTURE REPAIRS					2,500		2,500
	LANDSCAPE SUPPLIES			500		3,500		4,000
	LUMBER, PAINT, HARDWARE & PLUMBING WAREHOUSE SUPPLIES		2,000			3,000	500	5,500
	PVC PIPE AND SUPPLIES		3,500			2,000	800	6,300
	PVC PIPE REPAIRS AND SUPPLIES		2,000			300	700	3,000
	SIGNAGE SUPPLIES		3,000			1,000	1,000	5,000
	SITE FACILITY PAINTING/SUPPLIES		2,000			2,000	4,000	8,000
	STRUCTURE BLDG REPAIRS MISC		2,500					2,500
	WELDING MATERIAL (SHEET METAL, STAINLESS, ANGLE IRON)		3,000			500	1,200	4,700
	WELDING SUPPLIES		1500			200	500	2,200
	MAINT - SUPPLIES & MATERIAL	0	47,100	6,000	0	41,200	13,750	108,050

GENERAL FUND BUDGET FY 07-08
WATER PRODUCTION (1050)

JDE Account Number	Description	General	GWRS O&M	Talbert Barrier O&M	Alamitos Barrier O&M	FV Facility	GAP O&M	Total
	ACTIVITY CODE	9900	9922	9908	9932	9901	9911	
1050.57006	MAINT EQUIP - COMMUNICATION							
	REPAIR OF HANDHELD AND CAR RADIOS		3,000			500	2,000	5,500
	MAINT EQUIP - COMMUNICATION TOTAL	0	3,000	0	0	500	2,000	5,500
1050.57008	MAINT EQUIP - ELEC. CARTS							
	REPAIR OF ELECT CARTS	500	5,500			500	2,000	8,500
	MAINT EQUIP - ELEC. CARTS TOTAL	500	5,500	0	0	500	2,000	8,500
1050.57010	MAINT EQUIP - VEHICLES							
	MAINTENANCE OF ALL VEHICLES IN OCWD FV POOL	27,500						27,500
	MAINT EQUIP - VEHICLES TOTAL	27,500	0	0	0	0	0	27,500
1050.57012	MAINT EQUIP - HEAVY EQUIP							
	PLANT WIDE CRANE SERVICE AND INSPECTION		3,000			1,000		4,000
	MAINT OF HEAVY EQUIP FOR WATER PRODUCTION		2,000	1,500		1,800	1,000	6,300
	MAINT EQUIP - HEAVY EQUIP TOTAL	0	5,000	1,500	0	2,800	1,000	10,300
1050.57014	MAINT EQUIP - UV MESA WELL							
	MESA STAFF LABOR	3,000						3,000
	MESA UV ELECTRICITY	44,000						44,000
	MESA UV REPAIRS	5,000						5,000
	MAINT EQUIP - UV MESA WELL TOTAL	52,000	0	0	0	0	0	52,000
1050.57016	MAINT STRUCTURE AND IMPROVEMENT - OUTSIDE SERVICES							
	ADMIN BUILDING REPAIRS					20,000		20,000
	ANNUAL INSPECTION/REPAIR OF RPPD		1,200			1,500	2,500	5,200
	CONCRETE REPAIRS & CORE DRILLING		2,500	200			600	3,300
	ELEVATOR YEARLY INSPECTION AND CERTIFICATION (MF, RO, ANNEX)		8,100			3,150		11,250
	EMERGENCY JANITORIAL SERVICES					3,000		3,000
	EXTERMINATOR PEST CONTROL SERVICES					7,800		7,800
	FIRE SPRINKLER SERVICE		3,000			1,000		4,000
	FV SITE FIRE ALARM SERVICE		1,000			900		1,900
	HVAC & AIR HANDLING PM GWRS BUILDINGS AND MAINT. FV OFFICES		73,000			21,000		94,000
	HVAC & AIR HANDLING REPAIRS GWRS AND FV SITE OFFICES		5,000			9,000	1,000	15,000
	HVAC AIR BALANCING SURVEY OFFICES					10,500		10,500
	HVAC DUCT CLEANING					31,575		31,575
	JANITORIAL SERVICE GWRS AND FV BUILDINGS INCLUDES SHARED MWDOC					143,000		143,000
	LANDSCAPE SERVICES INCLUDING SHARED MWDOC					35,000		35,000
	MEDIUM VOLTAGE DIST. & SWITCH GEAR PM & OIL TESTING		10,000			1,000	1,000	12,000
	MOTOR CONTROL CENTER PM		3,500				2,500	6,000
	MOTOR OIL ANALYSIS		7,200				3,000	10,200
	NIST CERTIFICATION CALIBRATION ELECT SHOP EQUIPMENT		2,000					2,000
	PLUMBING SERVICE BUILDINGS		2,500			3,000	1,000	6,500
	PUMP MISC INSPECTION and MODIFICATION		3,000				2,500	5,500

GENERAL FUND BUDGET FY 07-08
WATER PRODUCTION (1050)

JDE Account Number	Description	General	GWRS O&M	Talbert Barrier O&M	Alamitos Barrier O&M	FV Facility	GAP O&M	Total
	ACTIVITY CODE	9900	9922	9908	9932	9901	9911	
1050.57016	MAINT STRUCTURE AND IMPROVEMENT - OUTSIDE SERVICES (Cont.)							
	RAINBOW DISPOSAL TRASH PICKUP INCLUDES SHARED MWDOC					32,000		32,000
	REPAIR STAINLESS STEEL VALVE, FITTINGS AND MISC PIPES		3,000					3,000
	REPAIR/INSPECTION OF AIR VAC AND PRESS RELIEF & BF VALVES		2,000				2,000	4,000
	ROOF REPAIRS					5,500	300	5,800
	STREET SWEEPING					5,500		5,500
	SUMP PUMP REPLACEMENT ELECTRICAL MANHOLES		3,000					3,000
	TRASH HAUL SPECIAL REQUEST DEBRIS REMOVAL					4,000		4,000
	TREE TRIMMING SERVICE					5,000		5,000
	USA OUTSOURCE UNDERGROUND SERVICE ALERTS		27,000	2,500	500	5,000	45,000	80,000
	USA PIPE LOCATION REQUEST SOFTWARE MAINT. AND USA FEE		2,500			300	5,000	7,800
	WINDOW AND DOOR REPAIRS AND SUPPLIES		1,000			2,500	500	4,000
	MAINT STRUCTURE AND IMPROVEMENT - OUTSIDE SERVICES	-	160,500	2,700	500	351,225	66,900	581,825
1050.57044	MAINT STRUCTURE AND IMPROVEMENT - GWRS SCREENINGS							
	SCREENINGS PM		1,850					1,850
	MAINT STRUCTURE AND IMPROVEMENT - GWRS SCREENINGS TOTAL	0	1,850	0	0	0	0	1,850
1050.57031	MAINT STRUCTURE AND IMPROVEMENT - GWRS MICROFILTRATION							
	MF BACKWASH PUMP PM		2,000					2,000
	MF FILTRATE PUMP PM		3,000					3,000
	MF PUMP VFD PM		4,000					4,000
	MF INSTRUMENTATION PM		2,500					2,500
	MF CHLORINE ANALYZER PM		2,000					2,000
	MF PIPE PM		2,000					2,000
	MF COMPRESSOR PM		5,000					5,000
	MF VALVE PM		3,000					3,000
	MISC MF MEMBRANE REPLACEMENT NON WARRANTY		10,000					10,000
	MAIN STRUCTURE AND IMPROVEMENT - MF TOTAL	0	33,500	0	0	0	0	33,500
1050.57032	MAINT STR/IMP - GWRS REVERSE OSMOSIS							
	15 RO FEED PUMP PM		5,000					5,000
	RO ACID PUMP PM		2,000					2,000
	RO VFD PM		3,000					3,000
	RO INSTRUMENTATION PM		2,500					2,500
	RO PIPING PM		1,000					1,000
	TOC ANALYZER CHEMICALS		450					450
	TOC ANALYZER PM		5,000					5,000
	RO VALVE PM		2,500					2,500
	MAINT STR/IMP - REVERSE OSMOSIS TOTAL	0	21,450	0	0	0	0	21,450

GENERAL FUND BUDGET FY 07-08
WATER PRODUCTION (1050)

JDE Account Number	Description	General	GWRS O&M	Talbert Barrier O&M	Alamitos Barrier O&M	FV Facility	GAP O&M	Total
	ACTIVITY CODE	9900	9922	9908	9932	9901	9911	
1050.57038	MAINT STR/IMP - GWRS UV SYS							
	UV CHEMICAL PUMP PM		1,800					1,800
	UV CONTROL SYSTEM		1,000					1,000
	UV INSTRUMENT PM		1,000					1,000
	UV LAMP ASSEMBLY PM		3,000					3,000
	UV LAMPS		5,000					5,000
	UV TRANSMITTANCE METER PM		2,500					2,500
	UV VALVE PM		2,000					2,000
	MAINT STR/IMP - GWRS UV SYSTEM TOTAL	0	16,300	0	0	0	0	16,300
1050.57046	MAINT STR/IMP GWRS LIME SYSTEM							
	LIME MIXING EQUIPMENT PM		3,000					3,000
	LIME TUBE PUMP PM		3,900					3,900
	LIME 4 INCH SLUDGE LIME PLUMBING PM		8,000					8,000
	LIME VALVE PM		1,500					1,500
	MAINT STR/IMP - GWRS LIME SYSTEM	0	16,400	0	0	0	0	16,400
1050.57048	MAINT STR/IMP GWRS PRODUCT WATER PUMP STATION							
	VFD PM		2,500					2,500
	MOTOR PM		2,000					2,000
	PUMP PM		2,000					2,000
	VALVE PM		1,500					1,500
	INSTRUMENTATION PM		1,000					1,000
	MAINT STR/IMP - GWRS PRODUCT WATER PUMP STATION	0	9,000	0	0	0	0	9,000
1050.57034	MAINT STR/IMP - GREEN ACRES PROJECT							
	GAP EFFLUENT PUMP VFD PM						2,000	2,000
	GAP EFFLUENT MOTOR PM						1,500	1,500
	GAP EFFLUENT PUMP PM						2,000	2,000
	GAP BACKWASH PUMP PM						1,000	1,000
	GAP CHEMICAL PUMP PM						1,500	1,500
	GAP FILTER MEDIA SURVEILLANCE PM						9,500	9,500
	GAP FLOCCULATOR PM						1,500	1,500
	GAP CL2 ANALYZER PM						2,000	2,000
	GAP INSTRUMENT PM						2,500	2,500
	GAP PIPING PM						1,000	1,000
	GAP VALVE PM						2,000	2,000
	GAP AIR VAC AND PIPELINE REPAIRS						50,000	50,000
	VACUUM TRUCK TO CLEAN BW SUMP						11,000	11,000
	MAINT STR/IMP - GREEN ACRES PROJECT TOTAL	-	-	-	-	-	87,500	87,500

GENERAL FUND BUDGET FY 07-08
WATER PRODUCTION (1050)

JDE Account Number	Description	General	GWRS O&M	Talbert Barrier O&M	Alamitos Barrier O&M	FV Facility	GAP O&M	Total
	ACTIVITY CODE	9900	9922	9908	9932	9901	9911	
1050.57036	MAINT STR/IMP - INJECTION WELLS							
	REHAB TALBERT INJECTION WELLS 8 to 10 I-WELLS			500,000				500,000
	INJECTION WELL INSTRUMENT PM			3,000				3,000
	INJECTION WELL PCS PM			2,000				2,000
	REPAIR & RECALIBRATION OF FLOW METERS/INSTRUMENTS			8,000			700	8,700
	REPAIR ACCESS HATCHES AND VAULTS			25,000				25,000
	REPAIR OF DOWN-HOLE VALVES AND BF PUMPS			20,000				20,000
	REPAIR/INSPECTION OF SEB 10 INCH BACK FLOW PREVENTION			2,000				2,000
	REPLACEMENT PARTS AND SUPPLIES FOR BARRIER			25,000				25,000
	REPAIR STAINLESS STEEL VALVE, FITTINGS AND MISC PIPES			1,500				1,500
	REPAIR/INSPECTION OF AIR VAC AND PRESS RELIEF & BF VALVES			2,000				2,000
	INJECTION WELL SUMP PUMP PM			2,000			500	2,500
	MODEL INJECTION WELL - RESEARCH STUDY (PARTS)			800				800
	BARRIER FIELD EQUIPMENT SUPPLIES REPAIRS			2,000				2,000
	MAINT STR/IMP - INJECTION WELL TOTAL	0	0	593,300	0	0	1,200	594,500
1050.51540	CARTRIDGE FILTERS-REVERSE OSMOSIS							
	REPLACEMENT OF RO PRETREATMENT FILTERS		13,000					13,000
	RO CARTRIDGE FILTERS TOTAL	0	13,000	0	0	0	0	13,000
1050.51545	SMALL TOOLS							
	TOOLS FOR OPERATIONS		3,000	3,500			1,000	7,500
	TOOLS FOR NEW EMPLOYEES		15,000	1,000			500	16,500
	MULTI FUNCTION INSTRUMENT CALIBRATOR		5,000					5,000
	GENERATOR FOR BARRIER T-130			2,400				2,400
	RIGGING HOIST AND EQUIPMENT FOR MF RO UV		7,500					7,500
	LADDERS AND WORK PLATFORMS MF RO UV		5,000					5,000
	ELECTRONIC LEAK DETECTOR		1,750	1,750				3,500
	SOIL SAMPLE KIT			4,500				4,500
	TOOL PULL CARTS		600					600
	INDUSTRIAL BIKES		4,000					4,000
	LARGE TOOL BOXES FOR SPECIALIZED TOOLS		4,000					4,000
	SPECIALIZED TOOLS FOR TREATMENT PROCESS AREAS		8,000					8,000
	SMALL TOOLS TOTAL	0	53,850	13,150	0	0	1,500	68,500
1050.51550	SAFETY SUPPLIES							
	BARRIER TRAFFIC SAFETY SUPPLIES			3,000			3,500	6,500
	TRUCK SAFETY LIGHT BAR		1,500	1,500				3,000
	3 LEVEL A HAZ MAT RESPONDER SUITES		2,000				2,000	4,000
	4 SCOTT AIR PACKS FOR HAZARDOUS EMERGENCY RESPONSE		18,000					18,000
	CONFINED SPACE GAS DETECTORS		2,500					2,500
	PPE FOR NEW EMPLOYEES		3,000					3,000
	FULL FACE RESPIRATORS		5,000				500	5,500
	RESPIRATOR FILTERS		2,000					2,000
	SAFETY EQUIPMENT FOR 12 KV ELECT. SYSTEM PM AND EMERGENCY/TESTING		4,000			2,000		6,000

GENERAL FUND BUDGET FY 07-08
WATER PRODUCTION (1050)

JDE Account Number	Description	General	GWRS O&M	Talbert Barrier O&M	Alamitos Barrier O&M	FV Facility	GAP O&M	Total
	ACTIVITY CODE	9900	9922	9908	9932	9901	9911	
1050.51550	SAFETY SUPPLIES (cont.)							
	SAFETY SHOWER PM		1,000				200	1,200
	SPILL CONTAINMENT SUPPLIES		2,000				1,000	3,000
	SAFETY LABEL MAKER		1,300					1,300
	SAFETY AND OPERATION INFORMATION SIGNS		6,000					6,000
	SAFETY SUPPLIES TOTAL	-	48,300	4,500	0	2,000	7,200	62,000
1050.57040	MAINT STR/IMP GREEN ACRES INFLUENT PUMP STATION							
	INSTRUMENTATION PM						800	800
	VFD PM						2,000	2,000
	MOTOR PM						1,000	1,000
	PUMP PM						1,600	1,600
	VALVE MOTOR OPERATOR PM						600	600
	VALVE PM						700	700
	MAINT - INFLUENT PUMP STATION TOTAL	0	0	0	0	0	6,700	6,700
1050.57042	MAINT - SANTA ANA RESERVOIR							
	CHEMICAL PUMP PM						550	550
	INSTRUMENTATION PM						1,500	1,500
	MOTOR PM						1,000	1,000
	PUMP PM						1,500	1,500
	VALVE MOTOR OPERATOR PM						700	700
	VALVE PM						500	500
	MAINT - SANTA ANA RESERVOIR TOTAL	0	0	0	0	0	5,750	5,750
1050.54001	CHEMICALS - CHLORINE							
	GWRS SODIUM HYPOCHLORITE		1,000,000					1,000,000
	GAP INFLUENT AND CL CONTACT SODIUM HYPOCHLORITE						186,000	186,000
	POTASSIUM IODIDE CL ANALYZERS		2,000				500	2,500
	CHEMICALS - CHLORINE TOTAL	0	1,002,000	0	0	0	186,500	1,188,500
1050.54045	CHEMICALS - POST TREATMENT HYDRATED LIME							
	HYDRATED LIME		320,000					320,000
	CHEMICAL - LIME TOTAL	0	320,000	0	0	0	0	320,000
1050.54050	CHEMICALS - HYDROGEN PEROXIDE UV							
	HYDROGEN PEROXIDE UV (50% OCSO REIMBURSED)		410,000					410,000
	CHEMICAL HYDROGEN PEROXIDE TOTAL	0	410,000	0	0	0	0	410,000
1050.54055	CHEMICALS - SODIUM BISULFITE							
	SODIUM BISULFITE RO FLUSH AND SAR DISCHARGE		10,000					10,000
	CHEMICAL SODIUM BISULFITE	0	10,000	0	0	0	0	10,000

GENERAL FUND BUDGET FY 07-08
WATER PRODUCTION (1050)

JDE Account Number	Description	General	GWRS O&M	Talbert Barrier O&M	Alamitos Barrier O&M	FV Facility	GAP O&M	Total
	ACTIVITY CODE	9900	9922	9908	9932	9901	9911	
1050.54015	CHEMICALS - POLYMER							
	ANIONIC POLYMER LIME SATURATOR		20,000					20,000
	CHEMICALS - POLYMER TOTAL	0	20,000	0	0	0	0	20,000
1050.54020	CHEMICALS - GWRS REVERSE OSMOSIS SULFURIC ACID							
	SULFURIC ACID		920,000					920,000
	CHEMICALS - RO SULFURIC ACID TOTAL	0	920,000	0	0	0	0	920,000
1050.54025	CHEMICALS - GWRS REVERSE OSMOSIS ANTISCALANT							
	RO ANTISCALANT		400,000					400,000
	CHEMICALS - RO ANTISCALANT TOTAL	0	400,000	0	0	0	0	400,000
1050.54030	CHEMICALS - GWRS MF CLEANING CHEMICALS							
	MF MEMBRANE CLEANING CHEMICALS CAUSTIC		75,000					75,000
	MF MEMBRANE CLEANING CHEMICALS CITRIC		325,000					325,000
	MF MEMCLEAN		20,000					20,000
	CHEMICALS - GWRS MF CLEANING CHEMICALS TOTAL	0	420,000	0	0	0	0	420,000
1050.54030	CHEMICALS - GWRS RO CLEANING CHEMICALS							
	RO MEMBRANE GENERIC CLEANING CHEMICALS		80,000					80,000
	RO MEMBRANE PROPRIETARY CLEANING CHEMICALS		210,000					210,000
	CHEMICALS - GWRS RO CLEANING CHEMICALS TOTAL	0	290,000	0	0	0	0	290,000
1050.54040	CHEMICALS - GAP ALUM/POLYMER							
	GAP ALUM						7,700	7,700
	GAP PACL						8,000	8,000
	CHEMICALS - GAP ALUM/POLYMER TOTAL	0	0	0	0	0	15,700	15,700
1050.51555	LAB SUPPLIES							
	CALIB STANDARDS FOR BARRIER FIELD EQUIPMENT			600				600
	LAB SAMPLE REFRIGERATOR		2,500					2,500
	PLANT WIDE AUTO SAMPLE EQUIPMENT PM		2,000					2,000
	CHEMICALS AND SUPPLIES FOR THE OPERATIONS LAB		9,000				1,500	10,500
	3 NEW HANDHELD EC PH METERS		1,500					1,500
	LAB SUPPLIES TOTAL	0	15,000	600	0	0	1,500	17,100
1050.51560	LAB SAMPLES ANALYSIS							
	GENERAL LAB ANALYSIS BY OUTSIDE LAB		3,500	500			500	4,500
	LAB SAMPLES ANALYSIS TOTAL	0	3,500	500	0	0	500	4,500
1050.51565	RENT EQUIP - GENERAL							
	RENTAL OF EQUIPMENT FOR PM PROJECTS		3,000	1,500		500	1,000	6,000
	RENT EQUIP - GENERAL TOTAL	0	3,000	1,500	0	500	1,000	6,000

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WATER PRODUCTION (1050)

JDE Account Number	Description	General	GWRS O&M	Talbert Barrier O&M	Alamitos Barrier O&M	FV Facility	GAP O&M	Total
	ACTIVITY CODE	9900	9922	9908	9932	9901	9911	
1050.54501	UTILITIES - ELECTRICITY (OFFSITE & MISC ELECT METERS)							
	GAP CATHODIC PROTECTION						3,000	3,000
	GAP DEEP WELL WATER ELECTRICITY						120,000	120,000
	GAP INFLUENT PUMPING ELECTRICITY						50,000	50,000
	GAP SANTA ANA RESERVOIR PUMP STATION POWER (CNE/SCE)						95,000	95,000
	INJECTION WELLS I-26, I-27, I-32			12,000				12,000
	UTILITIES - ELECTRICITY (OFFSITE & MISC ELECT METERS) TOTAL	0	0	12,000	0	0	268,000	280,000
1050.54505	UTILITIES - ELECTRICITY (66KV FV SITE SCE)							
	ADMIN BLDG ELECTRICITY					65,000		65,000
	MODOC BLDG ELECTRICITY					45,000		45,000
	GAP ELECT. FOR 9 MONTHS OF OPERATION						490,000	490,000
	LABORATORY; WAREHOUSE, ANNEX & MAINTENANCE SHOPS		481,000					481,000
	SCREENINGS		9,885					9,885
	MICROFILTRATION		1,140,862					1,140,862
	REVERSE OSMOSIS		4,694,510					4,694,510
	UV SYSTEM ELECT. (40% OCSD REIMBURSED)		554,675					554,675
	CHEMICAL FEED		6,357					6,357
	PRODUCT WATER PUMP STATION		1,103,113					1,103,113
	BARRIER PUMP STATION		311,344					311,344
	UTILITIES - ELECTRICITY (66KV FV SITE SCE) TOTAL	0	8,301,746	0	0	110,000	490,000	8,901,746
1050.54510	UTILITIES - GAS							
	NATURAL GAS FOR HVAC OFFICES, LAB & ANNEX BUILDING		5,000			9,000		14,000
	UTILITIES - GAS TOTAL	0	5,000	0	0	9,000	0	14,000
1050.54515	UTILITIES - WATER							
	POTABLE WATER (MAY NEED TO BE HIGHER DEPENDING ON PUMP COOLING RESOLUTION)		50,000			9,500	1,000	60,500
	UTILITIES - WATER TOTAL	0	50,000	0	0	9,500	1,000	60,500
1050.51102	MEMBERSHIPS							
	ASCE MEMBERSHIP		250					250
	OPERATOR & MAINTENANCE LICENSE FEES		4,000					4,000
	MEMBERSHIPS TOTAL	0	4,250	0	0	0	0	4,250
1050.51192	TECHNICAL TRAINING							
	DELTA V PROCESS CONTROL TRAINING		5,000					5,000
	2 TV AND 2 DVD FOR TRAINING		1,400					1,400
	I&E MEDIUM VOLTAGE TRAINING CLASSES		4,500					4,500
	INTERACTIVE CD ROM TRAINING MATERIAL		3,000					3,000
	MAINTENANCE TRAINING		5,000					5,000
	WEB BASED TRAINING PROGRAM FOR NEW O&M PERSONNEL		9,000					9,000
	O&M TECHNICAL TRAINING		3,500					3,500
	WATER DISTRIBUTION TRAINING BARRIER STAFF					2,500		2,500
	TECHNICAL TRAINING TOTAL	0	31,400	0	0	2,500	0	33,900

GENERAL FUND BUDGET FY 07-08
WATER PRODUCTION (1050)

JDE Account Number	Description	General	GWRS O&M	Talbert Barrier O&M	Alamitos Barrier O&M	FV Facility	GAP O&M	Total
	ACTIVITY CODE	9900	9922	9908	9932	9901	9911	
1050.51112	SPECIAL DEPT. EXPENSE							
	ANNUAL MF/RO CONSULTING SERVICES		75,000					75,000
	DIPLOMATE REPORT FOR RWQCB and DHS		25,000					25,000
	COUNTY HEALTH DEPT. FEES						1,500	1,500
	SCAQMD, RWQCB AND CITY PERMIT FEES (RWQCB INCREASING FEES)		15,000				8,000	23,000
	STATE HEALTH DEPT FEES (DHS)						2,000	2,000
	UNITED PARCEL SERVICE (EQUIP)	2,800						2,800
	ORANGE COUNTY PUBLIC FACILITIES PERMIT			350				350
	SPECIAL DEPT. EXPENSE TOTAL	2,800	115,000	350	0	0	11,500	129,650
1050.51206	LICENSE EASEMENT							0
	LADPW BARRIER TOTAL	0	0	0	0	0	0	0
1050.56026	LADPW CURRENT EXPENSE							
	LADPW BARRIER				600,000			600,000
	LADPW BARRIER TOTAL	0	0	0	600,000	0	0	600,000
	WATER PRODUCTION GRAND TOTAL	384,207	16,222,465	1,148,923	600,500	885,851	1,746,984	20,988,931

GENERAL FUND BUDGET FY 07-08
RECHARGE OPERATION (1060)

JDE ACCOUNT NUMBER	DESCRIPTION	General	Recharge O/M	BCV O/M	Prado O&M	Recharge Total
	ACTIVITY CODE	9900	9920	9942	9924	TOTAL
	SALARIES AND BENEFITS					
1060.50104	REGULAR SALARIES	209,328	1,034,122	230,947	32,320	1,506,717
1060.50202	RETIREMENT	3,035	14,995	3,349	469	21,848
1060.50204	HEALTH INSURANCE	34,853	172,181	38,453	5,381	250,868
1060.50206	WORKERS' COMPENSATION	26,441	130,087	37,232	5,612	199,372
1060.50210	PAYROLL TAXES	6,993	35,391	8,519	1,089	51,992
	SALARIES AND BENEFITS TOTAL	280,650	1,386,776	318,500	44,871	2,030,797
1060.51301	TRAVEL/CONFERENCES					
	INT'L SYMPOSIUM ON MANAGED AQUIFER RECHARGE (PHOENIX)	2,000				2,000
	TRAVEL/CONFERENCES TOTAL	2,000		0		2,000
1060.53001	PROFESSIONAL SERVICES					
	GIS FACILITIES ATLAS PHASE 2		75,000			75,000
	RECHARGE ENHANCEMENT		30,000			30,000
	SOIL INVESTIGATIONS		10,000			10,000
	SCADA IMPROVEMENTS		70,000			70,000
	PROFESSIONAL SERVICES TOTAL	0	185,000	0		185,000
1060.53025	FEASIBILITY STUDY					
						-
	FEASIBILITY STUDY TOTAL	0	0	0		-
1060.51501	OFFICE EXPENSE - GENERAL					
	FEDERAL EXPRESS, SHIPPING	300		1,000		1,300
	MISCELLANEOUS OFFICE SUPPLIES	7,500				7,500
	OFFICE FURNITURE	4,000				4,000
	ANNUAL RECHARGE REPORT	7,000				7,000
	OFFICE EXPENSE - GENERAL TOTAL	18,800	0	1,000		19,800

GENERAL FUND BUDGET FY 07-08
RECHARGE OPERATION (1060)

JDE ACCOUNT NUMBER	DESCRIPTION	General	Recharge O/M	BCV O/M	Prado O&M	Recharge Total
	ACTIVITY CODE	9900	9920	9942	9924	TOTAL
1060.51510	HARDWARE/SOFTWARE					
	DELTA V BCV SOFTWARE MAINTENANCE			7,000		7,000
	HYDROLOGIC SOFTWARE MAINT AGREEMENT		800			800
	UPGRADE HYDROGRAPHER COMPUTERS		3,000			3,000
	HARDWARE/SOFTWARE TOTAL	0	3,800	7,000		10,800
1060.51520	GAS & DIESEL FUEL					
	BCV HYDRAULIC OIL -- 1 CHANGE EACH BCV			12,000		12,000
	GAS, DIESEL FUEL		130,000	3,125		133,125
	GAS & DIESEL FUEL TOTAL	0	130,000	15,125		145,125
1060.51530	UNIFORMS & SAFETY					
	POLO SHIRTS/JACKETS		1,800			1,800
	UNIFORMS		14,500			14,500
	UNIFORMS & SAFETY TOTAL	0	16,300	0		16,300
1060.57004	MAINT EQUIP - GENERAL					
	BOATS			5,000		5,000
	GENERAL MAINT OF SMALLER EQUIP, SUCH AS SMALL GAS AND DIESEL ENGINES, CRANES, AIR COMPRESSORS		10,000			10,000
	MAINT EQUIP - GENERAL TOTAL	0	10,000	5,000		15,000
1060.57006	MAINT EQUIP COMMUNICATION					
	CAMERA/RADIO MAINTENANCE		3,000	3,000		6,000
	SCADA MAINTENANCE		8,000			8,000
	SCADA FIBER OPTIC UPGRADE		15,000			15,000
	MAINT EQUIP COMMUNICATION	0	26,000	3,000		29,000
1060.57010	MAINT EQUIP VEHICLES					
	ETC.		30,000	3,000		33,000
	MAINT EQUIP VEHICLES TOTAL	0	30,000	3,000		33,000

GENERAL FUND BUDGET FY 07-08
RECHARGE OPERATION (1060)

JDE ACCOUNT NUMBER	DESCRIPTION	General	Recharge O/M	BCV O/M	Prado O&M	Recharge Total
	ACTIVITY CODE	9900	9920	9942	9924	TOTAL
1060.57012	MAINT EQUIP - HEAVY EQUIP					
	GENERAL HEAVY EQUIPMENT PARTS (OLDER H.E. WILL REQUIRE MORE FREQUENT MAINTENANCE)		180,000			180,000
	MAINT EQUIP - HEAVY EQUIP TOTAL	0	180,000	0		180,000
1060.57011	BASIN CLEANING VEHICLES					
	BCV MAINTENANCE			90,000		90,000
	BASIN CLEANING VEHICLES TOTAL	0	0	90,000		90,000
1060.57016	MAINT STRUCTURE AND IMPROVEMENTS - GENERAL					
	BCV SILT REMOVAL			75,000		75,000
	BI-ANNUAL HIGH VOLTAGE ELECTRICAL SYSTEM		13,000			13,000
	CARPET CLEANING					-
	CORROSION PROTECTION SERVICE		10,000			10,000
	FENCE REPAIRS		25,000			25,000
	FIBER OPTIC CABLE MAINTENANCE		10,000			10,000
	FISH DISPOSAL (2 CLEANINGS)		35,000			35,000
	FLOWMETER AND INSTRUMENTATION MAINTENANCE		13,000			13,000
	GENERAL MAINT (IRRIGATION SYSTEMS, BLDG, ETC)		8,000	1,000		9,000
	JANITORIAL		50,000			50,000
	LANDSCAPE MAINT./TREE TRIMMING/WEED ABATEMENT		44,000			44,000
	MAINTENANCE OPERATIONS		60,000			60,000
	MOTOR ACTUATOR MAINTENANCE		10,500			10,500
	OXYGEN SERVICE (ALL GASES)		2,500			2,500
	PAINTING STRUCTURES		40,000			40,000
	PLANT SERVICE	1,500				1,500
	RODENT CONTROL		8,000			8,000
	TRASH RACK REPAIR		24,250			24,250
	UGST SERVICE		1,200			1,200
	MAINT STRUCTURE AND IMPROVEMENTS GENERAL - TOTAL	1,500	354,450	76,000		431,950

GENERAL FUND BUDGET FY 07-08
RECHARGE OPERATION (1060)

JDE ACCOUNT NUMBER	DESCRIPTION	General	Recharge O/M	BCV O/M	Prado O&M	Recharge Total
	ACTIVITY CODE	9900	9920	9942	9924	TOTAL
1060.51545	SMALL TOOLS					
	AIR WRENCHES, SMALL POWER TOOLS, BITS, BLADES, JACKS		2,500			2,500
	DIAGNOSTIC EQUIPMENT		7,500			7,500
	HAND TOOLS FOR GENERAL POPULATION USE		500			500
	MAINTENANCE AND HYDROGRAPHY OPERATIONS		2,000			2,000
	MAINTENANCE OPERATIONS		10,000			10,000
	SMALL TOOLS FOR H.E. MECHANIC & MAINTENANCE		5,000	2,500		7,500
	SMALL TOOLS FOR NEW HYDROGRAPHER		7,000			7,000
	SMALL TOOLS TOTAL	0	34,500	2,500		37,000
1060.51550	SAFETY SUPPLIES					
	SAFETY EQUIPMENT, I.E., SAFETY GOGGLES; GLOVES; RESPIRATORS; EAR PROTECTORS; AIR MONITORING, TRAFFIC, AND CONFINED SPACE EQUIPMENT		5,000	1,000		6,000
	SAFETY SUPPLIES TOTAL	0	5,000	1,000		6,000
1060.54010	PESTICIDES	0				
	MIDGE CONTROL (TWO SEPARATE TYPES OF PESTICIDE ARE USED)		12,000			12,000
	PESTICIDES	0	12,000	0		12,000
1060.54035	CHEMICALS					
	HERBICIDE		2,500			2,500
	CHEMICALS FLOCCULENT TOTAL	0	2,500	0		2,500
1060.51565	RENT EQUIP - GENERAL					
	TRENCHERS, TAMPERS ETC.		2,000			2,000
	RENT EQUIP - GENERAL TOTAL	0	2,000	0		2,000

GENERAL FUND BUDGET FY 07-08
RECHARGE OPERATION (1060)

JDE ACCOUNT NUMBER	DESCRIPTION	General	Recharge O/M	BCV O/M	Prado O&M	Recharge Total
	ACTIVITY CODE	9900	9920	9942	9924	TOTAL
1060.51570	RENT EQUIP - HEAVY EQUIP					
	CRANE, MAN LIFT, SCRAPERS, ETC		45,000	2,000		47,000
	RENT EQUIP- HEAVY EQUIP TOTAL	0	45,000	2,000		47,000
1060.54501	UTILITIES - ELECTRICITY					
	ANAHEIM LAKE DEWATER 4600 AF @ \$7.25/AF (TWICE)		33,350			33,350
	ANAHEIM LAKE STANDBY CHARGE \$1,800/MO FOR 12 MO		21,600			21,600
	ALL OTHER (IRRIGATION PUMPS, BUILD, RUBBER DAM		30,000			30,000
	BCV OPERATIONS			40,000		40,000
	BURRIS PIT PUMP STATION 40,000 AF @ \$16.9/AF		676,000			676,000
	BURRIS PIT PUMP STATION STANDBY CHARGE \$6,500/MO.		78,000			78,000
	KRAEMER/MILLER DEWATER 2000 AF @ \$7.25/AF (2 TIMES @ 1000 AF)		14,500			14,500
	KRAEMER/MILLER STANDBY CHARGE \$1,800/MO FOR 12 MO		21,600			21,600
	SANTIAGO PIT DEWATER		50,000			50,000
	WARNER PARTIAL DEWATER 500 AF @ \$7.25 AF (ONCE)		3,625			3,625
	WARNER STAND. BY CHARGE \$1,800/MO FOR 12 MO		21,600			21,600
	UTILITIES - ELECTRICITY TOTAL	0	950,275	40,000		990,275
1060.54510	UTILITIES - GAS					
	ANAHEIM HOUSE, ETC		150			150
	UTILITIES - GAS TOTAL	0	150	0		150
1060.54515	UTILITIES - WATER					
	GENERAL, IRRIGATION		35,000			35,000
	KRAEMER BASIN, SANTIAGO BASIN, BURRIS PIT, FHQ		25,000			25,000
	UTILITIES - WATER TOTAL	0	60,000	0		60,000
1060.51102	MEMBERSHIPS					
	STATE OF CALIF. PESTICIDE LICENSE (RUBEN, NATE, JULIO)	300				300
	MEMBERSHIPS TOTAL	300	0	0		300

GENERAL FUND BUDGET FY 07-08
RECHARGE OPERATION (1060)

JDE ACCOUNT NUMBER	DESCRIPTION	General	Recharge O/M	BCV O/M	Prado O&M	Recharge Total
	ACTIVITY CODE	9900	9920	9942	9924	TOTAL
1060.51192	EDUCATIONAL TRAINING					
	HEAVY EQUIPMENT MECHANIC INSTRUCTION		4,000			4,000
	MAINTENANCE DEPT. TRAINING		1,500			1,500
	PESTICIDE APPLICATORS PROFESSIONAL ASSOCIATION WORKSHOPS		600			600
	TRAINING/CROSS TRAINING FOR FACILITY AND EQUIP	500	1,000			1,500
	EDUCATIONAL TRAINING TOTAL	500	7,100	0		7,600
1060.51112	SPECIAL DEPT EXPENSE					
	FIRE DEPARTMENT FEES, CITY TRANSPORTATION FEES	2,000	6,500			8,500
	FEES FOR: SO. COAST AQMD, COUNTY, STORMWATER PERMIT, AND CITY OF ANAHEIM	1,200				1,200
	SPECIAL DEPT EXPENSE TOTAL	3,200	6,500	0		9,700
	RECHARGE OPERATIONS TOTAL	306,950	3,447,351	564,125	44,871	4,363,297

GENERAL FUND BUDGET FY 07-08
WETLAND OPERATIONS (1062)

JDE Account Number	Description	General	Prado O&M	Prado Wetlands	Habitat Restoration	Wildlife Management	Total
	ACTIVITY CODE	9900	9924	9925	8008	8010	
	SALARIES & BENEFITS						
1062.50104	REGULAR SALARIES	49,045	154,676	44,293	182,348		430,362
1062.50202	RETIREMENT	711	2,243	642	2,644		6,240
1062.50204	HEALTH INSURANCE	8,166	25,754	7,375	30,361		71,656
1062.50206	WORKERS' COMPENSATION	2,541	20,932	5,792	22,189		51,454
1062.50210	PAYROLL TAXES	1,536	5,786	1,657	6,821		15,800
	SALARIES & BENEFITS TOTAL	61,999	209,391	59,759	244,363	0	575,512
1062.51301	TRAVEL/CONFERENCES						
	AWWA OR ASCE CONFERENCE (WETLANDS RELATED TOPICS)	1,500					1,500
	HABITAT RESTORATION/GIS CONFERENCE/TRAINING				1,500		1,500
	SITE VISIT FOR ASSESSMENT OF PURCHASING OR RENTING CATTAIL REMOVAL EQUIP	2,000			1,000		3,000
	WETLAND OPERATIONS CONFERENCE/TRAINING	1,000			2,000		3,000
	TRAVEL/CONFERENCES TOTAL	4,500	0	0	4,500	0	9,000
	ASSOCIATION OF GW AGENCIES (AGWA)						
1062.53001	PROFESSIONAL SERVICES - GENERAL						
	FEASIBILITY STUDY		20,000				20,000
	REVEGETATION CONTRACTS FOR PERMIT COMPLIANCE		20,000				20,000
	PROFESSIONAL SERVICES - GENERAL TOTAL	0	40,000	0	0	0	40,000
1062.53020	SECURITY						
	ANNUAL CONTRACT FOR SECURITY SERVICES		50,000				50,000
	SECURITY TOTAL	0	50,000	0	0	0	50,000
1062.51501	OFFICE EXPENSE - GENERAL						
	COURIER SERVICES		500				500
	OFFICE SUPPLIES	500			300		800
	PRINTER CARTRIDGES AND COMPUTER EQUIPMENT USAGE	500			500		1,000
	OFFICE EXPENSE - GENERAL TOTAL	1,000	500	0	800	0	2,300

GENERAL FUND BUDGET FY 07-08
WETLAND OPERATIONS (1062)

JDE Account Number	Description	General	Prado O&M	Prado Wetlands	Habitat Restoration	Wildlife Management	Total
		9900	9924	9925	8008	8010	
1062.51520	GAS & DIESEL FUEL						
	GASOLINE AND DIESEL FUEL AND VARIOUS TYPES OF VEHICLES (AVERAGE 5 GAS, 3 DIESEL)	2,500	20,000		8,000	2,000	32,500
	GAS & DIESEL FUEL TOTAL	2,500	20,000	0	8,000	2,000	32,500
1062.51530	UNIFORMS & SAFETY						
	UNIFORMS AND BOTTLED WATER FOR FIELD WORKERS (CLEANING SERVICE FOR SHIRTS, PANTS, OVERALLS AND SHOP TOWELS)		5,000				5,000
	UNIFORMS & SAFETY TOTAL	0	5,000	0	0	0	5,000
1062.57004	MAINT EQUIP - GENERAL						
	REPAIR OF SMALL TOOLS, WATER QUALITY EQUIPMENT, FLOW METERS, SENSORS, ETC./ CHAIN SAWS, WATER PUMPS, LANDSCAPE TOOLS		15,000				15,000
	MAINT EQUIP - GENERAL TOTAL	0	15,000	0	0	0	15,000
1062.57010	MAINT EQUIP - VEHICLES						
	TRUCK MAINTENANCE AND ROUTINE REPAIRS (OIL CHANGES, TUNE-UPS, A/C REPAIRS, BATTERIES)	1,000	16,000		3,000	1,000	21,000
	MAINT EQUIP - VEHICLES TOTAL	1,000	16,000	0	3,000	1,000	21,000
1062.57012	MAINT EQUIP - HEAVY EQUIP						
	MOWER, TRACTOR, AND OTHER HEAVY EQUIPMENT MAINTENANCE AND ROUTINE REPAIRS (GREASE , OIL, AIR FILTERS, HYDRAULICS, BELT)		70,000				70,000
	MAIN EQUIP - HEAVY EQUIP TOTAL	0	70,000	0	0	0	70,000

**GENERAL FUND BUDGET FY 07-08
WETLAND OPERATIONS (1062)**

JDE Account Number	Description	General	Prado O&M	Prado Wetlands	Habitat Restoration	Wildlife Management	Total
	ACTIVITY CODE	9900	9924	9925	8008	8010	
1062.57016	MAINT STRUCTURE & IMPROVEMENT - GENERAL						
	A/C MAINT. , MAINTENANCE, SUPPLIES & REPAIRS		5,000				5,000
	CRUSHED ROCK FOR MUD AND DUST CONTROL		5,000				5,000
	ELECTRICAL REPAIRS		10,000				10,000
	MISCELLANEOUS AND EMERGENCY REPAIRS		10,000				10,000
	MOSQUITO AND VECTOR CONTROL		14,000				14,000
	SECURITY MAINT., FENCES, GATES, CAMERAS, REMOTE SENSING AND REPAIRS		45,000				45,000
	TRAILER MAINT. & REPAIRS		10,000				10,000
	YARD FENCING MODIFICATIONS FOR ADDITIONAL TRUCK SECURITY		5,000				5,000
	JANITORIAL SERVICE		3,500				3,500
	MAINT STRUCTURE & IMPROVEMENT - GENERAL TOTAL	0	107,500	0	0	0	107,500
1062.51545	SMALL TOOLS						
	MISCELLANEOUS HAND TOOLS (DRILLS, HAMMERS, WRENCHES, SOCKETS AND SAWS)		1,500				1,500
	SMALL POWER EQUIPMENT AND PARTS		1,500				1,500
	SUPPLIES		4,500				4,500
	SMALL TOOLS TOTAL	0	7,500	0	0	0	7,500
1062.51550	SAFETY SUPPLIES						
	WORK SAFETY RELATED SUPPLIES . FIRST AID KITS, GOGGLES, SPRAY SUITS, AND GLOVES, FIRE EXTINGUISHERS		1,000		500		1,500
	SAFETY SUPPLIES TOTAL	0	1,000	0	500	0	1,500
1062.54035	CHEMICALS FLOCCULANTS						
	HERBICIDES FOR ARUNDO CONTROL, FISH POND ALGAECIDE		10,000		15,000		25,000
	CHEMICALS FLOCCULANTS TOTAL	0	10,000	0	15,000	0	25,000
1062.51565	RENT EQUIP - GENERAL						
	(PUMPS, GENERATORS, TAMPER AND CEMENT MIXERS		5,000		2,500	2,500	10,000
	RENT EQUIP - GENERAL TOTAL	0	5,000	0	2,500	2,500	10,000

GENERAL FUND BUDGET FY 07-08
WETLAND OPERATIONS (1062)

JDE Account Number	Description	General	Prado O&M	Prado Wetlands	Habitat Restoration	Wildlife Management	Total
	ACTIVITY CODE	9900	9924	9925	8008	8010	
1062.51570	RENT EQUIP - HEAVY EQUIP						
	RENT EXCAVATOR, AND OTHER EQUIPMENTS (DOZERS, WATER TRUCKS AND MOWERS)		30,000				30,000
	RENT EQUIP - HEAVY EQUIP TOTAL	0	30,000	0	0	0	30,000
1062.54501	UTILITIES - ELECTRICITY						
	ELECTRICAL USAGE FOR THE PRADO YARD		6,000				6,000
	UTILITIES - ELECTRICITY TOTAL		6,000	0	0	0	6,000
1062.51192	TECHNICAL TRAINING						
	RENEWAL HABITAT RESTORATION/WILDLIFE MANAGEMENT SEMINAR REGISTRATION		1,000		1,000		2,000
	OPERATOR SKILLS TRAINING (1 PERSON, INCLUDES TRAVEL AND REGISTRATION)		500		500	1,500	2,000
	REFERENCE BOOKS		300		250		550
	REGISTRATION	1,000					1,000
	TECHNICAL TRAINING TOTAL	1,000	1,800	0	1,750	1,500	6,050
1062.51204	MISC EXP						
	MISCELLANEOUS EXP		2,500		500	500	3,500
	MISC EXP - TOTAL		2,500	0	500	500	3,500
	WETLAND OPERATIONS GRAND TOTAL	71,999	597,191	59,759	280,913	7,500	1,017,362

GENERAL FUND BUDGET FY 07-08
PROPERTY MANAGEMENT (1069)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
	SALARIES & BENEFITS		
1069.50104	REGULAR SALARIES	74,020	74,020
1069.50202	RETIREMENT	1,073	1,073
1069.50204	HEALTH INSURANCE	12,324	12,324
1069.50206	WORKERS' COMPENSATION	13,025	13,025
1069.50210	PAYROLL TAXES	548	548
	SALARIES & BENEFITS TOTAL	100,990	100,990
1069.51301	TRAVEL/CONFERENCES		
	TECHNICAL CONFERENCE ATTENDANCE (IRWA CLASSES)	400	400
	TRAVEL/CONFERENCES TOTAL	400	400
1069.53001	PROFESSIONAL SERVICES		
	SURVEY AND APPRAISAL SERVICES	14,000	14,000
	TITLE POLICIES	2,500	2,500
	PROFESSIONAL SERVICES TOTAL	16,500	16,500
1069.51501	OFFICE EXPENSE - GENERAL		
	OFFICE SUPPLIES INCL. SMALL DESK SUPPLIES, REPROGRAPHICS	2,600	2,600
	OFFICES EXPENSES - GENERAL TOTAL	2,600	2,600
1069.51510	HARDWARE/SOFTWARE		
	SOFTWARE	250	250
	HARDWARE/SOFTWARE TOTAL	250	250

GENERAL FUND BUDGET FY 07-08
PROPERTY MANAGEMENT (1069)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1069.51104	SUBSCRIPTIONS		
	NEWSLETTER, JOURNAL SUBSCRIPTIONS	200	200
	SUBSCRIPTIONS TOTAL	200	200
1069.51520	GAS & DIESEL FUEL		
	FUEL FOR DISTRICT VEHICLES	1,000	1,000
	GAS & DIESEL FUEL TOTAL	1,000	1,000
1069.56022	TAXES & ASSESSMENTS		
	ORANGE COUNTY PROPERTY TAX	12,000	12,000
	RIVERSIDE PROPERTY TAX	16,500	16,500
	SAN BERNARDINO PROPERTY TAX	500	500
	TAXES & ASSESSMENTS TOTAL	29,000	29,000
1069.57016	MAINT STRUCTURE AND IMPROVEMENTS - GENERAL		
	PROPERTY FENCES, GATES, LOCKS, MISC REPAIRS, DISPOSAL SVC.	15,000	15,000
	MAINT STRUCTURE AND IMPROVEMENTS - GENERAL TOTAL	15,000	15,000
1069.51102	MEMBERSHIP		
	MEMBERSHIPS FOR IRWA	220	220
	MEMBERSHIP TOTAL	220	220
1069.51112	SPECIAL DEPT EXPENSE		
	PERMIT AND LICENSE FEES, UNITED PARCEL SVC, , DATA QUICK SVC.	5,200	5,200
	SPECIAL DEPT EXPENSE TOTAL	5,200	5,200

GENERAL FUND BUDGET FY 07-08
PROPERTY MANAGEMENT (1069)

JDE Account Number	Description	General	Total
	ACTIVITY CODE	9900	
1069.51206	LICENSE EASEMENT		
	EDISON PIPELINE LICENSE ACC. 2097 OLD SEAWATER LINE	1,165	1,165
	GAP EDISON PIPELINE LICENSE ACC. 2110 (ADAMS, SAR, GARFIELD, HB)	14,752	14,752
	GAP EDISON PIPELINE LICENSE ACC. 3272 (GARFIELD, WARD)	8,637	8,637
	GAP EDISON PIPELINE LICENSE ACC. 3085 (GARFIELD/ELLIS)	10,365	10,365
	EDISON LICENSE ACC. 2210		
	EDISON MCAS-10 WELL SITE LICENSE ACC. 2209 (IRVINE)	2,200	2,200
	EDISON LICENSE WELLS I-27 & I-28 ACC.		
		37,119	37,119
	PROPERTY MANAGEMENT GRAND TOTAL	208,479	208,479

GENERAL FUND BUDGET FY 07-08
ENGINEERING (1070)

JDE Account Number	Description	General	Talbert Barrier Engineering Support	GAP Engineering Support	Forebay Recharge Engineering Support	BCV Operations	Prado Operations	Total
	ACTIVITY CODE	9900	9908	9911	9920	9942	9924	
	SALARIES & BENEFITS							
1070.50104	REGULAR SALARIES	260,555	23,306	44,919	54,697	15,540	19,047	418,064
1070.50202	RETIREMENT	43,382	3,880	7,479	9,107	2,587	3,171	69,606
1070.50204	HEALTH INSURANCE	24,607	2,328	4,911	6,499	1,729	1,735	41,809
1070.50206	WORKERS' COMPENSATION	3,516	172	809	405	115	141	5,158
1070.50210	PAYROLL TAXES	3,778	338	651	793	225	276	6,061
	SALARIES & BENEFITS TOTAL	335,838	30,024	58,769	71,501	20,196	24,370	540,698
1070.51301	TRAVEL/CONFERENCE							
	AWWA ANNUAL CONFERENCE	2,000						2,000
	CONSTRUCTION MANAGEMENT TRAINING		2,000					2,000
	TRAVEL AND CONFERENCES	4,000			2,000		2,000	8,000
	TRAVEL/CONFERENCE TOTAL	6,000	2,000	0	2,000	0	2,000	12,000
1070.53010	PROFESSIONAL SERVICES - ENG							
	CONSULTING SERVICES	50,000						50,000
	DRAFTING SERVICES	1,000	1,000		1,000		1,000	4,000
	SURVEYING SERVICES	10,000	5,000		10,000		10,000	35,000
	PROFESSIONAL SERVICES - ENG TOTAL	61,000	6,000	0	11,000	0	11,000	89,000
1070.53025	FEASIBILITY STUDY							
	PROF SERVICES ENGINEERING FEASIBILITY	30,000						30,000
	FEASIBILITY STUDY TOTAL	30,000	0	0	0	0	0	30,000
1070.51501	OFFICE EXPENSE GENERAL							
	ANNUAL ENGINEER'S REPORT PREPARATION	11,000						11,000
	BLUEPRINTING SERVICES	1,000						1,000
	COMPUTER CARTRIDGES	1,000						1,000
	CONSTRUCTION MANUALS	250						250
	COURIER SERVICES	200						200
	DESIGN BOOKS	300						300
	FEDERAL EXPRESS	500						500

GENERAL FUND BUDGET FY 07-08
ENGINEERING (1070)

JDE Account Number	Description	General	Talbert Barrier Engineering Support	GAP Engineering Support	Forebay Recharge Engineering Support	BCV Operations	Prado Operations	Total
	ACTIVITY CODE	9900	9908	9911	9920	9942	9924	
1070.51501	OFFICE EXPENSE GENERAL (CONTINUED)							
	MISC. OFFICE SUPPLIES	500						500
	MISC. SUPPLEMENTS TO VARIOUS MANUALS AND BOOKS	200						200
	ORGANIZATIONAL MEMBERSHIPS	1,000						1,000
	OUTSIDE COPYING SERVICES	400						400
	OUTSIDE SERVICES	400						400
	PHOTO DEVELOPMENT AND SUPPLIES	500						500
	PUBLIC WORKS INSPECTION MANUALS	2,000						2,000
	OFFICE EXPENSE GENERAL TOTAL	19,250	0	0	0	0	0	19,250
1070.51510	HARDWARE/SOFTWARE							
	HARDWARE/SOFTWARE	1,000	500	500	500			2,500
	HARDWARE/SOFTWARE TOTAL	1,000	500	500	500	0	0	2,500
1070.51104	SUBSCRIPTIONS							
	AWWA STANDARDS	500						500
	ENR MAGAZINE	100						100
	SUBSCRIPTIONS TOTAL	600	0	0	0	0	0	600
1070.51520	GAS & DIESEL							
	FUEL FOR VEHICLE A56	550	500		1,000	500	1,000	3,550
	FUEL FOR VEHICLE A62	550	500		1,000	500	1,000	3,550
	GAS & DIESEL TOTAL	1,100	1,000	0	2,000	1,000	2,000	7,100
1070.57004	MAINT EQUIP - GENERAL							
	ANNUAL MAINTENANCE AGREEMENT ON	750						750
	MAINT EQUIP - GENERAL TOTAL	750	0	0	0	0	0	750
	ENGINEERING GRAND TOTAL	455,538	39,524	59,269	87,001	21,196	39,370	701,898

GENERAL FUND BUDGET FY 07-08
HYDROGEOLOGY (1075)

JDE Account Number	Description	General	So. Basin Groundwater Protection Project	Talbert Barrier O/M	Alamitos Barrier O/M	MTBE Litigation	Forebay VOC Litigation	Total
		9900	9941	9908	9932	MTBE	9936	
	SALARIES & BENEFITS							
1075.50104	REGULAR SALARIES	620,689	48,099	71,703	38,268	59,742	25,396	863,897
1075.50202	RETIREMENT	99,755	8,009	11,939	6,372	9,947	4,228	140,250
1075.50204	HEALTH INSURANCE	71,017	2,847	5,636	4,733	4,230	2,759	91,222
1075.50206	WORKERS' COMPENSATION	10,058	1,583	1,329	283	1,669	188	15,110
1075.50210	PAYROLL TAXES	10,337	697	1,040	555	866	368	13,863
	SALARIES & BENEFITS TOTAL	811,856	61,235	91,647	50,211	76,454	32,939	1,124,342
1075.51301	TRAVEL/CONFERENCES							
	MILEAGE REIMBURSEMENT FOR LOCAL MEETINGS; AND							0
	REGULATORY & LEGAL MEETINGS FOR WQ PROJECTS, BARRIERS; AND							0
	TECHNICAL CONFERENCE ATTENDANCE (MODELING, DATA/GIS).	2,000			500	1,000	500	4,000
	TRAVEL/CONFERENCES TOTAL	2,000	0	0	500	1,000	500	4,000
1075.53010	PROFESSIONAL SERVICES ENGINEER							
	GEOPHYSICAL STUDY TO ESTIMATE AQUIFER STORAGE COEFFICIENT	50,000						50,000
	HYDROGEOLOGIC SERVICES TO SUPPORT LITIGATION (FUNDED THROUGH TOXIC RESERVE FUND)					1,000,000		1,000,000
	WRMS MODERNIZATION DESIGN & PROGRAMMING SERVICES	180,000						180,000
	ENVIRONMENTAL CONSULTING SERVICES		30,000					30,000
	PROFESSIONAL SERVICES ENGINEER TOTAL	230,000	30,000	0	0	1,000,000	0	1,260,000
1075.51501	OFFICE EXPENSE - GENERAL							
	FEDEX/COURIER	400				200	200	800
	OFFICE SUPPLIES INCL. SMALL DESK SUPPLIES, REPROGRAPHICS	6,000						6,000
	PLOTTER PAPER & INK	3,000						3,000
	SUPPLIES FROM WAREHOUSE, PETTY CASH	1,000						1,000
	OFFICE EXPENSE - GENERAL TOTAL	10,400	0	0	0	200	200	10,800

GENERAL FUND BUDGET FY 07-08
HYDROGEOLOGY (1075)

JDE Account Number	Description	General	So. Basin Groundwater Protection Project	Talbert Barrier O/M	Alamitos Barrier O/M	MTBE Litigation	Forebay VOC Litigation	Total
	ACTIVITY CODE	9900	9941	9908	9932	MTBE	9936	
1075.51510	HARDWARE/SOFTWARE							
	LICENSES FOR MODELING, AQUIFER TEST ANALYSIS, UTILITY SOFTWARE	10,000						10,000
								0
	HARDWARE/SOFTWARE TOTAL	10,000	0	0	0	0	0	10,000
1075.51104	SUBSCRIPTIONS							
	NEWSLETTER, JOURNAL SUBSCRIPTIONS	500						500
	SUBSCRIPTIONS TOTAL	500	0	0	0	0	0	500
1075.51520	GAS & DIESEL FUEL							
	FUEL FOR DISTRICT FIELD VEHICLES (WELL MONITORING & MAINTENANCE)	3,200						3,200
	GAS & DIESEL FUEL TOTAL	3,200	0	0	0	0	0	3,200
1075.51530	UNIFORMS & SAFETY							
	BOOTS, RAINGEAR, UNIFORMS FOR FIELD PERSONNEL	1,000						1,000
	UNIFORMS & SAFETY TOTAL	1,000	0	0	0	0	0	1,000
1075.57004	MAINT EQUIP - GENERAL							
	FIELD EQUIP (GENERATORS, PUMPS, WELDER)	5,000						5,000
	WATER LEVEL PROBES & DATALOGGER CALIBRATION, GPS UNIT	6,000			3,000			9,000
	SHELVING FOR ANAHEIM STORAGE SHED	4,000						4,000
	WESTBAY EQUIP. (REELS, SAMPLER, PROBES) SERVICE AGREEMENT	20,000						20,000
	MAINT EQUIP - GENERAL TOTAL	35,000	0	0	3,000	0	0	38,000

GENERAL FUND BUDGET FY 07-08
HYDROGEOLOGY (1075)

JDE Account Number	Description	General	So. Basin Groundwater Protection Project	Talbert Barrier O/M	Alamitos Barrier O/M	MTBE Litigation	Forebay VOC Litigation	Total
		9900	9941	9908	9932	MTBE	9936	
1075.57016	MAINT STRUCTURES AND IMPROVEMENTS							
	REPLACE OR REPAIR SEAWATER MONITORING WELL VAULTS			10,000				10,000
	WELL SITE PERMITS & REPAIR BASIN MONITORING WELL VAULTS	15,000						15,000
	MAINT STRUCTURES AND IMPROVEMENTS TOTAL	15,000	0	10,000	0	0	0	25,000
1075.51545	SMALL TOOLS							
	TOOLS FOR WELL MAINTENANCE	1,000						1,000
	SMALL TOOLS TOTAL	1,000	0	0	0	0	0	1,000
1075.51555	LAB SUPPLIES							
	CALIBRATION STANDARDS FOR FIELD WQ MONITOR. EQUIP	300						300
	LAB SUPPLIES TOTAL	300	0	0	0	0	0	300
1075.51102	MEMBERSHIP							
	DISTRICT MEMBERSHIPS FOR GRA, NGWA, & PROF. CERTIFICATIONS	1,200						1,200
	MEMBERSHIP TOTAL	1,200	0	0	0	0	0	1,200
1075.51192	EDUCATIONAL TRAINING							
	GIS/WRMS PROGRAMMING TRAINING (ARC/IMS, ORACLE, .NET)	2,500						2,500
	GROUNDWATER SHORT COURSES (REMEDIAL TECHNOLOGY, MODELING)	2,500						2,500
	EDUCATIONAL TRAINING TOTAL	5,000	0	0	0	0	0	5,000
1075.51112	SPECIAL DEPT EXPENSE							
	US GEOLOGICAL SURVEY: SAR STREAMGAGING (WATERMASTER)	40,000						40,000
	SPECIAL DEPT EXPENSE TOTAL	40,000	0	0	0	0	0	40,000
	HYDROGEOLOGY GRAND TOTAL	1,166,456	91,235	101,647	53,711	1,077,654	33,639	2,524,342

GENERAL FUND BUDGET FY 07-08
NATURAL RESOURCES (1080)

JDE Account Number	Description	Wildlife Management	Habitat Restoration	General	Prado Wetlands	Total
	ACTIVITY CODE	8010	8008	9900	9925	
	SALARIES AND BENEFITS					
1080.50104	REGULAR SALARIES	75,973	72,124	25,324		173,421
1080.50202	RETIREMENT	12,649	4,216	4,216		21,081
1080.50204	HEALTH INSURANCE	8,571	2,857	2,857		14,285
1080.50206	WORKERS' COMPENSATION	1,035	983	345		2,363
1080.50210	PAYROLL TAXES	1,102	3,947	367		5,416
	SALARIES AND BENEFITS TOTAL	99,330	84,127	33,109	0	216,566
1080.51301	TRAVEL/CONFERENCES					
	TRAVEL FOR TRAINING/CROSS TRAINING HEAVY EQUIPMENT MECHANIC INSTRUCTION			2,000		2,000
	TRAVEL/CONFERENCES TOTAL	0	0	2,000		2,000
1080.53001	PROFESSIONAL SERVICES - GENERAL					
	WILDLIFE CONTRACTS	10,000				10,000
	PROFESSIONAL SERVICES - GENERAL TOTAL	10,000	0	0		10,000
1080.51104	SUBSCRIPTIONS					
	AUDUBON SOCIETY	48				48
	CA EXOTIC PEST PLANT COUNCIL	100				100
	CA NATIVE PLANT SOCIETY	100				100
	CALFLORA	50				50
	OSNA	140				140
	WESTERN BIRD BANDING ASSOCIATION	50				50
	WILDLIFE SOCIETY	120				120
	SUBSCRIPTIONS TOTAL	608	0	0		608
1080.51501	OFFICE EXPENSE - GENERAL					
	MISCELLANEOUS OFFICE SUPPLIES			4,500		4,500
	OFFICE EXPENSE - GENERAL TOTAL	0	0	4,500		4,500

GENERAL FUND BUDGET FY 07-08
NATURAL RESOURCES (1080)

JDE Account Number	Description	Wildlife Management	Habitat Restoration	General	Prado Wetlands	Total
	ACTIVITY CODE	8010	8008	9900	9925	
1080.51520	GAS & DIESEL FUEL					
	GAS, DIESEL FUEL			5,000		5,000
	GAS & DIESEL FUEL TOTAL	0	0	5,000		5,000
1080.51530	UNIFORMS & SAFETY					
	CLOTHING, UNIFORMS			400		400
	UNIFORMS & SAFETY TOTAL	0	0	400		400
1080.57004	MAINT EQUIP - GENERAL					
	FIELD EQUIPMENT (GPS, TRAPS, NETS, BINOCULARS, WADERS, BIRD BOXES, ETC.)			5,000		5,000
	MAINT EQUIP - GENERAL TOTAL	0	0	5,000		5,000
1080.57010	MAINT EQUIP - VEHICLES					
	SMALL TRUCK SCHEDULED AND UNSCHEDULED REPAIRS, TIRES, BELTS ETC.			2,000		2,000
	MAINT EQUIP - VEHICLES TOTAL	0	0	2,000		2,000
1080.57016	MAINT STRUCTURE AND IMPROVEMENTS - GENERAL					
	HABITAT RESTORATION/WETLAND IMPROVEMENTS		40,000			40,000
	MAINT STRUCTURE AND IMPROVEMENTS - GENERAL TOTAL	0	40,000	0		40,000
1080.51545	SMALL TOOLS					
	WILDLIFE MANAGEMENT EQUIPMENT			5,000		5,000
	SMALL TOOLS TOTAL	0	0	5,000		5,000
1080.51550	SAFETY SUPPLIES					
	SAFETY EQUIPMENT SUCH AS SAFETY GOGGLES, GLOVES			1,000		1,000
	SAFETY SUPPLIES TOTAL	0	0	1,000		1,000
1080.51112	SPECIAL DEPT EXPENSE					
	OTHER ENVIRONMENTALLY RELATED FEES			5,000		5,000
	SPECIAL DEPT EXPENSE TOTAL	0	0	5,000		5,000

GENERAL FUND BUDGET FY 07-08
NATURAL RESOURCES (1080)

JDE Account Number	Description	Wildlife Management	Habitat Restoration	General	Prado Wetlands	Total
	ACTIVITY CODE	8010	8008	9900	9925	
1080.56012	INTERNAL AGENCY					
	SANTA ANA SUCKER CONSERVATION			20,000		20,000
	INTERNAL AGENCY TOTAL	0	0	20,000		20,000
	NATURAL RESOURCES GRAND TOTAL	109,938	124,127	83,009	0	317,074

ACOE or Corps	United States Army Corps of Engineers
ACWA	Association of California Water Agencies
af	acre-feet
AGWA	Association of Ground Water Agencies
AMX	water billing system
AOP	Advanced Oxidation Process
AWPF	Advanced Water Purification Facilities
AWWARF	American Water Works Association Research Foundation
BCV	Basin Cleaning Vehicle
BEA	Basin Equity Assessment
BPP	Basin Production Percentage
CIP	Capital Improvement Program
CMMS	Computerized Maintenance Management System
CSDA	California Special Districts Association
DHS	California Department of Health Services
DRIP	Desalination Research Innovation Partnership
EDC	endocrine disrupting compounds
EPA	Environmental Protection Agency
ERP	Emergency Response Plan
FEMA	Federal Emergency Management Agency
FHQ	Field Headquarters
FIS	Financial Information System
FRL	Field Research Laboratory
FTE	full time equivalent
FY	fiscal year
GL	general liability insurance
GAP	Green Acres Project
GSWC	Golden State Water Company
GWR	Groundwater Replenishment
I&E	Instrumentation and electrical
IDC	initial demonstration of competency
IEUA	Inland Empire Utilities Agency
IIS	Integrated information systems
IRWD	Irvine Ranch Water District
IS	Information Services
JDE	JD Edwards
JPIA	Joint Powers Insurance Authority
LC/MS/MS	liquid chromatograph/double mass spectrometer
LIMS	Lab Information System
LTFP	Long-Term Facilities Plan
MCLs	maximum contaminant levels
MF	microfiltration
mgd	million gallons per day
MSDS	Material Safety Data Sheet
MWD	Metropolitan Water District of Southern California
MWDOC	Municipal Water District of Orange County
NDMA	N-nitrosodimethylamine
NPDES	National Pollutant Discharge Elimination System
NWRI	National Water Research Institute
O&M	operations and maintenance
OCCOG	Orange County Council of Government

OCEA	Orange County Employee Association
OCHCA	Orange County Health Care Agency
OCSD	Orange County Sanitation District
OMM	Operations, Maintenance and Monitoring
PBDE	Poly-Brominated Diphenyl Ethers
pcbs	Polychlorinated-biphenyls
PCS	Process Control System
PDA's	personal digital assistants
ppb	parts per billion
ppm	parts per million
producers	Orange County groundwater producers
QA/QC	quality assurance/quality control
RA	replenishment assessment
R&D	Research and Development
REWG	Recharge Enhancement Working Group
RFP	requests for proposals
RFQ	requests for qualifications
RMP	Risk Management Plan
RO	reverse osmosis
R&R	Replacement & Refurbishment
RWQCB	Regional Water Quality Control Board
SAP	Scientific Advisory Panel
SAR	Santa Ana River
SARWQH	Santa Ana River Water Quality Health
SAWA	Santa Ana Watershed Association
SAWPA	Santa Ana Watershed Project Authority
SCADA	Supervisory Control and Data Acquisition
TCE	trichloroethylene
TIC	tentatively identified compounds
TMDL	total maximum daily load
TOC	total organic carbon
TSS	total suspended solids
UCMR2	Unregulated Contaminant Monitoring Rule Phases
UCI	University of California Irvine
UV	ultraviolet light
UV-H2O2	ultra-violet hydrogen peroxide
VOC	volatile organic compounds
WERF	Water Environment Research Foundation
WEROC	Water Emergency Response of Orange County
WQ	Water Quality
W/C	Workers' compensation
WRF	WaterReuse Research Foundation
WRMS	Water Resource Management System
YLWD	Yorba Linda Water District



*Water Factory
21*

ORANGE COUNTY WATER DISTRICT

Orange County, California, receives an average of only 13 to 15 inches of rainfall annually, yet sustains a population of approximately 2.5 million people. The Orange County Water District (OCWD) manages the massive groundwater basin that underlies the northwest half of the county, supplying about 75 percent of the District's total water demand. The remaining 25 percent is obtained through the Colorado River Aqueduct and the State Water Project via the Metropolitan Water District of Southern California.

Orange County's groundwater basin was used by early settlers to supplement flows from the Santa Ana River. As the area developed into a thriving agricultural center, the increased demand upon the subsurface water by the county's many wells resulted in a gradual lowering of the water table. In response, the Orange County Water District was formed by an act of the California Legislature in 1933 to protect and manage the groundwater basin.

In addition to effecting aggressive groundwater recharge and recovery programs to optimize local water resources, District officials have for decades advocated treating and recycling municipal wastewater as a reliable supplemental supply. As long ago as the mid-1960s, OCWD began a pilot-scale reclamation project that developed into the now-famous Water Factory 21. Located in Fountain Valley, California, the plant is well-known internationally, attracting more than 1,000 visitors annually from 30 countries.

TALBERT BARRIER PROJECT and WATER FACTORY 21



By 1956, years of heavy pumping to sustain the region's agricultural economy had lowered the water table below sea level and saltwater from the Pacific Ocean had encroached as far as five miles inland. The area of intrusion is primarily across a four-mile front between the cities of Newport Beach and Huntington Beach known as the Talbert Gap. The mouth of an alluvial fan formed millions of years ago by the Santa Ana River, the Talbert Gap has since been buried along the coast by several hundred feet of clay.

Massive seawater intrusion has been prevented by the District's recharge program. However, the threat of saltwater encroachment along the coast is still present. To prevent further intrusion and to provide basin management flexibility, the District operates a hydraulic barrier system. A series of 23 multi-point injection wells four miles inland delivers fresh water into the underground aquifers to form a water mound, blocking further passage of seawater.

The first blended reclaimed water from Water Factory 21 was injected into the coastal barrier in October 1976. Several alternative sources of water were thoroughly evaluated for the seawater barrier injection program, including deep well water, imported water, reclaimed wastewater, and desalted seawater. The source of injection water finally adopted for Water Factory 21 is a blended combination

of deep well water and recycled secondary effluent supplied by the County Sanitation Districts of Orange County (CSDOC).

The recycled product water from Water Factory 21 meets drinking water standards through treatment using advanced processes. Recycled water was chosen for many reasons. Cost was a definite consideration, but even more important were the environmental advantages:

- Reduction of 15,000 acre-feet of wastewater discharged to the ocean annually.
- Reduction of dependency on State Water Project and Colorado River supplies.
- Constant availability of reclaimed water supply; seawater intrusion barriers are last priority when imported supplies are diminished by drought or emergency interruption of importation systems.

Water Factory 21 product water is a blend of five million gallons per day (MGD) reverse osmosis-treated water, nine MGD carbon adsorption-treated water, and 8.6 MGD deep well water. This blend, with a total dissolved solids (TDS) content of 500 milligrams per liter (mg/L) or lower, meets all California Department of Health Services primary and secondary drinking water standards.

CHEMICAL CLARIFICATION

Product water also complies with the injection requirements of the California Regional Water Quality Control Board, Santa Ana Region. The use of recycled water, at a cost comparable to that of less dependable imported supplies, has rendered the project virtually drought proof.

Water Factory 21 reclaims approximately 15 MGD, and, with the deep well water used for blending, produces 22.6 MGD. The blended injection water not only protects the basin from saltwater intrusion, but also replenishes aquifers from which 50 percent of the county's water is drawn.

The plant's treatment train includes chemical clarification, recarbonation, multi-media filtration, granular activated carbon, reverse osmosis, chlorination and blending. All processes are discussed fully on the next pages.

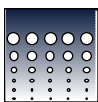
Chemical clarification reduces turbidity, organics, trace metals, and phosphate, and elevates pH for disinfection and virus removal. The system includes separate rapid mixing, flocculation, and settling basins. Lime, at a dose of 375 to 500 mg/L, is added in slurry form into the rapid-mix basin as a primary coagulant and disinfectant (raising the pH to 11.3), and an anionic polymer, at a dose of 0.1 mg/L, is added as a settling aid in the third-stage flocculation basin.



Water flows from the bottom of the third flocculation basin into a settling basin where it flows horizontally into the notched weirs of collection troughs. Approximate detention time in the clarification basin is 117 minutes: one minute for each of the two rapid-mix basins, 30 minutes in the flocculation basins and 85 minutes in the settling basins.

Originally, air stripping (for removal of ammonia) followed chemical clarification in the treatment train. It is no longer needed, however, because CSDOC now treats to a higher level of secondary treatment utilizing activated sludge.

OCWD is currently studying the possibility of using microfiltration (MF) as a replacement for chemical clarification. Benefits of MF may include reduction of space used for pre-treatment, less labor-intensive maintenance, and the possibility of producing even higher-quality water.



The purpose of the recarbonation basin is to neutralize the pH of the highly-alkaline water produced during chemical clarification. Off gases, containing carbon dioxide gas, are recovered from the lime recalcining furnace stack. They are added in a single stage to lower pH between 6.5 and 7.0. The recarbonation basins also serve as chlorine contact basins. Generally, five to 10 mg/L of chlorine is added for partial disinfection and algae control. Detention time in the recarbonation basin is about 70 minutes.

LIME RECALCINATION and SOLIDS HANDLING



Solids that have settled to the bottom of the settling basins - about 30 tons per day - are transported to the sludge thickening basin, then sent to one of two centrifuges in the lime building for further dewatering and sludge separation. Sludge removed in the centrifuge is fed into a 1700° F. furnace for recovery and reuse. Nearly 75 percent of this material is recoverable.

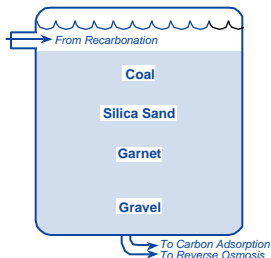
The lime building contains a six-hearth lime recalcining furnace, lime storage bins, centrifuges for dewatering of thickened sludge from the sludge thickener, lime feeders and slakers, carbon dioxide compressors, and a control room. The lime recalcination furnace can recover up to 24 tons of lime per day. Furnace stack gases are cooled and compressed to recover carbon dioxide to be used in the recarbonation process. Dry lime is made into a wet slurry and added to the rapid mix basins.

PB

Water from the recarbonation basin passes through four open, gravity-flow filtration beds which operate in parallel. Filtration reduces turbidity. Each filter has a design capacity of 3.75 MGD at a rate of five gallons per minute per square foot of surface area. The filters provide coarse to fine filtration in the direction of flow. The filter media are anthracite coal, silica sand, and fine and coarse garnet. Combined, they are 30 inches deep and are supported by a bed of gravel and a tile block underdrain system. A typical filter run generally exceeds 100 hours. The filters are backwashed at the rate of 15 gpm/ft² from the filter effluent sump.



Following filtration, the flow is split into two parts, with roughly two thirds of the water going to granular activated carbon adsorption and one third bound for treatment using reverse osmosis.





The daily flow rate from multi-media filtration is nine million gallons. Each carbon contactor has a capacity of .9 MGD. The carbon adsorption system consists of a total of 17

contactors, each containing 43 tons of granular activated carbon, operating at a hydraulic loading rate of 5.8 gpm/ft². Contact time is 30 minutes.

The carbon contactors operate in parallel and are designed to operate either upflow or downflow (they are currently operated in the upflow mode). The purpose of the GAC is to adsorb various dissolved organic compounds from the treated water. Typically, the carbon removes up to 70 percent of total organic carbon. As the system is operated, the adsorptive capacity of the carbon is eventually exhausted and must be regenerated at regular intervals.

A furnace is located in the carbon building to reactivate spent carbon. The furnace has a regeneration capacity of 12,000 pounds per day. Approximately 93 percent of the carbon is recovered during each regeneration cycle. When regeneration takes place, the spent carbon is taken from the bottom of the columns in slurry form and sent via two-inch hoses to the carbon regeneration tanks. In the upflow mode the bottom half of the carbon is that which becomes exhausted. Operating the contactors in upflow mode allows the regeneration of the bottom half of the contactor's carbon, which is also the portion that is easier to remove.

Water Factory 21 product water must have a total dissolved solids (TDS) content of 500 mg/L or lower. Demineralization of a third of the plant's process water is achieved in the reverse osmosis (RO) process. In addition to removal of TDS, RO is very effective in reducing other minerals, ammonia, and total organic carbon (TOC).



Six million gallons per day enters RO treatment after leaving the multi-media filter beds. Before the water enters the RO membranes, it receives additional pretreatment consisting of antiscalant addition; sulfuric acid addition to lower the pH to 5.5; and cartridge filtration.

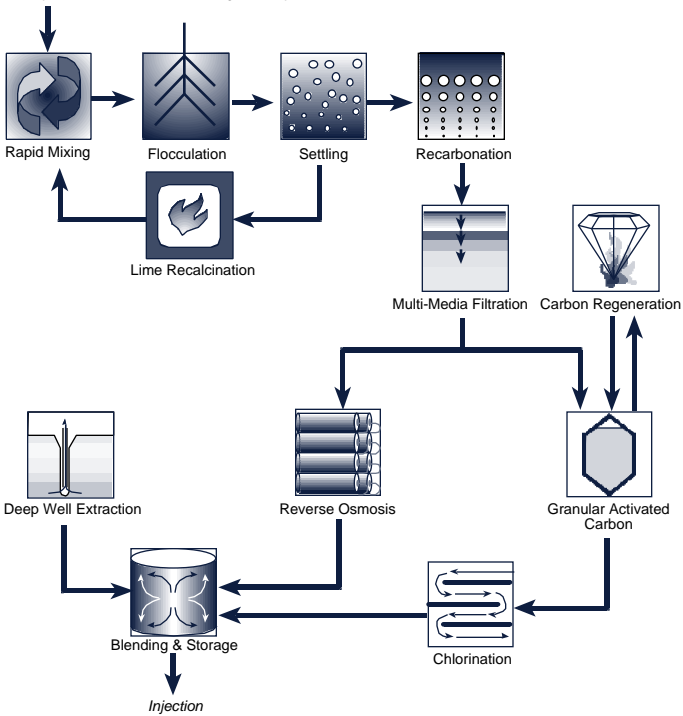
Operation of the RO unit requires pressures of 200-325 pounds per square inch (psi) produced by two high-pressure pumps. The RO unit is designed as two parallel 2.5 MGD systems. The basic element consists of six spiral-wound cellulose acetate membranes placed end-to-end inside an eight-inch diameter fiberglass-reinforced vessel 23 feet long. There are six banks of membranes, each containing 42 vessels, arranged in a three-stage "inverted triangle" pattern (24 vessels, 12 vessels, 6 vessels) to provide 85 percent recovery.

Product water which has passed through the membranes has had 90 percent of TDS removed. The concentrated brine (15 percent of the total input) is returned to the County Sanitation Districts for disposal via their ocean outfall.

Membranes are cleaned *in situ*, using product water with a detergent additive.

WATER FACTORY 21 TREATMENT PROCESS

Secondary-Treated Effluent from Plant 1
County Sanitation Districts of Orange County





The chlorination basin, 90 feet by 53 feet, is baffled to provide a serpentine flow path for the water. Effluent from the carbon columns flows to the chlorine contact

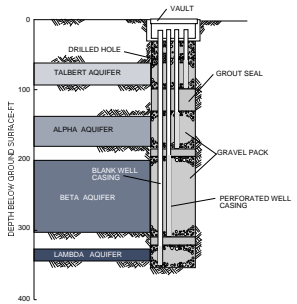
basin for chlorination to oxidize residual ammonia, and to destroy remaining bacteria and virus. Chlorine is added through a diffuser in the pipeline, just upstream of the contact basin. Effluent from the chlorination basin flows by gravity to the blending and storage reservoir where it mixes with RO product water and deep well water.

Currently, injection water for the Talbert Barrier is a blend of 62 percent reclaimed wastewater and 38 percent groundwater pumped from a deep aquifer zone that is not subject to seawater intrusion. OCWD has applied for and received a permit to modify the treatment process to allow for injection of 100 percent reclaimed water, eliminating the use of deep well water for blending.

The treatment plant's efficiency in reducing COD, TOC, nitrogen, and turbidity is demonstrated by the water quality data. A higher proportion of RO product water will reduce TOC below levels found in most drinking water supplies. And the high quality water from deep wells which is currently used for blending will be treated to remove color; it holds great promise as a potable water source.

The purpose of Water Factory 21 is to produce a water supply for the Talbert Barrier to prevent seawater intrusion. Final plant effluent, meeting all California Department of Health Services primary and secondary drinking water standards, is pumped into the groundwater basin via a series of 23 multi-point injection wells with a total of 81 individual injection points. Injection wells are placed approximately every 600 feet along Ellis Avenue from the Santa Ana River to the bluffs at Beach Boulevard. This injected water forms a freshwater mound between the ocean and the groundwater basin, providing a hydraulic barrier to seawater intrusion and permitting the groundwater basin to be safely drawn below sea level.

Once underground, some of the injected water flows toward the ocean, forming the seawater barrier. The majority of the water, however, flows into the groundwater basin to augment Orange County's domestic groundwater supply.



COSTS

CAPITAL AND CONSTRUCTION COSTS

	Total	Federal	State	OCWD
Investigations and Improvements	\$2,275,000	\$ 130,000	\$ 0	\$ 2,145,000
Wastewater Reclamation	13,400,000	6,850,000	3,116,000	3,434,000
Injection Barrier Facilities	1,430,000	350,000	160,000	920,000
Deep Wells	732,000	0	0	732,000
Reverse Osmosis	3,000,000	0	0	3,000,000
TOTAL	\$20,837,000	\$7,330,000	\$3,276,000	\$10,231,000

Capital and construction costs above are actual figures from the mid-1970s.

OPERATING COSTS AT MAXIMUM CAPACITY

Process	Amount Produced, in Million Gallons per Day (MGD)	Cost per 1,000 Gallons	Cost per Acre-Foot
Advanced Water Treatment (AWT): Lime Clarification, Recarbonation, Multi-media Filtration, and Chlorination	15.0	\$1.01	\$322
Granular Activated Carbon (GAC) treatment and Carbon Regeneration, not including AWT	9.0	\$0.18	\$58
Reverse Osmosis, not including AWT	5.0	\$0.96	\$312
Advanced Water Treatment (blended GAC and RO product waters) Subtotal	14.0	\$1.44	\$470
Blending water extracted from deep wells	8.6	\$0.12	\$38
Blended product water used for injection (62% reclaimed water and 38% deep well water) TOTAL	22.6	\$0.93	\$306

Operating costs above include energy requirement and labor.

WATER QUALITY

Constituent	Units	OCWD Influent From CSDOC	RO Product Water	Deep Well Blend Water	WF-21 Blended Product Water	California DHS Standards*
Inorganics						
Total Nitrogen	mg/L	18.3	2.6	0.6	3.0	10.0
Boron	mg/L	0.57	0.31	0.18	0.23	1.0
Chloride	mg/L	237.6	18.4	11	43.8	250
Electrical						
Conductivity	µmho	1,721	182	365	419	1600
Fluoride	mg/L	1.0	0.21	0.72	0.46	1.4 - 2.4
pH	mg/L	7.4	6.7	8.7	7.6	6.5 - 8.5
Sulfate	mg/L	217.5	13.8	11.8	34	250
Cyanide	µg/L	14.7	8.1	-	15.4	200
TDS	mg/L	935.9	60.2	231	235.3	500
Physical Characteristics						
Color	color units	27	4.0	59	21	15
Turbidity	NTU	2.25	0.05	-	0.8	5.0
Coliform	CFU/100mL	1,536,981	<1.0	-	<1.0	<1.0
Heavy Metals						
Arsenic	µg/L	1.2	<5.0	<5.0	<5.0	50
Barium	µg/L	51.2	1.2	3.9	6.3	1000
Cadmium	µg/L	3.0	<1.0	<1.0	1.2	5.0
Chromium	µg/L	1.6	<1.0	<1.0	0.2	50
Cobalt	µg/L	<1.0	<1.0	-	<1.0	200
Copper	µg/L	13.6	4.8	13.2	7.3	1000
Iron	µg/L	165.7	8.6	37.4	23	300
Lead	µg/L	1.2	0.2	<1.0	0.5	<1.0
Manganese	µg/L	43.9	2.0	2.6	6.7	50
Mercury	µg/L	<0.5	<0.5	0.2	0.1	2.0
Selenium	µg/L	4.8	<5.0	<5.0	<5.0	50
Silver	µg/L	0.6	1.0	1.0	0.3	100
Organics						
COD	mg/L	39	3.0	-	8.0	None
TOC	mg/L	10.2	0.72	2.59	2.09	None
THMs	µg/L	-	-	-	9.7	100

* Department of Health Services (DHS)
Drinking Water Standards

NOTES

TOURS OF WATER FACTORY 21

Offered to adults on weekdays by appointment only, tours take from one to one and one-half hours and include background information and viewing of the treatment train. Tours are canceled in the event of inclement weather.

If you would like to arrange a tour, please call at least two weeks in advance. Requests for specific dates are subject to staff availability, and all guests to Water Factory 21 must be accompanied. Flat shoes are suggested. When calling, please be prepared to provide the following information:

- Date and Time
- Number of Tour Guests
- Contact Name and Affiliation
- Address and Phone and Fax Numbers

To arrange for a speaker on water recycling, groundwater management, or other related programs, contact OCWD's Public Affairs Department at (714) 378-3200.

ABOUT THE COVER:

Water Factory 21, a world-renowned wastewater reclamation plant, attracts more than 1,000 government leaders, university students, engineers, and hydrogeologists from 30 nations every year.



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