

MEETING OF THE BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Jointly with the

EXECUTIVE COMMITTEE

January 19, 2012, 8:30 a.m.

MWDOC Conference Room 102

President
Vice President
Immediate Past President

Staff: K. Hunt, K. Seckel,
M. Goldsby

MWDOC Committee meetings are noticed and held as joint meetings of the Committee and the entire Board of Directors and all members of the Board of Directors may attend and participate in the discussion. Each Committee has designated Committee members, and other members of the Board are designated alternate committee members. If less than a quorum of the full Board is in attendance, the Board meeting will be adjourned for lack of a quorum and the meeting will proceed as a meeting of the Committee with those Committee members and alternate members in attendance acting as the Committee.

PUBLIC PARTICIPATION

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Determine there is a need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda. (Requires a unanimous vote of the Committee)

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING --

Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection in the lobby of the District's business office located at 18700 Ward Street, Fountain Valley, California 92708, during regular business hours. When practical, these public records will also be made available on the District's Internet Web site, accessible at <http://www.mwdoc.com>.

1. DISCUSSION REGARDING UPCOMING ACTIVITIES OF SIGNIFICANCE
 - a. Update on Audio/Visual Improvements
 - b. Process for Reviewing MET Directors
 - c. Water Transfers As Priority Legislative Topic
 - d. Redistricting
2. MEMBER AGENCY RELATIONS
3. EXECUTIVE COMMITTEE REVIEW OF FUTURE AGENDAS
 - a. Planning & Operations Committee
 - b. Workshop Board Meeting
 - c. Administration & Finance Committee
 - d. Public Affairs & Legislation Committee
 - e. MWDOC/OCWD Joint Planning Committee
4. GENERAL MANAGER'S ACTIVITIES
 - a. Progress Report
5. REVIEW AND DISCUSS DISTRICT AND BOARD ACTIVITIES

ADJOURNMENT

NOTE: At the discretion of the Committee, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated, and may be subject to action by the Committee. On those items designated for Board action, the Committee reviews the items and makes a recommendation for final action to the full Board of Directors; final action will be taken by the Board of Directors. Agendas for Committee and Board meetings may be obtained from the District Secretary. Members of the public are advised that the Board consideration process includes consideration of each agenda item by one or more Committees indicated on the Board Action Sheet. Attendance at Committee meetings and the Board meeting considering an item consequently is advised.

Accommodations for the Disabled. Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning Maribeth Goldsby, District Secretary, at (714) 963-3058, or writing to Municipal Water District of Orange County at P.O. Box 20895, Fountain Valley, CA 92728. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.



DISCUSSION ITEM

January 19, 2012

TO: Executive Committee
FROM: Kevin Hunt, General Manager
Staff Contact: Lee Jacobi

SUBJECT: Redistricting Alternatives

STAFF RECOMMENDATION

Staff recommends the Board of Directors select Alt. 2 and direct Staff to proceed with re-districting.

COMMITTEE RECOMMENDATION

Committee recommends (To be determined at Committee Meeting)

SUMMARY

The Board directed Staff to check if the seven Directors Divisions are in balance of population, using 2010 Census data. MWDOC hired the Center for Demographic Research (CDR). The Divisions were found to be not in balance, per the Board’s criteria. Therefore, Directors Divisions boundaries should be changed. Staff and CDR have analyzed three re-districting alternatives described herein:

- Alt. 1 “East Orange”
- Alt. 2 “City Portion of Tustin Water”
- Alt. 3 “All of Tustin Water / Lake Forest”

Staff recommends Alt. 2

DETAILED REPORT

MWDOC’s seven Directors each represent Divisions that are supposed to be nearly equal in population. But, population is not static; some areas have grown faster than others.

| | | | |
|--|----------------------------------|--|---------------------------------|
| Budgeted (Y/N): Y | Budgeted amount: \$20,000 | Core <input checked="" type="checkbox"/> | Choice <input type="checkbox"/> |
| Action item amount: \$19,211 | | Line item: 21-7010 | |
| Fiscal Impact (explain if unbudgeted): | | | |

Divisions that were in balance when their boundary lines were last drawn in 2006 (see map) may not be in balance now. With the 2010 Census data becoming available in 2011, Staff was directed to check to see if the existing Divisions are still in balance, and, if they are not, to draft new Division boundaries that will be in balance. New boundaries would need to be approved by the Board in Spring 2012 for the next set of elections in November 2012.

The MWDOC service area includes about 2.2 million people, based on 2010 Census data. Each Division should encompass about 1/7th of that, or roughly 316,000 people. Whichever way the Division lines are drawn, the Divisions will not be perfectly equal in population. There will be some variation from the mean (the mean being exactly 1/7th of the total MWDOC population). Some Divisions' size will be above the mean and some will be below it. MWDOC's legal counsel advised that a "spread" of up to 10 percent, from lowest to highest variation from mean size, is acceptable. For example, if the smallest Division size is 4% below the mean and the largest is 5% above the mean, that is a 9% spread, and is acceptable. In addition to equality of size, Divisions must also conform to the California Elections Code and the federal Voting Rights Act.

MWDOC hired the Center for Demographic Research at CSU Fullerton (CDR) to analyze the existing MWDOC Directors Divisions' size and also conformance to the Elections Code and the Voting Rights Act. CDR is the most knowledgeable entity on Orange County demographics, and has performed similar analyses for other governmental bodies, such as its recent re-districting study of the County of Orange Board of Supervisors' districts.

CDR's scope of work is:

Phase 1. Determine the present (2010 Census) population of each MWDOC Directors Division, and the present percentage spread from smallest to largest. Also analyze the racial/ethnic composition of each Division. Estimated cost \$3,759.

Phase 2. Prepare three re-districting alternatives. Estimated cost \$13,218 with optional add-ons.

Phase 3. Prepare a detailed electronic map for the Registrar of Voters office, and handout-size maps. Estimated cost \$2,234.

MWDOC gave the go-ahead in August for Phase 1. CDR found that the smallest Division is Div. 6 at 7.5% below the mean, and the largest is Div. 3 at 5.4% above mean. The "spread" from smallest to largest is 12.9%, which is greater than the 10% criterion. Therefore, the Directors Division boundaries should be changed, to achieve less than 10% "spread". In general, Div. 6 needs to increase, and Divs. 2 and 3 need to decrease.

Staff and CDR analyzed three alternatives for re-districting:

Alt. 1. "East Orange" :

- Adjust the boundary between Divs. 2 and 6 so that residents in the EOCWD Retail Zone and the GSWC East Orange service area residents will be in Div. 6.
- Adjust the boundary between Divs. 2 and 3 so that more Garden Grove residents will be in Div. 2.

Alt. 2. "City Portion of Tustin Water" :

- Adjust the boundary between Divs. 2 and 5 and 6 so that all residents of the City of Tustin will be in Div. 6.
- Adjust the boundary between Divs. 2 and 6 so that all residents of the City of Orange will be in Div. 2.
- Adjust the boundary between Divs. 5 and 6 so that some more residents of Irvine will be in Div. 5.
- Adjust the boundary between Divs. 2 and 3 so that more Garden Grove residents will be in Div. 2.

Alt. 3. "All of Tustin Water / Lake Forest" :

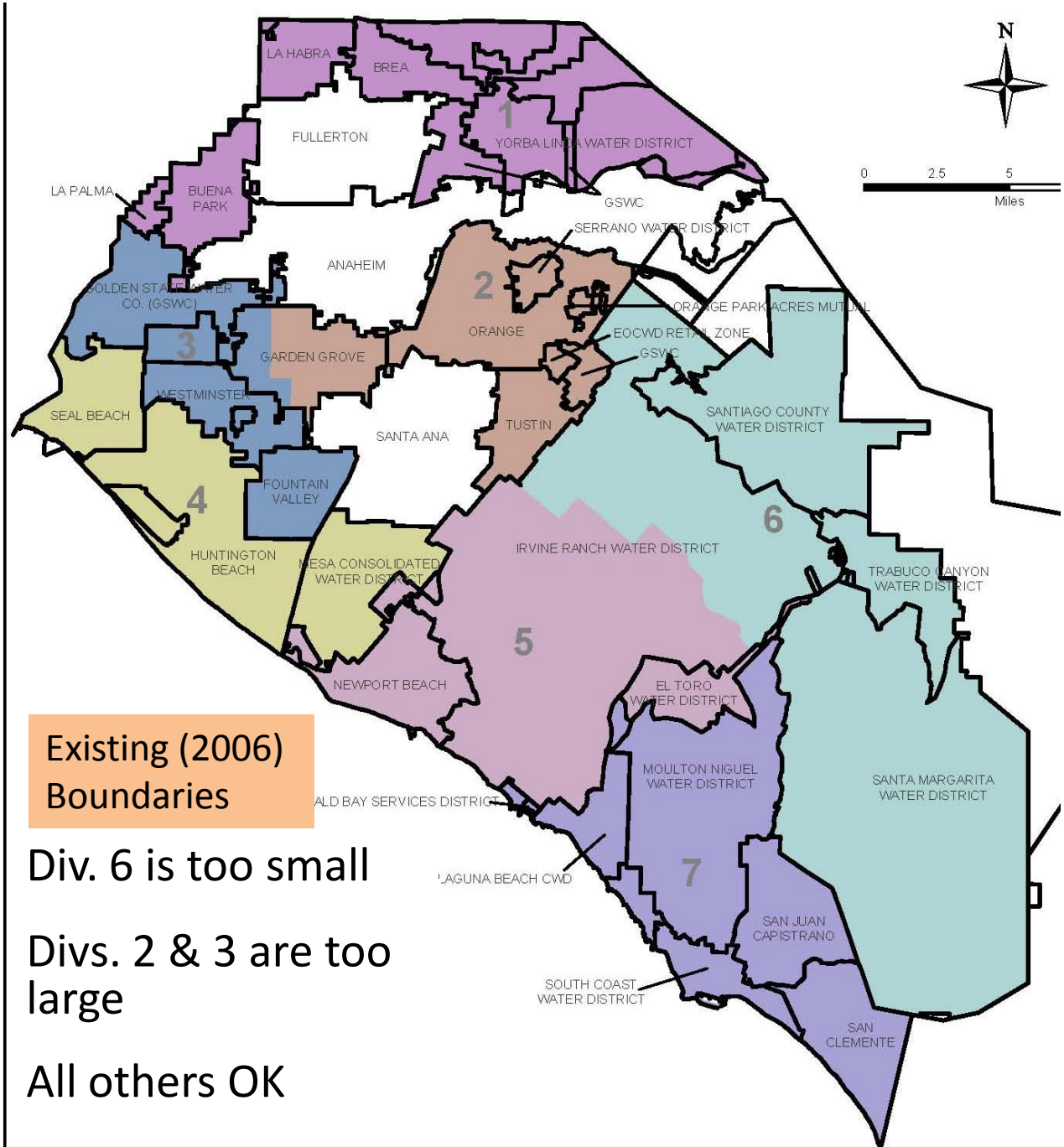
- Adjust the boundary between Divs. 2 and 5 and 6 so that all residents of the City of Tustin and the unincorporated area served by Tustin Water will be in Div. 6.
- Adjust the boundary between Divs. 2 and 6 so that all residents of the City of Orange will be in Div. 2.
- Adjust the boundary between Divs. 5 and 6 so that most of Lake Forest will be in Div. 5.
- Adjust the boundary between Divs. 2 and 3 so that more Garden Grove residents will be in Div. 2.

It should be noted that the very large Irvine Ranch Water District (IRWD) is already split between Divs. 2, 5 and 6. With any of the three Alternatives, IRWD would still be split between Divs. 2, 5 and 6.

A simplified map of each alternative, and the population data prepared by CDR for each alternative, are attached. Detailed maps can be prepared after the Board has selected their preferred alternative. The population data is not only total population but also by race/ethnicity.

Staff recommends Alt. 2 for these reasons:

- ✓ Alt. 2 has the smallest percentage spread, i.e. its proposed Divisions are the most balanced in population.
- ✓ Alt. 2 keeps the Cities of Orange and Tustin whole within their respective proposed Divisions 2 and 6.



Existing (2006)
Boundaries

Div. 6 is too small

Divs. 2 & 3 are too large

All others OK

Existing (2006) Divisions

Table 1: 2006 MWDOC Director Divisions with 2010 Population and Percentage Difference from Mean

| Difference from Mean: | | | | Percentage Spread (Largest - Smallest) |
|-----------------------|------------------|---------|------------|---|
| Division | Population | Number | Percentage | |
| 1 | 315,325 | -1,062 | -0.34% | 12.94% |
| 2 | 331,761 | 15,374 | 4.86% | |
| 3 | 333,566 | 17,179 | 5.43% | |
| 4 | 323,184 | 6,797 | 2.15% | |
| 5 | 312,734 | -3,653 | -1.15% | |
| 6 | 292,624 | -23,763 | -7.51% | |
| 7 | 305,518 | -10,869 | -3.44% | |
| Total | 2,214,712 | | | |

Target Population per Division (Mean): **316,387**

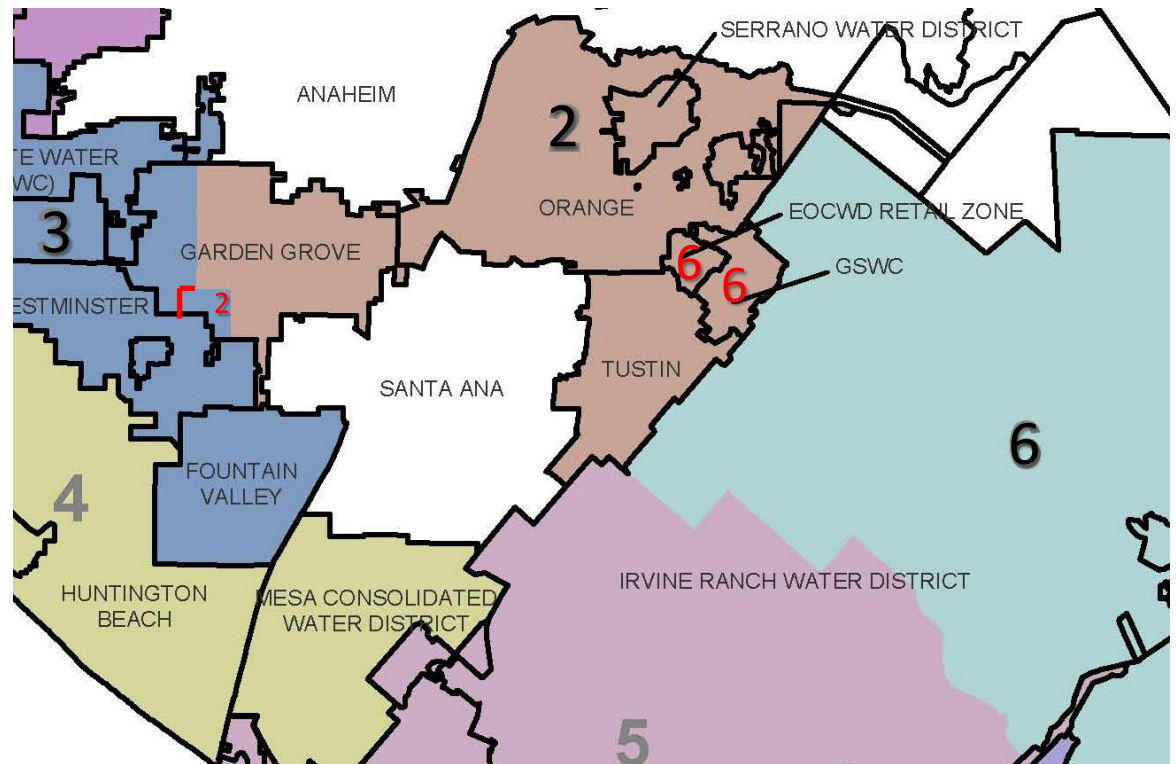
Existing (2006) Divisions

Table 2: 2010 Census Total Population by Race/Ethnicity

| Director Division | Total Population | Non-Hispanic White | Hispanic or Latino of Any Race | Non-Hispanic Asian | Non-Hispanic Black or African-American | All Other Non-Hispanic Races/Ethnicities |
|-------------------|------------------|--------------------|--------------------------------|--------------------|--|--|
| 1 | 315,325 | 133,661 | 107,331 | 58,763 | 6,533 | 9,037 |
| | 100.0% | 42.4% | 34.0% | 18.6% | 2.1% | 2.9% |
| 2 | 331,761 | 120,828 | 133,938 | 64,127 | 4,319 | 8,549 |
| | 100.0% | 36.4% | 40.4% | 19.3% | 1.3% | 2.6% |
| 3 | 333,566 | 117,509 | 84,467 | 116,337 | 4,583 | 10,670 |
| | 100.0% | 35.2% | 25.3% | 34.9% | 1.4% | 3.2% |
| 4 | 323,184 | 202,363 | 74,085 | 31,564 | 3,247 | 11,925 |
| | 100.0% | 62.6% | 22.9% | 9.8% | 1.0% | 3.7% |
| 5 | 312,734 | 187,596 | 38,168 | 70,484 | 4,087 | 12,399 |
| | 100.0% | 60.0% | 12.2% | 22.5% | 1.3% | 4.0% |
| 6 | 292,624 | 178,822 | 40,639 | 56,708 | 4,003 | 12,452 |
| | 100.0% | 61.1% | 13.9% | 19.4% | 1.4% | 4.3% |
| 7 | 305,518 | 213,892 | 56,532 | 21,355 | 3,059 | 10,680 |
| | 100.0% | 70.0% | 18.5% | 7.0% | 1.0% | 3.5% |
| TOTAL | 2,214,712 | 1,154,671 | 535,160 | 419,338 | 29,831 | 75,712 |
| | 100.0% | 52.1% | 24.2% | 18.9% | 1.3% | 3.4% |

Alt. 1 "East Orange"

EOCWD Retail Zone and GSWC Cowan Hts. / Lemon Hts. move to Div. 6



and adjust the line that divides Garden Grove

Alternative 1: "East Orange"

Table 1: Proposed 2011 MWDOC Director Divisions Population and Percentage Difference from Mean

| Difference from Mean: | | | | Percentage Spread (Largest - Smallest) |
|-----------------------|------------------|---------|------------|---|
| Division | Population | Number | Percentage | |
| 1 | 315,325 | -1,062 | -0.34% | 8.56% |
| 2 | 330,528 | 14,141 | 4.47% | |
| 3 | 323,969 | 7,582 | 2.40% | |
| 4 | 323,184 | 6,797 | 2.15% | |
| 5 | 312,734 | -3,653 | -1.15% | |
| 6 | 303,454 | -12,933 | -4.09% | |
| 7 | 305,518 | -10,869 | -3.44% | |
| Total | 2,214,712 | | | |

Target Population per Division (Mean): **316,387**

Alternative 1: "East Orange"

Table 2: 2010 Census Total Population by Race/Ethnicity of Proposed 2011 MWDOC Director Division

| Director Division | Total Population | Non-Hispanic White | Hispanic or Latino of Any Race | Non-Hispanic Asian | Non-Hispanic Black or African-American | All Other Non-Hispanic Races/Ethnicities |
|-------------------|------------------|--------------------|--------------------------------|--------------------|--|--|
| 1 | 315,325 | 133,661 | 107,331 | 58,763 | 6,533 | 9,037 |
| | 100.0% | 42.4% | 34.0% | 18.6% | 2.1% | 2.9% |
| 2 | 330,528 | 113,995 | 134,818 | 68,914 | 4,354 | 8,447 |
| | 100.0% | 34.5% | 40.8% | 20.8% | 1.3% | 2.6% |
| 3 | 323,969 | 116,267 | 82,572 | 110,235 | 4,474 | 10,421 |
| | 100.0% | 35.9% | 25.5% | 34.0% | 1.4% | 3.2% |
| 4 | 323,184 | 202,363 | 74,085 | 31,564 | 3,247 | 11,925 |
| | 100.0% | 62.6% | 22.9% | 9.8% | 1.0% | 3.7% |
| 5 | 312,734 | 187,596 | 38,168 | 70,484 | 4,087 | 12,399 |
| | 100.0% | 60.0% | 12.2% | 22.5% | 1.3% | 4.0% |
| 6 | 303,454 | 186,897 | 41,654 | 58,023 | 4,077 | 12,803 |
| | 100.0% | 61.6% | 13.7% | 19.1% | 1.3% | 4.2% |
| 7 | 305,518 | 213,892 | 56,532 | 21,355 | 3,059 | 10,680 |
| | 100.0% | 70.0% | 18.5% | 7.0% | 1.0% | 3.5% |
| TOTAL | 2,214,712 | 1,154,671 | 535,160 | 419,338 | 29,831 | 75,712 |
| | 100.0% | 52.1% | 24.2% | 18.9% | 1.3% | 3.4% |

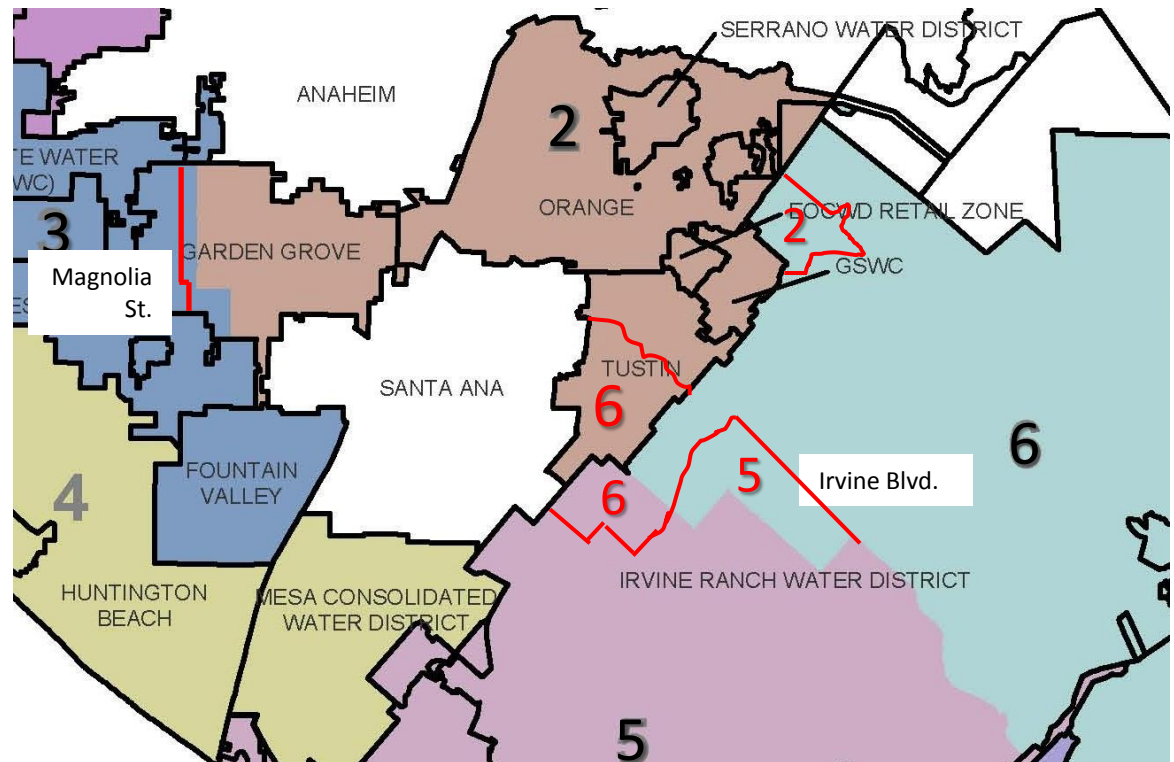
Alt. 2 “City portion of Tustin Water ”

City portion only of Tustin Water Services moves to Div. 6

Helicopter base in City of Tustin moves to Div. 6

East end of City of Orange within IRWD moves to Div. 2

A portion of City of Irvine moves to Div. 5



and adjust the line that divides City of Garden Grove

Alternative 2: "City Portion of Tustin Water"

Table 1: Proposed 2011 MWDOC Director Divisions Population and Percentage Difference from Mean

| Difference from Mean: | | | | Percentage Spread (Largest - Smallest) |
|-----------------------|------------------|---------|------------|---|
| Division | Population | Number | Percentage | |
| 1 | 315,325 | -1,062 | -0.34% | 7.32% |
| 2 | 305,203 | -11,184 | -3.54% | |
| 3 | 315,922 | -465 | -0.15% | |
| 4 | 323,184 | 6,797 | 2.15% | |
| 5 | 328,350 | 11,963 | 3.78% | |
| 6 | 321,210 | 4,823 | 1.52% | |
| 7 | 305,518 | -10,869 | -3.44% | |
| Total | 2,214,712 | | | |

Target Population per Division (Mean): **316,387**

Alternative 2: "City Portion of Tustin Water"

Table 2: 2010 Census Total Population by Race/Ethnicity of Proposed 2011 MWDOC Director Division

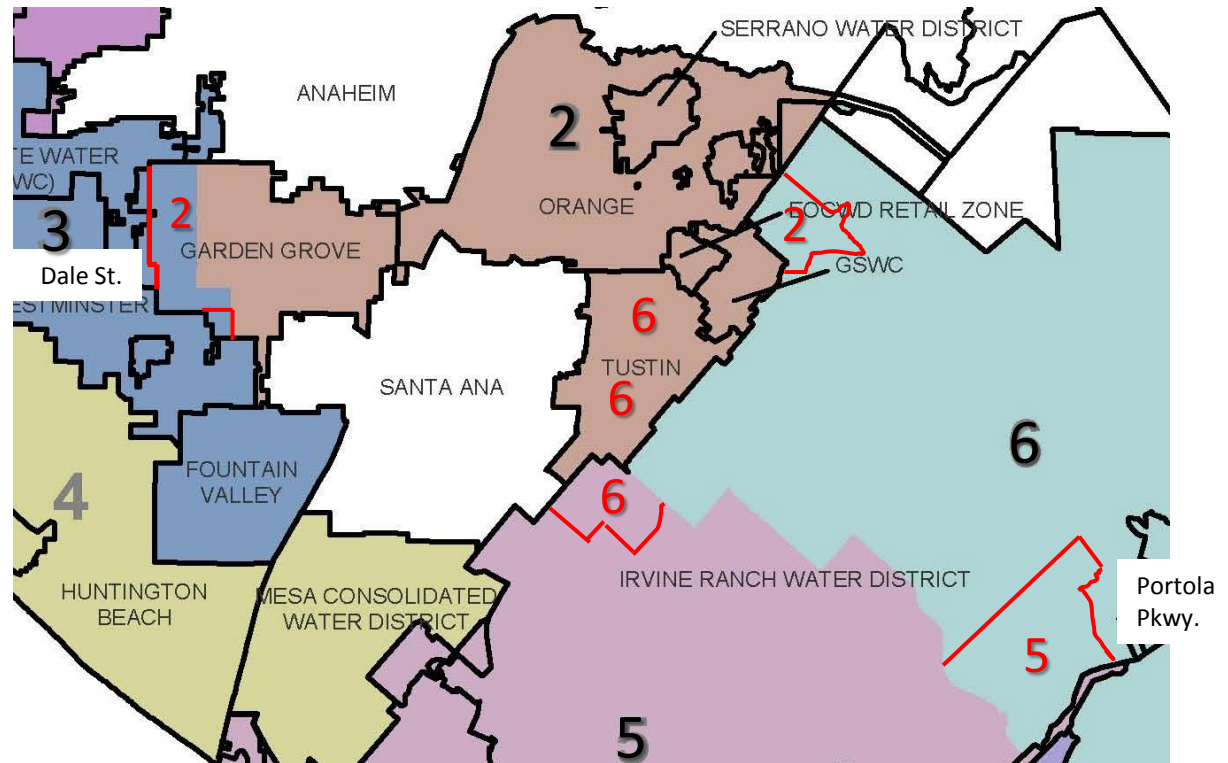
| Director Division | Total Population | Non-Hispanic White | Hispanic or Latino of Any Race | Non-Hispanic Asian | Non-Hispanic Black or African-American | All Other Non-Hispanic Races/Ethnicities |
|-------------------|------------------|--------------------|--------------------------------|--------------------|--|--|
| 1 | 315,325 | 133,661 | 107,331 | 58,763 | 6,533 | 9,037 |
| | 100.0% | 42.4% | 34.0% | 18.6% | 2.1% | 2.9% |
| 2 | 305,203 | 113,378 | 112,376 | 68,166 | 3,431 | 7,852 |
| | 100.0% | 37.1% | 36.8% | 22.3% | 1.1% | 2.6% |
| 3 | 315,922 | 113,915 | 80,413 | 107,013 | 4,400 | 10,181 |
| | 100.0% | 36.1% | 25.5% | 33.9% | 1.4% | 3.2% |
| 4 | 323,184 | 202,363 | 74,085 | 31,564 | 3,247 | 11,925 |
| | 100.0% | 62.6% | 22.9% | 9.8% | 1.0% | 3.7% |
| 5 | 328,350 | 194,992 | 39,168 | 76,748 | 4,259 | 13,183 |
| | 100.0% | 59.4% | 11.9% | 23.4% | 1.3% | 4.0% |
| 6 | 321,210 | 182,470 | 65,255 | 55,729 | 4,902 | 12,854 |
| | 100.0% | 56.8% | 20.3% | 17.3% | 1.5% | 4.0% |
| 7 | 305,518 | 213,892 | 56,532 | 21,355 | 3,059 | 10,680 |
| | 100.0% | 70.0% | 18.5% | 7.0% | 1.0% | 3.5% |
| TOTAL | 2,214,712 | 1,154,671 | 535,160 | 419,338 | 29,831 | 75,712 |
| | 100.0% | 52.1% | 24.2% | 18.9% | 1.3% | 3.4% |

Alt. 3 “All of Tustin Water / Lake Forest”

All of Tustin Water Services and City of Tustin moves to Div. 6

East end of City of Orange within IRWD moves to Div. 2

A portion of City of Lake Forest moves to Div. 5



and adjust the line that divides City of Garden Grove

Alternative 3: "All of Tustin Water / Lake Forest"

Table 1: Proposed 2011 MWDOC Director Divisions Population and Percentage Difference from Mean

| Difference from Mean: | | | | Percentage Spread (Largest - Smallest) |
|-----------------------|------------------|---------|------------|---|
| Division | Population | Number | Percentage | |
| 1 | 315,325 | -1,062 | -0.34% | 10.43% |
| 2 | 301,771 | -14,616 | -4.62% | |
| 3 | 301,167 | -15,220 | -4.81% | |
| 4 | 323,184 | 6,797 | 2.15% | |
| 5 | 334,153 | 17,766 | 5.62% | |
| 6 | 333,594 | 17,207 | 5.44% | |
| 7 | 305,518 | -10,869 | -3.44% | |
| Total | 2,214,712 | | | |

Target Population per Division (Mean): **316,387**

Alternative 3: "All of Tustin Water / Lake Forest"

Table 2: 2010 Census Total Population by Race/Ethnicity of Proposed 2011 MWDOC Director Division

| Director Division | Total Population | Non-Hispanic White | Hispanic or Latino of Any Race | Non-Hispanic Asian | Non-Hispanic Black or African-American | All Other Non-Hispanic Races/Ethnicities |
|-------------------|------------------|--------------------|--------------------------------|--------------------|--|--|
| 1 | 315,325 | 133,661 | 107,331 | 58,763 | 6,533 | 9,037 |
| | 100.0% | 42.4% | 34.0% | 18.6% | 2.1% | 2.9% |
| 2 | 301,771 | 102,674 | 114,441 | 73,531 | 3,503 | 7,622 |
| | 100.0% | 34.0% | 37.9% | 24.4% | 1.2% | 2.5% |
| 3 | 301,167 | 111,189 | 75,481 | 100,398 | 4,231 | 9,868 |
| | 100.0% | 36.9% | 25.1% | 33.3% | 1.4% | 3.3% |
| 4 | 323,184 | 202,363 | 74,085 | 31,564 | 3,247 | 11,925 |
| | 100.0% | 62.6% | 22.9% | 9.8% | 1.0% | 3.7% |
| 5 | 334,153 | 201,605 | 42,962 | 71,817 | 4,513 | 13,256 |
| | 100.0% | 60.3% | 12.9% | 21.5% | 1.4% | 4.0% |
| 6 | 333,594 | 189,287 | 64,328 | 61,910 | 4,745 | 13,324 |
| | 100.0% | 56.7% | 19.3% | 18.6% | 1.4% | 4.0% |
| 7 | 305,518 | 213,892 | 56,532 | 21,355 | 3,059 | 10,680 |
| | 100.0% | 70.0% | 18.5% | 7.0% | 1.0% | 3.5% |
| TOTAL | 2,214,712 | 1,154,671 | 535,160 | 419,338 | 29,831 | 75,712 |
| | 100.0% | 52.1% | 24.2% | 18.9% | 1.3% | 3.4% |