

Appendix C: Correspondences

- UWMP Notice of Preparation, March 10, 2016
- Growth Projection Letter to Cities and Counties
- UWMP Public Draft Comments

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- UWMP Notice of Preparation, March 10, 2016



CALIFORNIA WATER SERVICE

1720 North First Street
San Jose, CA 95112-4598 Tel: (408) 367-8200

March 10, 2016

[Name_F] [Name_L]

[Organization]

[Address]

[City], CA [ZipCode]

Dear [Title] [Name_L]:

California Water Service (Cal Water) is committed to providing safe, reliable, and high-quality water utility service in our Rancho Dominguez service area. At Cal Water, one of our top priorities is ensuring that our customers have a sustainable supply of water for decades to come.

With that in mind, we wanted to take this opportunity to let you know that we are updating our Urban Water Management Plan (UWMP) for this service area. This UWMP is reviewed and updated every five years pursuant to the Urban Water Management Plan Act, and will be completed by July 1, 2016. Our UWMP is a foundational document that supports our long-term water resource planning to ensure our customers have adequate water supplies to meet current and future demands.

Proposed revisions to our 2010 UWMP will be made available for public review, and we will be holding a public hearing, during which the updates for the 2015 UWMP will be discussed. The draft 2015 UWMP and the date, time and location of the public hearing will be available on our web site in a few weeks at www.calwater.com/conservation/uwmp. A hard copy of the draft UWMP will also be available at our Rancho Dominguez Customer Center located at 2632 West 237th Street, Torrance, CA 90505.

If you have any questions about the UWMP for this service area, please contact Michael Bolzowski, Cal Water Senior Engineer, at (408) 367-8338 or e-mail Planninginfo@calwater.com.

Sincerely,

Scott Wagner
Director of Capital Planning & Water Resources

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Appendix C: Correspondences

- Growth Projection Letter to Cities and Counties

Blanusa, Danilo

From: Blanusa, Danilo
Sent: Thursday, August 20, 2015 4:09 PM
To: 'Allan Rigg (arigg@pvestates.org)'
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Trejo, Daniel; Sorensen, Ronald
Subject: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Palos Verdes District
Attachments: Letter to City Planning Officials - Attachmet - PV.pdf

Tracking:	Recipient	Delivery
	'Allan Rigg (arigg@pvestates.org)'	
	Salzano, Tom	Delivered: 8/20/2015 4:09 PM
	Bolzowski, Michael R.	Delivered: 8/20/2015 4:09 PM
	Keck, Jonathan	Delivered: 8/20/2015 4:09 PM
	Trejo, Daniel	Delivered: 8/20/2015 4:09 PM
	Sorensen, Ronald	Delivered: 8/20/2015 4:09 PM

Dear Mr. Rigg,

Pursuant to California Water Code, Division 6, Part 2.6, Sections 10610 through 10656, California Water Service is in the process of preparing the required 2015 update of our Urban Water Management Plans. These plans are required to be updated every five (5) years for each of our services areas (Districts). As you know our Palos Verdes District provides water service to the City of Palos Verdes Estates.

The purpose of this communication is to solicit your assistance in reviewing and advising us with respect to one of the key elements of the plan, which is the development of a growth forecast for our district. This growth forecast is conducted based on growth in each customer service classification applicable to a particular district, which typically include:

- Single family residential
- Multi-family residential
- Commercial
- Industrial
- Government (City or County parks, median strips, landscaping and schools)
- Dedicated Irrigation (rare)
- Other (temporary construction meters)

The forecasted growth rates are combined with a demand per service factor applicable to each customer class to determine the future water demands for the district. These growth factors are adjustable and we want to review them with you so that we are consistent with anticipated growth that your planning efforts forecast. If adjustments are necessary we can do them now and avoid conflicts and confusion later in this process.

Some specific information regarding our approach to forecasting customer service growth is detailed as follows:

- **Residential** – Typically two residential customer service categories represent the vast majority of the service counts as well as subsequent water sales or demand in our districts. Cal Water considers both single family and multi-family residential services independently as individual classes, but combines them together in order to assess population growth and housing unit growth. While we use historical trends in the establishment for the growth rates for these two customer classes, we also analyze census data for population and housing factors and compare our forecast results for these two parameters with

available data from City General Plans, as well as County Economic Forecast data and Regional government association forecasts as a reality or appropriateness check of our results.

- **Commercial & Industrial** – Historical trend is a key influence in this customer class, however where we have seen negative trends in recent years for these categories due to the economic downturn, we typically employ either a zero rate of growth or a small, reasonable positive rate of growth. We have also undertaken during the last ten years some reassessment of customer service classifications that has resulted in reallocation of some customer service accounts between various classes. This reallocation, which included commercial, industrial, multi-family residential and in some cases government services, has made the analysis of growth a bit more difficult.
- **Government** – Growth trends are generally parallel to that of the residential sector, so we verify that our rate of grow is not dramatically out-of-sequence with the overall community.
- **Other** – The use of temporary-assigned construction meters varies considerably from year to year, and can represent considerable water demand. In this case, we select a growth rate that is stable, yet reflects the overall growth of the community.

We have included with this communication a set of tables and graphs (see attachment) that illustrate the parameters that influence the growth forecast as currently set up for this district. These include:

- A. The historical and projected service data in both graph and table form
- B. The 2000 and 2010 Census data for the districts service area
- C. Housing projection chart comparing Cal Water's forecast (always in red) with those from other organizations
- D. Population projection chart comparing Cal Water's forecast (always in red) with those from other organizations
- E. Table of population and housing values along with multi-family residential unit density and persons per housing unit density that are employed in this forecast effort.

Please note that the 2015 data, which we need to include in our finished forecast, is not yet final, and some minor fluctuation of these values is possible.

Please examine these documents to determine if you concur with our forecasted housing and population numbers. It would be greatly appreciated if you could, by **September 11, 2015**, provide us with an indication of your support or in the case you do not agree with our forecast a reason why and the appropriate rate or growth pattern that we should employ. **If I do not hear back from you by the end of business (EOB) on the above date I will assume that you concur with our forecast.**

If you need a more detailed explanation of these numbers or want to review them with us please feel free to contact me at (408) 367-8340 or by email at tsalzano@calwater.com.

Thank you for your assistance in this effort.

Respectfully,

Thomas A. Salzano

Thomas A. Salzano
Water Resource Planning Supervisor

Danilo Blanus, P.E.
Senior Engineer
CALIFORNIA WATER SERVICE

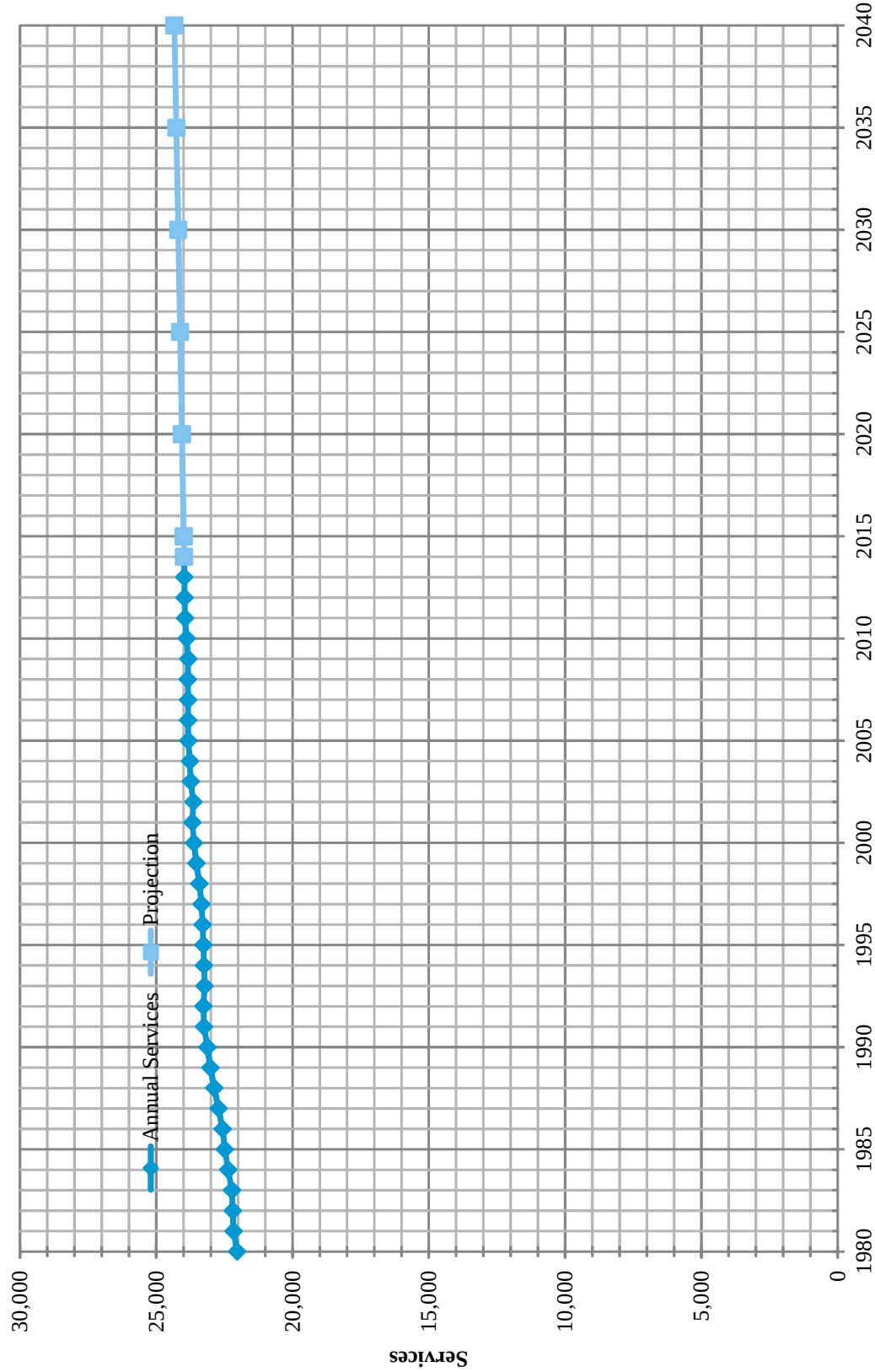
408-367-8387



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Historical & Projected Services



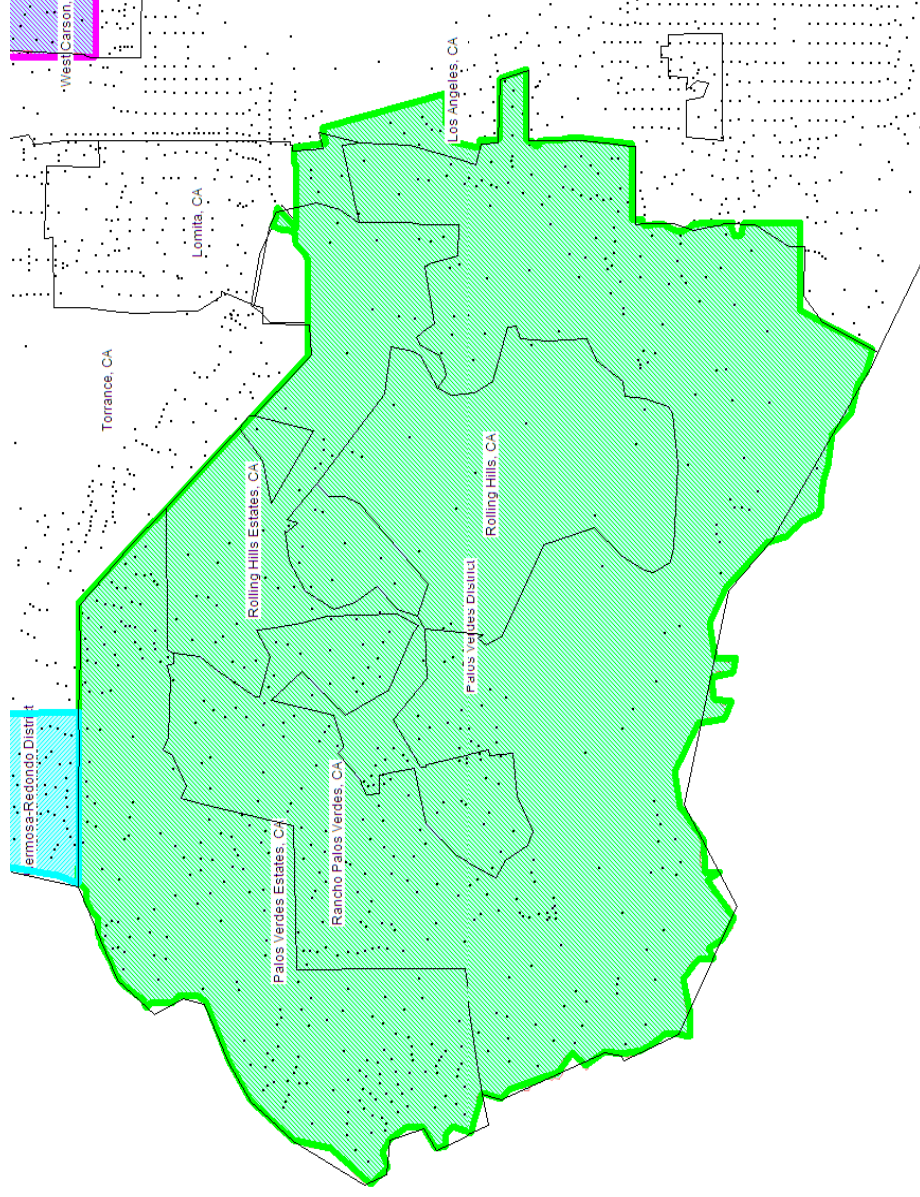
California Water Service Company - Palos Verdes District
Water Supply and Demand Analysis and Projections

Worksheet 8

Customer Category		Selected Trend		Growth Rate	Actual Services				Projected Services					
					2000	2005	2010	Base Year	2014	2015	2020	2025	2030	2035
SFR		SFR_D	15 Yr. Avg.	0.04%	22,748	22,943	22,703	22,789	22,798	22,841	22,885	22,928	22,972	23,015
MFR		MFR_B	5 Yr. Avg.	0.30%	146	143	218	222	223	226	230	233	237	240
COM		COM_A	Zero Growth Rate	0.00%	487	495	677	678	678	678	678	678	678	678
IND		IND_A	Zero Growth Rate	0.00%	11	10	0	0	0	0	0	0	0	0
GOV		GOV_E	20 Yr. Avg.	1.35%	204	212	267	269	273	292	312	333	356	381
OTH		OTH_A	Zero Growth Rate	0.00%	25	24	18	20	20	20	20	20	20	20
TOTAL		Average growth rate 2011-2040		0.06%	23,620	23,826	23,883	23,979	23,992	24,057	24,124	24,193	24,263	24,335

California Water Service Company - Palos Verdes District Water Supply and Demand Analysis and Projections MarPlot Summary

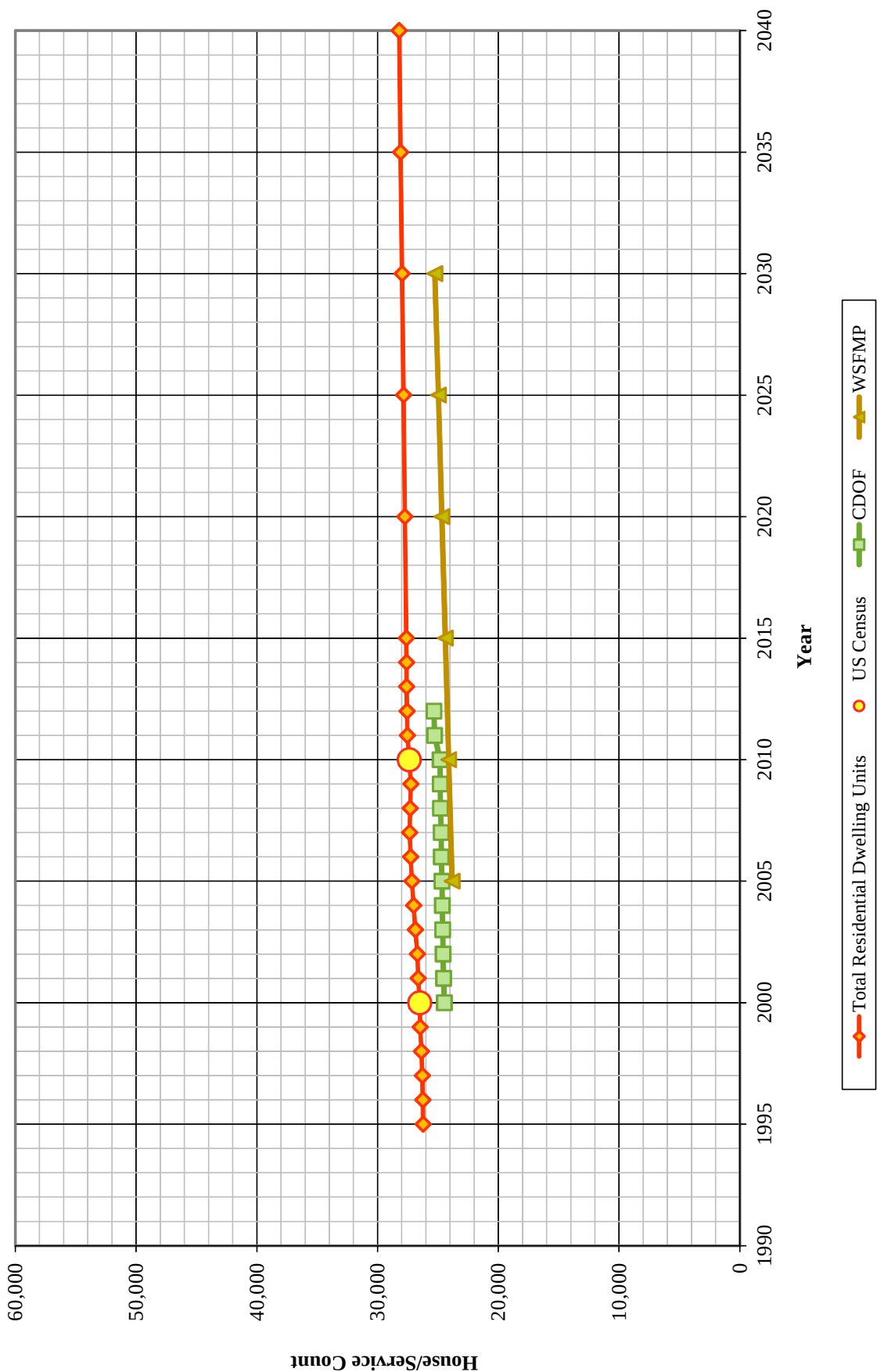
Worksheet 12



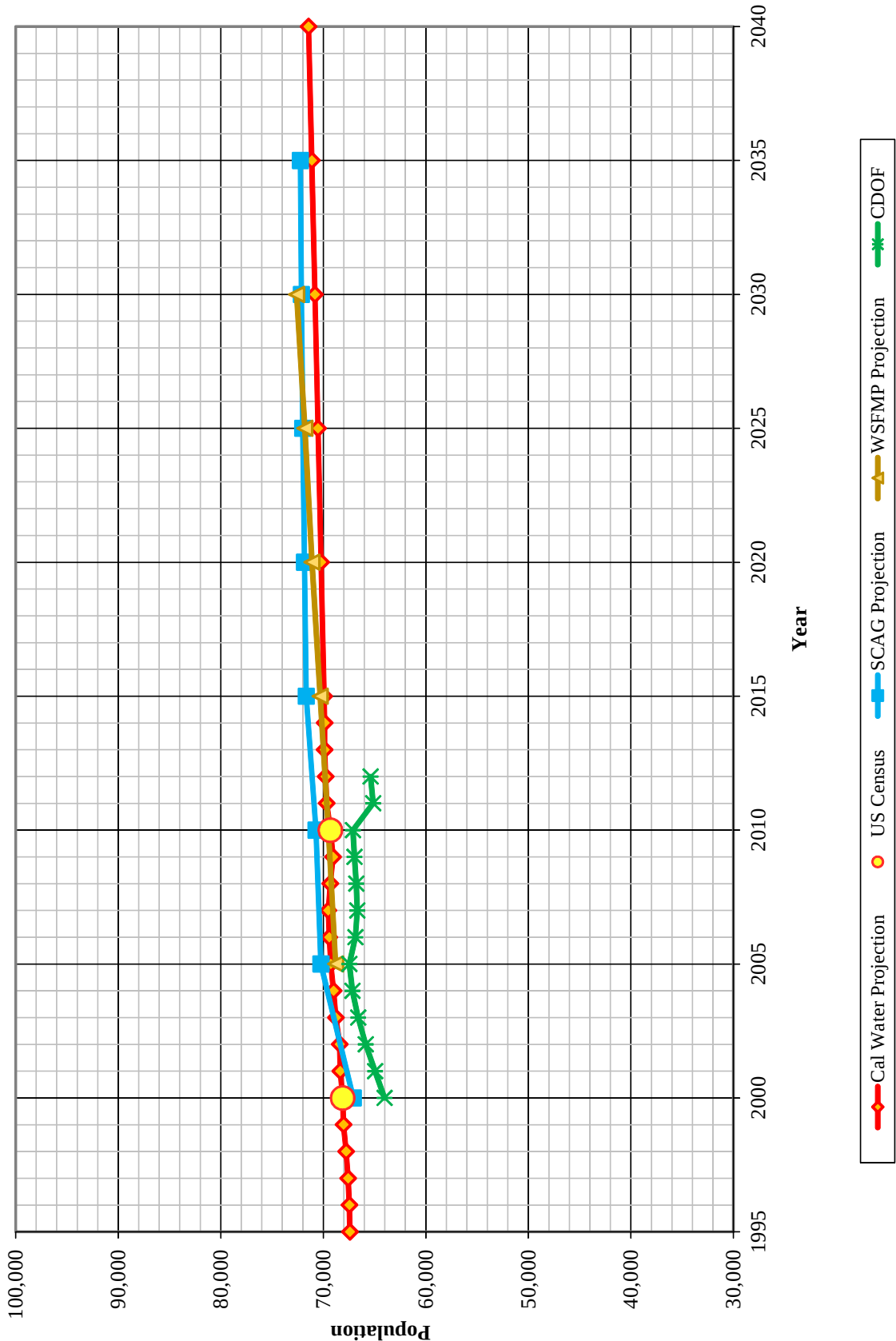
System	US Census 2000 Summary				US Census 2010 Summary				2000-2010 Change			
	Census Tract Blocks	Population	Housing Units (HU)	Density	Census Tract Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change	
Palos Verdes	628	68,113	26,504	2.57	642	69,301	27,375	2.53	101.7%	103.3%	98.5%	
	628	68,113	26,504	2.57	642	69,301	27,375	2.53	101.7%	103.3%	98.5%	

MARPLOT disclaimer: The population and housing number given above are only rough estimates. They are based on the US Census Blocks. Although Census Blocks are polygons, MARPLOT uses the centroid, or center point, rather than the entire polygon. If a Census Block centroid is within any of the MARPLOT selected objects, the population and housing numbers for that block are tallied, even if only part of the block is within the selected object. It is possible for a block not be counted if its centroid is not within selected objects, even though part of the block is within the selected objects.

Housing Projections



Population Projections



California Water Service Company - Palos Verdes District

Water Supply and Demand Analysis and Projections

Population Estimate

Year	US Census		Persons per Housing Unit	Single Family		Multi Family Residential			Flat Rate	
	Population	Housing Units		Residential	Services (DU)	Residential	Units (DU)	Density	Residential	Services (DU)
2000	68,113	26,504	2.570	22,748	146	3,756	25.8	0		
2010	69,301	27,375	2.532	22,703	218	4,672	21.5	0		
	1.7%	3.3%	-1.5%	-0.2%	49.4%	24.4%	-16.8%	0.0%		

	Year	Single Family Residential Services (DU)	Multi Family Residential			Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
			Services	Residential Units (DU)	Unit Density				
^ ACTUAL	1995	22,416	148	3,814	25.8	0	26,230	2.570	67,408
	1996	22,435	148	3,816	25.8	0	26,251	2.570	67,464
	1997	22,481	148	3,816	25.8	0	26,298	2.570	67,583
	1998	22,554	148	3,816	25.8	0	26,370	2.570	67,769
	1999	22,661	148	3,814	25.8	0	26,475	2.570	68,038
	2000	22,748	146	3,756	25.8	0	26,504	2.570	68,113
	2001	22,789	143	3,848	26.9	0	26,636	2.566	68,351
	2002	22,758	144	3,939	27.4	0	26,697	2.562	68,405
	2003	22,850	143	4,031	28.2	0	26,881	2.558	68,773
	2004	22,890	143	4,122	28.8	0	27,013	2.555	69,006
	2005	22,943	143	4,214	29.5	0	27,157	2.551	69,269
	2006	22,952	143	4,305	30.2	0	27,258	2.547	69,422
	2007	22,942	142	4,397	31.0	0	27,339	2.543	69,523
	2008	22,810	182	4,489	24.6	0	27,299	2.539	69,317
2009	22,656	217	4,580	21.1	0	27,236	2.535	69,054	
^ ACTUAL PROJECTED V	2010	22,703	218	4,672	21.5	0	27,375	2.532	69,301
	2011	22,764	220	4,763	21.7	0	27,527	2.532	69,686
	2012	22,779	221	4,778	21.7	0	27,557	2.532	69,762
	2013	22,782	223	4,823	21.7	0	27,605	2.532	69,883
	2014	22,789	222	4,808	21.7	0	27,598	2.532	69,865
	2015	22,798	223	4,823	21.7	0	27,621	2.532	69,924
	2020	22,841	226	4,897	21.7	0	27,738	2.532	70,220
	2025	22,885	230	4,971	21.7	0	27,856	2.532	70,519
	2030	22,928	233	5,047	21.7	0	27,975	2.532	70,821
	2035	22,972	237	5,124	21.7	0	28,096	2.532	71,126
	2040	23,015	240	5,202	21.7	0	28,218	2.532	71,435

Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2011 due to reclassification, afterwards a constant MFR Unit Density is used.

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Sent: Thursday, August 20, 2015 4:12 PM
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- E. Table of population and housing values along with multi-family residential unit density and persons per housing unit density that are employed in this forecast effort.

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If you need a more detailed explanation of these numbers or want to review them with us please feel free to contact me at (408) 367-8340 or by email at tsalzano@calwater.com.

Thank you for your assistance in this effort.

Respectfully,

Thomas A. Salzano

Thomas A. Salzano
Water Resource Planning Supervisor

Danilo Blanus, P.E.
Senior Engineer
CALIFORNIA WATER SERVICE

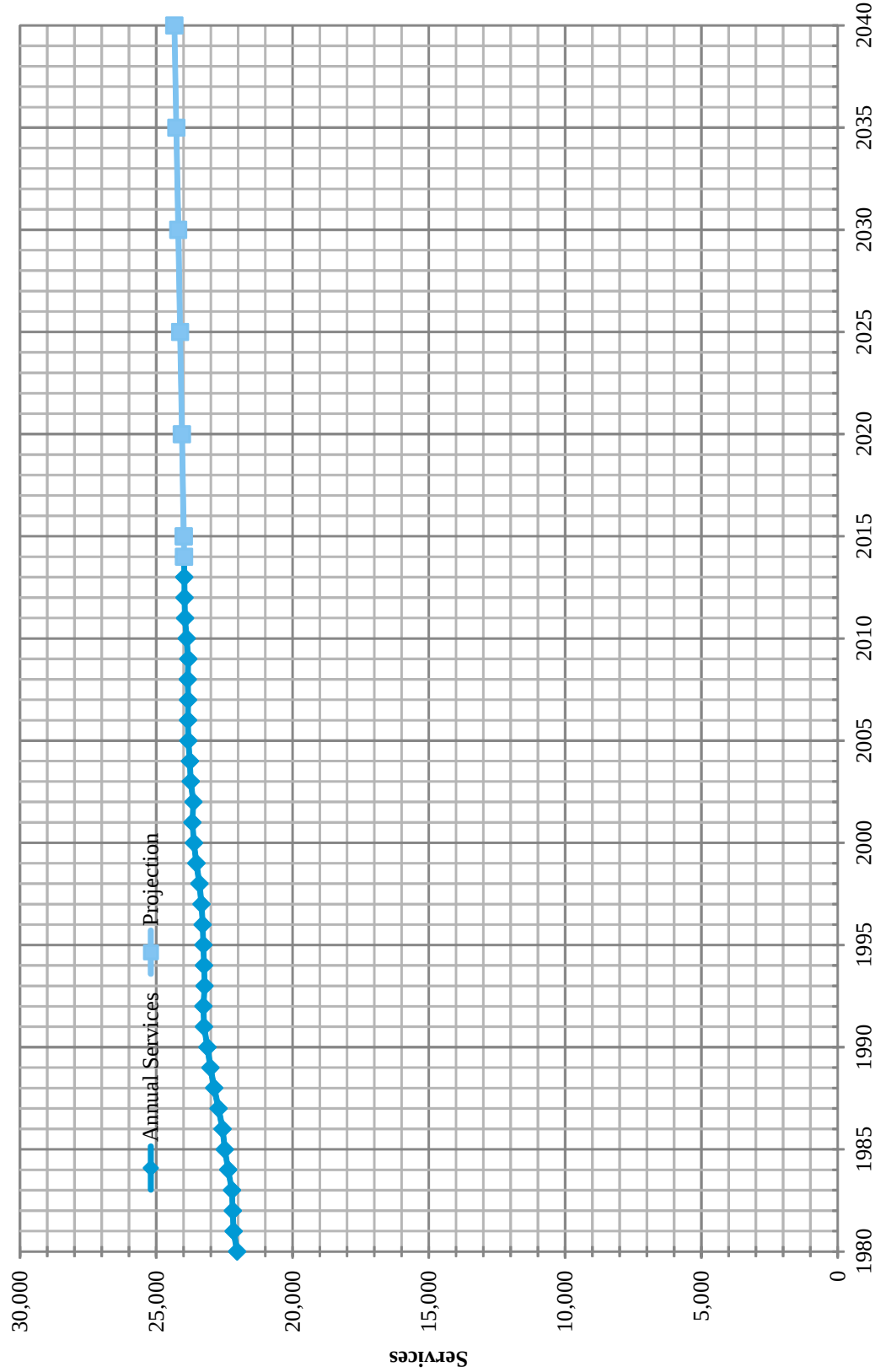
408-367-8387



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Historical & Projected Services



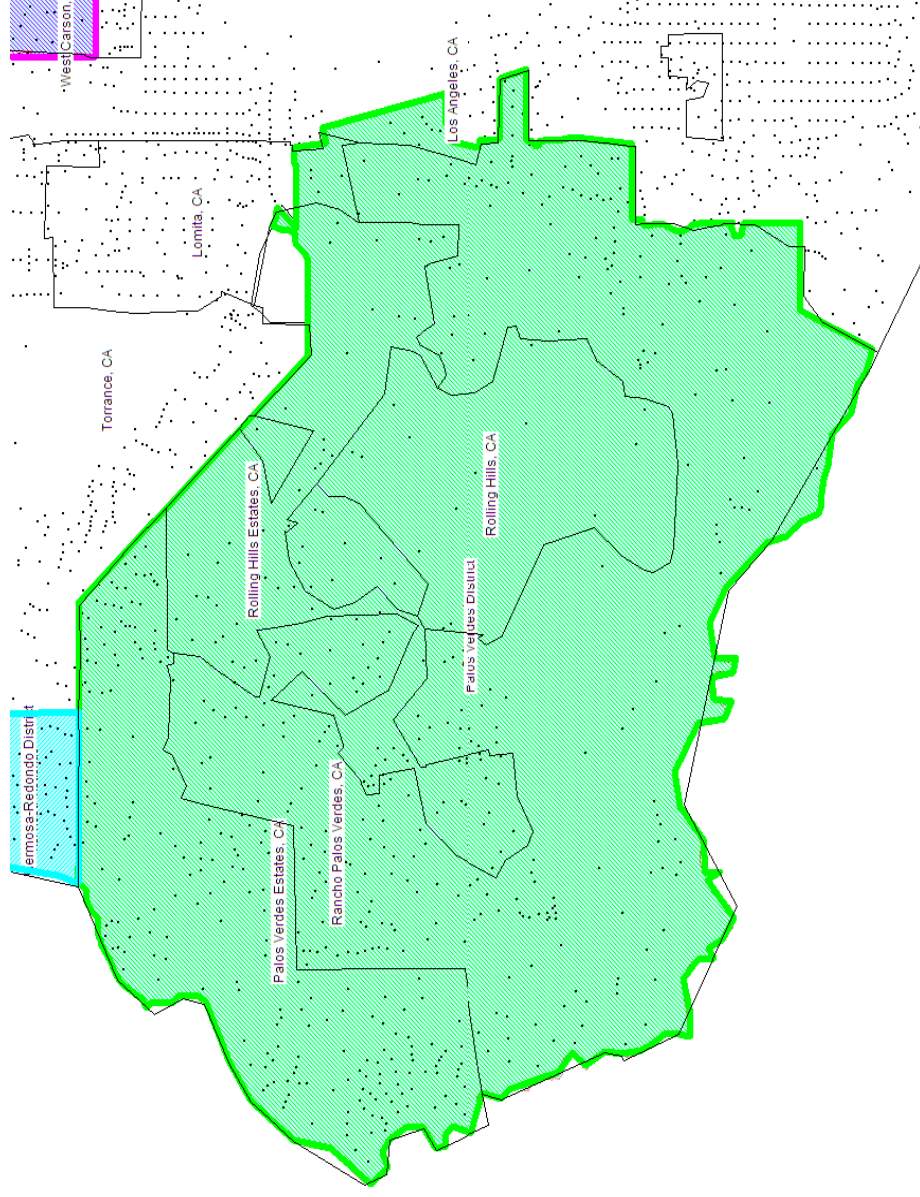
California Water Service Company - Palos Verdes District
Water Supply and Demand Analysis and Projections

Worksheet 8

Customer Category		Selected Trend	Growth Rate	Actual Services				Projected Services					
				2000	2005	2010	Base Year 2014	2015	2020	2025	2030	2035	2040
SFR		SFR_D 15 Yr. Avg.	0.04%	22,748	22,943	22,703	22,789	22,798	22,841	22,885	22,928	22,972	23,015
MFR		MFR_B 5 Yr. Avg.	0.30%	146	143	218	222	223	226	230	233	237	240
COM		COM_A Zero Growth Rate	0.00%	487	495	677	678	678	678	678	678	678	678
IND		IND_A Zero Growth Rate	0.00%	11	10	0	0	0	0	0	0	0	0
GOV		GOV_E 20 Yr. Avg.	1.35%	204	212	267	269	273	292	312	333	356	381
OTH		OTH_A Zero Growth Rate	0.00%	25	24	18	20	20	20	20	20	20	20
TOTAL		Average growth rate 2011-2040	0.06%	23,620	23,826	23,883	23,979	23,992	24,057	24,124	24,193	24,263	24,335

California Water Service Company - Palos Verdes District Water Supply and Demand Analysis and Projections MarPlot Summary

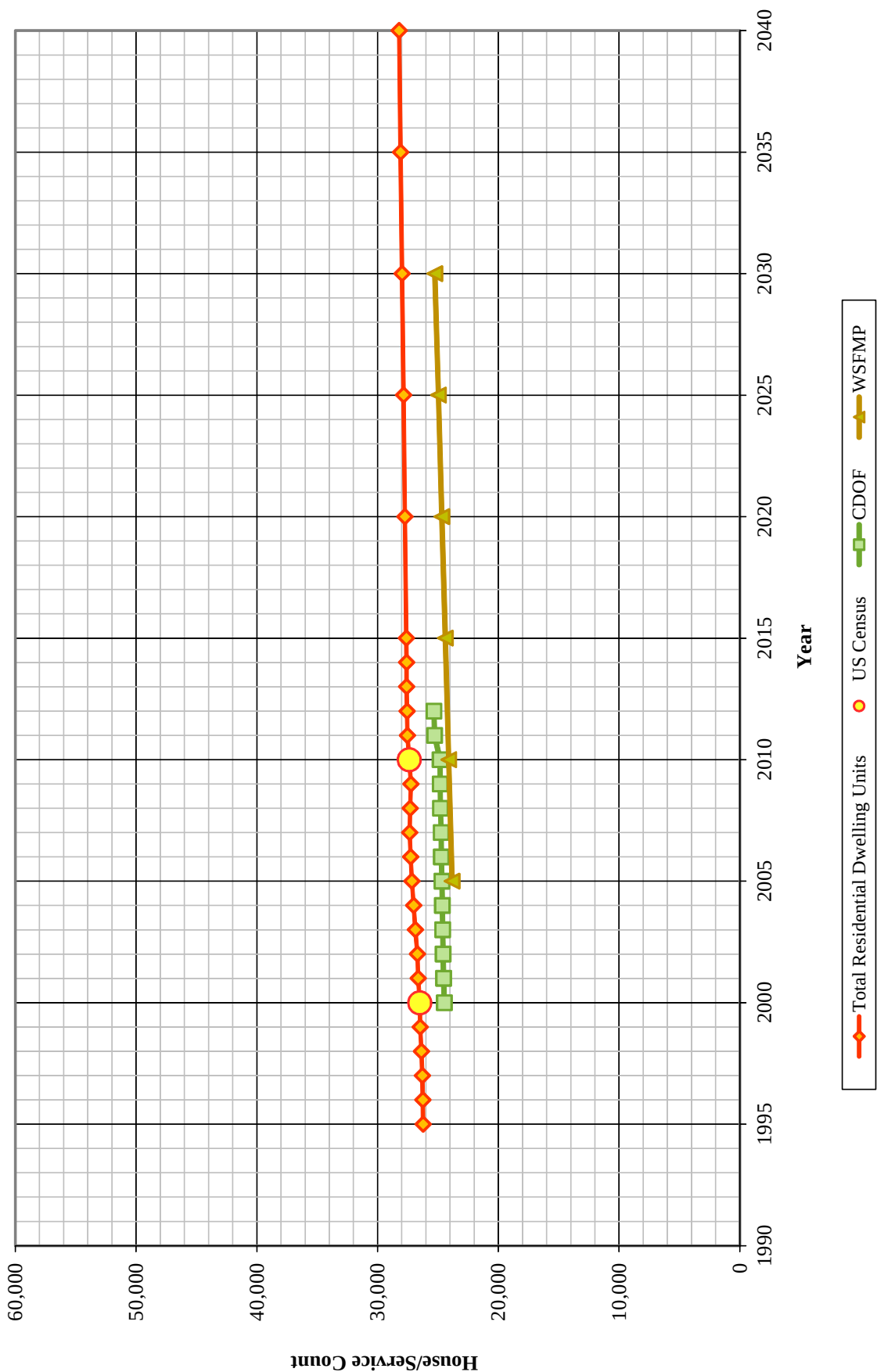
Worksheet 12



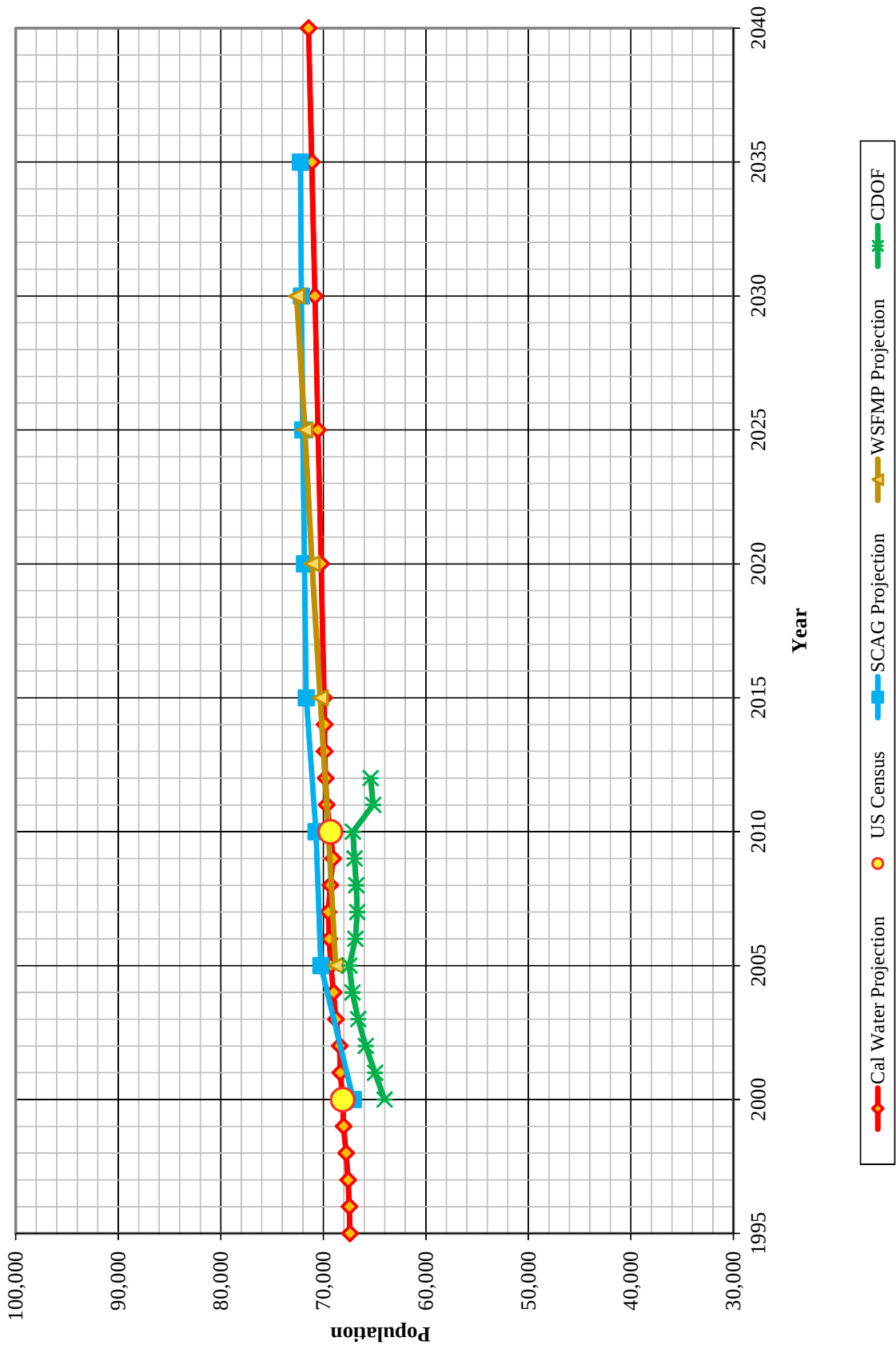
System	US Census 2000 Summary				US Census 2010 Summary				2000-2010 Change			
	Census Tract Blocks	Population	Housing Units (HU)	Density	Census Tract Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change	
Palos Verdes	628	68,113	26,504	2.57	642	69,301	27,375	2.53	101.7%	103.3%	98.5%	
	628	68,113	26,504	2.57	642	69,301	27,375	2.53	101.7%	103.3%	98.5%	

MARPLOT disclaimer: The population and housing number given above are only rough estimates. They are based on the US Census Blocks. Although Census Blocks are polygons, MARPLOT uses the centroid, or center point, rather than the entire polygon. If a Census Block centroid is within any of the MARPLOT selected objects, the population and housing numbers for that block are tallied, even if only part of the block is within the selected object. It is possible for a block not be counted if its centroid is not within selected objects, even though part of the block is within the selected objects.

Housing Projections



Population Projections



California Water Service Company - Palos Verdes District

Water Supply and Demand Analysis and Projections

Population Estimate

Year	US Census		Persons per Housing Unit	Single Family		Multi Family Residential			Flat Rate	
	Population	Housing Units		Residential	Services (DU)	Residential	Units (DU)	Density	Residential	Services (DU)
2000	68,113	26,504	2.570	22,748	146	3,756	25.8	0		
2010	69,301	27,375	2.532	22,703	218	4,672	21.5	0		
	1.7%	3.3%	-1.5%	-0.2%	49.4%	24.4%	-16.8%	0.0%		

	Year	Single Family Residential Services (DU)	Multi Family Residential			Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
			Services	Residential Units (DU)	Unit Density				
^ ACTUAL	1995	22,416	148	3,814	25.8	0	26,230	2.570	67,408
	1996	22,435	148	3,816	25.8	0	26,251	2.570	67,464
	1997	22,481	148	3,816	25.8	0	26,298	2.570	67,583
	1998	22,554	148	3,816	25.8	0	26,370	2.570	67,769
	1999	22,661	148	3,814	25.8	0	26,475	2.570	68,038
	2000	22,748	146	3,756	25.8	0	26,504	2.570	68,113
	2001	22,789	143	3,848	26.9	0	26,636	2.566	68,351
	2002	22,758	144	3,939	27.4	0	26,697	2.562	68,405
	2003	22,850	143	4,031	28.2	0	26,881	2.558	68,773
	2004	22,890	143	4,122	28.8	0	27,013	2.555	69,006
	2005	22,943	143	4,214	29.5	0	27,157	2.551	69,269
	2006	22,952	143	4,305	30.2	0	27,258	2.547	69,422
	2007	22,942	142	4,397	31.0	0	27,339	2.543	69,523
	2008	22,810	182	4,489	24.6	0	27,299	2.539	69,317
2009	22,656	217	4,580	21.1	0	27,236	2.535	69,054	
^ ACTUAL PROJECTED V	2010	22,703	218	4,672	21.5	0	27,375	2.532	69,301
	2011	22,764	220	4,763	21.7	0	27,527	2.532	69,686
	2012	22,779	221	4,778	21.7	0	27,557	2.532	69,762
	2013	22,782	223	4,823	21.7	0	27,605	2.532	69,883
	2014	22,789	222	4,808	21.7	0	27,598	2.532	69,865
	2015	22,798	223	4,823	21.7	0	27,621	2.532	69,924
	2020	22,841	226	4,897	21.7	0	27,738	2.532	70,220
	2025	22,885	230	4,971	21.7	0	27,856	2.532	70,519
	2030	22,928	233	5,047	21.7	0	27,975	2.532	70,821
	2035	22,972	237	5,124	21.7	0	28,096	2.532	71,126
	2040	23,015	240	5,202	21.7	0	28,218	2.532	71,435

Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2011 due to reclassification, afterwards a constant MFR Unit Density is used.

Blanusa, Danilo

From: Blanusa, Danilo
Sent: Thursday, August 20, 2015 4:19 PM
To: 'Greg Grammer (GregG@ci.Rolling-Hills-Estates.ca.us)'
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Trejo, Daniel; Sorensen, Ronald
Subject: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Palos Verdes District
Attachments: Letter to City Planning Officials - Attachmet - PV.pdf

Tracking:	Recipient	Delivery
	'Greg Grammer (GregG@ci.Rolling-Hills-Estates.ca.us)'	
	Salzano, Tom	Delivered: 8/20/2015 4:19 PM
	Bolzowski, Michael R.	Delivered: 8/20/2015 4:19 PM
	Keck, Jonathan	Delivered: 8/20/2015 4:19 PM
	Trejo, Daniel	Delivered: 8/20/2015 4:19 PM
	Sorensen, Ronald	Delivered: 8/20/2015 4:19 PM

Dear Mr. Grammer,

Pursuant to California Water Code, Division 6, Part 2.6, Sections 10610 through 10656, California Water Service is in the process of preparing the required 2015 update of our Urban Water Management Plans. These plans are required to be updated every five (5) years for each of our services areas (Districts). As you know our Palos Verdes District provides water service to the City of Rolling Hills Estates.

The purpose of this communication is to solicit your assistance in reviewing and advising us with respect to one of the key elements of the plan, which is the development of a growth forecast for our district. This growth forecast is conducted based on growth in each customer service classification applicable to a particular district, which typically include:

- Single family residential
- Multi-family residential
- Commercial
- Industrial
- Government (City or County parks, median strips, landscaping and schools)
- Dedicated Irrigation (rare)
- Other (temporary construction meters)

The forecasted growth rates are combined with a demand per service factor applicable to each customer class to determine the future water demands for the district. These growth factors are adjustable and we want to review them with you so that we are consistent with anticipated growth that your planning efforts forecast. If adjustments are necessary we can do them now and avoid conflicts and confusion later in this process.

Some specific information regarding our approach to forecasting customer service growth is detailed as follows:

- **Residential** – Typically two residential customer service categories represent the vast majority of the service counts as well as subsequent water sales or demand in our districts. Cal Water considers both single family and multi-family residential services independently as individual classes, but combines them together in order to assess population growth and housing unit growth. While we use historical trends in the establishment for the growth rates for these two customer classes, we also analyze census data for population and housing factors and compare our forecast results for these two parameters with

available data from City General Plans, as well as County Economic Forecast data and Regional government association forecasts as a reality or appropriateness check of our results.

- **Commercial & Industrial** – Historical trend is a key influence in this customer class, however where we have seen negative trends in recent years for these categories due to the economic downturn, we typically employ either a zero rate of growth or a small, reasonable positive rate of growth. We have also undertaken during the last ten years some reassessment of customer service classifications that has resulted in reallocation of some customer service accounts between various classes. This reallocation, which included commercial, industrial, multi-family residential and in some cases government services, has made the analysis of growth a bit more difficult.
- **Government** – Growth trends are generally parallel to that of the residential sector, so we verify that our rate of grow is not dramatically out-of-sequence with the overall community.
- **Other** – The use of temporary-assigned construction meters varies considerably from year to year, and can represent considerable water demand. In this case, we select a growth rate that is stable, yet reflects the overall growth of the community.

We have included with this communication a set of tables and graphs (see attachment) that illustrate the parameters that influence the growth forecast as currently set up for this district. These include:

- A. The historical and projected service data in both graph and table form
- B. The 2000 and 2010 Census data for the districts service area
- C. Housing projection chart comparing Cal Water's forecast (always in red) with those from other organizations
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Thank you for your assistance in this effort.

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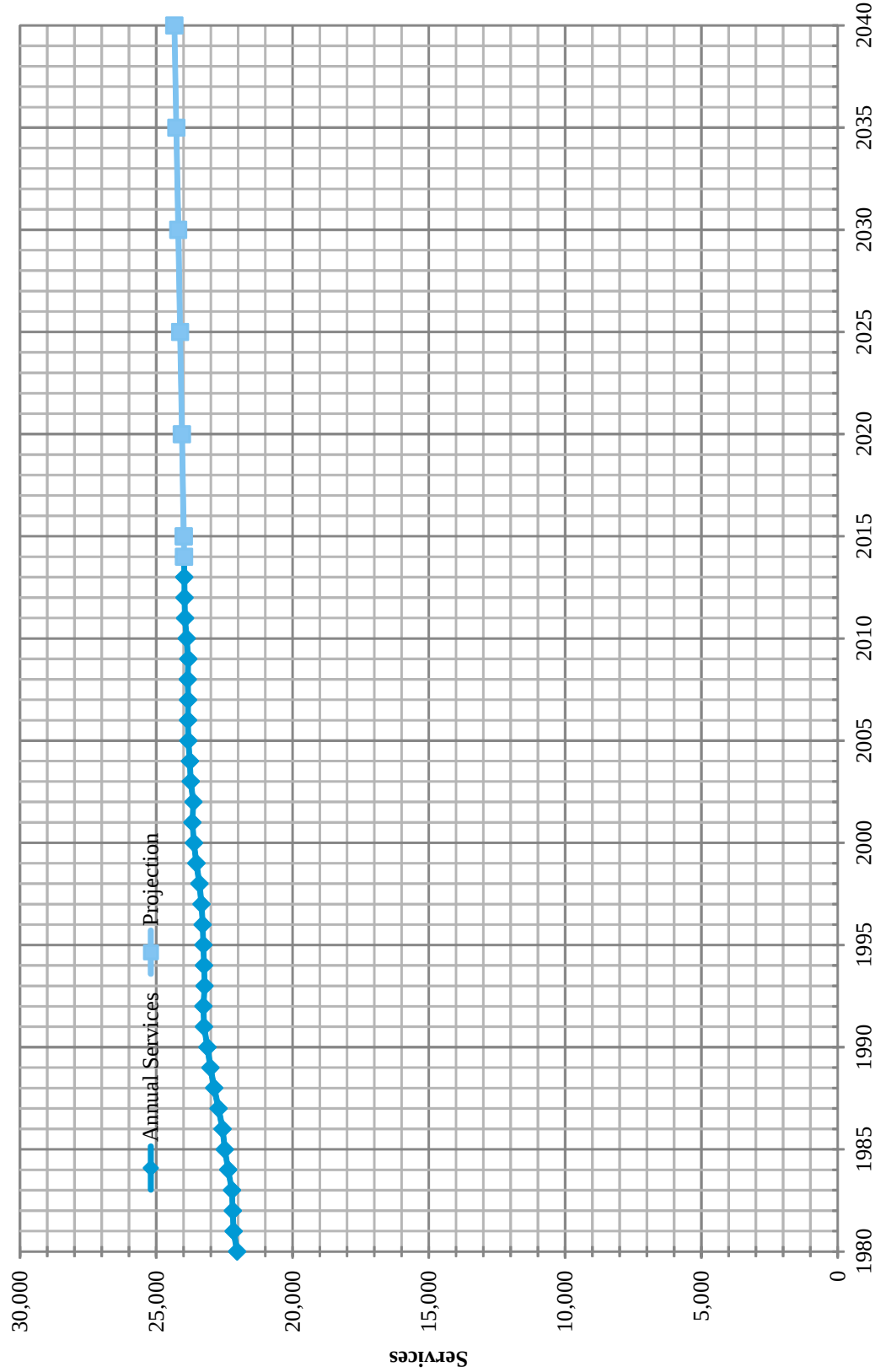
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Historical & Projected Services



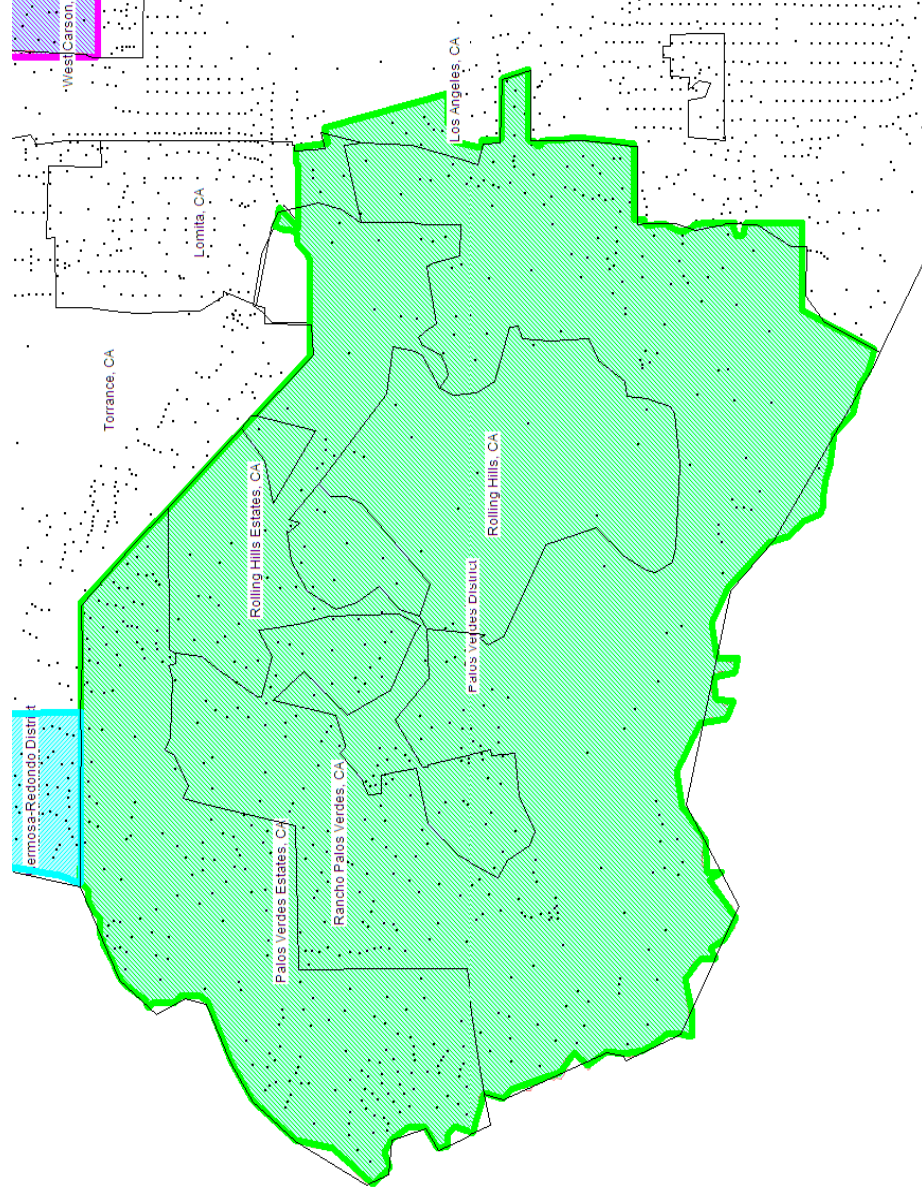
California Water Service Company - Palos Verdes District
Water Supply and Demand Analysis and Projections

Worksheet 8

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TOTAL	Average growth rate 2011-2040		0.06%	23,620	23,826	23,883	23,979	23,992	24,057	24,124	24,193	24,263	24,335	

California Water Service Company - Palos Verdes District Water Supply and Demand Analysis and Projections MarPlot Summary

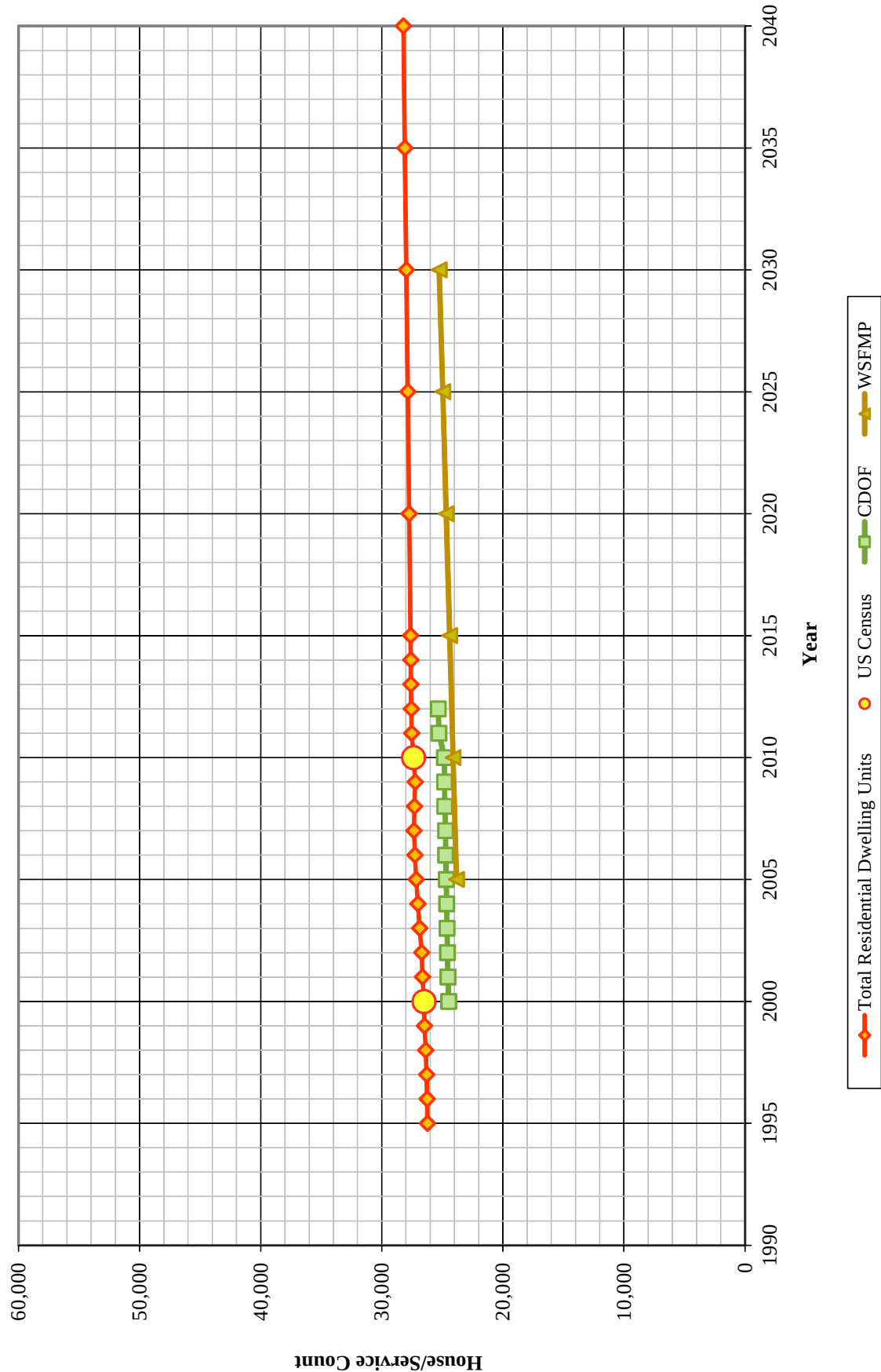
Worksheet 12



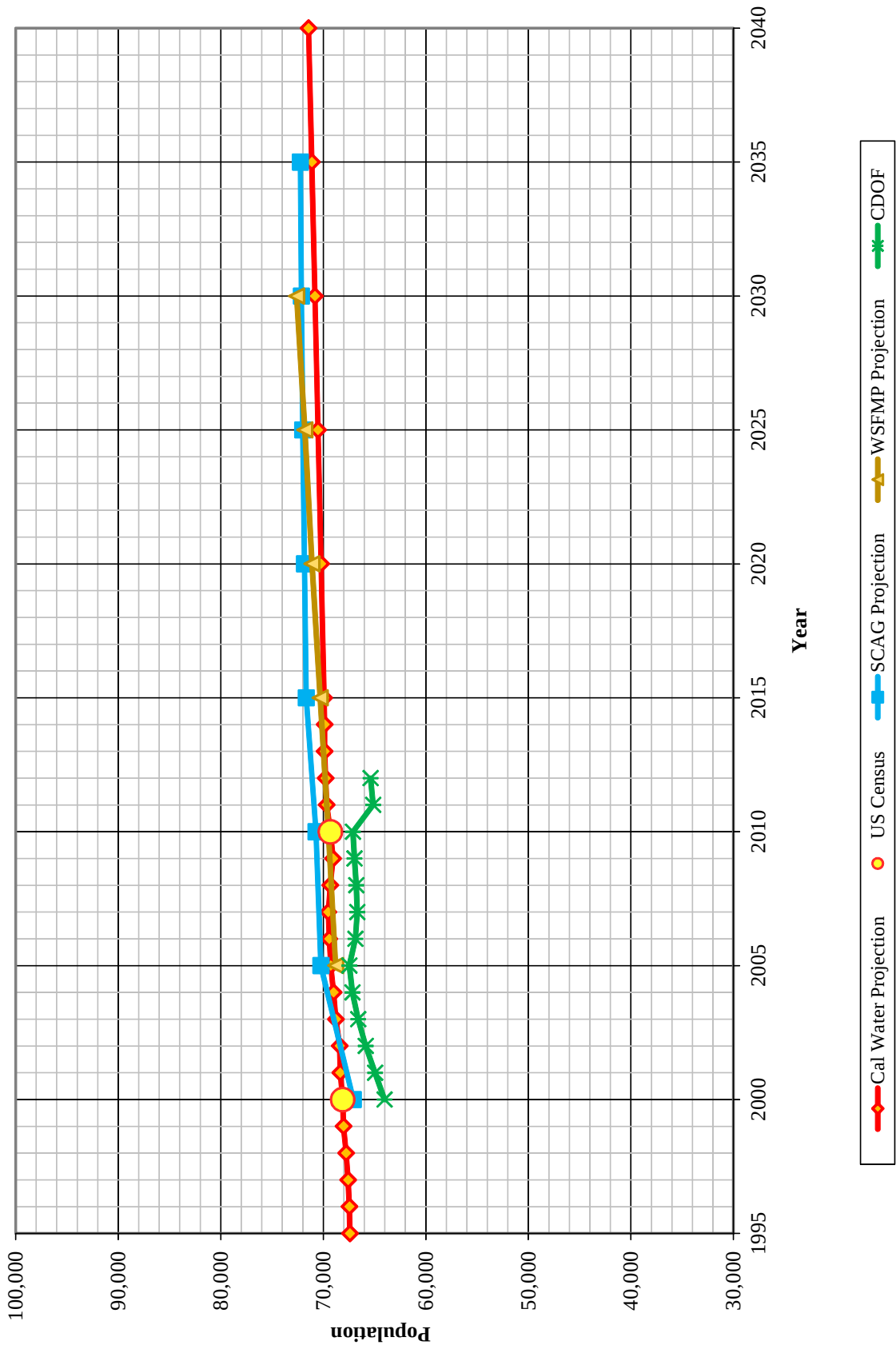
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Palos Verdes	628	68,113	26,504	2.57	642	69,301	27,375	2.53	101.7%	103.3%	98.5%	
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Housing Projections



Population Projections



California Water Service Company - Palos Verdes District

Water Supply and Demand Analysis and Projections

Population Estimate

Year	US Census		Persons per Housing Unit	Single Family		Multi Family Residential		Flat Rate	
	Population	Housing Units		Residential Services (DU)	Residential Units (DU)	Residential Units (DU)	Unit Density	Residential Services (DU)	Residential Services (DU)
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2010	69,301	27,375	2.532	22,703	4,672	218	21.5	21.8	0
	1.7%	3.3%	-1.5%	-0.2%	24.4%	49.4%	-16.8%		0.0%

Year	Single Family Residential Services (DU)	Multi Family Residential		Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
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2035	22,972	237	5,124	0	28,096	2.532	71,126
2040	23,015	240	5,202	0	28,218	2.532	71,435
ACTUAL							
PROJECTED							
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Blanusa, Danilo

From: Blanusa, Danilo
Sent: Thursday, August 20, 2015 4:22 PM
To: 'Adam Arika (aariki@dpw.lacounty.gov)'
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Trejo, Daniel; Sorensen, Ronald
Subject: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Palos Verdes District
Attachments: Letter to City Planning Officials - Attachmet - PV.pdf

Tracking:	Recipient	Delivery
	'Adam Arika (aariki@dpw.lacounty.gov)'	
	Salzano, Tom	Delivered: 8/20/2015 4:22 PM
	Bolzowski, Michael R.	Delivered: 8/20/2015 4:22 PM
	Keck, Jonathan	Delivered: 8/20/2015 4:22 PM
	Trejo, Daniel	Delivered: 8/20/2015 4:22 PM
	Sorensen, Ronald	Delivered: 8/20/2015 4:22 PM

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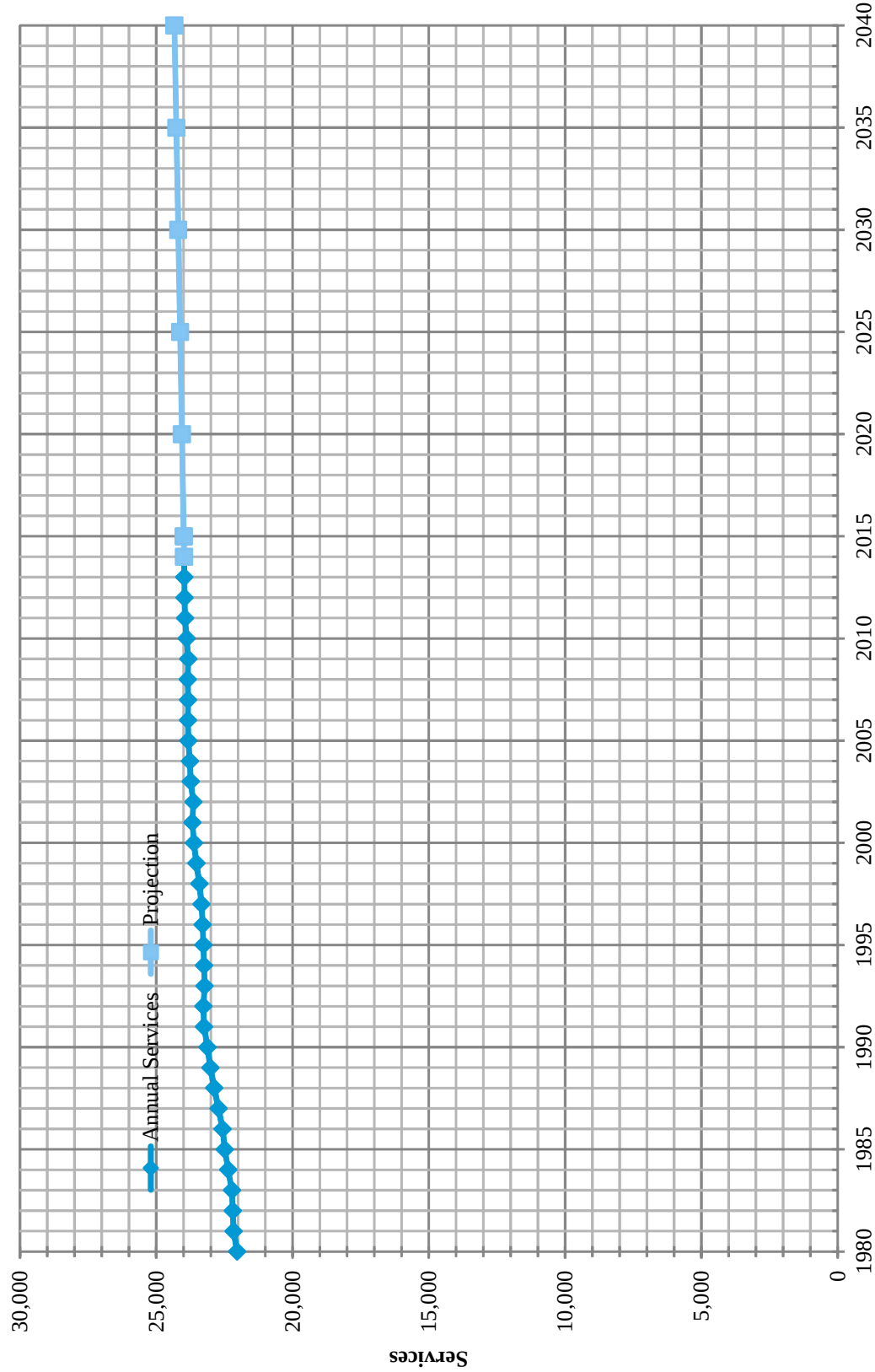
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Historical & Projected Services



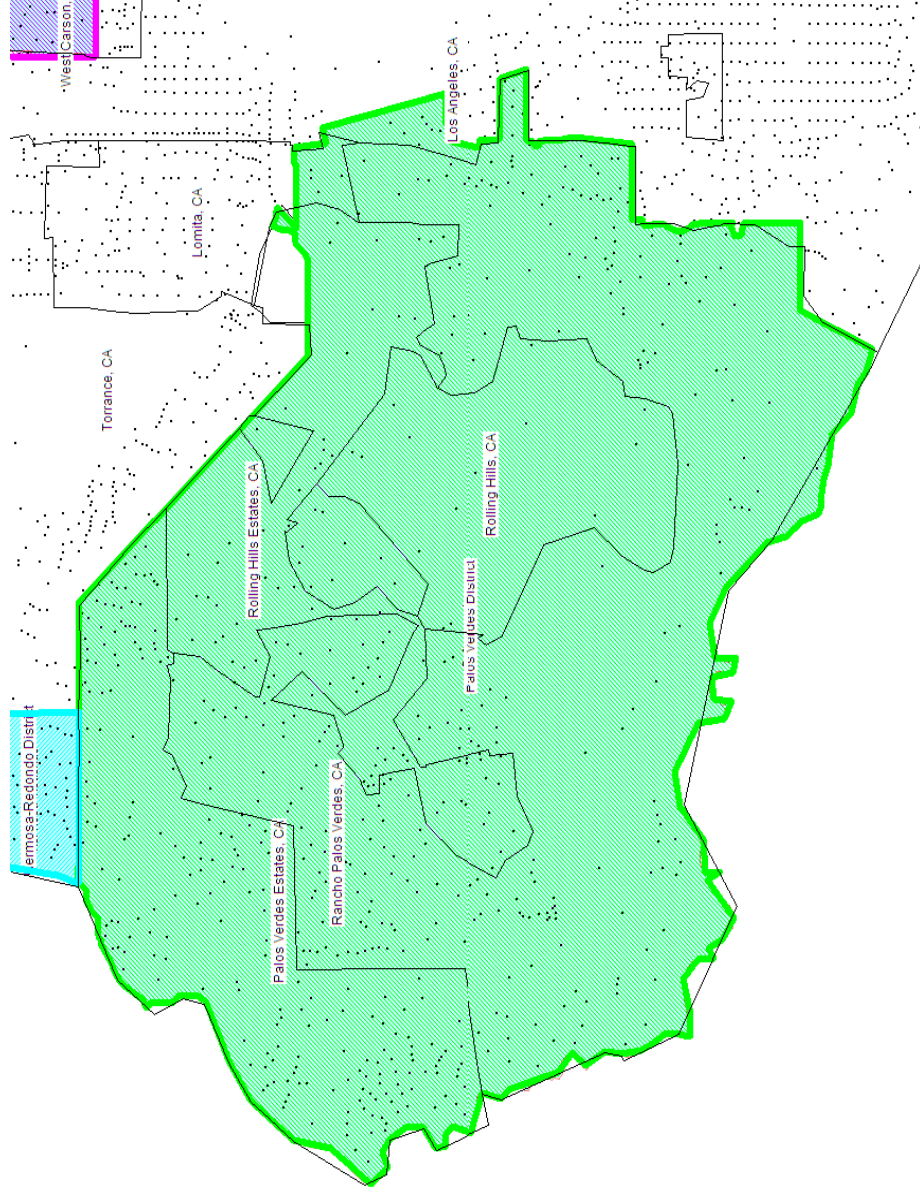
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Water Supply and Demand Analysis and Projections

Worksheet 8

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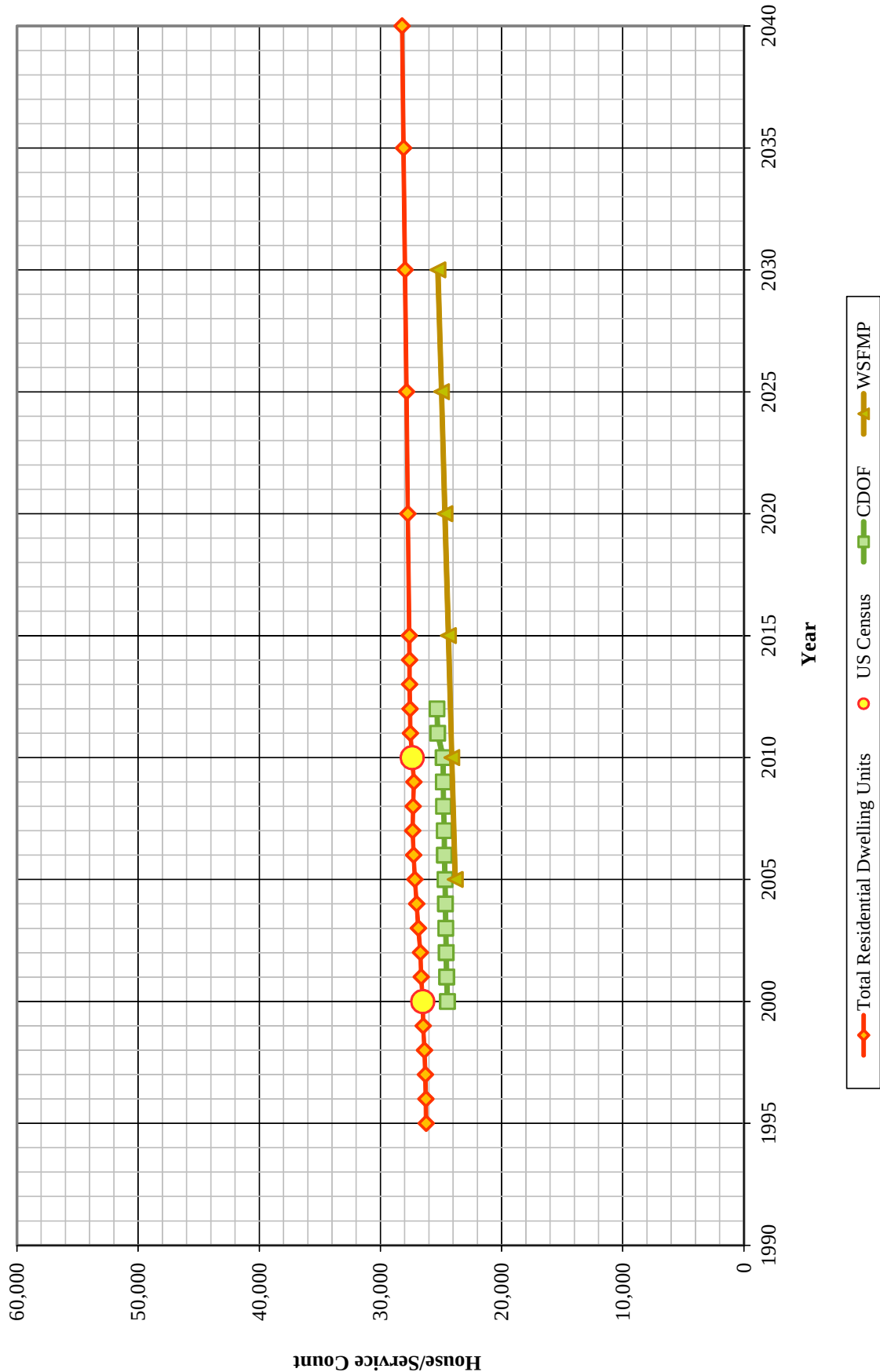
Worksheet 12



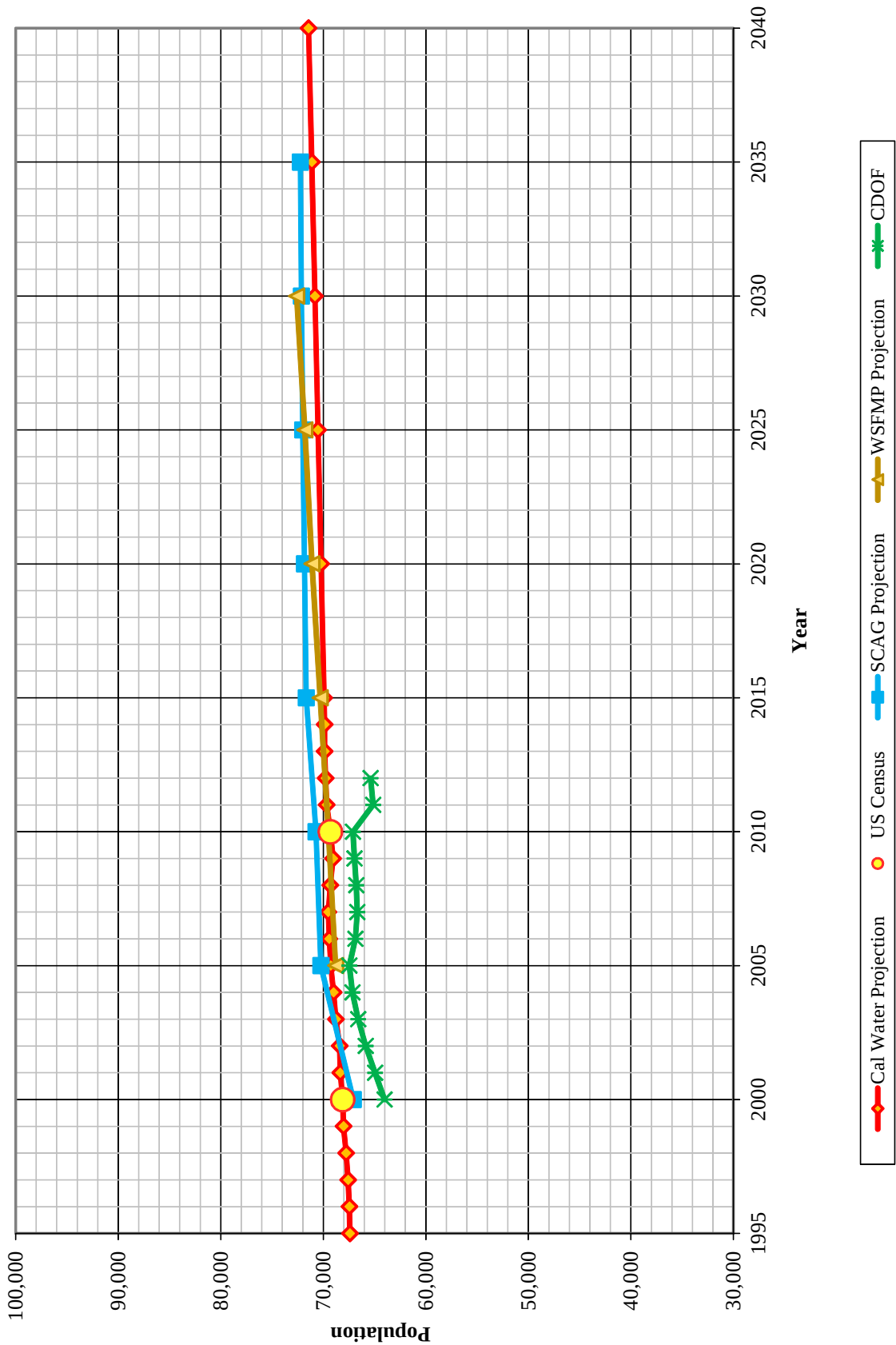
System	US Census 2000 Summary				US Census 2010 Summary				2000-2010 Change			
	Census Tract Blocks	Population	Housing Units (HU)	Density	Census Tract Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change	
Palos Verdes	628	68,113	26,504	2.57	642	69,301	27,375	2.53	101.7%	103.3%	98.5%	
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MARPLOT disclaimer: The population and housing number given above are only rough estimates. They are based on the US Census Blocks. Although Census Blocks are polygons, MARPLOT uses the centroid, or center point, rather than the entire polygon. If a Census Block centroid is within any of the MARPLOT selected objects, the population and housing numbers for that block are tallied, even if only part of the block is within the selected object. It is possible for a block not be counted if its centroid is not within selected objects, even though part of the block is within the selected objects.

Housing Projections



Population Projections



California Water Service Company - Palos Verdes District

Water Supply and Demand Analysis and Projections

Population Estimate

Year	US Census		Persons per Housing Unit	Single Family		Multi Family Residential		Flat Rate	
	Population	Housing Units		Residential Services (DU)	Services	Residential Units (DU)	Unit Density	Residential Services (DU)	Residential Services (DU)
2000	68,113	26,504	2.570	22,748	146	3,756	25.8	0	0
2010	69,301	27,375	2.532	22,703	218	4,672	21.5	21.8	0
	1.7%	3.3%	-1.5%	-0.2%	49.4%	24.4%	-16.8%		0.0%

Year	Single Family Residential Services (DU)	Multi Family Residential		Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
		Services	Residential Units (DU)				
1995	22,416	148	3,814	0	26,230	2.570	67,408
1996	22,435	148	3,816	0	26,251	2.570	67,464
1997	22,481	148	3,816	0	26,298	2.570	67,583
1998	22,554	148	3,816	0	26,370	2.570	67,769
1999	22,661	148	3,814	0	26,475	2.570	68,038
2000	22,748	146	3,756	0	26,504	2.570	68,113
2001	22,789	143	3,848	0	26,636	2.566	68,351
2002	22,758	144	3,939	0	26,697	2.562	68,405
2003	22,850	143	4,031	0	26,881	2.558	68,773
2004	22,890	143	4,122	0	27,013	2.555	69,006
2005	22,943	143	4,214	0	27,157	2.551	69,269
2006	22,952	143	4,305	0	27,258	2.547	69,422
2007	22,942	142	4,397	0	27,339	2.543	69,523
2008	22,810	182	4,489	0	27,299	2.539	69,317
2009	22,656	217	4,580	0	27,236	2.535	69,054
2010	22,703	218	4,672	0	27,375	2.532	69,301
2011	22,764	220	4,763	0	27,527	2.532	69,686
2012	22,779	221	4,778	0	27,557	2.532	69,762
2013	22,782	223	4,823	0	27,605	2.532	69,883
2014	22,789	222	4,808	0	27,598	2.532	69,865
2015	22,798	223	4,823	0	27,621	2.532	69,924
2020	22,841	226	4,897	0	27,738	2.532	70,220
2025	22,885	230	4,971	0	27,856	2.532	70,519
2030	22,928	233	5,047	0	27,975	2.532	70,821
2035	22,972	237	5,124	0	28,096	2.532	71,126
2040	23,015	240	5,202	0	28,218	2.532	71,435
ACTUAL							
PROJECTED							
ACTUAL							
PROJECTED							

Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2011 due to reclassification, afterwards a constant MFR Unit Density is used.

Blanusa, Danilo

From: Blanusa, Danilo
Sent: Tuesday, August 25, 2015 9:03 AM
To: 'Raymond Cruz (rcruz@cityofrh.net)'
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Trejo, Daniel; Sorensen, Ronald
Subject: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Palos Verdes District
Attachments: Letter to City Planning Officials - Attachmet - PV.PDF

Tracking:	Recipient	Delivery
	'Raymond Cruz (rcruz@cityofrh.net)'	
	Salzano, Tom	Delivered: 8/25/2015 9:03 AM
	Bolzowski, Michael R.	Delivered: 8/25/2015 9:03 AM
	Keck, Jonathan	Delivered: 8/25/2015 9:03 AM
	Trejo, Daniel	Delivered: 8/25/2015 9:03 AM
	Sorensen, Ronald	Delivered: 8/25/2015 9:03 AM

Dear Mr. Cruz,

Pursuant to California Water Code, Division 6, Part 2.6, Sections 10610 through 10656, California Water Service is in the process of preparing the required 2015 update of our Urban Water Management Plans. These plans are required to be updated every five (5) years for each of our services areas (Districts). As you know our Palos Verdes District provides water service to the City of Rolling Hills.

The purpose of this communication is to solicit your assistance in reviewing and advising us with respect to one of the key elements of the plan, which is the development of a growth forecast for our district. This growth forecast is conducted based on growth in each customer service classification applicable to a particular district, which typically include:

- Single family residential
- Multi-family residential
- Commercial
- Industrial
- Government (City or County parks, median strips, landscaping and schools)
- Dedicated Irrigation (rare)
- Other (temporary construction meters)

The forecasted growth rates are combined with a demand per service factor applicable to each customer class to determine the future water demands for the district. These growth factors are adjustable and we want to review them with you so that we are consistent with anticipated growth that your planning efforts forecast. If adjustments are necessary we can do them now and avoid conflicts and confusion later in this process.

Some specific information regarding our approach to forecasting customer service growth is detailed as follows:

- **Residential** – Typically two residential customer service categories represent the vast majority of the service counts as well as subsequent water sales or demand in our districts. Cal Water considers both single family and multi-family residential services independently as individual classes, but combines them together in order to assess population growth and housing unit growth. While we use historical trends in the establishment for the growth rates for these two customer classes, we also analyze census data for population and housing factors and compare our forecast results for these two parameters with

available data from City General Plans, as well as County Economic Forecast data and Regional government association forecasts as a reality or appropriateness check of our results.

- **Commercial & Industrial** – Historical trend is a key influence in this customer class, however where we have seen negative trends in recent years for these categories due to the economic downturn, we typically employ either a zero rate of growth or a small, reasonable positive rate of growth. We have also undertaken during the last ten years some reassessment of customer service classifications that has resulted in reallocation of some customer service accounts between various classes. This reallocation, which included commercial, industrial, multi-family residential and in some cases government services, has made the analysis of growth a bit more difficult.
- **Government** – Growth trends are generally parallel to that of the residential sector, so we verify that our rate of grow is not dramatically out-of-sequence with the overall community.
- **Other** – The use of temporary-assigned construction meters varies considerably from year to year, and can represent considerable water demand. In this case, we select a growth rate that is stable, yet reflects the overall growth of the community.

We have included with this communication a set of tables and graphs (see attachment) that illustrate the parameters that influence the growth forecast as currently set up for this district. These include:

- A. The historical and projected service data in both graph and table form
- B. The 2000 and 2010 Census data for the districts service area
- C. Housing projection chart comparing Cal Water's forecast (always in red) with those from other organizations
- D. Population projection chart comparing Cal Water's forecast (always in red) with those from other organizations
- E. Table of population and housing values along with multi-family residential unit density and persons per housing unit density that are employed in this forecast effort.

Please note that the 2015 data, which we need to include in our finished forecast, is not yet final, and some minor fluctuation of these values is possible.

Please examine these documents to determine if you concur with our forecasted housing and population numbers. It would be greatly appreciated if you could, by **September 11, 2015**, provide us with an indication of your support or in the case you do not agree with our forecast a reason why and the appropriate rate or growth pattern that we should employ. **If I do not hear back from you by the end of business (EOB) on the above date I will assume that you concur with our forecast.**

If you need a more detailed explanation of these numbers or want to review them with us please feel free to contact me at (408) 367-8340 or by email at tsalzano@calwater.com.

Thank you for your assistance in this effort.

Respectfully,

Thomas A. Salzano

Thomas A. Salzano
Water Resource Planning Supervisor

Danilo Blanus, P.E.
Senior Engineer
CALIFORNIA WATER SERVICE

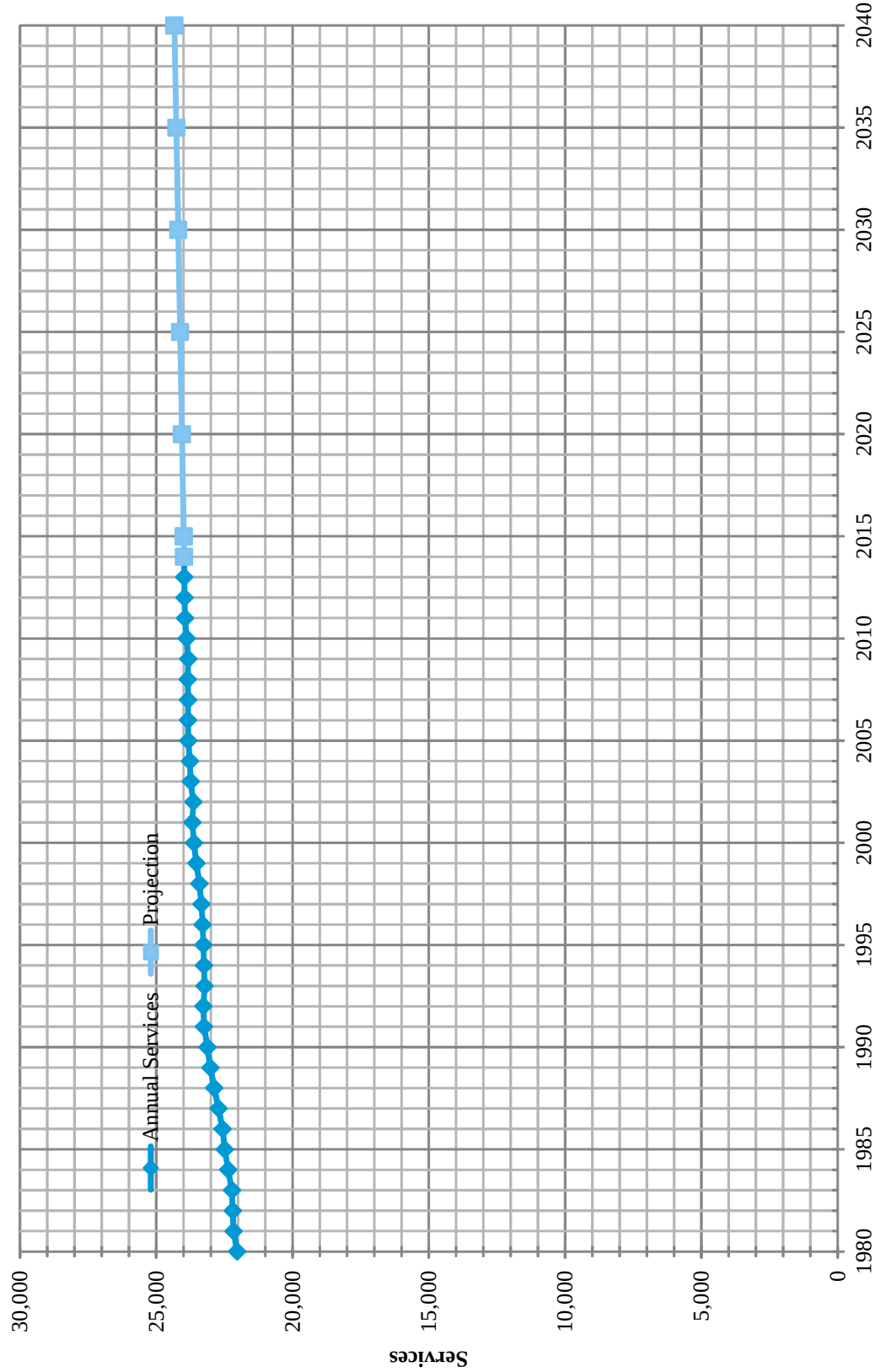
408-367-8387



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Historical & Projected Services



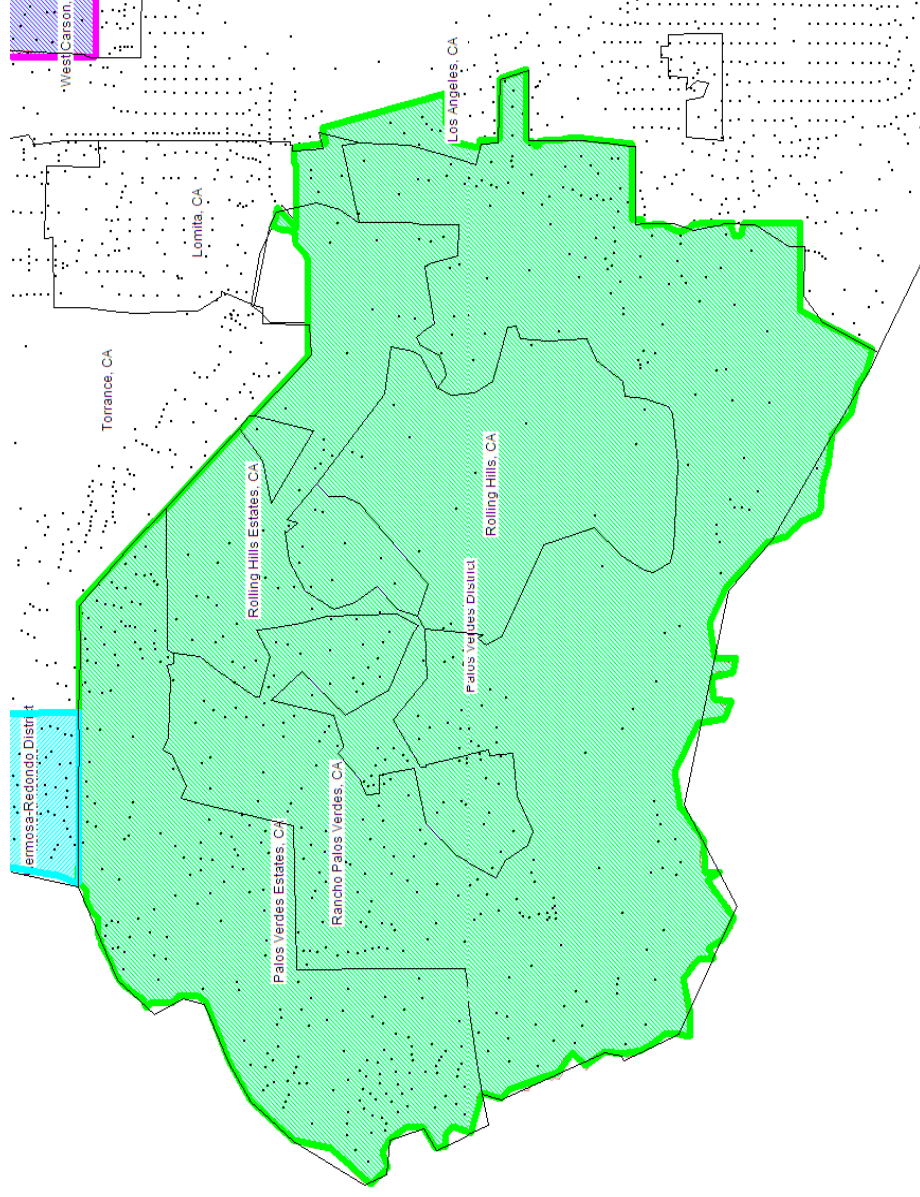
California Water Service Company - Palos Verdes District
Water Supply and Demand Analysis and Projections

Worksheet 8

Customer Category	Selected Trend		Growth Rate	Actual Services				Projected Services					
				2000	2005	2010	Base Year	2014	2015	2020	2025	2030	2035
SFR	SFR_D	15 Yr. Avg.	0.04%	22,748	22,943	22,703	22,789	22,798	22,841	22,885	22,928	22,972	23,015
MFR	MFR_B	5 Yr. Avg.	0.30%	146	143	218	222	223	226	230	233	237	240
COM	COM_A	Zero Growth Rate	0.00%	487	495	677	678	678	678	678	678	678	678
IND	IND_A	Zero Growth Rate	0.00%	11	10	0	0	0	0	0	0	0	0
GOV	GOV_E	20 Yr. Avg.	1.35%	204	212	267	269	273	292	312	333	356	381
OTH	OTH_A	Zero Growth Rate	0.00%	25	24	18	20	20	20	20	20	20	20
TOTAL	Average growth rate 2011-2040		0.06%	23,620	23,826	23,883	23,979	23,992	24,057	24,124	24,193	24,263	24,335

California Water Service Company - Palos Verdes District Water Supply and Demand Analysis and Projections MarPlot Summary

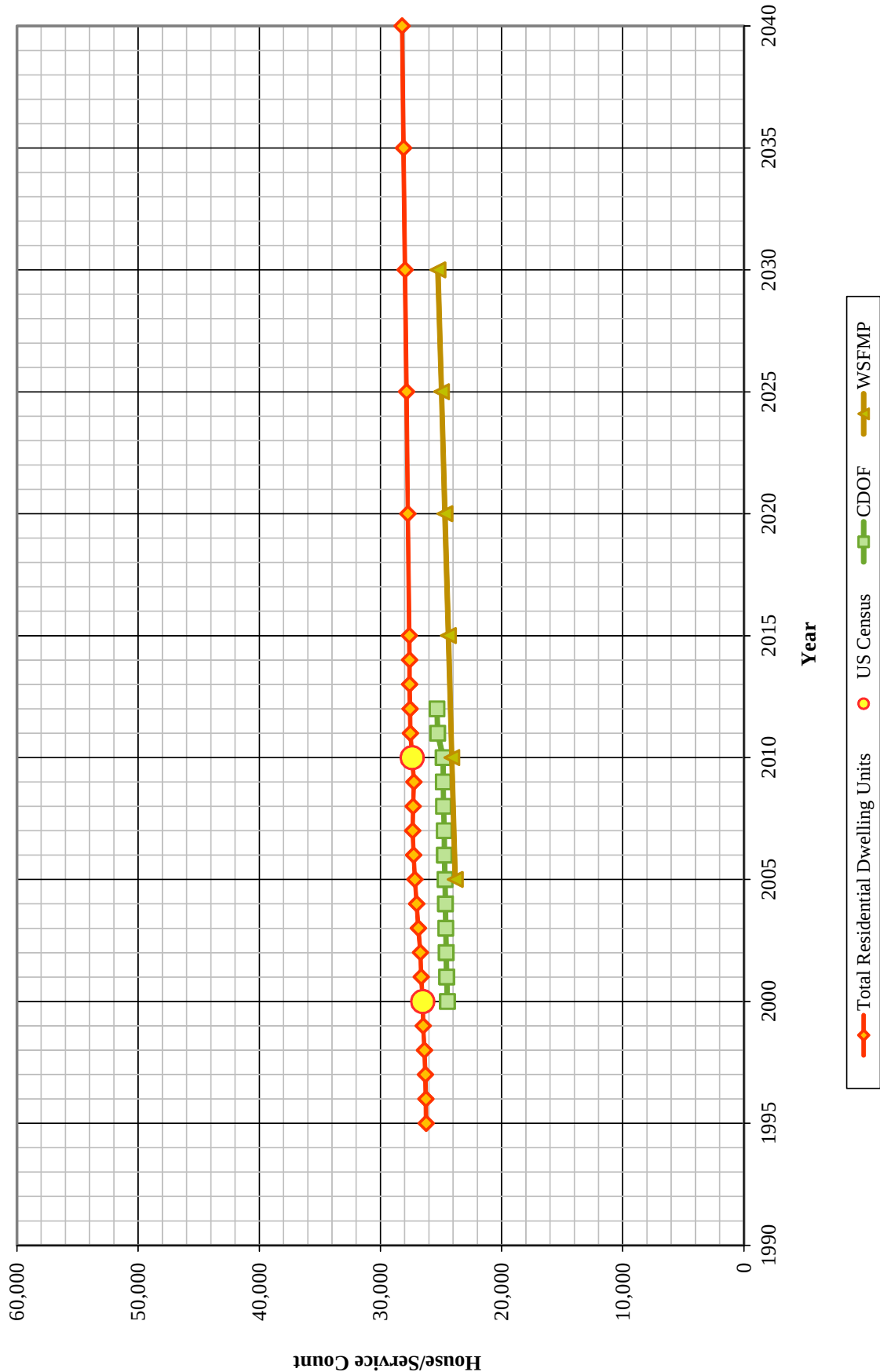
Worksheet 12



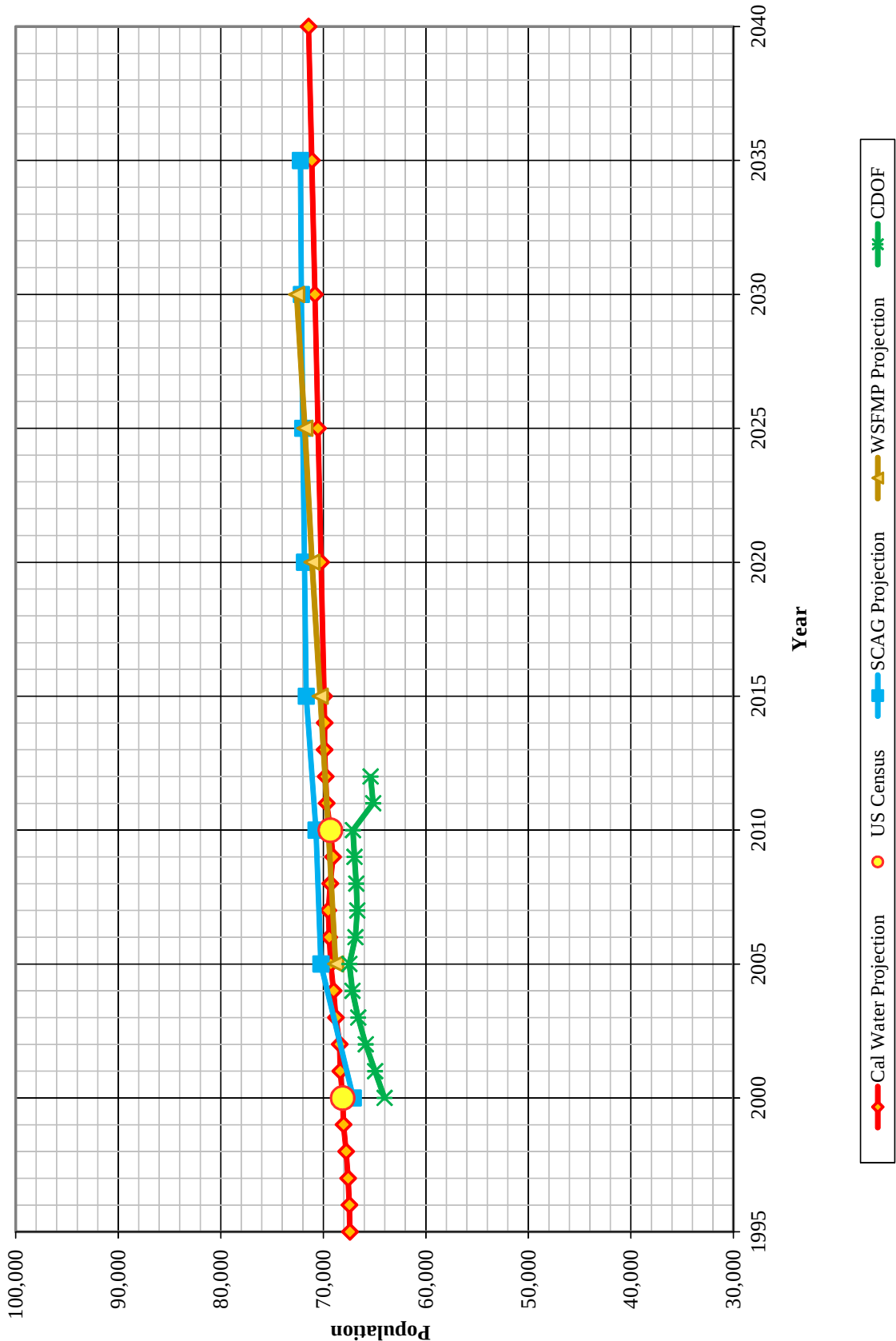
System	US Census 2000 Summary				US Census 2010 Summary				2000-2010 Change			
	Census Tract Blocks	Population	Housing Units (HU)	Density	Census Tract Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change	
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MARPLOT disclaimer: The population and housing number given above are only rough estimates. They are based on the US Census Blocks. Although Census Blocks are polygons, MARPLOT uses the centroid, or center point, rather than the entire polygon. If a Census Block centroid is within any of the MARPLOT selected objects, the population and housing numbers for that block are tallied, even if only part of the block is within the selected object. It is possible for a block not be counted if its centroid is not within selected objects, even though part of the block is within the selected objects.

Housing Projections



Population Projections



California Water Service Company - Palos Verdes District

Water Supply and Demand Analysis and Projections

Population Estimate

Year	US Census		Persons per Housing Unit	Single Family Residential		Multi Family Residential		Flat Rate	
	Population	Housing Units		Residential		Residential		Residential	
				Services (DU)	Services	Units (DU)	Density	Services (DU)	Density
2000	68,113	26,504	2.570	22,748	146	3,756	25.8	0	
2010	69,301	27,375	2.532	22,703	218	4,672	21.5	0	
	1.7%	3.3%	-1.5%	-0.2%	49.4%	24.4%	16.8%	0.0%	

Year	Single Family Residential Services (DU)	Multi Family Residential			Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
		Services	Residential Units (DU)	Unit Density				
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2035	22,972	237	5,124	21.7	0	28,096	2.532	71,126
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Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2011 due to reclassification, afterwards a constant MFR Unit Density is used.

Blanusa, Danilo

From: Sheri Repp <srepp@pvestates.org>
Sent: Monday, August 31, 2015 5:07 PM
To: Blanusa, Danilo
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Trejo, Daniel; Sorensen, Ronald
Subject: RE: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Palos Verdes District

Dear Thomas,

Thank you for sending the draft growth forecast for the Palos Verdes area. The City of Palos Verdes Estates does not expect any significant growth in our community. We are seeing homes being replaced with larger structures. As such, I do not have any concern with your current projections.

For your records, please note that Allan Rigg is no longer the Director. Please update your records with my contact information.

*Sheri Repp Loadsmen
Planning & Building Director*
City of Palos Verdes Estates
340 Palos Verdes Drive West
Palos Verdes Estates, CA 90274
(310) 378-0383

From: Blanusa, Danilo [mailto:dblankusa@calwater.com]
Sent: Thursday, August 20, 2015 4:09 PM
To: Sheri Repp
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Trejo, Daniel; Sorensen, Ronald
Subject: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Palos Verdes District

Dear Mr. Rigg,

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The purpose of this communication is to solicit your assistance in reviewing and advising us with respect to one of the key elements of the plan, which is the development of a growth forecast for our district. This growth forecast is conducted based on growth in each customer service classification applicable to a particular district, which typically include:

- Single family residential
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- A. The historical and projected service data in both graph and table form
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If you need a more detailed explanation of these numbers or want to review them with us please feel free to contact me at (408) 367-8340 or by email at tsalzano@calwater.com.

Thank you for your assistance in this effort.

Respectfully,

Thomas A. Salzano

Thomas A. Salzano
Water Resource Planning Supervisor

Danilo Blanus, P.E.

Senior Engineer

CALIFORNIA WATER SERVICE

408-367-8387



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Appendix C: Correspondences

- UWMP Public Draft Comments

Note: There were no comments received on the UWMP Public Draft.