<table>
<thead>
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<th>TO: BOARD OF WATER AND POWER COMMISSIONERS</th>
<th>DATE: April 23, 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUBJECT:</td>
<td>Water Supply Assessment for the Port of Los Angeles Wilmington Waterfront Development Project</td>
</tr>
<tr>
<td></td>
<td>FOR COMMISSION OFFICE USE:</td>
</tr>
<tr>
<td></td>
<td>BOARD COMMITTEE APPROVAL:</td>
</tr>
<tr>
<td></td>
<td>CITY COUNCIL APPROVAL REQUIRED: Yes [ ] No [x] IF YES, BY WHICH CITY CHARTER SECTION:</td>
</tr>
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</table>

**PURPOSE**

Pursuant to California State Water Code Sections 10910-10915, the governing body of each public water system is required to make a determination on water supply assessments for major projects as defined in the State Water Code. This water supply assessment is for the Port of Los Angeles Wilmington Waterfront Development Project, located nearby the San Pedro community to the west, and adjacent to the community of Wilmington to the north.

**BACKGROUND**

Water supply assessments are prepared in conformance with State law to ensure that proposed projects that utilize water resources are consistent with the City of Los Angeles' (City) long-term water supply availability, as detailed in the most recent Urban Water Management Plan (UWMP). The UWMP is the water supply planning document for the City and is prepared by the Los Angeles Department of Water and Power (LADWP).

The UWMP identifies short- and long-term water resource management measures to meet the City's growing water demands during normal, dry, and multiple-dry years. The UWMP has a 25-year planning horizon and is prepared every 5 years to reflect updated information. In the UWMP, population growth is projected along with increased water needs. The plan identifies anticipated new water supplies needed to meet new demand, and outlines initiatives to provide necessary water supplies, including conservation measures and other strategies. The last UWMP, approved in 2005, addresses water supply needs through 2030.

Each water supply assessment performed by LADWP is carefully evaluated within the context of the 2005 UWMP and current conditions, such as restrictions on State Water Project pumping from the Sacramento-San Joaquin Delta imposed by a Federal Court. The Metropolitan Water District of Southern California (MWD), from whom the City
purchases its State Water Project and Colorado River water supplies, has also been actively developing plans and making efforts to provide additional water supply reliability for the entire Southern California region. LADWP coordinates closely with MWD to ensure implementation of MWD's water resource development plans. Part of MWD's planning efforts is the inclusion of a "buffer" supply that is meant to protect against uncertainties in water resource supplies, such as the Federal Court's restrictions on export pumping from the Delta.

Due to the recent water supply issues, including those impacting MWD, the Mayor and LADWP released a water supply action plan entitled, "Securing L.A.'s Water Supply" in May 2008. The plan serves as a template to increase the sustainability of water supply for Los Angeles and reduce dependence on imported supplies. This plan calls for the City to develop significant additional water conservation and water recycling. To achieve the goals set forth by the Mayor's plan, LADWP is considerably expanding its recycled water system and increasing its water conservation initiatives.

The LADWP Board of Water and Power Commissioners have adopted Shortage Year Rates and implemented Phase III of its Water Conservation Ordinance for water service, both of which will become effective June 1, 2009. Shortage Year Rates and Phase III conservation shall remain in effect until the water supply currently available to the City is found sufficient for normal demands. It is LADWP staff's judgment that the City's current water shortage is a transitory event consistent with historical multiple dry-year water cycles accounted for in the LADWP's 2005 Urban Water Management Plan.

It is anticipated that the imposition of Shortage Year Rates and Phase III conservation will reduce demands consistent with what occurred in 1991 when the City first implemented water rationing and associated financial penalties for overuse. LADWP implemented water rationing, with associated financial penalties for overuse, for the first time in March 1991. Water rationing and financial penalties remained in place until May 1992. During this period of time, customers were required to reduce water usage by 15 percent. Each customer's allotment of water was 85 percent of their historical usage. Water usage above a customer's allotment was a violation of the Ordinance and was billed at the penalty rate. This action resulted in total City water conservation of approximately 25 percent. Based on this experience, LADWP staff believes the imposition of Shortage Year Rates and Phase III conservation will reduce the City's water demand by at least 15 percent, sufficient to meet the projected water demands associated with the Project.

Projected Water Use and Conservation

On June 17, 2008, the City of Los Angeles Harbor Department (Harbor Department), the lead agency for the proposed Port of Los Angeles Wilmington Waterfront Development Project (Project), requested LADWP to perform a water supply assessment (attached in Appendix A). The proposed Project is located in the Port of Los Angeles Community Plan, the Wilmington-Harbor City Community Plan, and the Port Master Plan, which are all within LADWP's service area. Based on information
obtained from the Harbor Department, the proposed Project is a redevelopment of approximately 58 acres of general commercial and industrial land uses within the Port of Los Angeles for commercial, retail, and recreational land uses. The project will consist of approximately 58,000 square feet of retail use, approximately 150,000 square feet of industrial use, approximately 12,000 square feet of restaurant space, approximately 14,500 square feet of museum space, approximately 535 square feet of public restrooms, approximately 461,736 square feet of landscaping, approximately 56,495 square feet of water features, and approximately 529,244 square feet of parking spaces.

The Project was originally estimated to require an additional 92 acre-feet of water annually from LADWP to meet the demands of the Project. This estimate was calculated with the aid of the Sewer Generation Rates table, developed by the City of Los Angeles Department of Public Works, Bureau of Sanitation. The Sewer Generation Rates table provides an approximation of water usage rates in various facilities within the City.

Upon receiving this water supply assessment request, LADWP staff did not organize a meeting with Harbor Department, the developer of the Project, since the developer already attended a meeting with the LADWP staff for another Port of Los Angeles project. During that meeting, LADWP staff recommended implementation of additional water conservation measures to maximize the potential water-use efficiency for the Project. The recommended conservation measures are in addition to those required by law. The developer agreed to use high-efficiency toilets, faucet flow restrictors, high-efficiency urinals, weather-based irrigation controllers, and at least 10 percent native plants for the entire Project. In addition, the developer also agreed to use recycled water for irrigation, water features, as well as new urinal and toilet flushing in the new buildings. The new building urinals and toilets will be installed with dual plumbing to supply them with potable water in the event recycled water is not available.

The Harbor Department, as part of the adjacent project for the San Pedro waterfront, has agreed to provide funding to expand the City’s water recycling infrastructure. For this Project, the Harbor Department has also agreed to install extensive project infrastructure that will accommodate and maximize the use of recycled water. Therefore, this Project will not be subject to future fees to expand the City’s water recycling system.

A written commitment of the Project’s water conservation and recycled water use plans submitted by the developer is attached with the water supply assessment in Appendix B. These additional water conservation measures and recycled water use, agreed to by the developer, will produce an estimated water savings of approximately 14 acre-feet and 62 acre-feet per year, respectively. With the additional water conservation measures and recycled water use, the anticipated additional water demand for the proposed development is reduced to approximately 16 acre-feet per year. Implementation of the additional water conservation measures and recycled water use will reduce the Project’s potable water demand by approximately 79 percent.
LADWP has met with the City Planning and Department of Building and Safety (Building and Safety) staff to discuss voluntary commitments made by developers as part of water supply assessments. These two City departments have confirmed to LADWP that voluntary measures committed by developers as part of water supply assessments will be incorporated as requirements for both City Planning’s approval and Building and Safety’s review and approval of the Project.

The anticipated 16 acre-feet of additional water demand from the Project falls within the UWMP’s projected water supplies for normal, single-dry, and multiple-dry years through the year 2030 and falls within the UWMP’s 25-year water demand growth projection. Therefore, the Project is consistent with the 2005 UWMP.

COST AND DURATION

The developer has paid LADWP the required $10,000 fee for preparation of this water supply assessment.

FUNDING SOURCE

Fiscal Year: 2008-2009
Functional Item No.: 409-3008
Location in Budget: Not applicable.

FISCAL IMPACT STATEMENT

A fee of $10,000 paid to LADWP by the developer, consistent with the required fee at the time, will be deposited into the Water Revenue Fund.

TYPE OF INSURANCE COVERAGE(S)  Not applicable.

PRE-AWARD CHECKLIST  Not applicable.

CONTRACT ADMINISTRATION  Not applicable.

FORMAL OBJECTIONS TO AWARD OF CONTRACT  Not applicable.

JOB OPPORTUNITIES AND TRAINING POLICY  □ Applicable  ❏ Not Applicable

INTERNAL AUDIT

□ Yes
❏ No

Disposition of Findings: Not applicable.

EXTERNAL AUDIT

□ Yes
❏ No

Disposition of Findings: Not applicable.
CHARTER SECTION 1022 FINDINGS AND BASIS THEREOF

Not applicable.

MEMORANDUM OF UNDERSTANDING PROPOSED CONTRACT REVIEW PROCESS
Not applicable.

METHOD OF SELECTION Not applicable.

OUTREACH EFFORTS TAKEN Not applicable.

MINORITY/WOMEN BUSINESS ENTERPRISE (MBE/WBE) SUBCONTRACTING PARTICIPATION Not applicable.

VENDOR HISTORY Not applicable.

VENDOR PERFORMANCE Not applicable.

ENVIRONMENTAL DETERMINATION

In accordance with the California Environmental Quality Act, this Water Supply Assessment is exempt from further requirements under Title 14, California Code of Regulations, Chapter 3, Guidelines for Implementation of the California Environmental Quality Act, Article 18, Statutory Exemptions, Section 15268.

CONFLICT OF INTEREST STATEMENT (Use option as applicable)

All conflict of interest procedures were followed. No conflict of interest issues were identified.

RECOMMENDATION

It is recommended that your Honorable Board adopt the accompanying resolution, approved as to form and legality by the City Attorney, which will authorize the Water Supply Assessment for the proposed Port of Los Angeles Wilmington Waterfront Development Project.

JLH:lsf
Attachments

c/att: H. David Nahal  Jeffery L. Peltola
        Raman Raj        Cecilia K.T. Weldon
        Richard M. Brown Maria Sison-Roces
        Aram Benyamin Thomas M. Erb
        James B. McDaniel Jin L. Hwang
RESOLUTION NO. ____________________

WHEREAS, on June 17, 2008, the Los Angeles Harbor Department (Harbor Department), requested LADWP to conduct a water supply assessment for the Port of Los Angeles Wilmington Waterfront Project (Project) pursuant to California Water Code Sections 10910-10915; and

WHEREAS, the proposed Project will redevelop approximately 58 acres of general commercial and industrial land uses within the Port of Los Angeles Community Plan, the Wilmington-Harbor Community Plan, and the Port Master Plan for commercial, retail, and recreational land uses; and

WHEREAS, LADWP has prepared a water supply assessment for the Project in compliance with California Water Code Sections 10910-10915; and

WHEREAS, LADWP estimates the annual increase in water demand from the Project site to be 16 acre-feet based on review of information submitted by the Harbor Department; and

WHEREAS, the Project developer, Harbor Department, has agreed to implement additional conservation measures and use recycled water, as described in the water supply assessment, that are in addition to those required by law; and

WHEREAS, LADWP’s water supply system now serves the immediate Project area, and would serve the area of the proposed Project; and

WHEREAS, the projected water demand associated with the Project is within the range of water demand projections anticipated in the City of Los Angeles’ Year 2005 Urban Water Management Plan Update; and

WHEREAS, LADWP anticipates that its projected water supplies available during normal, single-dry, and multiple-dry water years as included in the 25-year projection contained in its 2005 Urban Water Management Plan can accommodate the projected water demand associated with the Project, in addition to the existing and planned future demands on LADWP; and

WHEREAS, the Board of Water and Power Commissioners (Board) has adopted Shortage Year Rates for water service effective June 1, 2009, which rates shall remain in effect until the water supply currently available to the City is found sufficient for normal demands. The Board finds that the City’s current water shortage is a transitory event consistent with historical multiple dry-year water cycles accounted for in the 2005 Urban Water Management Plan. The Board further finds that the price signals contained in the Shortage Year Rates will result in reduced City-wide demands sufficient to meet the projected water demands associated with the Project; and

NOW, THEREFORE, BE IT RESOLVED, that the Board finds that LADWP can provide sufficient domestic water supplies to the Project and approves the water supply assessment prepared for the Project, now on file with the Secretary of the Board, and directs that the assessment and a certified copy of this resolution be transmitted to the Harbor Department.

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of a resolution adopted by the Board of Water and Power Commissioners of the City of Los Angeles at its meeting held

APPROVED AS TO FORM AND LEGALITY
ROCKARD J. DELGADILLO, CITY ATTORNEY

BY
S. DAVID HOTCHKISS
Assistant City Attorney

APR 21 2009

Secretary
WATER SUPPLY ASSESSMENT
FOR THE PORT OF LOS ANGELES WILMINGTON WATERFRONT DEVELOPMENT PROJECT

Prepared by:
Water Resources Division

April 23, 2009
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References

City of Los Angeles Department of Water and Power
Urban Water Management Plan Year 2005

Upper Los Angeles River Area Watermaster Report, dated May 2006

City of Los Angeles Department of Public Works, Bureau of Sanitation
Sewer Generation Rates Table

Landscape Water Manager Program v1.4, developed by Irrigation Training
and Research Center

California Department of Water Resources California’s Groundwater
Bulletin 118 Update 2003

Green Book for the Long-Term Groundwater Management Plan for the
Owens Valley and Inyo County
Appendices

A. City of Los Angeles Harbor Department letter, dated June 17, 2008, Request for a Water Supply Assessment
B. Water Conservation Commitment Letters
C. Project Location Maps
D. Water Supply Assessments Adopted by the LADWP Board of Commissioners
E. Groundwater Pumping Right Judgments
F. Water Supply Assessment Provisions – California Water Code Section 10910-10915
G. Metropolitan Water District of Southern California
H. Water Supply Assessment Checklist
Introduction

Proposed major projects subject to certain requirements in the California Water Code require that the City or County identify any public water system that may supply water to the proposed project and request the public water system to determine whether the projected water demand associated with the proposed project was included as part of the most recently adopted Urban Water Management Plan per California Water Code Section 10910.

The City of Los Angeles Harbor Department (Harbor Department), serving as the lead agency for the proposed Port of Los Angeles Wilmington Waterfront Development Project has identified the Los Angeles Department of Water and Power (LADWP) as the public water system that will supply water to the Port of Los Angeles Wilmington Waterfront Development Project. In response to the Harbor Department’s request for a water supply assessment, LADWP has performed the assessment contained herein.

LADWP has served the City of Los Angeles (City) a safe and reliable water supply for over a century. Over time, the City’s water supplies have evolved from primarily local groundwater to predominantly imported supplies. Today, the City relies on over 85 percent of its water from imported sources. As such, LADWP has taken an active role in regional and statewide water management. The sustainability of Los Angeles’ water supplies are dependent on the City’s ability to maximize water conservation and increase recycled water use. The Mayor’s action plan, “Securing L.A.’s Water Supply” dated May 2008, states that the City will develop significant additional water conservation and water recycling, as well as other water resource actions to ensure a reliable water supply.

This water supply assessment has been prepared to meet the applicable requirements of state law as set forth in California State Water Code Sections 10910-10915. Significant references and data for this assessment are from the City’s 25-year water resource plan, entitled City of Los Angeles Department of Water and Power 2005 Urban Water Management Plan (UWMP). The UWMP is incorporated by reference and is available for review through LADWP’s website, www.ladwp.com.

Findings

The proposed Port of Los Angeles Wilmington Waterfront Development Project (Project) is estimated to increase water demand within the site by approximately 18 acre feet (AF) annually based on review of information submitted by the Harbor Department. The developer, the Harbor Department, has committed to implement additional water conservation measures that are beyond those required by law. In addition, the developer has committed to use recycled water for all existing and proposed irrigation needs and proposed water features, and construct dual plumbing for all toilets and urinals in new buildings.

LADWP’s water supply assessment finds that adequate water supplies will be available to meet the water demands of the Project. LADWP anticipates that the projected water demand from the Project can be met during normal, single-dry, and multiple-dry water
years, in addition to the existing and planned future demands on LADWP.

The basis for approving water supply assessments for new developments is the City's UWMP. LADWP's water demand forecast as contained in the UWMP use a long term demographic projection such as land use, population, and employment. The California Urban Water Management Planning Act requires water suppliers to develop an UWMP every five years to identify short-term and long-term water resources management measures to meet growing water demands during normal, dry, and multiple-dry years.

The LADWP Board of Water and Power Commissioners has adopted Shortage Year Rates and implemented Phase III of its Water Conservation Ordinance for water service, both of which will become effective June 1, 2009. Shortage Year Rates and Phase III conservation shall remain in effect until the water supply currently available to the City is found sufficient for normal demands. It is LADWP staff's judgment that the City's current water shortage is a transitory event consistent with historical multiple dry-year water cycles accounted for in the LADWP's 2005 Urban Water Management Plan.

It is anticipated that the imposition of Shortage Year Rates and Phase III conservation will reduce demands consistent with what occurred in 1991 when the City first implemented water rationing and associated financial penalties for overuse. The LADWP implemented water rationing, with associated financial penalties for overuse, for the first time in March 1991. Water rationing and financial penalties remained in place until May 1992. During this period of time, customers were required to reduce water usage by 15 percent. Each customer's allotment of water was 85% of their historical usage. Water usage above a customer's allotment was a violation of the ordinance and was billed at the penalty rate. This resulted in total in City water conservation of approximately 25 percent. Based on this experience, LADWP staff believes the imposition of Shortage Year Rates and Phase III conservation will have a similar effect and will reduce the City's water demand by at least 15 percent, sufficient to meet the projected water demands associated with the Project.

The anticipated water demand from the Project falls within the UWMP's projected water supplies for normal, single-dry, and multiple-dry years through the year 2030 and within the UWMP's 25-year water demand growth projection. Therefore, the Port of Los Angeles Wilmington Waterfront Development Project's water supply assessment can be approved based on the fact that this Project's water need falls within the scope of the UWMP's projected increase in citywide water demands, while anticipating multi-year dry water supply conditions occurring at the same time.

**Project Description**

The following project information was obtained from the Harbor Department's water supply assessment request letter (Appendix A).

**Project Name:** The Port of Los Angeles Wilmington Waterfront Development Project

**Developer:** The Los Angeles Harbor Department

**Planning Community:** Port of Los Angeles / Wilmington Harbor City
The proposed Project is a redevelopment of approximately 58 acres of general commercial and industrial land uses within the Port of Los Angeles Community Plan, the Wilmington-Harbor City Community Plan, and the Port Master Plan for commercial, retail, and recreational land uses. The proposed Project area is adjacent to the community of Wilmington to the north, and nearby the San Pedro community to the west. The Project site is generally bounded by Lagoon Avenue to the west, Broad Avenue to the east, C Street to the north, and Banning’s Landing and Slip No. 5 at the south in the Wilmington and Port areas, respectively. The Project consists of approximately 58,000 square feet of retail use, approximately 150,000 square feet of industrial use, approximately 12,000 square feet of restaurant space, approximately 14,500 square feet of museum space, approximately 535 square feet of public restrooms, approximately 461,736 square feet of landscaping, approximately 56,495 square feet of water features, and approximately 529,244 square feet of parking spaces.

This water supply assessment will no longer be valid if modifications to the Project require greater water demand than stated in this assessment. A revised assessment will then be required.

**Project Water Demand Estimate**

The projected water demand increase for the Project is estimated to be approximately 16 AF annually which includes approximately 14 AF of annual water conservation and approximately 62 AF of annual recycled water use committed by the developer. The use of recycled water and implementation of additional water conservation measures reduced the Project’s potable water demand by approximately 79 percent. Table I shows a breakdown of current and proposed types of use and corresponding estimated volume of usage. The types of use were derived from the water supply assessment request in Appendix A. The projected volume of water demand for the different uses was derived from a Sewer Generation Rates table, developed by the City of Los Angeles Department of Public Works, Bureau of Sanitation. The Sewer Generation Rates table lists estimated sewage generated by various indoor facilities, which is used to approximate indoor water usage. Table II estimates the total volume of water conservation based on conservation measures committed to by the developer.

In this water supply assessment, LADWP independently calculated the Project’s anticipated total additional water use utilizing data provided by the requesting agency. The total additional water use calculated by LADWP is then tracked against the water demand increase projected in the UWMP as shown in Appendix D.
# TABLE I

## The Port of Los Angeles Wilmington Waterfront Development Project
### Estimated Increase in Water Use

<table>
<thead>
<tr>
<th>Use</th>
<th>Quantity</th>
<th>Unit</th>
<th>Water Use Factor (gpd/unit)</th>
<th>Water Use (gpd)</th>
<th>(afy)</th>
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<tr>
<td><strong>Existing</strong></td>
<td></td>
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<tr>
<td>Warehouse - Bekins</td>
<td>14,500</td>
<td>sf</td>
<td>0.02</td>
<td>290</td>
<td>0.32</td>
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<td>Warehouse - Private Blgds</td>
<td>41,260</td>
<td>sf</td>
<td>0.02</td>
<td>825</td>
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<td>Vacant - DWP owned S of Harry Bridges</td>
<td>41,280</td>
<td>sf</td>
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<td>0.00</td>
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<td>Office - Police Trailer</td>
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<td>sf</td>
<td>0.15</td>
<td>216</td>
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<td>Vacant - POLA owned N of Harry Bridges</td>
<td>362,456</td>
<td>sf</td>
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<td>0</td>
<td>0.00</td>
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<tr>
<td>Vacant - POLA owned S of Harry Bridges</td>
<td>55,162</td>
<td>sf</td>
<td>0.00</td>
<td>0</td>
<td>0.00</td>
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<td>Vacant - DWP Oil Tanks</td>
<td></td>
<td></td>
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<td>Warehouse - DWP Oil Tank Support Blgds</td>
<td>117,930</td>
<td>sf</td>
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<td>Vacant - DWP owned along Avalon</td>
<td>19,000</td>
<td>sf</td>
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<td>380</td>
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<td>Warehouse - Small Support Blgd</td>
<td>98,900</td>
<td>sf</td>
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<td>Parking</td>
<td>875</td>
<td>sf</td>
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<td>Warehouse - Catalina Freight Blgds</td>
<td>50,850</td>
<td>sf</td>
<td>0.02</td>
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<td>1.14</td>
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<td>Trade/ Vocational School</td>
<td>30,860</td>
<td>sf</td>
<td>0.02</td>
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<td>Vacant - SE corner, Harry Bridges Bl/ Avalon</td>
<td>25</td>
<td>student</td>
<td>12.00</td>
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<td>Outdoor water use(^3)</td>
<td>58,809</td>
<td>sf</td>
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<td><strong>Subtotal: (^4)</strong></td>
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<td>4,404</td>
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<td><strong>Proposed</strong></td>
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<td>Restaurant - Full Service Indoor Retail</td>
<td>100</td>
<td>seat</td>
<td>30</td>
<td>3,000</td>
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<td>Industrial</td>
<td>58,000</td>
<td>sf</td>
<td>0.08</td>
<td>4,640</td>
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<tr>
<td>Museum</td>
<td>150,000</td>
<td>sf</td>
<td>0.08</td>
<td>12,000</td>
<td>13.44</td>
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<tr>
<td>Water Features</td>
<td>14,500</td>
<td>sf</td>
<td>0.02</td>
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<tr>
<td>Restroom</td>
<td>56,495</td>
<td>sf</td>
<td>0.18</td>
<td>10,421</td>
<td>11.67</td>
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<tr>
<td>Parking - 3 Lots</td>
<td>535</td>
<td>sf</td>
<td>0.02</td>
<td>1,500</td>
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<td>Outdoor water use(^3)</td>
<td>528,244</td>
<td>sf</td>
<td>0.02</td>
<td>10,585</td>
<td>11.86</td>
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<td>Landscaping(^4)</td>
<td>461,736</td>
<td>sf</td>
<td>0.00</td>
<td>15,120</td>
<td>16.94</td>
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<td><strong>Subtotal: (^5)</strong></td>
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<td>86,242</td>
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<td><strong>Total Additional Water Use = (^6)</strong></td>
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<td></td>
<td>14,102</td>
<td>15.80</td>
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</tbody>
</table>

1 Provided by the City of Los Angeles Harbor Department.


3 Uses not listed are estimated by the closest type of use available in the table.

4 Estimated to be 25% of outdoor usage for commercial use.

5 Landscape Water Manager v 1.4 software was used to estimate irrigation water use.

6 Water Conservation due to additional conservation commitments recommended by LADWP. See table II.

Abbreviations:

- gpd - gallons per day
- sf - square feet
- afy - acre feet per year
- bd - bedroom
- du - dwelling unit
### TABLE II

The Port of Los Angeles Wilmington Waterfront Development Project

<table>
<thead>
<tr>
<th>Estimated Water Conservation</th>
<th>Quantity¹</th>
<th>Units</th>
<th>Water Saving Factor² (gpd/unit)</th>
<th>Water Saved (gpd)</th>
<th>(af/y)</th>
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<tr>
<td>Toilets</td>
<td>46</td>
<td>du</td>
<td>6.99</td>
<td>320</td>
<td>0.36</td>
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<tr>
<td>Urinals</td>
<td>11</td>
<td>du</td>
<td>13.74</td>
<td>151</td>
<td>0.17</td>
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<tr>
<td>Faucets (Public Bath, New) 0.5 gpm</td>
<td>32</td>
<td>du</td>
<td>31.20</td>
<td>998</td>
<td>1.12</td>
</tr>
<tr>
<td>Faucets 1.5 gpm</td>
<td>43</td>
<td>ea</td>
<td>10.40</td>
<td>447</td>
<td>0.50</td>
</tr>
<tr>
<td>Weather Based Irrigation Controller³</td>
<td>11</td>
<td>acre</td>
<td>892.74</td>
<td>9,463</td>
<td>10.60</td>
</tr>
<tr>
<td>Native Plant Credit⁴</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(10% Native Plants of 11 acres of landscaping)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Water Conserved = 12,640 14.16

¹ Water Conservation measures committed by the City of Los Angeles Harbor Department.
² Provided by the City of Los Angeles Harbor Department.
³ Based on the Handbook of Water Use and Conservation by Amy Vickers, MWD - Save A Buck Program, and LADWP estimates.

Native Plant savings was estimated by Landscape Water Management Program v1.4 developed by Irrigation Training and Research Center of California Polytechnic State University, San Luis Obispo.

Abbreviations:
gpd - gallons per day  sf - square feet  afy - acre feet per year  bd - bedroom  du - dwelling unit

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**Water Demand Forecast**

The UWMP projects yearly water demand to reach 776,000 acre feet by 2030, or an increase of 17% from 2005. Water demand projections in 5-year increments through 2030 are available in the UWMP for each of the major customer classes single-family, multi-family, commercial, governmental, and industrial. Demographic data from the Southern California Association of Government’s 2004 Regional Transportation Plan as well as billing data for each major customer class, weather, and conservation were factors used in forecasting future water demand growth.

The UWMP used a service area-wide method in developing its water demand projections. This methodology does not rely on individual development demands to determine area-wide growth. Rather, the growth in water use for the entire service area was considered in developing long-term water projections for the City of Los Angeles through the year 2030.

The UWMP is updated every five years as required by California law. This process entails, among other requirements, an update of water supply and water demand projections for water agencies. In the 2010 update, LADWP will develop a revised demand forecast that will factor in the water demand for which all water supply...
assessments have been prepared in addition to future demands. Water supply planning will be based on meeting these long-term demands.

Efforts are underway to increase water recycling, further conserve local stormwater runoff, and expand LADWP’s water conservation program to decrease reliance on imported water for future demand. The City plans to meet all future increases in water demand through a combination of water conservation and water recycling as explained in LADWP’s Water Supply Action Plan.

Collaboration between LADWP and the Metropolitan Water District (MWD) is critical in ensuring that the City’s anticipated water demands are incorporated into the development of MWD’s long-term Integrated Regional Plan (IRP). MWD’s IRP directs a continuous regional effort to develop regional water resources involving all of MWD’s member agencies. Successful implementation of MWD’s IRP has resulted in reliable supplemental water supplies for the City from MWD.

State law further regulates distribution of water in extreme drought conditions. Section 350-354 of the California Water Code states that when a governing body of a distributor of a public water supply declares a water shortage emergency within its service area, water will be allocated to meet needs for domestic use, sanitation, fire protection, and other priorities. This will be done equitably and without discrimination between customers using water for the same purpose(s).

**LADWP - Water Supply Action Plan**

In response to water supply uncertainties, including those impacting MWD, the Mayor and LADWP released a Water Supply Action Plan (Action Plan) on May 17, 2008. The plan, entitled “Securing L.A.’s Water Supply,” serves as a blueprint for creating sustainable sources of water for the future of Los Angeles to reduce dependence on imported supplies. It is an aggressive multi-pronged approach that includes: investments in state-of-the-art technology; a combination of rebates and incentives; the installation of smart sprinklers, efficient washers and urinals; and long-term measures such as expansion of water recycling and investment in cleaning up the local groundwater supply.¹ The Action Plan also takes into account the realities of climate change and the dangers of drought and dry weather.

The premise of the Action Plan is that the City will meet all new demand for water due to projected population growth through a combination of water conservation and water recycling. In total, the City will conserve or recycle 32.6 billion gallons of water—enough to fill one foot of water across the entire San Fernando Valley, and enough to supply water to 200,000 homes for one year.² By the year 2019, half of all new demand will be filled by a six-fold increase in recycled water supplies and by 2030 the other half will be met through ramped-up conservation efforts.³

³ Id. at 1.
The Action Plan also specifically addresses current and future State Water Project (SWP) supply shortages. The California Department of Water Resources estimates that the December 15, 2008, U.S. Fish and Wildlife Service’s Biological Opinion on Delta Smelt will limit MWD exports of their anticipated SWP supply by up to 50 percent in a normal year. The Action Plan concludes, however, that MWD’s actions in response to this threat will ensure continued reliability of its water deliveries. The Action Plan further states that “despite concerns about ongoing water shortages and higher costs, MWD has upheld its pledge to plan for emergencies and natural disasters throughout this region.” MWD estimates its end of year 2009 non-emergency storage to be 733,000 acre-feet in surface and groundwater storage accounts - including Diamond Valley Lake near Hemet – plus an additional 673,500 acre-feet of storage reserved for emergencies. In total, this reserve of water supplies will be utilized to buffer the severity of a potential shortage. Furthermore, by focusing on demand reduction, implementation of the Action Plan will ensure that long-term dependence on MWD supplies will not be exacerbated by potential future shortages.

The Action Plan includes key short-term and long-term strategies to secure water supply described below.

**Short-Term Conservation Strategies**

*Enforcing prohibited uses of water.* The prohibited uses of water are intended to eliminate waste and increase awareness of the need to conserve water. While in effect at all times, the prohibited uses have not been actively enforced since the early 1990s. In November 2007, LADWP resurrected its Drought Buster (now called the “Water Conservation Team”) Program to heighten awareness and educate customers about the prohibited uses. Under enforcement, failure to comply would be subject to penalties, which can range from a written warning for a first violation to monetary fines and water service shutoff for continued non-compliance.

*Expanding the prohibited uses of water.* In August 2008, the City updated and strengthened its Emergency Water Conservation Plan Ordinance (No. 180148) by expanding the list of prohibited uses of water, developing new phases of conservation depending on the severity of water shortages, and increased financial penalties for non-compliance. Prohibited uses in effect at all times include:

- No water leaks are allowed to go unattended.
- No outdoor irrigation between the hours of 9:00 a.m. to 4:00 p.m.
- No outdoor irrigation that results in excess water flow leaving the property.
- No outdoor irrigation during rain events.
- No outdoor irrigation with standard sprinklers for more than 10 minutes per station.
- No outdoor irrigation with rotating sprinklers for more than 15 minutes per station.
- No large landscape irrigation systems without automatic shutoff rain sensors.

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4 Appendix G page A-7.
5 MWD’s Water Surplus and Drought Management Plan (August 21, 2008)
7 Id. at 11.
• No watering hard surfaces (sidewalks, walkways, driveways, or parking areas).
• No water for decorative fountains unless the water is part of a recirculating system.
• No installation of single-pass cooling systems in new buildings.
• No installation of non-recirculating systems in new commercial laundry facilities.
• No installation of non-recirculating systems in new conveyor car washes.
• No car washing with a hose, unless an automatic shut-off device is attached.
• No water served to customers in eating establishments, unless requested.
• No daily towel and linen service option must be offered to Hotel and Motel guests.

**Extending outreach efforts.** LADWP has committed to $2.3 million for an aggressive conservation outreach and education campaign. Some activities include: step up communication with ratepayers to include bus placards, LADWP vehicle placards, newspapers, radio, and television, among other types of media; outreach to Homeowner Associations and Neighborhood Councils to promote water conservation; train LADWP field staff as well as field staff from Public Works, Recreation and Parks, and other appropriate City departments in identifying and reporting prohibited uses of water; and ramp up marketing of water conservation incentive and rebate programs.\(^8\)

**Encouraging regional conservation measures.** Work with MWD to encourage all water agencies in the region to adopt water conservation ordinances which include prohibited uses and enforcement.\(^9\)

### Long-Term Strategies

1.0 Increase water conservation through reduction of outdoor water use and new technology.

The following are new and continuing water conservation programs as well as goals and benchmarks designed to measure their progress through 2030:

**Residential Smart Sprinkler Systems:** Smart sprinkler systems improve water efficiency and are already used in parks and golf courses around the City will be extended to homes throughout L.A.'s neighborhoods.

Goal: Install 2,500 smart sprinkler controllers per year starting in the summer of 2009, with a total of 63,500 by 2020.

Water Savings: 4,962 AFY by 2030.

**Action Plan:** LADWP will begin to provide smart controllers and installation services free of charge to qualifying residential customers. Program plans include the installation of 2,500 controllers in the first year of program, moving to 5,250 controllers per year on a sustained basis. The program is scheduled to launch in late-2009.\(^10\)

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\(^8\) Id. at 12.
\(^9\) Id.
\(^10\) Id. at 13.
Conservation Rebates and Incentives:

**Goal:** Increase participation in Water Conservation Rebate and Incentive Programs.

**Water Savings:** 48,457 AFY by 2030.

**Action Plan:** LADWP is continuing to expand rebates and incentives for homeowners and business owners to encourage them to purchase water-saving technology.\(^{11}\) Rebate and incentive programs include the following:

*High Efficiency Clothes Washer Program.* LADWP increased the rebate offered for residential high efficiency clothes washers from $250 to $350. Since the program was launched in 1998, more than 60,000 water-saving clothes washers have been installed in Los Angeles residents’ homes through the program.\(^{12}\) LADWP will further expand the program through a pilot “Point of Purchase” rebate program, offering customers an instant rebate when they buy the appliance from a Los Angeles retailer.

*Commercial Rebate Program.* Water conservation rebates and incentives were increased significantly in 2007 to offset the costs of replacing water-wasting toilets and urinals with high efficiency models. The current rebates offset most or all of the total replacement cost (including installation). LADWP will increase program promotion to raise awareness of these significant financial incentives, resulting in increased program participation. Since this program’s inception, more than 32,800 toilets have been replaced by commercial, industrial and institutional customers, and LADWP is working to implement a grant-funded Cooling Tower program for commercial customers.\(^{13}\)

*High Efficiency Urinal Programs.* Offering perhaps the greatest potential for quick implementation is the replacement of standard urinals with high efficiency urinals (0.5 gallon per flush (gpf) or less, including no-flush). In addition, recent changes in the Los Angeles Building Code now provide for the installation of completely water-free urinals.\(^{14}\)

*Additional Water Saving Efficiency Measures and Programs.* As part of the City's ongoing effort to encourage customers to adopt passive water conservation measures (i.e., measures that can help customers conserve water on a daily basis without thinking about it) in their homes and businesses, LADWP will continue to distribute water-saving bathroom and kitchen faucet aerators and shower heads free-of-charge. LADWP also plans to add rebates for products such as high-efficiency dishwashers and synthetic turf for residential customers to help increase their daily conservation efforts.\(^{15}\)

**Action by Public Agencies:**

**Goal:** Improving water efficiency at all City Department facilities. LADWP provides incentive funding and technical assistance to City Departments for the installation of

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\(^{11}\) *Id.* at 14.

\(^{12}\) *Id.*

\(^{13}\) *Id.*

\(^{14}\) *Id.* at 14-15.

\(^{15}\) *Id.* at 15.
high efficiency urinals and smart irrigation controllers, and helps them identify other opportunities to improve water use efficiency.

**Water Savings:** Estimated to save at least 10 percent from existing use, totaling as much as 1,888 AFY in water savings.

**Action Plan:** LADWP will assist City Departments and other public agencies in leveraging incentive funds to retrofit their facilities. The Public Sector Conservation Incentive Program, offered through MWD in conjunction with LADWP, provides up-front incentives for public agencies to purchase water-efficiency technology.\(^\text{16}\)

**Enhancing Conservation through Review of New Developments:**

**Goal:** Ensure specifications for the Los Angeles Green Building program include water efficiency measures.

**Water Savings:** The Green Building Program can yield significant water savings through water conservation measures.

**Action Plan:** LADWP will continue working with the City’s Green Building Team to pursue desired changes in local codes and standards to promote water efficiency in new construction projects and major building renovations.\(^\text{17}\)

### 2.0 Water Recycling

The City’s goal is to increase the total amount of recycled water used in the City of Los Angeles six-fold by 2019—expanding from the current 1% to 6% of annual water demand. This will result in a planned water savings of 50,000 AFY by 2019.\(^\text{18}\) In order to achieve this goal, the City will take the following actions:

**Develop a Recycled Water Master Plan.** LADWP will prepare a detailed Recycled Water Master Plan that will outline the steps and costs of boosting the City’s recycled water level to 6 percent of total demand for the City. The Master Plan will provide a blueprint for reaching this goal by expanding the existing recycled water pipeline system and using recycled water for groundwater replenishment.\(^\text{19}\)

**Increase Recycled Water for Irrigation and Industrial Use.** LADWP’s current Water Recycling Capital Budget provides funding for 17 large capital projects that will increase recycled water deliveries from 4,500 AFY to 19,350 AFY by 2014, adding more than 106,300 feet of new pipe and saving potable water for nearly 31,000 households throughout the City.\(^\text{20}\) Potential customers in future years include several parks (Taylor Yard, Elysian, Branford, and Balboa parks); Harbor and Scattergood

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\(^{16}\) *Id. at 18-19.*

\(^{17}\) *Id. at 21.*

\(^{18}\) *Id. at 22.*

\(^{19}\) *Id. at 24.*

\(^{20}\) *Id.*
Generating Stations; Hansen Dam and Van Nuys golf courses; oil refineries in the Harbor area; LAX cooling towers; schools in the Sepulveda Basin, and the Los Angeles Zoo. Under the City’s Water/Wastewater Integrated Resources Plan, 30,250 AFY of treated water will continue to be used to support habitat in the Japanese Gardens, Lake Balboa, the Wildlife Lake and the Los Angeles River.21

Use Recycled Water for Groundwater Replenishment. Advanced treated recycled water can be sent to spreading basins to percolate underground and become part of the City’s groundwater system for later use. This process, also termed groundwater replenishment, is a proven alternative for expanding locally produced, safe, high-quality drinking water. The process has been successfully implemented in Orange County, Australia, and Singapore, and is being considered in other U.S. and worldwide locations.22

Initiate Stakeholder Planning Process. LADWP will engage stakeholders from the Water/Wastewater Integrated Resources Plan (IRP) process in analyzing alternatives necessary for maximizing recycled water. These alternatives include implementing groundwater recharge with advanced treatment in the San Fernando Valley as well as expanding the purple pipe system to supply recycled water for irrigation and industrial uses.23

Upgrade Tillman Wastewater Treatment Plant: Groundwater replenishment will require upgrading the Tillman Plant with state-of-the-art, advanced treatment capability similar to the Orange County Water District’s recently implemented Groundwater Replenishment System, which has received widespread support. Advanced treatment would be constructed at the Tillman Plant, and the highly treated wastewater would be piped to spreading basins for groundwater recharge.24

3.0 Enhancing Stormwater Capture

The City’s goal is to increase groundwater recharge by retrofitting the Big Tujunga Dam and other large-scale projects through cooperative efforts with the Los Angeles County Flood Control District and other agencies. LADWP is moving forward with several stormwater capture projects with the goal of increasing long-term groundwater recharge by a minimum of 20,000 AFY.25 The following are the large-scale projects that are expected to be completed or in construction within the next five years:

Big Tujunga Dam – San Fernando Basin Groundwater Enhancement Project: On September 18, 2007, the LADWP Board approved Agreement No. 47717 to provide $9 million to the Los Angeles County Flood Control District for the construction of the Big Tujunga Dam Project – an effort to seismically retrofit the dam, increase its water storage capacity, improve its reliability as a supply source, enhance flood protection measures, and green the environment. The restoration of the dam is

21 Id.
22 Id.
23 Id. at 25.
24 Id.
25 Id. at 26.
conservatively estimated to result in the additional capture and recharge of 4,500 AFY at the Hansen and Tujunga Spreading Grounds, and more in wet years. The project will make structural improvements to Big Tujunga Dam to restore its historical retention capacity of 6,000 acre-feet; currently the dam is restricted to 1,500 acre-feet of storage capacity.26

- **Schedule:** In construction; scheduled to be completed by December 2010.
- **Budget:** $100 million of which LADWP is providing $9 million.
- **Resources:** Los Angeles County Flood Control District is the project manager.
- **Potential Water Savings:** Capture an additional 4,500 AFY of stormwater on average, up to 10,000 AFY or more in extremely wet years.

**Sheldon-Arleta Project – Cesar Chavez Recreation Complex Project Phase I:**
On December 19, 2006, the Board of Water and Power Commissioners approved Agreement No. 47448 to provide up to $5.25 million to the City of Los Angeles Department of Public Works for the construction of the project (the total project cost is about $9 million). The project will upgrade the methane gas extraction system at the Sheldon-Arleta Landfill that is necessary to allow the full use of the adjacent Tujunga Spreading Grounds. Currently, the spreading grounds are restricted to an operating capacity of 50 cubic feet per second (cfs) or 20 percent of the full operating capacity of 250 cfs.27

- **Schedule:** In construction; scheduled to be completed by early 2009.
- **Budget:** $9 million of which LADWP is providing $5.25 million.
- **Resources:** Los Angeles Department of Public Works is the project manager.
- **Potential Water Savings:** Capture of an additional 6,000 to 10,000 AFY of stormwater.

**Hansen Spreading Grounds Enhancement Project:** LADWP has entered into Agreement No. 47739 to share the costs of the construction of the Hansen Spreading Grounds Project with the District. The project will increase the capacity and efficiency of the spreading grounds by: 1) combining and deepening the existing basins, and 2) installing and building a new rubber dam, intake structure, control house, and upgrading the telemetry system. The Los Angeles County Board of Supervisors approved the agreement on March 11, 2008, and the LADWP Board of Commissioners approved it on April 1, 2008.28

- **Schedule:** In construction; scheduled to be completed by December 2009.
- **Budget:** Up to $15 million; LADWP is providing up to $7.5 million, with remaining costs covered by the LA County Flood Control District.

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26 Id. at 27.
27 Id.
28 Id. at 27-28.
• **Resources:** Los Angeles County Flood Control District is the project manager.
• **Potential Water Savings:** Capture of an additional 1,200 to 3,000 AFY of stormwater.

**Tujunga Spreading Grounds Enhancement Project:** This project proposes to deepen the spreading basins, increase their storage capacity, replace the existing diversion structure with two diversion structures, and add remote automation of the operating structures.\(^{29}\)

• **Schedule:** Planning and design 2009-10; construction in 2011.
• **Budget:** $1.3 million for design; $24 million for construction (LADWP funded).
• **Resources:** LADWP will be the project manager.
• **Potential Water Savings:** Capture of an additional 8,000 to 12,000 AFY of stormwater.

**Pacoima Spreading Grounds Enhancement Project:** This project proposes to deepen the spreading basins, increase their storage capacity, replace existing diversion structure, and add remote automation of the operating structures.\(^{30}\)

• **Schedule:** Planning and design 2010-11; construction in 2012.
• **Budget:** $1.3 million for design; $20 million for construction (LADWP may provide some funding for this project).
• **Resources:** Los Angeles County Flood Control District will be the project manager.
• **Potential Water Savings:** Capture of an additional 1,500 to 3,000 AFY of stormwater.

### 4.0 Accelerating Clean-Up of the San Fernando Groundwater Basin

The City’s goal is to clean up the contaminated San Fernando Groundwater Basin to expand groundwater storage and the ability to fully utilize the City’s groundwater supplies. The result will be a reduction of imported water supply of up to 87,000 AFY – LADWP’s annual allocation of San Fernando Valley groundwater supplies.\(^{31}\) LADWP will also work to ensure that this Basin remains a consistent, stable and reliable resource for years to come. The following actions are proposed to achieve this goal:

**Work with Regulatory Agencies and Governmental Officials:** LADWP will continue to encourage the EPA to develop a long-term, comprehensive solution for existing and emerging contamination issues in the Basin. In addition to the EPA, LADWP will work with the Los Angeles Regional Water Quality Control Board and the

\(^{29}\) Id. at 28.

\(^{30}\) Id.

\(^{31}\) Id. at 29.
California Department of Toxic Substances to find and hold polluters accountable for cleaning up the Basin.\textsuperscript{32}

**Groundwater System Improvement Study (GSIS):** LADWP will conduct a comprehensive groundwater study for the Basin. This study is a necessary step to evaluate the groundwater quality in the Basin and recommend treatment options to maximize the utility of the groundwater supply.\textsuperscript{33}

- **Schedule:** Contract award in early-2009; contract term is 6 years.
- **Budget:** $11.5 million (LADWP funded).
- **Resources:** LADWP will serve as contract manager and administrator.
- **Benefit:** Will provide vital information to develop a long-term strategy to remediate groundwater contamination in the San Fernando Basin.

**Monitoring Well Drilling Contract:** LADWP will install up to 40 new monitoring wells throughout the Basin to provide vital water quality information necessary for the Groundwater System Improvement Study.\textsuperscript{34}

- **Schedule:** Construction contract award in mid-2009; contract term is 2 years.
- **Budget:** $8.0 million (LADWP funded).
- **Resources:** LADWP will serve as contract manager and administrator.
- **Benefit:** The monitoring wells be routinely sampled during and after the GSIS to provide vital information on groundwater contaminants and their concentration levels.

**Interim Wellhead Treatment:** LADWP will install interim treatment for select wellheads in the Tujunga Well Field in order to maintain groundwater pumping production. An amount of $3 million has been included in the budget for this work.\textsuperscript{35}

### 5.0 Expanding Groundwater Storage

LADWP is investigating opportunities for increased storage of groundwater, creating a cost-effective, environmentally friendly reserve of water resources in case of extreme drought or other emergencies. Currently, the City has significant amounts of stored groundwater in the San Fernando Basin. However, as noted above, contamination restricts the ability to effectively utilize this resource.\textsuperscript{36}
LADWP is investigating the following opportunities: groundwater storage along the Los Angeles Aqueduct; a groundwater conjunctive use storage project in the Los Angeles County groundwater basins; and construction of an interconnection between the Los Angeles Aqueduct and the California Aqueduct, located where the two aqueducts intersect in the Antelope Valley. The interconnection will allow for water transfers or exchanges, and could be used to help move water to facilitate groundwater storage opportunities. The design phase of the interconnection is almost complete. LADWP is waiting for a permit to build on land owned by DWR. LADWP plans to begin construction in 2009.  

Water Supplies

The Los Angeles Aqueducts (LAA), local groundwater, purchased water from the MWD, and recycled water are the primary sources of water supplies for the City of Los Angeles. Table III shows LADWP water supplies over the last ten years from these sources.

<table>
<thead>
<tr>
<th>Year</th>
<th>Los Angeles Aqueducts</th>
<th>Local Groundwater</th>
<th>MWD</th>
<th>Recycled Water</th>
<th>Transfer, Spread, Spills, and Storage</th>
<th>Total</th>
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<td>1998</td>
<td>466,836</td>
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<td>1,401</td>
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<td>2007</td>
<td>129,400</td>
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<td>439,436</td>
<td>3,639</td>
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<td>2008</td>
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<td>60,149</td>
<td>429,110</td>
<td>7,051</td>
<td>1,664</td>
<td>642,011</td>
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Note: Units are in AF

Los Angeles Aqueducts

Snowmelt runoff from the Eastern Sierra Nevada Mountains is collected and conveyed to the City of Los Angeles via the Los Angeles Aqueducts (LAA). LAA supplies come primarily from snowmelt and secondarily from groundwater pumping, and can fluctuate yearly due to the varying hydrologic conditions. In recent years, LAA supplies have been less than the historical average because of environmental restoration obligations in Mono and Inyo Counties.

The City holds water rights in the Eastern Sierra Nevada where LAA supplies originate. These supplies originate from both streams and from groundwater. In 1905, the City approved a bond measure for the purchase of land and water rights in the Owens River

37 Id. at 31.
Valley. By 1913, the First LAA began its deliveries of water to the City primarily from surface water diversions from the Owens River and its tributaries. Historically, these supplies were augmented from time to time by groundwater extractions from beneath the lands that the City had purchased in the Owens Valley.

In 1940, the First LAA was extended north to deliver Mono Basin water to the City pursuant to water rights permits and licenses granted by the State Water Resources Control Board. In 1970, the Second LAA was completed increasing total delivery capacity of the LAA system to approximately 561,000 AF per year. The Second Los Angeles Aqueduct was to be filled by completing the Mono Basin diversions originally authorized in 1940, by a more effective use of water for agricultural purposes on City-owned lands in the Owens Valley and Mono Basin and by increased groundwater pumping from the City's lands in the Owens Valley.

In 1972, Inyo County filed a California Environmental Quality Act lawsuit challenging the City's groundwater pumping program for the Owens Valley. The lawsuit was finally ended in 1997, with the County of Inyo and the City of Los Angeles entering into a long-term water agreement for the management of groundwater in the Owens Valley. That water agreement, entered as a judgment of the Superior Court in the County of Inyo (County of Inyo vs. City of Los Angeles, Superior Court No. 12908) outlines the management of the City's Owens Valley groundwater resources. As a result of this water agreement and subsequent Memorandum of Understanding, LADWP has dedicated 37,000 AF of water annually for enhancement and mitigation projects throughout Owens Valley which includes the rewatering of 62 miles of the Lower Owens River. LADWP also provides approximately 80,000 AF of water annually for other uses in the Owens Valley such as irrigation, town water supplies, stockwater, wildlife and recreational purposes.

Further, in September 1994 by virtue of the public trust doctrine, the State Water Resources Control Board issued Decision 1631 which placed conditions on LADWP's water gathering activities from Mono Basin. LADWP currently export approximately 16,000 AF of water annually from the Mono Basin. LADWP has implemented an extensive restoration and monitoring programs in Mono Basin to increase the level of Mono Lake and to improve stream conditions, fisheries and waterfowl habitats in Walker, Parker, Rush and Lee Vining Creeks. With reduced diversions from the Mono Basin and favorable hydrologic conditions, Mono Lake's elevation has risen overtime. Once the elevation of Mono Basin reaches 6,391 feet above mean sea level, a moderate increase in water exports from the Mono Basin will be permitted pursuant to the Decision 1631. Currently, up to 74,000 AF of water annually is being utilized for environmental restoration in Mono Basin.

In July 1998, LADWP and the Great Basin Unified Air Pollution Control District (GBUAPCD) entered into a Memorandum of Agreement to mitigate dust emissions from Owens Lake. As of December 31, 2008, LADWP has mitigated dust emissions from 29.8 square miles of Owens Lake in accordance with the GBUAPCD's 2003 revised State Implementation Plan. LADWP is currently working on mitigating dust emissions from an additional 12.7 square miles of Owens Lake in accordance with the GBUAPCD's 2008 State Implementation Plan. Upon completion of this latest phase by April 2010, LADWP would have mitigated dust emissions from 42.5 square miles of Owens Lake requiring approximately 95,000 AF of water annually to sustain the dust mitigation program.
Average deliveries from the LAA system has been approximately 262,550 AF of water annually over the last five fiscal years. Based on computer modeling results, LADWP projects that the average annual LAA delivery is expected to be approximately 230,000 AF.

**Groundwater**

LADWP traditionally extracts groundwater from various locations throughout the Owens Valley and four local groundwater basins. LADWP owns extensive property in the Owens Valley. LADWP appropriates groundwater from beneath its lands for use in the Owens Valley and in Los Angeles. It has a long-term groundwater management plan in place. Additionally, LADWP currently exercises its adjudicated extraction rights in three local groundwater basins: San Fernando, Sylmar, and Central.

The Owens Valley, located on the eastern slope of the Sierra Nevada Mountains, encompasses approximately 3,300 square miles of drainage area. LADWP has extracted the following quantities of groundwater from the Owens Valley in the last five runoff years (April1 – March 31):

- 2003-2004 87,726 AF
- 2004-2005 86,820 AF
- 2005-2006 57,412 AF
- 2006-2007 58,621 AF
- 2007-2008 60,337 AF

Owens Valley is not identified as an overdrafted basin in the California Department of Water Resources California’s Groundwater Bulletin 118 Update 2003. Further, Bulletin 118 Update 2003 does not project the Owens Valley to become overdrafted if present groundwater management conditions continue.

In 1990, the City of Los Angeles and Inyo County as part of the preparation of the long-term groundwater management agreement, prepared the "Green Book for the Long-Term Groundwater Management Plan for the Owens Valley and Inyo County". It contains plans and procedures to prevent overdraft conditions from groundwater pumping as well as to manage vegetation in the Owens Valley.

The San Fernando and Sylmar basins are subject to the judgment in City of San Fernando vs. the City of Los Angeles. Pumping is reported to the court-appointed Upper Los Angeles River Area (ULARA) Watermaster. The Central Basin is also subject to court judgments. Pumping is reported to the California Department of Water Resources (DWR) who acts as Watermaster.

The San Fernando Basin is the largest of four basins within ULARA. The basin consists of 112,000 acres of land and comprises 91.2 percent of the ULARA valley fill. LADWP has accumulated nearly 375,190 AF of stored water credit in the San Fernando Basin as of October 2007. This is water LADWP can withdraw from the basin during normal and dry years or in an emergency, in addition to LADWP’s approximately 87,000 AF annual entitlement in the basin. The majority of LADWP’s groundwater is extracted from the San Fernando Basin. Sylmar Basin is located in the northern part of the ULARA, consisting of
5,600 acres and comprises 4.6 percent of the ULARA valley fill. LADWP currently has an annual entitlement of 3,405 AF from the Sylmar Basin.

The court decision on pumping rights in the ULARA was implemented in a judgment on January 26, 1979. Enclosed with the assessment are copies of those pages from the judgment showing the entitlements (see Appendix E). Further information about the ULARA basin is in the ULARA Watermaster Report. The ULARA Watermaster report and the judgment are available for review at the office of the ULARA Watermaster.

LADWP additionally has adjudicated rights to extract groundwater from the Central Basin. Annual entitlement to the Central Basin is 15,000 AF. See Appendix E for copies of relevant portions of the judgments. The complete judgments are available for review at DWR.

For the period of October 2007 to September 2008, LADWP extracted 50,009 AF, 2,996 AF, and 10,754 AF from the San Fernando, Sylmar, and Central Basins, respectively. LADWP plans to continue production from its groundwater basins in the coming years to offset reductions in imported supplies. Extraction from the basins will however be limited by water quality and overdraft protection. Both LADWP and DWR have programs in place to monitor wells to prevent overdrafting. LADWP's groundwater pumping practice is based on a “safe yield” operation. The objective, over a period of years, is to extract an amount of groundwater equal to the native and imported water that recharges. Extractions by LADWP from the San Fernando, Sylmar, and Central Basins for the last available 5 years are shown on Table IV.

**TABLE IV**

Local Groundwater Basin Supply

<table>
<thead>
<tr>
<th>Water Year</th>
<th>San Fernando</th>
<th>Sylmar</th>
<th>Central</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Oct-Sep)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2003-2004</td>
<td>68,626</td>
<td>3,033</td>
<td>15,209</td>
</tr>
<tr>
<td>2004-2005</td>
<td>49,085</td>
<td>1,110</td>
<td>13,401</td>
</tr>
<tr>
<td>2005-2006</td>
<td>38,042</td>
<td>2,175</td>
<td>13,725</td>
</tr>
<tr>
<td>2006-2007</td>
<td>76,251</td>
<td>3,919</td>
<td>13,609</td>
</tr>
<tr>
<td>2007-2008</td>
<td>50,009</td>
<td>2,996</td>
<td>10,754</td>
</tr>
</tbody>
</table>

Note: Units are in AF

**Metropolitan Water District of Southern California (MWD)**

MWD is the largest water wholesaler for domestic and municipal uses in Southern California. As one of 26 member agencies, LADWP purchases water from MWD to supplement LADWP supplies from local groundwater and the LA. MWD imports a portion of its water supplies from Northern California through the State Water Project’s California Aqueduct and from the Colorado River through MWD’s own Colorado River Aqueduct. LADWP will continue to rely on MWD to meet its current and future supplemental water needs.

All 26-member agencies have preferential rights to purchase water from MWD. Pursuant to Section 135 of the MWD Act, “Each member public agency shall have a preferential
right to purchase from the district for distribution by such agency, or any public utility therein empowered by such agency for the purpose, for domestic and municipal uses within the agency a portion of the water served by the district which shall, from time to time, bear the same ratio to all of the water supply of the district as the total accumulation of amounts paid by such agency to the district on tax assessments and otherwise, excepting purchase of water, toward the capital cost and operating expense of the district's works shall bear to the total payments received by the district on account of tax assessments and otherwise, excepting purchase of water, toward such capital cost and operating expense." This is known as a preferential right. As of June 30, 2006, LADWP has a preferential right to purchase 21.16 percent of MWD’s total water supply.

LADWP has worked with MWD in developing a framework for allocating water supplies during periods of shortage as well as surplus. MWD has a Water Surplus and Drought Management Plan that provides such a framework. LADWP intends to work within the framework established through the Water Surplus and Drought Management Plan in acquiring its drought supplies from MWD in the future.

MWD has also been developing plans and taking efforts to provide additional water supply reliability for the entire southern California region. LADWP coordinates closely with MWD to ensure implementation of these water resource development plans. Part of this planning effort is the inclusion of a “buffer” supply that is meant to protect against uncertainties in water resource supply like the Federal Courts restrictions on export pumping from the San Francisco Bay-Delta. MWD’s long-term plans to meet its member agencies’ growing reliability needs are through water transfer programs, outdoor conservation measures, and development of additional local resources, such as recycling, brackish water desalination, and seawater desalination. Additionally, MWD has more than 5.0 million AF of storage capacity available in reservoirs and banking/transfer programs, with approximately 1.08 million AF currently in that storage.

MWD established a policy objective for water supply reliability as part of its Integrated Resources Plan (IRP). The policy objective is: Through the implementation of the IRP, MWD and its member agencies will have the full capability to meet full-service demands at the retail level at all times.

Recent Issues Related to the State Water Project

Federal ESA Litigation filed by several environmental interest groups in the United States District Court for the Eastern District of California alleged that existing biological opinions and incidental take statements inadequately analyzed impacts on listed species under the Federal ESA. On May 25, 2007, Federal District Judge Wanger issued a decision on summary judgment finding the United States Fish and Wildlife Service’s biological opinion for Delta smelt was invalid. On December 14, 2007, Judge Wanger issued his Interim Remedial Order requiring that the State Water Project and Central Valley Project operate according to certain specified criteria until a new biological opinion for the Delta smelt is issued. The United States Fish and Wildlife Service released the new biological opinion on December 15, 2008. Based on the Water Allocation Analysis released by the Department of Water Resources on December 19, 2008, which analyzed the biological opinion’s effects on State Water Project operations, export restrictions under median
hydrologic conditions could reduce deliveries to Metropolitan by 300,000 to 700,000 acre-feet for 2009. These events have highlighted the challenges that water suppliers throughout the state currently face regarding supplies from the Delta.

At present, several on-going proceedings concerning Delta operations are evaluating options to address delta smelt impacts and other environmental concerns. Governor Schwarzenegger’s cabinet-level advisors, the Delta Vision Committee (Committee), released recommendations contained in the Delta Vision Implementation Report on January 2, 2009. This report considered the recommendations detailed in the Delta Vision Blue Ribbon Task Force (BRTF) Delta Vision Strategic Plan (October 2008) report. The Committee’s report recommended a comprehensive solution that includes dual conveyance (construction beginning in 2011), water use reductions, additional groundwater storage, completion of surface storage investigations, a major commitment to local resource development, habitat improvements, and commitments to the Delta as a “unique and valued place.” In addition, the report recognizes the urgency of the water supply crisis facing the state and that action must be taken immediately to ensure a sustainable future for California’s water supply. The Committee embraced the primary conclusion that California’s Delta must be managed with two fundamental co-equal goals and these goals should be incorporated into state law: “Restore the Delta ecosystem and create a more reliable water supply for California.”

The Committee prioritized the following fundamental actions for a sustainable Delta:

- The report recommends the following immediate actions:
  - Complete the Bay Delta Conservation Plan (BDCP);
  - Construct Delta gates and barriers in 2009 for water quality, water supply, and ecosystem improvements.
  - Manage non-water-supply-related stressors in the Delta system (e.g. invasive species, urban stormwater runoff, agricultural drainage, and wastewater discharges).
  - Revise regulatory flow and water quality requirements, including “streamflow recommendations throughout the annual hydrograph for tributaries to the Delta.”

- A new system of dual water conveyance (construction beginning in 2011) through and around the Delta to protect municipal, agricultural, environmental, and the other beneficial uses of water;
- An investment commitment and strategy to restore and sustain a vibrant and diverse Delta ecosystem, including the protection and enhancement of agricultural lands that are compatible with the Plan’s goals;
- Additional storage to allow greater system operational flexibility that will benefit water supplies for both humans and the environment and to adapt to a changing climate;
- An investment plan to protect and enhance unique and important characteristics of the Delta region;
- A comprehensive Delta emergency preparedness strategy and a fully integrated Delta emergency response plan;
- A plan to significantly improve and provide incentives for water conservation – through both wise use and reuse – in both urban and agricultural sectors throughout the state;
• Strong incentives for local and regional efforts to make better use of new sources of water such as brackish water cleanup and seawater desalination; and
• An improved governance system that has reliable funding, clear authority to determine priorities and strong performance measures to ensure accountability to the new governing doctrines controlling the Delta.

The Committee acknowledged the urgency of moving forward toward a “Delta Fix.” It also proposed a timeline for immediate interim actions and a phased implementation of most of the supporting strategies from the BRTF’s Delta Vision Strategic Plan.

In response to these recent developments in the Delta, MWD is engaged in planning processes that will identify local solutions that, when combined with the rest of its supply portfolio, will ensure a reliable long-term water supply for its member agencies. In the near-term MWD will continue to rely on the plans and policies outlined in its Regional Urban Water Management Plan (RUWMP) and Integrated Water Resources Plan to address water supply shortages and interruptions (including potential shut downs of SWP pumps) to meet water demands. Campaigns for voluntary conservation, curtailment of replenishment water and agricultural water delivery are some of the actions outlined in the RUWMP. If necessary, reduction in municipal and industrial water use and mandatory water allocation could be implemented. An in-depth discussion on MWD is attached in Appendix G.

Secondary Sources and Other Considerations

Water conservation and recycling will play an increasing role in meeting future water demands. LADWP has implemented conservation and recycling programs with efforts under way to further promote and increase the level of these programs. LADWP is committed to supply a higher percentage of the City’s water demand through conservation and recycling.

Integrated planning has also filled an important role in developing secondary sources of supply for Los Angeles. It is generally true for large undertakings that a concerted effort with others who share a common goal will produce a higher degree of success. This is an approach that has been taken in Southern California with overall water resources planning. The City of Los Angeles works closely with MWD, the City’s Bureau of Sanitation (wastewater agency), other regional water providers, and various stakeholder groups to develop and implement programs that reduce overall water use. The City has also pioneered community-based job programs to assist in conservation program implementation. While significantly assisting with program implementation, these community-based organizations also provide important social and economic benefits to neighborhoods.

Integrated resources planning is a process that is being used by many water and wastewater providers to meet their future needs in the most effective way possible, and with the greatest public support. The planning process differs from traditional planning processes in that it incorporates:

• public stakeholders in an open, participatory process;
- multiple objectives such as reliability, cost, water quality, environmental stewardship, and quality of life;
- risk and uncertainty; and
- partnerships with other agencies, institutions, and non-governmental organizations.

Through integrated planning, not only water-use efficiency and recycling activities are maximized, but potential alternative supplies such as water transfer, seawater desalination, and stormwater runoff reuse are considered and evaluated as part of the City's long-term water resources portfolio.

**Rates**

Capital costs to finance facilities for the delivery of water supply to LADWP's service area are supported through customer-billed water rates. The LADWP Board of Commissioners (Board) sets the rates subject to approval of the City Council by ordinance.

The Board is obligated by the City Charter to establish water rates and collect charges in an amount sufficient to service the water system indebtedness and to meet its expenses of operation and maintenance.

The water rate structure contains water procurement adjustments under which the cost of purchased water from MWD, demand-side management programs which includes water conservation programs, and reclaimed water projects are recovered. In addition, the rate structure contains a water quality improvement adjustment to recover expenditures to upgrade and equalize water quality throughout the City of Los Angeles and to construct facilities to meet state and federal water quality standards, including the payment of debt service on bonds issued for such purposes.

LADWP Board-approved capital program expenditures are either financed through the sale of revenue bonds or the cost of the program is transferred to LADWP customers through rate adjustments.

**Findings**

The proposed Port of Los Angeles Wilmington Waterfront Development Project is estimated to increase water demand within the site by 16 acre feet annually based on review of information submitted by the Harbor Department.

The approximately 16 acre feet increase falls within the available and projected water supplies for normal, single-dry, and multiple-dry years through the year 2030 as described in LADWP's year 2005 UWMP. LADWP finds that it will be able to meet the water demand of the Port of Los Angeles Wilmington Waterfront Project as well as existing and planned future water demands of its service area.
Appendix A

The Los Angeles Harbor Department
Request for Water Supply Assessment
June 17, 2008

Mr. James McDaniel
Senior Assistant General Manager for Water Systems
City of Los Angeles
Department of Water and Power
111 North Hope Street, Room 1460
Los Angeles, CA 90012

SUBJECT: REQUEST FOR WATER SUPPLY ASSESSMENT FOR THE PORT OF LOS ANGELES WILMINGTON WATERFRONT DEVELOPMENT PROJECT

Dear Mr. McDaniel:

The Los Angeles Harbor Department (Harbor Department) is the Lead Agency, pursuant to the California Environmental Quality Act (CEQA), for the Environmental Impact Report (EIR) that is being prepared for the Wilmington Waterfront Development Project (proposed Project). Pursuant to State CEQA guidelines Section 15155(a)(1)(G), it appears the proposed Project would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project. For this reason, the Harbor Department will need to comply with the water supply assessment requirements of the State Water Code (Sections 10910-10915). Therefore, we are requesting a water supply assessment from the Department of Water and Power (DWP) to determine the DWP's ability to meet the water demands of the proposed Project. The following information is intended to aid the DWP in the preparation of the requested water supply assessment.

Planning Area and Required Discretionary Actions

For the proposed Project area, the two governing land use planning documents are the General Plan of the City of Los Angeles (General Plan) and the Port Master Plan. The land use element of the General Plan is comprised of 35 Community Plans, which guide future development in the city. The proposed Project area is located within two of the 35 Community Plans: the Port of Los Angeles Community Plan and the Wilmington-Harbor City Community Plan. The Port Master Plan was certified by the California Coastal Commission and guides development within the Port.

6/20/08 Tom Erb: For necessary attention (WSA processing fee check is enclosed)
km  c: Jim McDaniel

6/23/08 David Pettijohn: For preparation of Water Supply Assessment
Cf: Fatema Akhtar
The proposed Project would require a General Plan amendment, a Port Master Plan minor amendment, and a Rezone from Public Facilities (PF) to Open Space (OS) to maintain consistency between the proposed Project land uses and the Port of Los Angeles Community Plan, the Wilmington-Harbor City Community Plan, Port Master Plan and underlying City of Los Angeles Municipal Code.

These amendments would include changes from the existing land use designations and zoning designations to ones that allow for recreational uses, open space uses, and commercial uses within the proposed Project area. Additionally, the proposed Project includes a General Plan Amendment and a Port Master Plan Amendment to expand the boundaries of the Port as a potential project action. If this action were taken, under the General Plan Amendment, the existing boundary of the Port of Los Angeles Community Plan would expand north to C Street and east to west between Broad Avenue and Lagoon Avenue. This amendment would also include a reduction of the existing Wilmington-Harbor City Community Plan boundary in the same area. The Port Master Plan Amendment would expand the existing Port Boundary as currently identified in the Port Master Plan north to C Street and east to west between Broad Avenue and Lagoon Avenue. Thus, the Port boundary under the Port of Los Angeles Community Plan and the Port Master Plan would be consistent should the community plan boundaries be modified. Other permits required to implement the proposed Project include a Harbor Development Permit and ministerial construction permits to allow for site grading, building demolition, and building construction.

Project Setting and Location

LAHD operates the Port under the legal mandates of the Port of Los Angeles Tidelands Trust (Los Angeles City Charter, Article VI, Sec. 601; California Tidelands Trust Act of 1911) and the California Coastal Act (PRC Div 20 S30700 et seq.), which identify the Port and its facilities as a primary economic/coastal resource of the state and an essential element of the national maritime industry for promotion of commerce, navigation, fisheries, and harbor operations. LAHD is chartered to develop and operate the Port to benefit maritime uses and functions as a landlord by leasing Port properties to more than 300 tenants. The Port is located at the southernmost portion of the City and is composed of 45 kilometers (28 miles) of waterfront and 3,035 hectares (7,500 acres) of land and water, with approximately 300 commercial berths. The Port is bound by the community of San Pedro to the west, the Wilmington community to the north, the Port of Long Beach to the east, and the Pacific Ocean to the south.

The Project area encompasses approximately 58 acres with portions located within the existing boundaries of the Port of Los Angeles Community Plan, the existing Wilmington-Harbor City Community Plan and the existing Port Master Plan. It is adjacent to the community of Wilmington, to the north, and, the proposed Project is west of the nearby San Pedro community. The Project site is generally bounded by Lagoon Avenue to the west, Broad Avenue to the east, C Street to the north, and Banning's Landing and Slip No. 5 at the south in the Wilmington and Port areas, respectively. The site also includes the Red Car and California Coastal Trail linkage.
beginning in the west at Vincent Thomas Bridge, moving along Front Street to John S. Gibson Boulevard, and then along Harry Bridges Boulevard until it reaches Avalon Boulevard in the east.

Existing Conditions

The Industrial District/Avalon Corridor is generally composed of industrial buildings and vacant lots along the north side of Harry Bridges Boulevard, between Lagoon Avenue and Broad Avenue south of C Street, and a block located south of Harry Bridges Boulevard between Avalon Boulevard and Marine Avenue. The majority of this area is owned or leased by the Port. The Wilmington Waterfront District generally includes all land south of A Street to the Waterfront. Currently, it is comprised of the following existing land uses: the existing Banning’s Landing Community Center, the existing Catalina Freight building, the existing National Polytechnic College of Science, as well as DWP-owned land and two large oil storage tanks north of Water Street and South of A Street and vacant land. The DWP Power Plant Area is generally to the west of the Wilmington Waterfront District and south of the Industrial District/Avalon Corridor. This area primarily consists of the Harbor Steam Plant, existing DWP owned vacant lots, a peaker power station, and other DWP electrical infrastructure. Finally, the Avalon Triangle Park area, to the southeast of the Industrial District/Avalon Corridor currently consists of a vacant lot. (See Figure 1 identifying existing conditions).

Table 1 below identifies the existing land uses, the square footage, and the water demand of the existing uses which will be altered or changed under the proposed project.
### Table 1: Estimate of Existing Water Use

<table>
<thead>
<tr>
<th>Location</th>
<th>Existing Land Use</th>
<th>General Land Use</th>
<th>Bldg or Parcel Square Footage</th>
<th>Generation Factor Used to Estimate GPD&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Gallons per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial District/Avalon Corridor</td>
<td>Bekins Warehouse Building</td>
<td>Warehouse</td>
<td>14,500</td>
<td>22.2 gpd/ 1000 gr. Sq. ft.</td>
<td>321.9</td>
</tr>
<tr>
<td>Industrial District/Avalon Corridor</td>
<td>Private buildings South of Harry Bridges, North of A Street, between Avalon Blvd and Marine</td>
<td>Warehouse</td>
<td>41,260</td>
<td>22.2 gpd/ 1000 gr. Sq. ft.</td>
<td>915.97</td>
</tr>
<tr>
<td>Industrial District/Avalon Corridor</td>
<td>DWP owned vacant lots south of Harry Bridges, north of A Street, between Avalon Blvd and Marine</td>
<td>Vacant, barren lot</td>
<td>41,260</td>
<td>Assume 0 gallons per day</td>
<td>0</td>
</tr>
<tr>
<td>Industrial District/Avalon Corridor</td>
<td>Police trailer (SE corner of C Street and Marine Ave)</td>
<td>Office/ Commercial</td>
<td>1,440</td>
<td>88.8 gpd/ 1000 gr. Sq. ft.</td>
<td>127.87</td>
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<tr>
<td>Industrial District/Avalon Corridor</td>
<td>All POLA owned property north of Harry Bridges without buildings</td>
<td>Vacant, barren lots</td>
<td>362,456</td>
<td>Assume 0 gallons per day</td>
<td>0</td>
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<tr>
<td>Industrial District/Avalon Corridor</td>
<td>All POLA owned property south of Harry Bridges, north of A Street, between Avalon Blvd and Marine without buildings</td>
<td>Vacant, barren lots</td>
<td>55,162</td>
<td>Assume 0 gallons per day</td>
<td>0</td>
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<tr>
<td>Wilmington Waterfront</td>
<td>DWP Oil Tanks</td>
<td>Vacant, barren Lot</td>
<td>117,930</td>
<td>Assume 0 gallons per day</td>
<td>0</td>
</tr>
<tr>
<td>Wilmington Waterfront</td>
<td>DWP Oil Tank Supporting Buildings</td>
<td>Warehouse</td>
<td>19,000</td>
<td>22.2 gpd/ 1000 gr. Sq. ft.</td>
<td>421.8</td>
</tr>
<tr>
<td>Wilmington Waterfront</td>
<td>DWP owned vacant lot along Avalon</td>
<td>Vacant, Barren Lot</td>
<td>98,900</td>
<td>Assumes 0 Gallons per day</td>
<td>0</td>
</tr>
</tbody>
</table>

<sup>1</sup> Water generation factors are based on 111% of sewage generation factors given for different land uses in LA CEQA Thresholds Guide.
<table>
<thead>
<tr>
<th>Location</th>
<th>Existing Land Use</th>
<th>General Land Use</th>
<th>Bldg or Parcel Square Footage</th>
<th>Generation Factor Used to Estimate</th>
<th>Gallons per Day</th>
</tr>
</thead>
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<tr>
<td>Wilmington Waterfront</td>
<td>a small support building on DWP owned vacant lot along Avalon</td>
<td>Warehouse</td>
<td>875</td>
<td>22.2 gpd/ 1000 gr. Sq. ft.</td>
<td>19.42</td>
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<td>Wilmington Waterfront</td>
<td>parking lot (south/southwest of Water Street and Railroad, North of Slip 5)</td>
<td>Parking</td>
<td>50,850</td>
<td>22.2 gpd/ 1000 gr. Sq. ft.</td>
<td>1,128.87</td>
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<tr>
<td>Wilmington Waterfront</td>
<td>Catalina Freight buildings</td>
<td>Warehouse</td>
<td>30,860</td>
<td>22.2 gpd/ 1000 gr. Sq. ft.</td>
<td>685.1</td>
</tr>
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<td>Wilmington Waterfront</td>
<td>National Polytechnic College of Science Hyperbaric Chamber Building</td>
<td>Trade or Vocational School (per students)</td>
<td>2,370  (Assumes 25 students)</td>
<td>13.32 gpd/ student</td>
<td>333</td>
</tr>
<tr>
<td>Wilmington Waterfront</td>
<td>SE corner of Harry Bridges Blvd and Avalon Blvd</td>
<td>Vacant, barren Lot</td>
<td>58,609.36</td>
<td>Assume 0 gallons per day</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3,953.93</td>
</tr>
</tbody>
</table>

**Purpose of the Proposed Project**

The overall purposes of the proposed Project are to increase public access to the waterfront, improve pedestrian connectivity from the Wilmington Community to the waterfront, allow additional visitor-serving commercial and recreational development; and improve the local economy and economic sustainability of the community by improving the industrial area along Harry Bridges Boulevard and Avalon Boulevard. The proposed Project seeks to achieve these goals by improving existing infrastructure and providing new infrastructure facilities, providing waterfront linkages and pedestrian enhancements, developing neighborhood and regional recreational open space, and by providing increased development and redevelopment opportunities in the industrial corridor and at the Waterfront District.

**Estimate of Proposed Project Water Use**

Major elements of the proposed Project that alter the existing conditions and could require additional water beyond what is already currently being provided include the following:

- Open Space and Recreational Facilities throughout the entire proposed project area:
  - 8.56- acre open lawn in the Industrial District/Avalon Corridor Area and the Wilmington Waterfront District including all open lawn associated with the
Railroad Green, the SE corner of Avalon Blvd and Harry Bridges for the plaza and the land bridge.

- 1.04-acres of shrub vegetation with irrigation along the Red Car Line/Pedestrian Corridor/California Coastal Trail
- Four new water features (1 in Industrial District/Avalon Corridor Area and 3 in Wilmington Waterfront District)
- Approximately 456 trees throughout the entire project area

- A total of 70,000 square feet of Commercial development in the Industrial District/Avalon Corridor area:
  - 12,000 square feet of restaurant facilities
  - 58,000 square feet of retail/mercado facilities

- Light Industrial development in the Industrial District/Avalon Corridor area;
  - 150,000 square feet of light industrial building space north of Harry Bridges Boulevard
  - Adaptive Reuse of the Bekins Storage Property (14,500 sq ft building) for a Red Car Museum

- Circulation & Parking in the Wilmington Waterfront District area:
  - Three (3) surface parking lots: one lot providing 51 spaces off of Fries Avenue, the second lot providing 71 spaces north of Banning’s Landing under the pedestrian water bridge, and the third providing 148 spaces on the existing LADWP site

See Figure 2 for the identification and location of these major project components. See Figure 3 for a conceptual rendering of the proposed Project and how it would be incorporated within the surrounding landscape.

**Estimate of Proposed Project Water Use Assumptions**

The following five assumptions are made in order to generate the water supply estimate for the proposed project.
1. The water feature daily demands are based on evaporation rates and seepage and splashing rates, which have been established based on typical conditions for the region.

2. The irrigation daily demands are based on typical irrigation demands for the different surface covers:
   - 1,600,000 gallons per acre per year for lawns (excluding Avalon Triangle Park) or 1 inch per week
   - 800,000 gallons per acre per year for shrubs and trees or 0.5 inch per week

3. In accordance with the Harbor Department's commitment to reduce and conserve the amount of water used in the proposed Project area, infrastructure would be incorporated to support the use of reclaimed water for landscaping purposes (parks, road medians). Therefore, the proposed project will use recycled water from the Terminal Island Reverse Osmosis facility. Currently, there is a 24 inch recycled water mainline that runs from Terminal Island to Harry Bridges Boulevard and along Broad Avenue. The proposed project would include adding several mainlines off of this existing line so that all landscaping and water features would be supplied with recycled water (Per Table 2 a total of 49,950 gallons per day).

4. The proposed project includes a restroom with 6 toilets, 2 urinals, and 4 sinks. The restroom demand is based on expected daily use of the park. This value is expected to vary greatly over the course of the year. It is also expected to be greatly influenced by the scheduling of events at the park that may draw greater crowds.

5. Please note, since the proposed Project includes a General Plan amendment to alter the boundaries of the Port of Los Angeles Community Plan, the Wilmington-Harbor City Community Plan, and Port Master Plan some of the land uses within the proposed Project boundary will either not change or are being addressed under different projects. Therefore, we have identified the following existing on-site structures, buildings, and land uses that would not change or be altered under the proposed Project and are only included as part of the General Plan Amendment and Port Master Plan Amendment as they relate to the boundary change. The difference between the water demand of these land uses as they exist compared with their water demand under the proposed Project scenario would remain the same. Thus, these existing land uses are not included in the Estimate of Existing Water Use table or the Estimate of Proposed Water Use table.

   - All uses within the DWP Power Plant Area will remain in their existing conditions and capacities.
   - Banning's Landing Community Center will remain in its existing condition and capacity.
   - All existing industrial and commercial buildings located north of Harry Bridges Boulevard that are leased from the Port will remain in their existing conditions and
capacities, with the exception of the Bekins' Property Building which will remain, though it would be adaptively reused and modified from a warehouse to a museum.

- All existing industrial and commercial buildings located north of Harry Bridges Boulevard that are privately owned will remain in their existing conditions and capacities.
- The existing College of Oceaneering and associated parking facilities will remain in its existing condition and capacity.
- Avalon Triangle Park will remain in its existing capacity and will be constructed and operated as a park under a separate project.

Table 2 below identifies the proposed land uses, the square footage, and the water demand of the proposed Project uses.
Table 2 Estimate of Proposed Project Water Use

<table>
<thead>
<tr>
<th>Location</th>
<th>Proposed project Designated land Use</th>
<th>General Land Use</th>
<th>Units</th>
<th>Generation Factor Used to Estimate GPD</th>
<th>Gallons per Day¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial District/Avalon Corridor area</td>
<td>Restaurant assuming 100 seats</td>
<td>Commercial</td>
<td>12,000 square feet of buildings</td>
<td>33.3 gpd/seat for full service indoor restaurants</td>
<td>3,330</td>
</tr>
<tr>
<td>Industrial District/Avalon Corridor area</td>
<td>Mercado</td>
<td>Commercial</td>
<td>58,000 square feet of buildings</td>
<td>88.8 gpd/1000 gr. Sq. ft.</td>
<td>5,150.4</td>
</tr>
<tr>
<td>Industrial District/Avalon Corridor area</td>
<td>Light Industrial</td>
<td>Light Industrial</td>
<td>150,000 square feet of buildings</td>
<td>88.8 gpd/1000 gr. Sq. ft.</td>
<td>13,320</td>
</tr>
<tr>
<td>Industrial District/Avalon Corridor area</td>
<td>Adaptive Reuse of Bekins Storage Property</td>
<td>Museum</td>
<td>14,500 square feet of buildings</td>
<td>22.2 gpd/1000 sf</td>
<td>321.9</td>
</tr>
<tr>
<td>Industrial District/Avalon Corridor area</td>
<td>Lagoon Water Feature</td>
<td>Water Feature</td>
<td>N/A</td>
<td>See Text Above</td>
<td>16</td>
</tr>
<tr>
<td>Industrial District/Avalon Corridor area</td>
<td>Rail Road Green</td>
<td>Open Lawn</td>
<td>1 acre (43,560 square feet)</td>
<td>See Text Above</td>
<td>38,220</td>
</tr>
<tr>
<td>Wilmington Waterfront District</td>
<td>Land bridge and other Wilmington Waterfront Landscaped areas</td>
<td>Open Lawn</td>
<td>7.56 acres (372,873.6 square feet)</td>
<td>See Text Above</td>
<td></td>
</tr>
<tr>
<td>Wilmington Waterfront District</td>
<td>SE Corner of Avalon Blvd and Harry Bridges Blvd</td>
<td>Water Feature</td>
<td>N/A</td>
<td>See Text Above</td>
<td>25</td>
</tr>
<tr>
<td>Red Car Line/California Coastal Trail</td>
<td>Shrub vegetation</td>
<td>Shrub vegetation</td>
<td>1.04 acre (45,302.4 square feet)</td>
<td>See Text Above</td>
<td>2,324</td>
</tr>
<tr>
<td>Wilmington Waterfront District</td>
<td>South Water Features</td>
<td>Water Feature</td>
<td>N/A</td>
<td>See Text Above</td>
<td>25</td>
</tr>
<tr>
<td>Wilmington Waterfront District</td>
<td>North Water Feature</td>
<td>Water Feature</td>
<td>N/A</td>
<td>See Text Above</td>
<td>25</td>
</tr>
<tr>
<td>Wilmington Waterfront District</td>
<td>Upper Plaza Water Feature</td>
<td>Water Feature</td>
<td>N/A</td>
<td>See Text Above</td>
<td>220</td>
</tr>
</tbody>
</table>

¹ Water generation factors are based on 111% of sewage generation factors given for different land uses in LA CEQA Thresholds Guide
<table>
<thead>
<tr>
<th>Location</th>
<th>Proposed project Designated land Use</th>
<th>General Land Use</th>
<th>Units</th>
<th>Generation Factor Used to Estimate GPD$^2$</th>
<th>Gallons per Day$^1$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entire Project Area</td>
<td>Trees</td>
<td>Trees</td>
<td>456 Individual trees</td>
<td>See Text Above</td>
<td>9,120</td>
</tr>
<tr>
<td>Entire Project Area</td>
<td>1 Restroom</td>
<td>Restroom</td>
<td>534.8</td>
<td>See Text Above</td>
<td>1,500</td>
</tr>
<tr>
<td>Entire Project Area</td>
<td>3 Parking Lots</td>
<td>Parking</td>
<td>98,000 square feet</td>
<td>22.2 gpd/1,000 sf</td>
<td>2,175.6</td>
</tr>
<tr>
<td>Entire Project Area</td>
<td>Various locations of landscaped plazas, sidewalks, etc.</td>
<td>Parking</td>
<td>9.9 acres (431,244 sf)</td>
<td>22.2 gpd/1,000 sf</td>
<td>9,573.62</td>
</tr>
</tbody>
</table>

**Total Water Use** 85,321.52

**Total Water Use (including use of recycled water from Terminal Island)** 35,371.52

In order to correctly estimate the projected water use of the proposed Project, we request a meeting with DWP to discuss the methodology and water usage rates that should be applied to the proposed Project with the above elements. We look forward to working with DWP on this proposed Project.

Please find enclosed the $2,500 check for the required WSA processing fee. Should you have any questions, please do not hesitate to contact Jan Green Rebstock at (310) 732-3949.

Sincerely,

RALPH G. APPY, Ph.D.
Director of Environmental Management
Figure 1: Wilmington Waterfront Development Project - Existing Conditions and Project Area
January 8, 2009

Mr. James McDaniel
Senior Assistant General Manager for Water Systems
City of Los Angeles - Department of Water and Power
111 N. Hope Street, Room 1480
Los Angeles, CA 90012

Dear Mr. McDaniel:

WILMINGTON WATERFRONT PROJECT GENERAL PLAN CONSISTENCY ANALYSIS - UPDATED

The Los Angeles Harbor Department (the “Harbor Department”) is the lead agency, pursuant to the California, Environmental Quality Act (CEQA) and the National Environmental Policy ACT (NEPA) for the joint Environmental Impact Report (EIR) and the Environmental Impact Statement (EIS) document that is being prepared for the Wilmington Waterfront Project ("proposed project"). As proposed, the project is required to comply with the water supply assessment requirements of the State Water Code (Section 10910-10915). The Department of City Planning is providing a statement of consistency as requested by the Harbor Department.

The proposed project is located within the Port of Los Angeles Community Plan and Wilmington-Harbor City Community Plan, which are both part of the land use element of the City’s General Plan. The Port of Los Angeles Community Plan was adopted by City Council on September 28, 1982 (Council File 82-0400) and last amended on May 27, 1992, (AB 283 Open Space Zone Changes, Plan Amendments Council File 92-0163). The Wilmington-Harbor City Community Plan was adopted by City Council on July 14, 1999 (Council File 98-1619). The Los Angeles General Plan Framework was originally adopted by City Council on December 11, 1996, and re-adopted on August 8, 2001.

The proposed project includes General Plan Amendments to designate land from heavy industrial use to open space and commercial use designations. Heavy industrial zone
uses typically have higher water demands than open space and commercial uses. The proposed project that will include open space and commercial uses, allowed through General Plan Amendments, should result in a reduction of water demand for the project area.

Should you have any questions please do not hesitate to Conni Pallini-Tipton at (213) 978-1196.

Sincerely,

S. GAIL GOLDBERG, AICP
Director of Planning

BETSY WEISMAN
Principal City Planner

SGG:BW/cpt

cc: Jan Green-Rebstock, POLA
    David Matthewson, POLA
Appendix B

Water Conservation Commitment Letter
March 6, 2009

Mr. James McDaniel
Senior Assistant General Manager for Water Systems
City of Los Angeles
Department of Water and Power
111 North Hope Street, Room 1460
Los Angeles, CA 90012

SUBJECT: WATER CONSERVATION COMMITMENT LETTER FOR THE PORT OF LOS ANGELES WILMINGTON WATERFRONT DEVELOPMENT PROJECT

Dear Mr. McDaniel:

The Los Angeles Harbor Department (the "Harbor Department") is the Lead Agency, pursuant to the California Environmental Quality Act (CEQA) for the Environmental Impact Report (EIR) document that is being prepared for the Wilmington Waterfront Development Project ("proposed Project").

The Harbor Department would first like to take this opportunity to thank you for allowing us to better identify and quantify the water conservation measures we will be implementing for the proposed Project. The Project area encompasses approximately 60 acres with portions located within the existing boundaries of the Port of Los Angeles Community Plan, the existing Wilmington-Harbor City community Plan and the existing Port Master Plan. It is adjacent to the community of Wilmington, to the north, and the proposed Project is west of the nearby San Pedro Community. The Project site is generally bounded by Lagoon Avenue to the west, Broad Avenue to the east, C Street to the north, and Banning's Landing and Slip No. 5 at the south in Wilmington and Port areas, respectively. The site also includes the Red Car Extension and California Coastal Trail linkage, which would encompass an additional 30 acres, beginning in the west at Vincent Thomas Bridge, moving along Front Street to John S. Gibson Boulevard, and then along Harry Bridges Boulevard until it reaches Avalon Boulevard in the east.

The overall purposes of the proposed Project are to increase public access to the waterfront; improve pedestrian connectivity from the Wilmington Community to the waterfront; allow additional visitor-serving commercial and recreational development; and, improve the local economy and economic sustainability of the community by improving the industrial area along Harry Bridges Boulevard and Avalon Boulevard.
March 6, 2009  
Mr. James McDaniel  
DWP  
Page 2 of 5

The proposed Project seeks to achieve these goals by improving existing infrastructure and providing new infrastructure facilities, providing waterfront linkages and pedestrian enhancements, developing neighborhood and regional recreational open space, and by providing increased development and redevelopment opportunities in the industrial corridor and at the Waterfront District.

Listed below are the conservation measures we commit to implement and the estimated efficiency of each measure:

<table>
<thead>
<tr>
<th>Water Conservation Measure</th>
<th>Landscaped Areas (project locations)</th>
<th>Approximate Fixture Count where applicable (each) or landscaped area (sf)</th>
<th>Estimated Efficiency where available (flow rate, cycles, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retrofit existing buildings with high efficiency toilets</td>
<td>-</td>
<td>10 each</td>
<td>1.28 gpf</td>
</tr>
<tr>
<td>Retrofit existing buildings with high efficiency urinals</td>
<td>-</td>
<td>5 each</td>
<td>0.5 gpf</td>
</tr>
<tr>
<td>Retrofit existing buildings with high efficiency faucets</td>
<td>-</td>
<td>11 each</td>
<td>1.5 gpm</td>
</tr>
<tr>
<td>Retrofit existing parks and streetscapes to utilize recycled water (i.e.: purple pipe irrigation system)</td>
<td>Avalon Triangle Park</td>
<td>42,205 sf</td>
<td>N/A</td>
</tr>
</tbody>
</table>
## New Construction

<table>
<thead>
<tr>
<th>Water Conservation Measure</th>
<th>Landscaped Areas (project locations)</th>
<th>Approximate Fixture Count where applicable (each) or landscaped area (sf)</th>
<th>Estimated Efficiency where available (flow rate, cycles, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utilize bathroom faucet aerators in new buildings</td>
<td>32 each</td>
<td>0.5 gpm</td>
<td></td>
</tr>
<tr>
<td>Utilize self-closing faucets in new public restrooms</td>
<td>8 each</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Utilize high efficiency urinals in new buildings</td>
<td>6 each</td>
<td>0.5 gpf</td>
<td></td>
</tr>
<tr>
<td>Utilize high efficiency toilets in new buildings</td>
<td>36 each</td>
<td>1.28 gpf</td>
<td></td>
</tr>
<tr>
<td>Install dual plumbing to utilize recycled water to flush high efficiency toilets and urinals in new buildings</td>
<td>42 each</td>
<td>1.28 gpf</td>
<td></td>
</tr>
<tr>
<td>Utilize break room faucet aerators in new buildings</td>
<td>32 each</td>
<td>1.5 gpm</td>
<td></td>
</tr>
</tbody>
</table>

Prohibit single pass cooling systems

All new cooling systems will be closed loop.

Utilize air cooled chiller with variable frequency drive motors in new buildings

If chillers are used, cooling tower water treatment will be limited to 5.5 cycles of concentration (COC).
Utilize weather-based irrigation controller for landscapes of 2,500-s.f. or more

Utilize recycled water to irrigate new parks and streetscaped areas (ie. plumbed with purple pipe) and to fill all water features

<table>
<thead>
<tr>
<th>Landscaped Areas:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Car Line/California Coastal Trail Shrub Vegetation</td>
<td>45,302-sf</td>
<td>N/A</td>
</tr>
<tr>
<td>Rail Road Green</td>
<td>43,560-sf</td>
<td>N/A</td>
</tr>
<tr>
<td>Land Bridge and Wilmington Waterfront Landscaped areas (including SE corner of Avalon Blvd and Harry Bridges Blvd)</td>
<td>372,873-sf</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water Features:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>South Bridge Water Feature (1,715 gpd)</td>
<td>14,640-sf surface area</td>
<td>N/A</td>
</tr>
<tr>
<td>North Bridge Water Feature (1,715 gpd)</td>
<td>14,640-sf surface area</td>
<td>N/A</td>
</tr>
<tr>
<td>Upper Plaza Water Feature (5,950 gpd)</td>
<td>25,365-sf surface area</td>
<td>N/A</td>
</tr>
<tr>
<td>Lagoon Water Feature (435 gpd)</td>
<td>1,850-sf surface area</td>
<td>N/A</td>
</tr>
</tbody>
</table>

At least 10% of the planting palette of the new landscaped areas identified above will include drought tolerant native plants. The Wilmington Waterfront Project will also comply with the Standard Urban Stormwater Mitigation Plan (SUSMP).
March 6, 2009
Mr. James McDaniel
DWP
Page 5 of 5

The proposed Project will use recycled water to flush toilets and urinals in new buildings and for landscaping and water features from the existing 24 inch recycled water mainline that runs from Terminal Island to Harry Bridges Boulevard and along Broad Avenue. The Harbor Department agrees to connect to the LADWP recycled water supply pipeline(s) when a mutually agreed connection point(s) is identified along the existing 24-inch recycled water mainline.

We look forward to working with LADWP and implementing these conservation measures for the proposed Project. Should you have any questions, please do not hesitate to contact the Wilmington Waterfront Development Project Environmental Project Manager Jan Green Rebstock at (310) 732-3949.

Sincerely,

[Signature]

MICHAEL R. CHRISTENSEN
Deputy Executive Director

cc: David Libatique, Mayor’s Office
    Tom Erb, LADWP
    Jan Green Rebstock, LAHD, Env. Mgmt. Div.
Figure ES-1
Regional Location
Wilmington Waterfront Development Project
Figure ES-2
Proposed Project Boundary and Surrounding Area
Wilmington Waterfront Development Project
Appendix D

LADWP Water Supply Assessment Worksheet
### Water Supply Assessment Worksheet - 2009

This worksheet estimates water demands arising from water supply assessment requests from developers. Water Supply Assessments are performed in compliance with California Water Code Sections 10910-10915.

<table>
<thead>
<tr>
<th>Assess. Number</th>
<th>Project</th>
<th>LADWP Board Action Date</th>
<th>(A) Present Baseline Water Use (afy)</th>
<th>(B) Projected Total Water Use (afy)</th>
<th>(C) = (B) - (A) Net Increase/Decrease Over Baseline Use (afy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Port of Los Angeles San Pedro Waterfront Project</td>
<td>pending</td>
<td>377</td>
<td>542</td>
<td>165</td>
</tr>
<tr>
<td>2</td>
<td>Port of Los Angeles Wilmington Waterfront Development Project</td>
<td>pending</td>
<td>5</td>
<td>21</td>
<td>16</td>
</tr>
<tr>
<td>3</td>
<td>Plaza at the Glen</td>
<td>pending</td>
<td>66</td>
<td>252</td>
<td>188</td>
</tr>
</tbody>
</table>

#### Notes:

1. Projected and planned for increase in water use is contained in LADWP’s Year 2006 Urban Water Management Plan. The Plan estimates for a 17% increase (115,000 acre-feet) from year 2005 through 2030.

2. Present Baseline Water Use is the most recent water use for the Project site, prior to the proposed (re)development.

3. Projected Total Water Use is based on proposed (re)development usage, using factors in the City of Los Angeles Bureau of Sanitation Sewer Generation Rates table.

4. Column (C) is the net increase/decrease in demand with respect to the Present Baseline Water Use shown in Column (A). The water demand projection in LADWP’s Year 2006 Urban Water Management Plan is based on citywide growth in water use. When taken in its entire sum, the projects to date in this table are within the anticipated and planned growth in water use within the City of Los Angeles. All projects above are within the anticipated and planned citywide growth rate of 17% through the year 2030.

The water demands shown in this table and other water use not subject to a Water Supply Assessment within LADWP’s service area will be taken into account during LADWP’s next Urban Water Management Plan update in 2010.

5. Definition: afy - acre feet per year.
Appendix E

Adjudicated Groundwater Basin Judgments

• San Fernando Basin – Judgment No. 650079
• Sylmar Basin – Judgment No. 650079
• Central Basin – Judgment No. 786656
SUPERIOR COURT OF THE STATE OF CALIFORNIA
FOR THE COUNTY OF LOS ANGELES

THE CITY OF LOS ANGELES,
   Plaintiff,

   vs.

CITY OF SAN FERNANDO, ET AL.
   Defendants.

No. 638079
JUDGMENT

There follows by consecutive paging Recitals (page 1), Definitions and List of Attachments (pages 1 to 6), Designation of Parties (page 6), Declaration re Geology and Hydrology (pages 6 to 12), Declaration of Rights (pages 12 to 21), Injunctions (pages 21 to 22), Continuing Jurisdiction (page 23), Watermaster (pages 23 to 29), Physical Solution (pages 29 to 34), and Miscellaneous Provisions (pages 34 to 35), and Attachments (pages 36 to 46). Each and all of said several parts constitute a single integrated Judgment herein.
4.2.3 Separate Ground Water Basins. The physical and geologic characteristics of each of the ground water basins, Eagle rock, Sylmar, Verdugo and San Fernando, cause impediments to inter-basin ground water flow whereby there is created separate underground reservoirs. Each of said basins contains a common source of water supply to parties extracting ground water from each of said basins. The amount of underflow from Sylmar Basin, Verdugo Basin and Eagle Rock Basin to San Fernando Basin is relatively small, and on the average has been approximately 540 acre feet per year from the Sylmar Basin; 80 acre feet per year from Verdugo Basin; and 50 acre feet per year from Eagle Rock Basin. Each has physiographic, geologic and hydrologic differences; one from the other, and each meets the hydrologic definition of “basin.”

The extractions of water in the respective basins affect the other water users within that basin but do not significantly or materially affect the ground water levels in any of the other basins. The underground reservoirs of Eagle Rock, Verdugo and Sylmar Basins are independent of one another and of the San Fernando Basin.

4.2.4 Safe Yield and Native Safe Yield. The safe yield and native safe yield, stated in acre feet, of the three largest basins for the year 1964-65 was as follows:

<table>
<thead>
<tr>
<th>Basin</th>
<th>Safe Yield</th>
<th>Native Safe Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Fernando</td>
<td>90,680</td>
<td>43,660</td>
</tr>
<tr>
<td>Sylmar</td>
<td>6,210</td>
<td>3,850</td>
</tr>
<tr>
<td>Verdugo</td>
<td>7,150</td>
<td>3,590</td>
</tr>
</tbody>
</table>

The safe yield of Eagle Rock Basin is derived from imported water delivered by Los Angeles. There is no measurable native safe yield.

4.2.5 Separate Basins -- Separate Rights. The rights of the parties to extract ground water within ULARA are separate and distinct as within each of the several ground water basins within said watershed.

4.2.6 Hydrologic Condition of Basins. The several basins within ULARA are in varying hydrologic conditions, which result in different legal consequences.

4.2.6.1 San Fernando Basin. The first full year of overdraft in San Fernando Basin was 1954-55. It remained in overdraft continuously until 1968, when an injunction
SUPE.RIOR COURT OF THE STATE OF CALIFORNIA
FOR THE COUNTY OF LOS ANGELES

CENTRAL AND WEST BASIN WATER
REPLENISHMENT DISTRICT, etc.,

Plaintiff,

v.

CHARLES H. ADAMS, et al.,

Defendants;

CITY OF LAKewood, a municipal corporation,

Cross-Complainant,

v.

CHARLES H. ADAMS, et al.,

Cross-Defendants.

No. 786,656
SECOND AMENDED
JUDGMENT

(Declaring and establishing water rights in
Central Basin and enjoining extractions
therefrom in excess of specified quantities.)

The above-entitled matter duly and regularly came on for trial in Department 73
of the above-entitled Court (having been transferred thereto from Department 75 by order of the
presiding Judge), before the Honorable Edmund M. Moor, specially assigned Judge, on May 17,
1965, at 10:00 a.m. Plaintiff was represented by its attorneys BEWLEY, KNOOP.
of the close of the water year ending September 30, 1978 in accordance with the Watermaster
Reports on file with this Court and the records of the Plaintiff. This tabulation does not take into
account additions or subtractions from any Allowed Pumping Allocation of a producer for the
1978-79 water year, nor other adjustments not representing change in fee simple to water rights,
such as leases of water rights, nor does it include the names of lessors where the
lessees are exercising the water rights. The exercise of all water rights is subject, however, to the
provisions of this Judgment as hereinafter contained. All of said rights are of the same legal
force and effect and are without priority with reference to each other. Each party whose name is
hereinafter set forth in the tabulation set forth in Appendix 2 of this judgment, and after whose
name there appears under the column "Total Water Right" the figure "0" owns no rights to
extract any ground water from Central Basin, and has no right to extract any ground water from
Central Basin.

(b) Defendant The City of Los Angeles is the owner of the right to extract fifteen
thousand (15,000) acre feet per annum of ground water from Central Basin. Defendant
Department of Water and Power of the City of Los Angeles has no right to extract ground water
from Central Basin except so far as it has the right, power, duty or obligation on behalf of
defendant The City of Los Angeles to exercise the water rights in Central Basin of defendant The
City of Los Angeles. The exercise of said rights are subject, however, to the provisions of this
judgment hereafter contained, including but not limited to, sharing with other parties in any
subsequent decreases or increases in the quantity of extractions permitted from Central Basin,
pursuant to continuing jurisdiction of the Court, on the basis that fifteen thousand (15,000) acre
feet bears to the Allowed Pumping Allocations of the other parties.

(c) No party to this action is the owner of or has any right to extract ground water
from Central Basin except as herein affirmatively determined.

2. Parties Enjoined as Regards Quantities of Extractions.
Appendix F

Water Supply Assessment Provisions
California Water Code Section 10910-10915
WATER CODE
SECTION 10910-10915

10910. (a) Any city or county that determines that a project, as
defined in Section 10912, is subject to the California Environmental
Quality Act (Division 13 (commencing with Section 21000) of the
Public Resources Code) under Section 21080 of the Public Resources
Code shall comply with this part.

(b) The city or county, at the time that it determines whether an
environmental impact report, a negative declaration, or a mitigated
negative declaration is required for any project subject to the
California Environmental Quality Act pursuant to Section 21080.1 of
the Public Resources Code, shall identify any water system that is,
or may become as a result of supplying water to the project
identified pursuant to this subdivision, a public water system, as
defined in Section 10912, that may supply water for the project. If
the city or county is not able to identify any public water system
that may supply water for the project, the city or county shall
prepare the water assessment required by this part after consulting
with any entity serving domestic water supplies whose service area
includes the project site, the local agency formation commission, and
any public water system adjacent to the project site.

(c) (1) The city or county, at the time it makes the determination
required under Section 21080.1 of the Public Resources Code, shall
request each public water system identified pursuant to subdivision
(b) to determine whether the projected water demand associated with a
proposed project was included as part of the most recently adopted
urban water management plan adopted pursuant to Part 2.6 (commencing
with Section 10610).

(2) If the projected water demand associated with the proposed
project was accounted for in the most recently adopted urban water
management plan, the public water system may incorporate the
requested information from the urban water management plan in
preparing the elements of the assessment required to comply with
subdivisions (d), (e), (f), and (g).

(3) If the projected water demand associated with the proposed
project was not accounted for in the most recently adopted urban
water management plan, or the public water system has no urban water
management plan, the water supply assessment for the project shall
include a discussion with regard to whether the public water system’s
total projected water supplies available during normal, single dry,
and multiple dry water years during a 20-year projection will meet
the projected water demand associated with the proposed project, in
addition to the public water system’s existing and planned future
uses, including agricultural and manufacturing uses.

(4) If the city or county is required to comply with this part
pursuant to subdivision (b), the water supply assessment for the
project shall include a discussion with regard to whether the total
projected water supplies, determined to be available by the city or
county for the project during normal, single dry, and multiple dry
water years during a 20-year projection, will meet the projected
water demand associated with the proposed project, in addition to
existing and planned future uses, including agricultural and
manufacturing uses.

(d) (1) The assessment required by this section shall include an
identification of any existing water supply entitlements, water
rights, or water service contracts relevant to the identified water
supply for the proposed project, and a description of the quantities of water received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts.

(2) An identification of existing water supply entitlements, water rights, or water service contracts held by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), shall be demonstrated by providing information related to all of the following:

(A) Written contracts or other proof of entitlement to an identified water supply.

(B) Copies of a capital outlay program for financing the delivery of a water supply that has been adopted by the public water system.

(C) Federal, state, and local permits for construction of necessary infrastructure associated with delivering the water supply.

(D) Any necessary regulatory approvals that are required in order to be able to convey or deliver the water supply.

(e) If no water has been received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts, the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), shall also include in its water supply assessment pursuant to subdivision (c), an identification of the other public water systems or water service contract holders that receive a water supply or have existing water supply entitlements, water rights, or water service contracts, to the same source of water as the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has identified as a source of water supply within its water supply assessments.

(f) If a water supply for a proposed project includes groundwater, the following additional information shall be included in the water supply assessment:

(1) A review of any information contained in the urban water management plan relevant to the identified water supply for the proposed project.

(2) A description of any groundwater basin or basins from which the proposed project will be supplied. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has the legal right to pump under the order or decree. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current bulletin of the department that characterizes the condition of the groundwater basin, and a detailed description by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), of the efforts being undertaken in the basin or basins to eliminate the long-term overdraft condition.

(3) A detailed description and analysis of the amount and location of groundwater pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), for the past five years from any groundwater basin
from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

(4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), from any basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

(5) An analysis of the sufficiency of the groundwater from the basin or basins from which the proposed project will be supplied to meet the projected water demand associated with the proposed project.

A water supply assessment shall not be required to include the information required by this paragraph if the public water system determines, as part of the review required by paragraph (1), that the sufficiency of groundwater necessary to meet the initial and projected water demand associated with the project was addressed in the description and analysis required by paragraph (4) of subdivision (b) of Section 10631.

(g) (1) Subject to paragraph (2), the governing body of each public water system shall submit the assessment to the city or county not later than 90 days from the date on which the request was received. The governing body of each public water system, or the city or county if either is required to comply with this act pursuant to subdivision (b), shall approve the assessment prepared pursuant to this section at a regular or special meeting.

(2) Prior to the expiration of the 90-day period, if the public water system intends to request an extension of time to prepare and adopt the assessment, the public water system shall meet with the city or county to request an extension of time, which shall not exceed 30 days, to prepare and adopt the assessment.

(3) If the public water system fails to request an extension of time, or fails to submit the assessment notwithstanding the extension of time granted pursuant to paragraph (2), the city or county may seek a writ of mandamus to compel the governing body of the public water system to comply with the requirements of this part relating to the submission of the water supply assessment.

(h) Notwithstanding any other provision of this part, if a project has been the subject of a water supply assessment that complies with the requirements of this part, no additional water supply assessment shall be required for subsequent projects that were part of a larger project for which a water supply assessment was completed and that has complied with the requirements of this part and for which the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has concluded that its water supplies are sufficient to meet the projected water demand associated with the proposed project, in addition to the existing and planned future uses, including, but not limited to, agricultural and industrial uses, unless one or more of the following changes occurs:

(1) Changes in the project that result in a substantial increase in water demand for the project.

(2) Changes in the circumstances or conditions substantially affecting the ability of the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), to provide a sufficient supply of water for the project.

(3) Significant new information becomes available which was not known and could not have been known at the time when the assessment
was prepared.

10911. (a) If, as a result of its assessment, the public water system concludes that its water supplies are, or will be, insufficient, the public water system shall provide to the city or county its plans for acquiring additional water supplies, setting forth the measures that are being undertaken to acquire and develop those water supplies. If the city or county, if either is required to comply with this part pursuant to subdivision (b), concludes as a result of its assessment, that water supplies are, or will be, insufficient, the city or county shall include in its water supply assessment its plans for acquiring additional water supplies, setting forth the measures that are being undertaken to acquire and develop those water supplies. Those plans may include, but are not limited to, information concerning all of the following:

(1) The estimated total costs, and the proposed method of financing the costs, associated with acquiring the additional water supplies.

(2) All federal, state, and local permits, approvals, or entitlements that are anticipated to be required in order to acquire and develop the additional water supplies.

(3) Based on the considerations set forth in paragraphs (1) and (2), the estimated timeframes within which the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), expects to be able to acquire additional water supplies.

(b) The city or county shall include the water supply assessment provided pursuant to Section 10910, and any information provided pursuant to subdivision (a), in any environmental document prepared for the project pursuant to Division 13 (commencing with Section 21000) of the Public Resources Code.

(c) The city or county may include in any environmental document an evaluation of any information included in that environmental document provided pursuant to subdivision (b). The city or county shall determine, based on the entire record, whether projected water supplies will be sufficient to satisfy the demands of the project, in addition to existing and planned future uses. If the city or county determines that water supplies will not be sufficient, the city or county shall include that determination in its findings for the project.

10912. For the purposes of this part, the following terms have the following meanings:

(a) "Project" means any of the following:

(1) A proposed residential development of more than 500 dwelling units.

(2) A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.

(3) A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.

(4) A proposed hotel or motel, or both, having more than 500 rooms.

(5) A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet
6. A mixed-use project that includes one or more of the projects specified in this subdivision.

7. A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

(b) If a public water system has fewer than 5,000 service connections, then "project" means any proposed residential, business, commercial, hotel or motel, or industrial development that would account for an increase of 10 percent or more in the number of the public water system's existing service connections, or a mixed-use project that would demand an amount of water equivalent to, or greater than, the amount of water required by residential development that would represent an increase of 10 percent or more in the number of the public water system's existing service connections.

(c) "Public water system" means a system for the provision of piped water to the public for human consumption that has 3000 or more service connections. A public water system includes all of the following:

1. Any collection, treatment, storage, and distribution facility under control of the operator of the system which is used primarily in connection with the system.

2. Any collection or pretreatment storage facility not under the control of the operator that is used primarily in connection with the system.

3. Any person who treats water on behalf of one or more public water systems for the purpose of rendering it safe for human consumption.

10914. (a) Nothing in this part is intended to create a right or entitlement to water service or any specific level of water service.

(b) Nothing in this part is intended to either impose, expand, or limit any duty concerning the obligation of a public water system to provide certain service to its existing customers or to any future potential customers.

(c) Nothing in this part is intended to modify or otherwise change existing law with respect to projects which are not subject to this part.

(d) This part applies only to a project for which a notice of preparation is submitted on or after January 1, 1996.

10915. The County of San Diego is deemed to comply with this part if the Office of Planning and Research determines that all of the following conditions have been met:

(a) Proposition C, as approved by the voters of the County of San Diego in November 1988, requires the development of a regional growth management plan and directs the establishment of a regional planning and growth management review board.

(b) The County of San Diego and the cities in the county, by agreement, designate the San Diego Association of Governments as that review board.

(c) A regional growth management strategy that provides for a comprehensive regional strategy and a coordinated economic development and growth management program has been developed pursuant to Proposition C.

(d) The regional growth management strategy includes a water
element to coordinate planning for water that is consistent with the requirements of this part.

(e) The San Diego County Water Authority, by agreement with the San Diego Association of Governments in its capacity as the review board, uses the association's most recent regional growth forecasts for planning purposes and to implement the water element of the strategy.

(f) The procedures established by the review board for the development and approval of the regional growth management strategy, including the water element and any certification process established to ensure that a project is consistent with that element, comply with the requirements of this part.

(g) The environmental documents for a project located in the County of San Diego include information that accomplishes the same purposes as a water supply assessment that is prepared pursuant to Section 10910.
Appendix G

Metropolitan Water District of Southern California
APPENDIX A¹

The Metropolitan Water District
of Southern California

¹ Attached to Official Statement dated January 15, 2009, for $200,000,000 The Metropolitan Water District of Southern California Water Revenue Bonds, 2008 Authorization, Series A.
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*Appendix A to Official Statement dated January 15, 2009*
INTRODUCTION

Formation and Purpose

The Metropolitan Water District of Southern California ("Metropolitan") is a metropolitan water district created in 1928 by vote of the electorates of eleven Southern California cities under authority of the Metropolitan Water District Act (California Statutes 1927, Chapter 429, as reenacted in 1969 as Chapter 209, as amended [herein referred to as the "Act"]). The Act authorizes Metropolitan to levy property taxes within its service area; establish water rates; impose charges for water standby and service availability; incur general obligation bonded indebtedness and issue revenue bonds, notes and short-term revenue certificates; execute contracts; and exercise the power of eminent domain for the purpose of acquiring property. In addition, Metropolitan's Board of Directors (the "Board") is authorized to establish terms and conditions under which additional areas may be annexed to Metropolitan's service area.

Metropolitan's primary purpose is to provide a supplemental supply of water for domestic and municipal uses at wholesale rates to its member public agencies. If additional water is available, such water may be sold for other beneficial uses. Metropolitan serves its member agencies as a water wholesaler and has no retail customers.

The mission of Metropolitan, as promulgated by the Board, is to provide its service area with adequate and reliable supplies of high quality water to meet present and future needs in an environmentally and economically responsible way.

Metropolitan's charges for water sales and availability are fixed by its Board, and are not subject to regulation by the California Public Utilities Commission or any other state or federal agency. Metropolitan imports water from two principal sources: northern California via the Edmund G. Brown California Aqueduct (the "California Aqueduct") of the State Water Project owned by the State of California and the Colorado River via the Colorado River Aqueduct owned by Metropolitan.

Member Agencies

Metropolitan is comprised of 26 member public agencies, including 14 cities, 11 municipal water districts, and one county water authority, which collectively serve the residents and businesses of more than 300 cities and numerous unincorporated communities. Member agencies request water from Metropolitan at various delivery points within Metropolitan's system and pay for such water at uniform rates established by the Board for each class of service. Metropolitan's water is a supplementary source of water for its member agencies. See "METROPOLITAN REVENUES—Principal Customers" for a listing of the ten member agencies with the highest water purchases from Metropolitan during the fiscal year ended June 30, 2008. No member is required to purchase water from Metropolitan. See "METROPOLITAN REVENUES—Rate Structure" and "—Member Agency Purchase Orders" for a discussion of the voluntary ten-year purchase order by which a member agency may commit to purchase water.
The following table lists the current 26 member agencies of Metropolitan.

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Service Area

Metropolitan's service area comprises approximately 5,200 square miles and includes portions of the six counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego and Ventura. When Metropolitan began delivering water in 1941, its service area consisted of approximately 625 square miles; its service area has increased by 4,575 square miles since that time. The expansion is primarily the result of annexation of the service areas of additional member agencies.

Of the total population in the six-county area, over 18 million people or 85 percent, live within Metropolitan's service area. The California Department of Finance estimates that by the year 2030 the six-county area will have a population of 27 million people, representing an increase of 5.5 million people over 2007 population levels.

The economy of Metropolitan's service area is exceptionally diverse. As measured in 2007, the economy of Metropolitan's service area has a gross domestic product larger than all but twelve nations of the world. Metropolitan provides between 40 and 60 percent of the water used within its service area in any year. For additional economic and demographic information concerning Metropolitan's service area, see Appendix E – "SELECTED DEMOGRAPHIC AND ECONOMIC INFORMATION FOR METROPOLITAN'S SERVICE AREA."

The climate in Metropolitan's service area ranges from moderate temperatures throughout the year in the coastal areas to hot and dry summers in the inland areas. Annual rainfall averages 13 to 15 inches along the coastal area, up to 20 inches in foothill areas and less than 10 inches inland. See "REGIONAL WATER RESOURCES" in this Appendix A.

METROPOLITAN'S WATER SUPPLY

Metropolitan faces a number of challenges in providing a reliable and high quality water supply for southern California. These include, among others: (1) population growth within the service area; (2) increased competition for low-cost water supplies; (3) variable weather conditions; and (4) increased environmental regulations for clean and safe drinking water. Metropolitan's resources and strategies for meeting these long-term challenges are set forth in its Integrated Water Resources Plan, as updated from time to time. (See "—Integrated Water Resources Plan" below.) Metropolitan's principal sources of water are the State Water Project and the Colorado River. Recent court decisions have restricted deliveries from the State Water Project as described below under.

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"METROPOLITAN’S WATER SUPPLY—State Water Project—Endangered Species Act Considerations." Record dry conditions in Metropolitan’s service area in 2006-07, continuing dry conditions in the northern Sierra watershed for the State Water Project, including a record dry spring in 2008, and a multi-year drought in the Colorado River Basin have further affected water deliveries and storage. Programs and projects for addressing these challenges over the next five years are described under “METROPOLITAN’S WATER SUPPLY—Five-Year Supply Plan” in this Appendix A.

**Integrated Water Resources Plan**

Metropolitan, its member agencies, sub-agencies and groundwater basin managers developed an Integrated Water Resources Plan (“IRP”) that was adopted by Metropolitan’s Board of Directors (the “Board”) in January 1996 as a long-term planning guideline for resources and capital investments. The purpose of the IRP was the development of a preferred resource mix (see METROPOLITAN’S WATER SUPPLY - The Preferred Resource Mix in this Appendix A) to meet the water supply reliability and water quality needs for the region in a cost-effective and environmentally sound manner.

In 2004, the Board adopted an updated IRP that reviewed the goals and achievements of the original IRP, identified changed conditions for water resource development and updated the resource targets through 2025. A key component of the updated plan was the addition of a planning buffer. The planning buffer provided for the identification of additional supplies, both imported and locally developed, to address uncertainty in future supplies and demands from factors such as the level of population and economic growth which directly drive water demands, water quality regulations, new chemicals found to be unhealthful, endangered species affecting sources of supplies, and periodic and new changes in climate and hydrology.

Metropolitan is currently in the process of working on the next IRP update, to evaluate supply reliability while incorporating changed conditions and new trends and managing uncertainties. It is expected to be completed in 2009.

**The Preferred Resource Mix**

Metropolitan’s principal sources of water are the State Water Project and the Colorado River. The IRP’s Preferred Resource Mix identifies a balance of local and imported water resources within Metropolitan’s Service Area. Metropolitan expects that the resource targets and capital expenditure strategies for the Preferred Resource Mix will be continually reviewed and updated at least every five years to reflect changing demand and supply conditions.

The following paragraphs describe the elements of the Preferred Resource Mix.

*State Water Project.* State Water Project supplies are important for maximizing local groundwater potential and the use of recycled water since State Water Project water has a lower salinity content than Colorado River Aqueduct water and can be used to increase groundwater conjunctive use applications. See “METROPOLITAN’S WATER SUPPLY—State Water Project” in this Appendix A.

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Colorado River Aqueduct. The Colorado River Aqueduct delivers water from the Colorado River, Metropolitan’s original source of supply. Metropolitan has helped to fund and implement farm and irrigation district conservation programs, land management programs and water transfers and exchanges through arrangements with agricultural water districts in southern California and entities in Arizona and Nevada that use Colorado River water. See “METROPOLITAN’S WATER SUPPLY—Colorado River Aqueduct” in this Appendix A.

Water Conservation. Conservation and water use efficiency are the foundation of the IRP. Metropolitan has invested in conservation programs since the 1980’s. Historically, most of the investments have been in water efficient fixtures in the residential sector. Future efforts will focus on outdoor water use, including landscaping, and commercial/industrial uses. See METROPOLITAN’S WATER SUPPLY – Water Conservation in this Appendix A.

Recycled Water. Reclaimed or recycled municipal and industrial water is not potable, but can be used for maintaining lawns, protecting groundwater basins from saltwater intrusion, industrial processes, and recharging local aquifers. Metropolitan offers financial incentives to member agencies for developing economically viable reclamation projects. See “REGIONAL WATER RESOURCES—Local Water Supplies” in this Appendix A.

Conjunctive Use. Conjunctive use entails storing surplus imported water during the winter months or wet years in local surface reservoirs and recharging local groundwater basins. This ensures that the stored supplies are available during dry months and droughts, thus increasing the supply reliability of the region. See “REGIONAL WATER RESOURCES—Local Water Supplies” and “CAPITAL INVESTMENT PROGRAM—Other Major Projects of Metropolitan’s Capital Investment Plan—Groundwater Storage Programs” in this Appendix A.

Water Transfers. Under voluntary water transfer agreements, agricultural communities using irrigation water may periodically sell some of their water allotment to urban areas. The water is delivered through existing State Water Project or Colorado River Aqueduct facilities. Metropolitan’s policy toward potential transfers states that the transfers must not harm the environment or contribute to the mining of local groundwater supplies. See “METROPOLITAN’S WATER SUPPLY—Water Transfer and Exchange Programs” in this Appendix A.

Groundwater Recovery. Natural groundwater reservoirs serve an important function as storage facilities for local and imported water. When groundwater storage becomes contaminated, water agencies have to rely more heavily on imported surface water supplies. Treatment for polluted groundwater is quite costly and poses some environmental challenges. Metropolitan offers financial incentives to help fund member agency groundwater recovery projects. See “REGIONAL WATER RESOURCES—Local Water Supplies” in this Appendix A.

Desalination. Desalination may eventually become an important component in the Preferred Resource Mix. Metropolitan has signed agreements with three of its member agencies, and is finalizing agreements with two member agencies, to provide incentives for projects targeted to produce 142,000 acre-feet of water annually through desalination of ocean water.
State Water Project

General. One of Metropolitan’s two major sources of water is the State Water Project, which is owned by the State of California (the “State”) and operated by the State Department of Water Resources (the “Department of Water Resources”). This project transports Feather River water stored in and released from Oroville Dam and unregulated flows diverted directly from the San Francisco Bay/Sacramento-San Joaquin River Delta (“Bay-Delta”) south via the California Aqueduct to four delivery points near the northern and eastern boundaries of Metropolitan. The total length of the California Aqueduct is approximately 444 miles.

In 1960, Metropolitan signed a contract (as amended, the “State Water Contract”) with the Department of Water Resources. Metropolitan is one of 29 agencies that have long-term contracts for water service from the Department of Water Resources, and is the largest agency in terms of the number of people it serves (over 18 million), the share of State Water Project water that it has contracted to receive (approximately 46 percent), and the percentage of total annual payments made to the Department of Water Resources by agencies with State water contracts (approximately 60 percent in 2007). For information regarding Metropolitan’s obligations under the State Water Contract, see “METROPOLITAN EXPENDITURES—State Water Contract Obligations” in this Appendix A. Upon expiration of the State Water Contract term (currently in 2035), Metropolitan has the option to continue service under substantially the same terms and conditions. Metropolitan presently intends to exercise this option to continue service to at least 2052.

Water received from the State Water Project by Metropolitan over the past six years (2002 through 2007), including water from the water transfer, groundwater banking and exchange programs described under the heading “—Water Transfer and Exchange Programs” below, varied from a low of 1,413,322 acre-feet in calendar year 2002 to a high of 1,801,035 acre-feet in 2004. (An acre-foot is the amount of water that will cover one acre to a depth of one foot and equals approximately 326,000 gallons, which represents the needs of two average families in and around the home for one year.) Below-normal precipitation in the northern Sierra Mountains in the winter and spring of 2008, the seasons when most of the annual precipitation occurs, ended with record dry conditions during March and April of 2008. Metropolitan’s allocation from the State Water Project for calendar year 2008 was 35% of its contracted-for amount, or 669,000 acre-feet. This allocation took into account the critically dry conditions in the northern Sierra Mountains and projected impacts of court-ordered restrictions, which have reduced water deliveries from the State Water Project (see “—Endangered Species Act Considerations” below). Metropolitan anticipates receiving approximately 1,008,000 acre-feet of water using the State Water Project’s California Aqueduct in 2008, including deliveries from water transfer, groundwater banking and exchange programs. Management of the availability of State Water Project supplies through water marketing and groundwater banking plays an important role in meeting California water needs. See “—Water Transfer and Exchange Programs” in this Appendix A.

Due to these drought conditions and the court-ordered restrictions described below, on June 4, 2008, California Governor Arnold Schwarzenegger issued an Executive Order (the “Executive Order”) proclaiming a condition of statewide drought. The Governor followed the Executive Order with a Proclamation of a State of Emergency (the “Proclamation”) in nine counties (Sacramento, San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare and Kern) on June 12, 2008, to avert severe impacts to these agricultural areas from drought conditions and from reduced deliveries from
the federal Central Valley Project announced by the United States Bureau of Reclamation (the “Bureau of Reclamation”). The Proclamation directs the Department of Water Resources and other State agencies to provide relief for the nine counties.

The State Water Contractors, a California nonprofit corporation formed by agencies contracting with the Department of Water Resources for water from the State Water Project (the “State Water Contractors”), including Metropolitan, worked with the Department of Water Resources, Bureau of Reclamation and Central Valley Project contractors on actions to help implement the Executive Order and Proclamation, while protecting water quality in the California Aqueduct, and to shift water deliveries to San Joaquin Valley farmers in the summer months, while providing for the delivery of State Water Project allocations to Metropolitan and other contractors by the end of calendar year 2008. Metropolitan is unable at this time to assess all of the future impacts of the Executive Order and the Proclamation on its State Water Project supplies, although the Department of Water Resources will deliver all of Metropolitan’s 2008 State Water Project allocation in 2008.

The Department of Water Resources announced its initial allocation to State Water Project contractors for 2009 of 15% of their contracted for amounts on October 30, 2008. This allocation reflects low carryover storage levels in State Water Project reservoirs, ongoing drought and court-ordered restrictions on water deliveries from the Bay-Delta to protect Delta smelt, as described under “—State Water Project Operational Constraints” in this Appendix A. Under a 15% allocation, Metropolitan would receive 287,000 acre-feet of water from the State Water Project. The Department of Water Resources will revisit the initial allocation as conditions change during the winter and spring and may increase the allocation as precipitation occurs.

Endangered Species Act Considerations

General. The listing of several fish species as threatened or endangered under the federal and/or California Endangered Species Acts (respectively, the “Federal ESA” and the “California ESA” and, collectively, the “ESAs”) have impacted State Water Project operations and limited the flexibility of the State Water Project. An annual environmental water account established under the CALFED Bay-Delta Program as a means of meeting environmental flow requirements and export limitations has helped to mitigate these impacts. Currently, five species (the winter-run and spring-run Chinook salmon, Delta smelt, North American green sturgeon and Central Valley steelhead) are listed under the ESAs. In addition, in February 2008 the California Fish and Game Commission listed the longfin smelt as a candidate species for protection under the California ESA. Protective measures adopted by the Fish and Game commission for the longfin smelt are described under “—State Water Project Operational Constraints” below. The San Francisco Bay Institute, Center for Biological Diversity and Natural Resources Defense Council have also petitioned to list the longfin smelt for protection under the Federal ESA. The United States Fish and Wildlife Service announced in May 2008 that it will consider the Delta’s longfin smelt population for such listing.

The Federal ESA requires that before any federal agency authorizes funds or carries out an action it must consult with the appropriate federal fishery agency to determine whether the action would jeopardize the continued existence of any threatened or endangered species, or adversely modify habitat critical to the species’ needs. The result of the consultation is known as a “biological opinion.” In the biological opinion the federal fishery agency determines whether the action would

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cause jeopardy to a threatened or endangered species or adverse modification to critical habitat and recommends reasonable and prudent alternatives or measures that would allow the action to proceed without causing jeopardy or adverse modification. The biological opinion also includes an “incidental take statement.” The incidental take statement allows the action to go forward even though it will result in some level of “take,” including harming or killing some members of the species, incidental to the agency action, provided that the agency action does not jeopardize the continued existence of any threatened or endangered species and complies with reasonable mitigation and minimization measures recommended by the federal fishery agency. The United States Fish and Wildlife Service and National Marine Fisheries Service have issued biological opinions and incidental take statements that govern operations of the State Water Project and Central Valley Project with respect to the Delta smelt, the winter-run and spring-run Chinook salmon and the Central Valley steelhead. An additional biological opinion will be required for the North American green sturgeon, which was listed in April 2006. The Bureau of Reclamation initiated consultations with the United States Fish and Wildlife Service and National Marine Fisheries Service for new biological opinions with respect to the coordinated operations of the State Water Project and Central Valley Project in July 2006, following the filing of the challenges to the biological opinions and incidental take statements described under “Federal ESA Litigation” below.

Under the Federal ESA, critical habitat also must be designated for each listed species. Critical habitat has been designated for each of the listed species except for the green sturgeon. On September 8, 2008, the National Marine Fisheries Service issued its proposed rule designating habitat for the green sturgeon. The proposal includes as part of the designated habitat the lower Feather River, which could have an impact on State Water Project operations. The extent of any such impacts cannot be determined at this time.

Federal ESA Litigation. Litigation filed by several environmental interest groups (NRDC v. Kemphorine; Pacific Coast Federation of Fishermen’s Associations v. Gutiérrez) in the United States District Court for the Eastern District of California alleges that these biological opinions and incidental take statements inadequately analyzed impacts on listed species under the Federal ESA. On May 25, 2007, Federal District Judge Wanger issued a decision on summary judgment in NRDC v. Kemphorine, finding the United States Fish and Wildlife Service’s biological opinion for Delta smelt to be invalid. On December 14, 2007, Judge Wanger issued his Interim Remedial Order and Findings of Fact and Conclusions of Law requiring that the State Water Project and Central Valley Project operate according to certain specified criteria until a new biological opinion for the Delta smelt is issued. Under the Interim Remedial Order, State Water Project operations were constrained in the winter and spring of 2007-08 by prevailing conditions and the status of the Delta smelt. Export restrictions during the winter and spring of 2007-08 reduced State Water Project deliveries to Metropolitan by approximately 250,000 acre-feet. The United States Fish and Wildlife Service released the new biological opinion on December 15, 2008. Based on the Water Allocation Analysis released by the Department of Water Resources on December 19, 2008, which analyzed the biological opinion’s effects on State Water Project operations, export restrictions under median hydrologic conditions could reduce deliveries to Metropolitan by 300,000 to 700,000 acre-feet for 2009.

The plaintiffs’ motion for summary judgment in Pacific Coast Federation of Fishermen’s Associations v. Gutiérrez, which challenges the National Marine Fisheries Service’s Biological Opinion for the salmon and other fish species that spawn in rivers flowing into the Bay-Delta, was

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argued before Judge Wanger on October 3, 2007. On April 16, 2008, Judge Wanger issued his summary judgment ruling invalidating the biological opinion for these salmonid species. Among other things, the court’s summary judgment found that the no-jeopardy conclusions in the biological opinion were inconsistent with some of the factual findings in the biological opinion; that the biological opinion failed to adequately address the impacts of State Water Project and Central Valley Project operations on critical habitat and that there was a failure to consider how climate change and global warming might affect the impacts of the projects on salmonid species. Judge Wanger began a multi-day hearing on June 6, 2008 to evaluate the status of the salmonid species, and determine if a more extensive proceeding on interim remedies should be commenced. In July 2008, Judge Wanger issued a decision on the interim remedy proceeding, denying plaintiffs’ requests for immediate modifications to certain Central Valley Project operations. However, the judge found that the project operators had failed to demonstrate that interim operation of the projects would not threaten irreparable harm, and thus continued the interim remedy proceeding on this issue. The court has indicated that it will consider the plaintiffs’ requests for project operational changes, including restrictions on project exports from the Bay-Delta, if the plaintiffs file a motion seeking that relief. To date, the plaintiffs have not filed such a motion. If there are project operational changes as a result of such a motion, it may affect the volume and timing of exports from the State Water Project. Currently, the new biological opinion for salmonid species is due for release on March 2, 2009. Any interim remedy for salmonids that might include export restrictions would probably be in effect only until the new salmonid biological opinion is issued on March 2, 2009.

California ESA Litigation. In addition to the litigation under the Federal ESA, other environmental groups sued the Department of Water Resources on October 4, 2006 in the Superior Court of the State of California for Alameda County alleging that the Department of Water Resources was “taking” listed species without authorization under the California ESA. This litigation (Watershed Enforcers, a project of the California Sportfishing Protection Alliance v. California Department of Water Resources) requests that the Department of Water Resources be mandated to either cease operation of the State Water Project pumps, which deliver water to the California Aqueduct, in a manner that results in such “taking” of listed species or obtain authorization for such “taking” under the California ESA. On April 18, 2007, the Alameda County Superior Court issued its Statement of Decision in Watershed Enforcers v. California Department of Water Resources. The Statement of Decision finds that the Department of Water Resources is illegally “taking” listed fish through operation of the State Water Project export facilities. The Superior Court ordered the Department of Water Resources to “cease and desist from further operation” of those facilities within 60 days unless it obtains take authorization from the California Department of Fish and Game.

The Department of Water Resources appealed the Alameda County Superior Court’s order on May 7, 2007. This appeal stays the order pending the outcome of the appeal. Also on May 7, 2007, the Department of Water Resources executed a memorandum of understanding with the California Department of Fish and Game to assist in reinitiated consultations with the United States Fish and Wildlife Service and National Marine Fisheries Service for new biological opinions on the coordinated operations of the State Water Project and Central Valley Project as they relate to the listed species of fish. In the memorandum of understanding, the Department of Water Resources and the California Department of Fish and Game agreed that the biological assessment and resulting biological opinions under the Federal ESA should be developed to include State Water Project operations that are consistent with the California ESA. After the new biological opinions and

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incidental take statements for the listed species of fish are completed, the Department of Water Resources is expected to apply to the Department of Fish and Game for a consistency determination under the California ESA based on the new biological opinions and incidental take statements. On motion of all parties, the Court of Appeal has stayed the appeal until July 31, 2009. This stay is intended to allow time for the Department of Water Resources to obtain a consistency determination under the California ESA before the Court of Appeal decides the appeal.

**State Water Project Operational Constraints.** The Department of Water Resources has altered the operations of the State Water Project to accommodate species of fish listed under the ESAs. These changes in project operations have affected the manner in which water is diverted from the Bay-Delta and State Water Project deliveries. Restrictions on Bay-Delta pumping under the Interim Remedial Order in NRDC v. Kempthorne reduced deliveries of State Water Project water to Metropolitan by approximately 250,000 acre-feet in the winter and spring of 2007-08. The initial allocation to State Water Project contractors for 2009 of only 15% of their contracted amounts, announced by the Department of Water Resources on October 30, 2008, is based on its conservative projection of hydrology, continuing export restrictions to protect Delta smelt and 2009 contractor demands. The Department of Water Resources may revisit the allocation as conditions change during the winter and spring and may increase the allocation as precipitation occurs. Under a 15% allocation, Metropolitan would receive 287,000 acre-feet of water from the State Water Project.

On February 14, 2008, the California Fish and Game Commission, pursuant to its authority under the California ESA, adopted an emergency regulation authorizing the incidental take of longfin smelt by certain activities, including operation of the State Water Project. The longfin smelt is listed as a candidate species for protection under the California ESA. The Fish and Game Commission’s emergency regulation includes measures for the protection of adult, larval and juvenile longfin smelt, which will be in effect until the Fish and Game Commission makes a final listing decision on the longfin smelt, which is expected in March 2009. On November 14, 2008, the Fish and Game Commission adopted a revised version of its emergency take regulation which contains new protective measures for longfin smelt. These protective measures may affect the operation of the State Water Project, and will be in effect from December 2008 through February 2009. Under the regulation, the Director of the Department of Fish and Game has ultimate authority to decide what protective measures to impose based upon real-time evidence of various conditions that exist during these months. The impact of the protective measures on project exports are unknown at this time, and depend upon future conditions and the exercise of discretion by the Director of the Department of Fish and Game. Assuming the imposition of the most protective of the possible measures during the maximum period of time that those measures may be imposed, the Department of Water Resources estimates that the protective measures could reduce State Water Project exports by 310,000 acre-feet to 700,000 acre-feet depending upon water-year conditions. Petitions for writs of mandate challenging the longfin smelt take regulation were filed on December 8, 2008 in Los Angeles County Superior Court by the State Water Contractors, federal Central Valley Project contractors and Kern County Water Agency. Motions for preliminary injunctions to enjoin enforcement of the longfin regulation were filed on December 29, 2008 and are currently set for hearing on January 28, 2009.

Operational constraints likely will continue until a long-term solution to the problems in the Bay-Delta is identified and implemented. The Delta Vision process, established by Governor Schwarzenegger, is aimed at identifying long-term solutions to the conflicts in the Bay-Delta,
including natural resource, infrastructure, land use and governance issues. In addition, state and federal resource agencies and various environmental and water user entities are currently engaged in the development of the Bay-Delta Conservation Plan (the “Bay-Delta Conservation Plan”), which is aimed at addressing ecosystem needs and securing long-term operating permits for the State Water Project. These efforts are described under “—Bay-Delta Regulatory and Planning Activities” below.

Other issues, such as the recent decline of some fisheries in the Delta and surrounding regions and certain operational actions in the Delta, may significantly reduce Metropolitan’s water supply from the Delta. State Water Project operational requirements may be further modified through the consultation process for new biological opinions for listed species under the Federal ESA or by the California Department of Fish and Game’s actions regarding a consistency determination under the California ESA. No assurances can be given as to whether or when new biological opinions or a consistency determination will be issued under the Federal ESA and California ESA, what the content of those opinions and determinations might be and how they might affect State Water Project and Central Valley Project operations, whether the Interim Remedial Order in *NRDC v. Kempthorne* may be modified, or whether appeal of the Alameda Superior Court ruling in the *Watershed Enforcers* litigation will be stayed until the consistency determination is obtained. In addition, success by plaintiffs in the recently-filed C-WIN litigation (see “—Bay-Delta Regulatory and Planning Activities” below) could result in additional restrictions on State Water Project and Central Valley Project operations. Decisions in these cases or future litigation, listings of additional species (such as the longfin smelt) or new regulatory requirements could adversely affect State Water Project operations in the future by requiring additional export reductions, releases of additional water from storage or other operational changes impacting water supply operations. Metropolitan cannot predict the ultimate outcome of any of the litigation or regulatory processes described above at this time or whether such outcome will result in any materially adverse impact on the operation of the State Water Project pumps, Metropolitan’s State Water Project supplies or Metropolitan’s water reserves.

**“Area of Origin” Litigation.** Four State Water Project contractors located north of the State Water Project’s Bay-Delta pumping plant filed litigation against the Department of Water Resources on July 17, 2008, asserting that since they are located in the “area of origin” of State Water Project water they are entitled to receive their entire contract amount before any water is delivered to contractors south of the Bay-Delta. If the plaintiffs are successful in this litigation, State Water Project water available to Metropolitan in a drought period could be reduced by approximately 25,000 acre-feet each year or by as much as 40,000 acre-feet in an exceedingly dry year. Metropolitan and other State Water Project contractors located south of the Bay-Delta will move to intervene in this litigation.

**Bay-Delta Regulatory and Planning Activities.** The State Water Resources Control Board (“SWRCB”) is the agency responsible for setting water quality standards and administering water rights throughout California. Decisions of the SWRCB can affect the availability of water to Metropolitan and other users of State Water Project water. The SWRCB exercises its regulatory authority over the Bay-Delta by means of public proceedings leading to regulations and decisions. These include the Bay-Delta Water Quality Control Plan (“WQCP”), which establishes the water quality objectives and proposed flow regime of the estuary, and water rights decisions, which assign responsibility for implementing the objectives of the WQCP to users throughout the system by
adjusting their respective water rights. The SWRCB is required by law to periodically review its WQCP to ensure that it meets the changing needs of this complex system.

Since 2000, SWRCB’s Water Rights Decision 1641 ("D-1641") has governed the State Water Project’s ability to export water from the Bay-Delta for delivery to Metropolitan and other agencies receiving water from the State Water Project. D-1641 allocated responsibility for meeting flow requirements and salinity and other water quality objectives established earlier by the WQCP. D-1641 was challenged in a dozen lawsuits, filed primarily by Bay-Delta interests and environmental groups. These cases were consolidated in a single action. D-1641 was, for the most part, affirmed by the California Court of Appeal in the State Water Resources Control Board Cases in February 2006. The Court of Appeal decision stated that the “public trust doctrine” does not mandate a preference for environmental purposes, but requires a balancing of competing interests; recognized the dual importance of the State Water Project to provide adequate supply and water quality for the Bay-Delta as well as export supplies; and held that determining the appropriate levels of water supply and Bay-Delta water quality requires a “balancing of all relevant factors and all of the competing interests in the water that flows through the Delta.” The Court of Appeal held that SWRCB appropriately weighed that balance in adopting D-1641, although it returned D-1641 to SWRCB to reconsider its allocation of responsibility for implementation of two of the water quality objectives under the WQCP. The California Supreme Court denied petitions for review of the Court of Appeal’s decision. In December 2006, SWRCB adopted limited amendments to D-1641 to cure the two issues identified by the Court of Appeal (the flow regime for salmon and deferral of a salinity objective to protect Bay-Delta agriculture). SWRCB also identified additional issues to review, which could result in future changes in water quality objectives and flows that could affect exports of water from the State Water Project.

Plaintiffs California Water Impact Network ("C-WIN") and California Sportfishing Protection Alliance filed a complaint in Sacramento Superior Court on December 1, 2008, that appears to raise several of the claims that were unsuccessfully asserted in the State Water Resources Control Board Cases. This action, California Water Impact Network et al. v. Department of Water Resources, State Water Resources Control Board and U.S. Bureau of Reclamation, alleges that State Water Project and Central Valley Project operations violate the “public trust doctrine” because increased exports have resulted in decreased fish populations; are unreasonable methods of diversions and use of water; violate the California Fish and Game Code requirement to leave sufficient water in the rivers below project dams; and have not complied with water quality objectives. This complaint seeks an order enjoining the Department of Water Resources and the Bureau of Reclamation from exporting water from the Bay-Delta and enjoining SWRCB from allowing the projects to export water until project operations comply with State law. Metropolitan is reviewing the complaint to determine how best to respond to this litigation in order to protect Metropolitan’s State Water Project supply.

The CALFED Bay-Delta Program is a collaborative effort among 23 State and Federal agencies to improve water supplies in California and the health of the Bay-Delta watershed. On August 28, 2000, the federal government and the State issued a Record of Decision ("ROD") and related documents approving the final programmatic environmental documentation for the CALFED Bay-Delta Program. The ROD includes, among other things, pledges to restore the Bay-Delta ecosystem, improve water quality, enhance water supply reliability, and assure long-term protection for Bay-Delta levees. (See "METROPOLITAN'S WATER DELIVERY SYSTEM—Seismic

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Considerations—State Water Project Facilities" in this Appendix A.) Three lawsuits were filed in the fall of 2000 challenging the sufficiency of the Calfed Bay-Delta Program Environmental Impact Report ("EIR") under the California Environmental Quality Act ("CEQA"). The EIR was upheld by the trial court, but invalidated by the Court of Appeal largely because the Calfed agencies failed to consider a project alternative of reducing exports from the Bay-Delta that, in the Court of Appeal's view, was feasible because it would curb population growth in southern California. On June 5, 2008, the California Supreme Court found that an EIR is not required to consider an alternative which does not meet the basic project objectives and ruled that the Calfed EIR fully complied with CEQA. The Supreme Court also found that the Court of Appeal erred in not distinguishing between pre-existing environmental problems in the Bay-Delta on one hand and the environmental effects of the Calfed Bay-Delta Program on the other. While recognizing that reducing exports may help address the Bay-Delta's existing environmental problems, the Supreme Court held that addressing existing problems was not the proper role for CEQA's alternatives.

Implementation of the Calfed Bay-Delta Program has resulted in an investment of $3 billion on a variety of projects and programs to begin addressing the Bay-Delta's water supply, water quality, ecosystem, and levee stability problems. To guide future development of the Calfed Bay-Delta Program and identify a strategy for managing the Delta as a sustainable resource, in September 2006, Governor Schwarzenegger established by Executive Order a Delta Vision process. The Delta Vision process is tied to legislation that created a cabinet-level committee tasked with developing a Strategic Vision for the Delta. The 41-member Delta Vision Blue Ribbon Task Force issued its Delta Vision Strategic Plan (the "Strategic Plan") on October 17, 2008, providing its recommendations for long-term sustainable management of the Bay-Delta. The Strategic Plan now is being reviewed by the Delta Vision Committee, chaired by the State Secretary for Resources, which was scheduled to provide its recommendations to the Governor by the end of 2008 for development of implementing legislation. A draft discussion document summarizing potential Delta Vision Committee recommendations was released on November 25, 2008. These recommendations include completing the Bay-Delta Conservation Plan and associated environmental assessments to permit-ecosystem revitalization and conveyance-water improvements, identifying and reducing stressors to the Bay-Delta ecosystem, strengthening levees, increasing emergency preparedness, continuing funding for the Calfed ecosystem restoration program, updating Bay-Delta regulatory flow and water quality standards to protect beneficial uses of water and continuing to work with the State Legislature on a comprehensive water bond package to fund Bay-Delta infrastructure projects. The Bay-Delta Conservation Plan is scheduled for completion during the third quarter of 2009, with acquisition of appropriate permits and completion of the associated environmental impact statement/impact report commencing thereafter.

Monterey Agreement Litigation. On September 15, 2000, the Third District Court of Appeal for the State of California issued its decision in Planning and Conservation League; Citizens Planning Association of Santa Barbara County and Plumas County Flood Control District v. California Department of Water Resources and Central Coast Water Authority. This case was an appeal of a challenge to the adequacy of the environmental documentation prepared with respect to certain amendments to the State Water Contract (the "Monterey Agreement") which reflect the settlement of disputes regarding the allocation of State Water Project water. The Court of Appeal held that the environmental documentation was defective in failing to analyze the environmental effects of the Monterey Agreement's elimination of the permanent shortage provisions of the State Water Contract. Metropolitan intervened in the case in order to fully participate in the issues before

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the trial court. The parties negotiated a settlement agreement in the fall of 2002. All parties to the litigation and all 29 agencies that have long-term contracts for water service with the Department of Water Resources executed the settlement agreement, which allows continued operation of the State Water Project under the Monterey Agreement principles while a new environmental impact report is being prepared. A draft EIR was issued for public review in October 2007. The public comment period has concluded and the final EIR is expected to be available in early 2009.

**Colorado River Aqueduct**

*General.* The Colorado River was Metropolitan's original source of water after Metropolitan's establishment in 1928. Metropolitan has a legal entitlement to receive water from the Colorado River under a permanent service contract with the Secretary of the Interior. Water from the Colorado River or its tributaries is also available to other users in California, as well as users in the states of Arizona, Colorado, Nevada, New Mexico, Utah, and Wyoming (the "Colorado River Basin States"), resulting in both competition and the need for cooperation among these holders of Colorado River entitlements. In addition, under a 1944 treaty, Mexico has an allotment of 1.5 million acre-feet of Colorado River water annually except in the event of extraordinary drought, or serious accident to the delivery system in the United States, when the water allotted to Mexico would be curtailed. Mexico also can schedule delivery of an additional 200,000 acre-feet of Colorado River water per year if water is available in excess of the requirements in the United States and the 1.5 million acre-feet allotted to Mexico.

The Colorado River Aqueduct, which is owned and operated by Metropolitan, transports water from the Colorado River approximately 242 miles to its terminus at Lake Mathews in Riverside County. After deducting for conveyance losses and considering maintenance requirements, up to 1.2 million acre-feet of water a year may be conveyed through the Colorado River Aqueduct to Metropolitan's member agencies, subject to availability of Colorado River water for delivery to Metropolitan as described below.

California is apportioned the use of 4.4 million acre-feet of water from the Colorado River each year plus one-half of any surplus that may be available for use collectively in Arizona, California and Nevada. In addition, California has historically been allowed to use Colorado River water apportioned to but not used by Arizona and Nevada when such supplies have been requested for use in California. Under the 1931 priority system that has formed the basis for the distribution of Colorado River water made available to California, Metropolitan holds the fourth priority right to 550,000 acre-feet per year. This is the last priority within California's basic apportionment of 4.4 million acre-feet. In addition, Metropolitan holds the fifth priority right to 662,000 acre-feet of water, which is in excess of California's basic apportionment. See the table "PRIORITIES UNDER THE 1931 CALIFORNIA SEVEN-PARTY AGREEMENT" below. Until 2002, Metropolitan had been able to take full advantage of its fifth priority right as a result of the availability of surplus water and apportioned but unused water. However, Arizona and Nevada increased their use of water from the Colorado River, leaving no unused apportionment available for California in 2002. In addition, a severe drought in the Colorado River Basin has reduced storage in system reservoirs. Prior to 2003, Metropolitan could divert over 1.2 million acre-feet in any year, but since that time, Metropolitan's deliveries of Colorado River water varied from a low of 633,000 acre-feet in 2006 to a high of approximately 905,000 acre-feet in 2008. Average annual net deliveries for 2003 through 2008 were approximately 762,000 acre-feet, with annual volumes dependent on availability of

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unused higher priority agricultural water and increasing transfers of conserved water. See "—Quantification Settlement Agreement" and "—Interim Surplus Guidelines" below.

**PRIORITIES UNDER THE 1931 CALIFORNIA SEVEN-PARTY AGREEMENT**

<table>
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<tr>
<th>Priority</th>
<th>Description</th>
<th>Acre-Feet Annually</th>
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<tbody>
<tr>
<td>1</td>
<td>Palo Verde Irrigation District gross area of 104,500 acres of land in the Palo Verde Valley</td>
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<td>2</td>
<td>Yuma Project in California not exceeding a gross area of 25,000 acres in California</td>
<td>3,850,000</td>
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<td>3(a)</td>
<td>Imperial Irrigation District and other lands in Imperial and Coachella Valleys(3) to be served by All-American Canal</td>
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<tr>
<td>3(b)</td>
<td>Palo Verde Irrigation District - 16,000 acres of land on the Lower Palo Verde Mesa</td>
<td>550,000</td>
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<tr>
<td>4</td>
<td>Metropolitan Water District of Southern California for use on the coastal plain</td>
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<tr>
<td></td>
<td><strong>SUBTOTAL</strong></td>
<td>4,400,000</td>
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<tr>
<td>5(a)</td>
<td>Metropolitan Water District of Southern California for use on the coastal plain</td>
<td>550,000</td>
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<tr>
<td>5(b)</td>
<td>Metropolitan Water District of Southern California for use on the coastal plain(2)</td>
<td>112,000</td>
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<tr>
<td>6(a)</td>
<td>Imperial Irrigation District and other lands in Imperial and Coachella Valleys to be served by the All American Canal</td>
<td>300,000</td>
</tr>
<tr>
<td>6(b)</td>
<td>Palo Verde Irrigation District - 16,000 acres of land on the Lower Palo Verde Mesa</td>
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</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td>5,362,000</td>
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<tr>
<td>7</td>
<td>Agricultural use in the Colorado River Basin in California</td>
<td>Remaining surplus</td>
</tr>
</tbody>
</table>

*Source: Metropolitan.*

(1) Agreement dated August 18, 1931, among Palo Verde Irrigation District, Imperial Irrigation District, Coachella Valley County Water District, Metropolitan, the City of Los Angeles, the City of San Diego and the County of San Diego. These priorities were memorialized in the agencies' respective water delivery contracts with the Secretary of the Interior.

(2) The Coachella Valley Water District serves Coachella Valley.

(3) In 1946, the City of San Diego, the San Diego County Water Authority, Metropolitan and the Secretary of the Interior entered into a contract that merged and added the City and County of San Diego's rights to storage and delivery of Colorado River water to the rights of Metropolitan.

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Metropolitan has taken steps to augment its share of Colorado River water through agreements with other agencies that have rights to use such water. Under a 1988 water conservation agreement (the “1988 Conservation Agreement”) between Metropolitan and the Imperial Irrigation District (“IID”), IID has constructed and is operating a number of conservation projects that are currently conserving 105,000 acre-feet of water per year. In 2008, the conserved water augmented the amount of water available to Metropolitan by 89,000 acre-feet and, by separate agreement, to the Coachella Valley Water District (“CVWD”) by 16,000 acre-feet.

In 1992, Metropolitan entered into an agreement with the Central Arizona Water Conservation District (“CAWCD”) to demonstrate the feasibility of CAWCD storing Colorado River water in central Arizona for the benefit of an entity outside of the State of Arizona. Pursuant to this agreement, CAWCD created 80,909 acre-feet of long-term storage credits that may be recovered by CAWCD for Metropolitan. Metropolitan, the Arizona Water Banking Authority, and CAWCD executed an amended agreement for recovery of these storage credits in December 2007. In 2007, 16,804 acre-feet were recovered. Metropolitan anticipates recovery of as much as 28,600 acre-feet in 2008, has requested the recovery of 30,000 acre-feet for 2009, and expects to request the balance of the storage credits in 2010. Water recovered by CAWCD under the terms of the 1992 agreement allows CAWCD to reduce its use of Colorado River water, resulting in Arizona having an unused apportionment. The Secretary of the Interior is making this unused apportionment available to Metropolitan under its Colorado River water delivery contract.

Metropolitan and the Palo Verde Irrigation District (“PVID”) signed the program agreement for a Land Management, Crop Rotation and Water Supply Program in August 2004. This program provides up to 118,000 acre-feet of water available to Metropolitan in certain years. The term of the program is 35 years. Fallowing of approximately 20,000 acres of land began on January 1, 2005. In 2005, 2006 and 2007, approximately 108,700 acre-feet, 105,500, and 72,300 acre-feet, respectively, of water were saved. Metropolitan’s fallowing call is estimated to save 82,000 acre-feet in 2008 and 118,000 acre-feet in 2009.

In April 2008, Metropolitan’s Board authorized the expenditure of $28.7 million to join the CAWCD and the Southern Nevada Water Authority (“SNWA”) in funding the construction of a new 8,000 acre-foot off-stream regulating reservoir near Drop 2 of the All-American Canal in Imperial County. The reservoir is under construction by the Bureau of Reclamation and is anticipated to be completed in late 2010. The Drop 2 Reservoir is expected to save up to 70,000 acre-feet of water per year by capturing and storing water that would otherwise be lost. In return for its funding, Metropolitan received 100,000 acre-feet of water that is stored in Lake Mead until recovered, with annual delivery of up to 34,000 acre-feet of water through 2010 and up to 25,000 acre-feet between 2011 and 2036. Besides the additional water supply, the new reservoir will add to the flexibility of Colorado River operations.

Management of California’s Colorado River Water Supply. With Arizona’s and Nevada’s increasing use of their respective apportionments and the uncertainty of continued Colorado River surpluses, in 1997 the Colorado River Board of California, in consultation with Metropolitan, IID, PVID, CVWD, the Los Angeles Department of Water and Power and the San Diego County Water Authority (“SDCWA”), embarked on the development of a plan for reducing California’s use of Colorado River water to its basic apportionment of 4.4 million acre-feet when use of that basic allotment is necessary (“California Plan”). In 1999, IID, CVWD, Metropolitan and the State of

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California agreed to a set of Key Terms aimed at managing California's Colorado River supply. These Key Terms were incorporated into the Colorado River Board's May 2000 California Plan that proposed to optimize the use of the available Colorado River supply through water conservation, transfers from higher priority agricultural users to Metropolitan's service area and storage programs.

**Quantification Settlement Agreement.** Many of the core elements of the California Plan are being put into effect under the October 2003 Quantification Settlement Agreement (the "QSA") executed by CVWD, IID and Metropolitan. The QSA establishes Colorado River water use limits for IID, CVWD and Metropolitan, provides for specific acquisitions of conserved water and water supply arrangements for up to 75 years, and restores the opportunity for Metropolitan to receive any "special surplus water" under the Interim Surplus Guidelines. (See "Interim Surplus Guidelines" below.) The QSA also allows Metropolitan to enter into other cooperative Colorado River supply programs. Related agreements modify existing conservation and cooperative water supply agreements consistent with the QSA, and set aside several disputes among California's Colorado River water agencies.

Specific programs undertaken under the QSA include lining portions of the All-American and Coachella Canals, which is projected to conserve 100,000 acre-feet annually. As a result, 84,000 acre-feet of conserved water is projected to be delivered to SDCWA by exchange with Metropolitan and 16,000 acre-feet is projected to be delivered for the benefit of the San Luis Rey Settlement Parties by exchange under a water rights settlement annually. An amendment to the 1988 Conservation Agreement and the associated 1989 Approval Agreement extended the term of the 1988 Conservation Agreement and limited the amount of water used by CVWD to 20,000 acre-feet. By 2021, the transfer of water conserved annually by IID to SDCWA will reach 200,000 acre-feet (see discussion below under the caption "Sale of Water by the Imperial Irrigation District to San Diego County Water Authority"). With full implementation of the programs identified in the QSA, at times when California is limited to its basic apportionment of 4.4 million acre-feet per year, Metropolitan expects to be able to annually divert to its service area 852,000 acre-feet of Colorado River water plus any unused agricultural water that may be available, as was the case from 2003 through 2005. This is further augmented by the PVID program, which provides up to 118,000 acre-feet of water per year. (Amounts of Colorado River water received by Metropolitan in 2003 through 2008 are discussed under the heading "Colorado River Aqueduct-General" above.)

A complicating factor in completing the QSA was the fate of the Salton Sea. The Salton Sea is an important habitat for a wide variety of fish-eating birds as a stopover spot along the Pacific flyway. Some of these birds are listed as threatened or endangered species under the State and Federal ESAs. Located at the lowest elevations of an inland basin and fed primarily by agricultural drainage with no outflows other than evaporation, the Salton Sea is trending towards hyper-salinity, which has already impacted the Salton Sea's fishery. This fishery has historically been suitable habitat for the fish-eating birds. The transfer of water from IID to SDCWA, one of the core programs implemented under the QSA, would reduce the volume of agricultural run-off from IID into the Salton Sea, which in turn would accelerate this natural trend of the Salton Sea to hyper-salinity. See "Sale of Water by the Imperial Irrigation District to San Diego County Water Authority" below. The appropriate mitigation for impacts to the Salton Sea from the IID-SDCWA transfer and the larger issue of Salton Sea restoration was addressed by State legislation implementing the QSA. In passing that legislation, the Legislature committed the State to undertake restoration of the Salton Sea ecosystem. Restoration of the Salton Sea is subject to selection and

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approval of an alternative by the Legislature and funding of the associated capital improvements and operating costs. The Secretary for the California Resources Agency submitted an $8.9-billion preferred alternative for restoration of the Salton Sea to the Legislature in May 2007. While withholding authorization of the preferred alternative, in August 2008 the Legislature appropriated funds from Proposition 84 to undertake demonstration projects and investigations called for in the Secretary’s recommendation. The QSA implementing legislation also established the Salton Sea Restoration Fund, which will be funded in part by payments made by the parties to the QSA and fees on certain water transfers among the parties to the QSA. Under the QSA agreements Metropolitan will pay $20 per acre-foot into the Salton Sea Restoration Fund for any special surplus Colorado River water that Metropolitan elects to take under the Interim Surplus Guidelines. Metropolitan also agreed to acquire up to 1.6 million acre-feet of water conserved by IID, excluding water transferred from IID to SDCWA (see “—Sale of Water by the Imperial Irrigation District to San Diego County Water Authority” below), if such water can be transferred consistent with plans for Salton Sea restoration, at an acquisition price of $250 per acre-foot (in 2003 dollars), with net proceeds to be deposited into the Salton Sea Restoration Fund. No conserved water has been made available to Metropolitan under this program. Metropolitan may receive credit for the special surplus water payments against future contributions for the Lower Colorado River Multi-Species Conservation Program (see “—Environmental Considerations” below). In consideration of these agreements, Metropolitan will not have or incur any liability for restoration of the Salton Sea. As part of an effort to mitigate the effects of the drought in the Colorado River Basin that began in 2000, Metropolitan elected not to take delivery of special surplus Colorado River water that was available from October 2003 through 2004 and from 2006 through 2007. No special surplus water is available in 2008.

Sale of Water by the Imperial Irrigation District to San Diego County Water Authority. On April 29, 1998, SDCWA and IID executed an agreement (“Transfer Agreement”) for SDCWA’s purchase from IID of Colorado River water delivered to IID. An amended Transfer Agreement, executed as one of the QSA agreements, set the maximum transfer amount at 205,000 acre-feet in 2021, with the transfer gradually ramping up to that amount over an approximately twenty-year period and then declining to 200,000 acre-feet per year beginning in 2023.

No facilities exist to deliver water directly from IID to SDCWA. Under the Transfer Agreement, conserved water from IID is delivered to SDCWA through existing facilities owned by Metropolitan. Metropolitan and SDCWA entered into an exchange contract that provides for conserved Colorado River water acquired by SDCWA from IID and water conserved from lining the All-American and Coachella Canals to be made available to Metropolitan for diversion at Lake Havasu. By exchange from the sources of water available to Metropolitan, an equal volume of water is delivered to SDCWA through Metropolitan’s distribution system. The price payable by SDCWA for these deliveries is calculated using the charges set by Metropolitan’s Board from time to time that are applicable to the conveyance of water by Metropolitan on behalf of its member agencies. See “METROPOLITAN REVENUES—Wheeling Charges” in this Appendix A. In 2007 a total of 73,125 acre-feet were delivered to SDCWA under the exchange contract, consisting of 50,000 acre-feet from IID and 23,125 acre-feet as a result of the completion of the Coachella Canal lining project. The same amounts are anticipated to be delivered in 2008, plus another 7,000 acre-feet that may become available from the All-American Canal lining project. Total 2009 exchange deliveries are projected to reach nearly 120,000 acre-feet.

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**QSA Related Litigation.** On November 5, 2003, IID filed a validation action in Imperial County Superior Court, seeking a judicial determination that thirteen agreements associated with the IID/SDCWA water transfer and the QSA are valid, legal and binding. Other lawsuits also were filed challenging the execution, approval and subsequent implementation of the QSA on various grounds including failure to comply with CEQA, violations of the Water Code, breach of trust and fiduciary duties, unconstitutional taking of property rights, and deprivation of federal civil rights under 42 U.S.C. section 1983. Metropolitan filed an answer in IID’s validation proceeding, and has been named as a defendant/respondent/cross-defendant in certain cases pertaining to the QSA and its related agreements. All of the QSA cases have been coordinated in Sacramento Superior Court. Two rounds of pleading challenges that ended in January 2005 narrowed the cases and claims in the coordinated proceedings. In 2005, the Third District Court of Appeal granted the County of Imperial’s petition for review of rulings dismissing one County case and dismissing the CEQA causes of action from another. The Court of Appeal then stayed all lower court proceedings pending appellate review. On June 14, 2007, the Court of Appeal affirmed the Superior Court’s decision. The Court of Appeal denied a petition for rehearing in July 2007, and the time to petition the California Supreme Court expired. The QSA litigation then resumed in the Superior Court where motions to dismiss some of the other QSA lawsuits and for a preliminary injunction were filed.

Success by plaintiffs in the lawsuits described above could delay the implementation of programs authorized under the QSA (described under “-Quantification Settlement Agreement” above) or result in increased costs or other adverse impacts. Such litigation is in its early stages and any adverse impact on Metropolitan or its Colorado River supplies cannot be adequately determined at this time.

The Navajo Nation has filed litigation against the Department of the Interior, specifically the Bureau of Reclamation and the Bureau of Indian Affairs, alleging that the Bureau of Reclamation has failed to determine the extent and quantity of the water rights of the Navajo Nation in the Colorado River and that the Bureau of Indian Affairs has failed to otherwise protect the interests of the Navajo Nation. The complaint challenges the adequacy of the environmental review for the Interim Surplus Guidelines (as defined under “—Interim Surplus Guidelines” below) and seeks to prohibit the Department of the Interior from allocating any “surplus” water until such time as a determination of the rights of the Navajo Nation is completed. Metropolitan has filed a motion to intervene in this action. In October 2004 the court granted the motions to intervene and stayed the litigation to allow negotiations among the Navajo Nation, federal defendants and Arizona parties. The stay has been extended until April 2009. The intervening parties may observe, but may not participate in the negotiations. Negotiations are continuing. This litigation has not delayed implementation of the QSA. Any adverse impact of this litigation on Metropolitan or its Colorado River supplies, if settlement negotiations are not successful, cannot be adequately determined at this time.

**Interim Surplus Guidelines.** In January 2001, the Secretary of the Interior adopted guidelines (the “Interim Surplus Guidelines”) for use through 2016 in determining if there is surplus Colorado River water available for use in California, Arizona and Nevada. The purpose of the Interim Surplus Guidelines is to provide a greater degree of predictability with respect to the availability and quantity of surplus water through 2016. The Interim Surplus Guidelines were later extended through 2026 (See “—Lower Basin Shortage Guidelines and Coordinated Management Strategies for Lake Powell

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and "Lake Mead" below). The Interim Surplus Guidelines contain a series of benchmarks for reductions in agricultural use of Colorado River water within California by set dates.

Under the Interim Surplus Guidelines, Metropolitan initially expected to divert up to 1.25 million acre-feet of Colorado River water annually under foreseeable runoff and reservoir storage scenarios from 2004 through 2016. However, an extended drought in the Colorado River Basin reduced these initial expectations. From 2000 to 2004, snow pack and runoff in the Colorado River Basin were well below average. Although runoff was slightly above average in 2005, the runoff in 2006 and 2007 was again below average, making 2000 through 2007 the driest eight-year period on record. Slightly above-average runoff occurred in water year 2008, with unregulated inflow into Lake Powell totaling 102 percent of normal. As of January 1, 2009, storage in Lake Mead was at 48 percent of capacity and Lake Powell was at 56 percent of capacity. Metropolitan anticipates its 2009 diversion approval from the Bureau of Reclamation will total approximately 835,000 acre-feet including approximately 10,000 acre-feet for emergency delivery for Tijuana, Mexico.

SNWA and Metropolitan entered into an Agreement Relating to Implementation of Interim Colorado River Surplus Guidelines on May 16, 2002, in which SNWA and Metropolitan agreed to the allocation of unused apportionment as provided in the Interim Surplus Guidelines and on the priority of SNWA for interstate banking of water in Arizona. SNWA and Metropolitan entered into a storage and interstate release agreement on October 21, 2004. Under this program, Nevada can request that Metropolitan store unused Nevada apportionment in California. In subsequent years, Nevada may request recovery of this stored water. The stored water provides flexibility to Metropolitan for blending Colorado River water with State Water Project water and improves near-term water supply reliability. By December 31, 2008, Metropolitan stored 70,000 acre-feet of unused Nevada apportionment.

Lower Basin Shortage Guidelines and Coordinated Management Strategies for Lake Powell and Lake Mead. In November 2007, the Bureau of Reclamation issued a Final Environmental Impact Statement ("EIS") regarding new federal guidelines concerning the operation of the Colorado River system reservoirs. These new guidelines provide water release criteria from Lake Powell and water storage and water release criteria from Lake Mead during shortage and surplus conditions in the Lower Basin, provide a mechanism for the storage and delivery of conserved system and non-system water in Lake Mead and extend the Interim Surplus Guidelines through 2026. The Secretary of the Interior issued the final guidelines through a Record of Decision signed in December 2007. The Record of Decision and accompanying agreement among the Colorado River Basin States protect reservoir levels by reducing deliveries during drought periods, encourage agencies to develop conservation programs and allow the states to develop and store new water supplies. The Colorado River Basin Project Act of 1968 insulates California from shortages in all but the most extreme hydrologic conditions.

Intentionally-Created Surplus Program. Metropolitan and the Bureau of Reclamation executed an agreement on May 26, 2006 for a demonstration program that allowed Metropolitan to leave conserved water in Lake Mead that Metropolitan would otherwise use in 2006 and 2007. Only "intentionally-created surplus" water (water that has been conserved through an extraordinary conservation measure, such as land fallowing) was eligible for storage in Lake Mead under this program. See the table "Metropolitan's Water Storage Capacity and Water in Storage" under the heading "—Storage Capacity and Water in Storage" below. Metropolitan may store additional
intentionally-created surplus water in Lake Mead under the federal guidelines for operation of the Colorado River system reservoirs described above under the heading "Lower Basin Shortage Guidelines and Coordinated Management Strategies for Lake Powell and Lake Mead." The Secretary of the Interior will deliver intentionally created surplus water to Metropolitan in accordance with the terms of a December 13, 2007 Delivery Agreement between the United States and Metropolitan.

Environmental Considerations. Federal and state environmental laws protecting fish species and other wildlife species have the potential to affect Colorado River operations. A number of species that are on either “endangered” or “threatened” lists under the ESAs are present in the area of the Lower Colorado River, including among others, the bonytail chub, razorback sucker, southwestern willow flycatcher and Yuma clapper rail. To address this issue, a broad-based state/federal/tribal/private regional partnership that includes water, hydroelectric power and wildlife management agencies in Arizona, California and Nevada have developed a multi-species conservation program for the main stem of the Lower Colorado River (the Lower Colorado River Multi-Species Conservation Program or “MSCP”). The MSCP allows Metropolitan to obtain federal and state permits for any incidental take of protected species resulting from current and future water and power operations of its Colorado River facilities and to minimize any uncertainty from additional listings of endangered species. The MSCP also covers operations of federal dams and power plants on the river that deliver water and hydroelectric power for use by Metropolitan and other agencies. The MSCP covers 27 species and habitat in the Lower Colorado River from Lake Mead to the Mexican border for a term of 50 years. The total cost of the MSCP to Metropolitan will be about $88 million (in 2003 dollars), and will range between $0.8 million and $4.6 million annually.

The non-profit conservation organization Grand Canyon Trust filed litigation in December 2007 against the Bureau of Reclamation, alleging that the Bureau of Reclamation’s planning for, and operation of, the Glen Canyon Dam (which impounds Lake Powell) does not comply with requirements of the National Environmental Policy Act and the Federal ESA. The Trust claims that the Bureau of Reclamation has failed to implement a reasonable and prudent alternative in the United States Fish and Wildlife Service’s 1994 Biological Opinion for Glen Canyon Dam operations for the protection of endangered humpback chub and razorback sucker. Grand Canyon Trust alleges that the Bureau of Reclamation must develop and implement a water release program with steady high flows in the spring and low steady flows in the summer and fall during low water years. Grand Canyon Trust later named the U.S. Fish and Wildlife Service as a defendant. Metropolitan, IID and Central Arizona Water Conservation District have intervened in this case.

Quagga Mussel Control Program. In January 2007 quagga mussels were discovered for the first time in Lake Mead. Quagga mussels can reproduce quickly and, if left unmanaged, can clog intakes and raw water conveyance systems, alter or destroy fish habitats and affect lakes and beaches. Quagga mussels were introduced in the Great Lakes in the late 1980s. These organisms infest much of the Great Lakes basin, the St. Lawrence Seaway, and much of the Mississippi River drainage system. The most likely source of the quagga mussel infestation is recreational boats from water bodies around the Great Lakes, which were transported over 1,000 miles west to Lake Mead. In response to the Lake Mead finding, the California Department of Fish and Game created a multi-agency task force with Metropolitan as one of its members. The initial survey of the Colorado River to ascertain the extent of the quagga mussel colonization detected low densities in Lake Mead, Lake

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Mohave and Lake Havasu and in the intake of the Central Arizona Project. Quagga mussels were also detected at the Colorado River Aqueduct intake pumping plant, Gene Wash and Copper Basin reservoirs, in portions of the Colorado River Aqueduct and in Lake Skinner. A three-week shutdown of the Colorado River Aqueduct for rehabilitation and repairs in March 2007 also permitted inspection for quagga mussels. Desiccation of mussels from emptying the aqueduct during the shutdown, followed by a week of chlorination to kill or limit spread of any remaining mussels after the aqueduct was placed back in service, helped control mussels found there. Shutdowns of the Colorado River Aqueduct in July 2007, October 2007 and March 2008 permitted additional quagga mussel inspection and facilitated control measures.

Metropolitan is presently working to enhance its ability to detect the mussels, studying mussel transport and settling in Metropolitan conveyance systems, assessing additional, more cost effective methods to control mussels and developing and implementing control strategies for mussels in Metropolitan’s lakes and reservoirs. The California Department of Fish and Game has approved Metropolitan’s recreational facilities and boating plan for Diamond Valley Lake and Lake Skinner, which requires inspection of boats and quarantine of those that are potential carriers of mussels. Future quagga mussel control efforts are expected to include infrastructure upgrades and recommendations on boating practices or additional facilities to control the spread of mussels in the Colorado River Aqueduct system and additional long-term measures. In September 2007, the Board appropriated $5.91 million for design and construction of interim chlorination facilities at Copper Basin and Lake Mathews, design of permanent chlorination facilities at Copper Basin, Lake Mathews and Diamond Valley Lake and related quagga mussel control measures. In February 2008, the Board appropriated $1.77 million for a new chlorine injection point at the Lake Skinner Outlet Conduit and for the procurement of liquid chlorine trailers and mobile chlorination units and in August 2008, the Board appropriated an additional $1.87 million to complete the chlorination facilities at Copper Basin and Lake Mathews. Metropolitan estimates that its costs for controlling quagga mussels could exceed $10 million per year.

**Cadiz Litigation.** Beginning in 1996, Metropolitan was negotiating with Cadiz Incorporated, a publicly-held agricultural company ("Cadiz"), regarding a potential off-stream storage and dry-year supply program to be located in the Cadiz and Fenner Valleys in eastern San Bernardino County, California. The proposed program included facilities to store and return water from the Colorado River Aqueduct, and to transfer indigenous groundwater to Metropolitan as a dry-year supply. In October 2002 Metropolitan’s Board voted not to proceed with the Cadiz program. On January 13, 2006, Cadiz served Metropolitan with an action alleging that Metropolitan breached agreements to complete the environmental review of the program and to accept the pipeline right-of-way that could have been used by Cadiz with other potential project partners. Metropolitan contends that it had no obligation, under the agreements or otherwise, to proceed with the project, absent the approval of Metropolitan’s Board, and that the Board had full discretion in determining not to proceed with the project. Cadiz’s Second Amended Complaint seeks compensatory damages, including general damages in excess of $2 million, unspecified special damages (e.g. lost profits) and specific performance. Metropolitan is vigorously defending this action. However, if plaintiff is successful in all its contentions, an award for special damages and costs of specific performance could reach tens of millions of dollars. On October 19, 2007, the trial court granted Metropolitan’s motion for summary adjudication on the causes of action for breach of contract, promissory estoppel, breach of implied contract and specific performance. Based on the trial court’s ruling, only Cadiz’s allegations of breach of fiduciary duty are left to be tried. Metropolitan’s motion for judgment on

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the pleadings was heard by the court on November 5, 2008. On November 10, 2008, the court granted Metropolitan’s motion and granted Cadiz leave to amend its complaint regarding breach of fiduciary duty. Cadiz filed its Third Amended Complaint on November 26, 2008. Metropolitan’s demurrer to the Third Amended Complaint was filed on December 23, 2008, with a hearing scheduled on February 4, 2009.

Soboba Band of Mission Indians Litigation. On April 20, 2000, the Soboba Band of Mission Indians filed a lawsuit against Metropolitan in U.S. District Court seeking an injunction requiring Metropolitan to repair the Colorado River Aqueduct’s San Jacinto Tunnel to halt the flow of reservation groundwater into it, an award of damages against Metropolitan in an unspecified amount or restitution in lieu of damages, and attorneys’ fees and costs. An agreement for settlement of this litigation, which requires Metropolitan to provide the Soboba tribe with approximately 20 acres of land and for Metropolitan to sell up to 9,000 acre-feet of replenishment water per year to Eastern Municipal Water District, was executed on June 7, 2006. Eastern Municipal Water District and the United States also have obligations to the Soboba tribe under the terms of the settlement. Implementing legislation was enacted July 31, 2008.

Water Transfer and Exchange Programs

General. California’s agricultural activities consume approximately 34 million acre-feet of water annually, which is 80 percent of the total water used for agricultural and urban uses and 40 percent of the water used for all consumptive uses, including environmental demands. Voluntary water transfers and exchanges can make a portion of this agricultural water supply available to support the State’s urban areas. Such existing and potential water transfers and exchanges are an important element for improving the water supply reliability within Metropolitan’s service area and accomplishing the reliability goal set by Metropolitan’s Board of Directors. Metropolitan is currently pursuing voluntary water transfer and exchange programs with State, federal, public and private water districts and individuals. The following are summary descriptions of some of these programs.

Arvin-Edison/Metropolitan Water Management Program. In December 1997, Metropolitan entered into an agreement with the Arvin-Edison Water Storage District (“Arvin-Edison”), an irrigation agency located southeast of Bakersfield, California. Under the program, Arvin-Edison stores water on behalf of Metropolitan. In January 2008, Metropolitan amended the agreement to enhance the program’s capabilities and to increase the delivery of water to the California Aqueduct. Up to 350,000 acre-feet of Metropolitan’s water may be stored and Arvin-Edison is obligated to return up to 75,000 acre-feet of stored water in any year to Metropolitan, upon request. The agreement will terminate in 2035 unless extended. To facilitate the program, new wells, spreading basins and a return conveyance facility connecting Arvin-Edison’s existing facilities to the California Aqueduct have been constructed. The agreement also provides Metropolitan priority use of Arvin-Edison’s facilities to convey high quality water available on the east side of the San Joaquin Valley to the California Aqueduct. Metropolitan’s current storage account under the Arvin-Edison/Metropolitan Water Management Program is shown in the table “Metropolitan’s Water Storage Capacity and Water in Storage” under the heading, “—Storage Capacity and Water in Storage” below.

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Semitropic/Metropolitan Groundwater Storage and Exchange Program. In 1994 Metropolitan entered into an agreement with the Semitropic Water Storage District ("Semitropic"), located adjacent to the California Aqueduct north of Bakersfield, to store water in the groundwater basin underlying land within Semitropic. The minimum annual yield available to Metropolitan from the program is 31,500 acre-feet of water and the maximum annual yield is 223,000 acre-feet of water depending on the available unused capacity and the State Water Project allocation. Metropolitan’s current storage account under the Semitropic program is shown in the table “Metropolitan’s Water Storage Capacity and Water in Storage” under the heading, “—Storage Capacity and Water in Storage” below.

California Aqueduct Dry-Year Transfer Program. Metropolitan has entered into agreements with the Kern Delta Water District, the Mojave Water Agency (Demonstration Water Exchange Program) and the San Bernardino Valley Municipal Water District to insure against regulatory and operational uncertainties in the State Water Project system that could impact the reliability of existing supplies. The total potential yield for the three agreements is approximately 115,000 acre-feet of water per year.

Metropolitan entered into an agreement with San Bernardino Valley Municipal Water District in April 2001 to coordinate the use of facilities and State Water Project water supplies. The agreement allows for the minimum purchase of 20,000 acre-feet on an annual basis with the option to purchase additional water when available. Also, the program includes 50,000 acre-feet of carryover storage. In addition to water being supplied using the State Water Project, the previously stored water can be returned using an interconnection between the San Bernardino Central Feeder and Metropolitan’s Inland Feeder. Metropolitan took delivery of approximately 30,000 acre-feet from San Bernardino Valley Municipal Water District under the agreement in calendar year 2007. This program terminates on December 31, 2014. Metropolitan entered into an agreement with Kern Delta Water District on May 27, 2003, for a groundwater banking and exchange transfer program to allow Metropolitan to store up to 250,000 acre-feet of State Water Contract water in wet years and permit Metropolitan, at Metropolitan’s option, a return of up to 50,000 acre-feet of water annually during hydrologic and regulatory droughts. Additionally, Metropolitan entered into a groundwater banking and exchange transfer agreement with Mojave Water Agency on October 29, 2003. The agreement allows for Metropolitan to store water in an exchange account for later return. Metropolitan’s current storage account under these programs is shown in the table “Metropolitan’s Water Storage Capacity and Water in Storage” under the heading, “—Storage Capacity and Water in Storage” below.

Other Water Purchase, Storage and Exchange Programs in the San Joaquin and Sacramento Valleys. Metropolitan has been negotiating water purchase, storage and exchange programs with other agencies in the Sacramento and San Joaquin Valleys. These programs will involve the storage of both State Water Project supplies and water purchased from other sources to enhance Metropolitan’s dry-year supplies and the exchange of normal year supplies to enhance Metropolitan’s water reliability and water quality, in view of dry conditions and potential impacts from the ESA cases discussed above under the heading “—State Water Project—Endangered Species Act Considerations.” Metropolitan has entered into agreements to purchase water transfer supplies for 2008 totaling 26,415 acre-feet from Western Canal Water District, Richvale Irrigation District, South Feather Water and Power Agency and South Sutter Water District at a price of up to $200 per acre-foot. After providing for conveyance losses, estimated at 20 percent, the effective unit

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cost for these transfers is estimated to be approximately $250 per acre-foot. In addition, Metropolitan is pursuing water quality exchange partnerships with San Joaquin Valley agricultural districts, including the Friant Water Users Authority. The purpose of these partnerships is to improve the quality of water that Metropolitan receives via the California Aqueduct.

Metropolitan entered into an agreement with the Department of Water Resources in December 2007 to purchase a portion of the water released by the Yuba County Water Agency ("YCWA"). YCWA was involved in a SWRCB proceeding in which it was required to increase Yuba River fishery flows. Within the framework of agreements known as the Yuba River Accord, the Department of Water Resources and the Bureau of Reclamation entered into agreements for the long-term purchase of water from YCWA. Metropolitan and other State Water Project contractors entered into separate agreements with the Department of Water Resources for purchase of portions of the water made available. Metropolitan’s agreement allows Metropolitan to purchase 13,750 acre-feet to 35,000 acre-feet per year of water supplies in dry years through 2025. Since the water would be purchased from the Sacramento Valley, Delta conveyance losses, which are estimated at 20 percent, would be applied.

**Metropolitan/Coachella/Desert Water Agency Exchange and Advance Delivery Agreement.** Metropolitan has agreements with the CVWD and the Desert Water Agency ("Desert") that require Metropolitan to exchange its Colorado River water for those agencies’ State Water Project entitlement water on an annual basis. Because Desert and Coachella do not have a physical connection to the State Water Project, Metropolitan takes delivery of Desert’s and CVWD’s State Water Project supplies and delivers a like amount of Colorado River water to the agencies. In accordance with an advance delivery agreement executed by Metropolitan, CVWD and Desert, Metropolitan delivers Colorado River water in advance to these agencies for storage in the Upper Coachella Valley groundwater basin. In years when supplies are needed to meet local demands, Metropolitan has the option to receive the water supply and must pay the associated State Water Project transportation costs and CVWD and Desert may use the stored water. Metropolitan’s current storage account under the CVWD/Desert program is shown in the table “Metropolitan’s Water Storage Capacity and Water in Storage” under the heading, “—Storage Capacity and Water in Storage” below.

**Other Agreements.** Metropolitan is entitled to storage and access to stored water in connection with various storage programs and facilities. See “METROPOLITAN’S WATER SUPPLY—Colorado River Aqueduct” and “REGIONAL WATER RESOURCES—Local Water Supplies—Conjunctive Use” in this Appendix A, as well as the table “Metropolitan’s Water Storage Capacity and Water in Storage” under the heading, “—Storage Capacity and Water in Storage” below.

**Storage Capacity and Water in Storage**

Metropolitan’s storage capacity, which includes reservoirs, conjunctive use and other groundwater storage programs within Metropolitan’s service area and groundwater and surface storage accounts delivered through the State Water Project or Colorado River Aqueduct, has increased to 5.0 million acre-feet. Approximately 674,000 acre-feet of stored water is emergency storage that is reserved for use in the event of supply interruptions from earthquakes or similar
emergencies (see “METROPOLITAN’S WATER DELIVERY SYSTEM—Seismic Considerations” in this Appendix A), as well as extended drought.

Metropolitan’s ability to replenish water storage, both in the local groundwater basins and in surface storage and banking programs, has been limited by Bay-Delta pumping restrictions under the Interim Remedial Order in NRDC v. Kempthorne. Metropolitan replenishes its storage accounts when imported supplies exceed demands. Effective storage management is dependent on having sufficient years of excess supplies to store water so that it can be used during times of shortage. Historically, excess supplies have been available in about seven of every ten years. Metropolitan forecasts that, with anticipated supply reductions from the State Water Project due to pumping restrictions, it will need to draw down on storage in about seven of ten years and will be able to replenish storage in about three years out of ten. This reduction in available supplies extends the time required for storage to recover from drawdowns and could require Metropolitan to implement its water supply allocation plan during extended dry periods.

Over the past two years Metropolitan has drawn down approximately half of its stored water to meet demands. At its highest in July 2006, Metropolitan’s storage was 2.74 million acre-feet. As of December 1, 2008, Metropolitan had approximately 1.6 million acre-feet of water in storage, as shown in the following table. Groundwater storage and other storage programs may have physical or contractual conditions that affect withdrawal capacity or limit the maximum amount that may be withdrawn each year.
METROPOLITAN'S WATER STORAGE CAPACITY
AND WATER IN STORAGE
(in Acre-Feet)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Colorado River Aqueduct</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Desert / Coachella</td>
<td>800,000</td>
<td>59,591</td>
<td>121,387</td>
</tr>
<tr>
<td>Lake Mead ICS(1)</td>
<td>1,450,000</td>
<td>88,324</td>
<td>41,398</td>
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<tr>
<td>Arizona Storage Program</td>
<td>n/a</td>
<td>37,105</td>
<td>64,105</td>
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<tr>
<td>Hayfield Storage Program</td>
<td>n/a</td>
<td>73,300</td>
<td>73,300</td>
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<tr>
<td><strong>Subtotal</strong></td>
<td>2,250,000</td>
<td>258,220</td>
<td>300,190</td>
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<tr>
<td><strong>State Water Project</strong></td>
<td></td>
<td></td>
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<tr>
<td>Arvin Edison Storage Program</td>
<td>250,000</td>
<td>161,200</td>
<td>189,400</td>
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<td>Semitropic Storage Program</td>
<td>350,000</td>
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<td>249,300</td>
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<td>Kern Delta Storage Program</td>
<td>250,000</td>
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<td>San Bernardino Valley MWD Coordination Operating Agreement</td>
<td>50,000</td>
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<td>50,000</td>
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<td>Mojave Storage Program</td>
<td>75,000</td>
<td>15,600</td>
<td>18,900</td>
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<tr>
<td>Castaic Lake and Lake Perris</td>
<td>219,000</td>
<td>137,600</td>
<td>204,000</td>
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<td><strong>Subtotal</strong></td>
<td>1,194,000</td>
<td>546,600</td>
<td>742,900</td>
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<td><strong>Within Metropolitan's Service Area</strong></td>
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<tr>
<td>Diamond Valley Lake</td>
<td>810,000</td>
<td>419,000</td>
<td>596,400</td>
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<tr>
<td>Lake Mathews</td>
<td>182,000</td>
<td>74,100</td>
<td>114,000</td>
</tr>
<tr>
<td>Lake Skinner</td>
<td>44,000</td>
<td>40,500</td>
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</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>1,036,000</td>
<td>533,600</td>
<td>748,400</td>
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<td><strong>Member Agency Storage Programs</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Cyclic Storage, Conjunctive Use, and Supplemental Storage</td>
<td>662,000</td>
<td>253,100</td>
<td>323,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>5,142,000</td>
<td>1,591,620</td>
<td>2,114,490</td>
</tr>
</tbody>
</table>

*Source: Metropolitan.*

(1) Water in storage as of December 1, 2008, includes 100,000 acre-feet credited in April 2008 in return for Metropolitan funding for the regulating reservoir near Drop 2 of the All-American Canal in Imperial County, less 34,000 acre-feet withdrawn during 2008. See “METROPOLITAN’S WATER SUPPLY—Colorado River Aqueduct” in this Appendix A.
Five-Year Supply Plan

In April 2008, Metropolitan staff began working with Metropolitan’s member agencies on a Five-Year Supply Plan (“Supply Plan”) to identify specific resource and conservation actions over the next five years to manage water deliveries under continued drought conditions and court-ordered restrictions. The Supply Plan focuses on six categories of resource options to improve Metropolitan’s reliability over the next five years. These categories are:

**Water Conservation.** The Supply Plan targets the following water conservation strategies to increase and accelerate conservation savings by increasing the use of water efficient devices, affecting water use practices in Southern California and reducing prohibited uses of water: (1) increase outreach to heighten the public’s awareness of the need to conserve, (2) increase resources and support for water use ordinances and conservation-based rate structures to motivate conservation, (3) accelerate the installation of water efficient devices, and (4) extend the existing Public Sector Water Efficiency Partnership Demonstration Program that provides water conservation incentives to public agencies, to reinforce Metropolitan’s public messaging efforts to save water by public sector example and reduce water use. See “METROPOLITAN’S WATER SUPPLY – Water Conservation” in this Appendix A.

**Colorado River Transactions.** Metropolitan is pursuing additional supplies under the Palo Verde Irrigation District Land Management Program and water purchases from the Coachella Valley Water District. Investigations are also underway for participation with the Bureau of Reclamation in pilot operation of the Yuma Desalter that could yield 10,000 acre-feet per year. New initiatives also include potential advance delivery of the remainder of water stored in the Arizona Groundwater account, a water exchange with Arizona, and a transfer from California Indians. If successful, these programs on the Colorado River could provide up to an additional 100,000 to 150,000 acre-feet of Colorado River Aqueduct supply annually.

**Near-Term Delta Actions.** Near-term Delta actions being developed include measures that protect fish species and reduce supply impacts, such as habitat and hatchery projects, and physical and operational actions with the goal of reducing conflicts between water supply conveyance and environmental needs. The proposed Two-Gate System would provide movable barriers on the Old and Middle Rivers to modify flows and prevent vulnerable fish from being drawn toward the Bay-Delta pumping plants. The Two-Gate System is anticipated to protect fish habitat while allowing up to an estimated additional 200,000 acre-feet per year of water supply export from the Bay-Delta. The Two-Gate System is subject to operational studies; monitoring; environmental documentation and compliance; acquisition of right-of-way; and completion of design and construction.

**State Water Project Transactions.** The Department of Water Resources established the State Drought Water Bank (the “Drought Water Bank”) for transfers in 2009 from willing sellers located upstream of the Bay-Delta to buyers through the State Water Project and Central Valley Project. Prospective buyers were required to give expressions of interest to the Department of Water Resources by October 15, 2008. Metropolitan is seeking to purchase up to 300,000 acre-feet from the Drought Water Bank. Purchases from the Drought Water Bank will be contingent on acquisition by the Department of Water Resources of supplies from willing sellers. Delivery of Drought Water Bank transfers will be contingent on sufficient capacity for export of this water through the Bay-

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Delta. According to the Department of Water Resources, if precipitation during the winter of 2008-09 is average to relatively wet, capacity for export of the transfer water may not be available.

The Supply Plan also includes additional transfers with entities within the Bay-Delta (see “Water Transfer and Exchange Programs” above) and investigations into the feasibility of crop rotation demonstration projects with Kern County agencies, as well as the return of existing transfers stored in Shasta Lake. In addition, Metropolitan may benefit from a water transfer between North Kern Water Storage District and Desert Water Agency by taking up to 27,500 acre-feet of State Water Project water over the next three years. This water, along with approximately 8,500 acre-feet of water transferred to Metropolitan in 2008, will be returned to Desert Water Agency in increments of 1,200 acre-feet per year over the next 30 years.

Groundwater Recovery. Groundwater that requires treatment and recovery for consumptive use is a resource that has the potential to yield significant amounts of supply. Based on groundwater inventories conducted by Metropolitan and the member agencies, it is estimated that there is over 300,000 acre-feet of groundwater that could be treated and recovered in Metropolitan’s service area. Additionally, it is estimated that between 5,000 to 20,000 acre-feet could be supplied through the operation of wells in San Bernardino Valley Municipal Water District’s (“SBVMWD”) service area to deliver water to Metropolitan through the recently completed initial phase of the SBVMWD Central Feeder. The Hayfield groundwater basin located adjacent to the Colorado River Aqueduct has 70,000 to 100,000 acre-feet that could be extracted over the next five years. Also, more than 300,000 acre-feet of recovered groundwater accumulated from agricultural drainage in the San Joaquin Valley could be made available to Metropolitan if Metropolitan funds groundwater treatment facilities.

Local Resources. Several local resource projects such as reclamation and ocean desalination could be expanded and/or accelerated with a potential to be on line within the next five years. Mechanisms proposed to motivate this expansion and/or acceleration include funding of physical components of a project, including connections, treatment and delivery of water; funding local resource project feasibility studies, design and environmental review, and permitting; purchasing partial ownership of a project through funding a share of total project cost; purchasing contract rights for the delivery of a new water supply; and funding for the completion of hookups to existing recycled water distribution lines. The estimated combined yield of all projects submitted for evaluation exceeds 160,000 acre-feet by 2013.

Metropolitan’s estimate of the dry year yield of the above Supply Plan actions is shown in the following table:
ESTIMATED YIELD OF FIVE-YEAR SUPPLY PLAN ACTIONS
(in Thousands of Acre-Feet (TAF))

<table>
<thead>
<tr>
<th></th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
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<tr>
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<td>113</td>
<td>167</td>
<td>150</td>
<td>150</td>
<td>150</td>
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<tr>
<td>Transactions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Near Term Delta</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Actions(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWP Transactions</td>
<td>210</td>
<td>110</td>
<td>105</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Groundwater Recovery</td>
<td>10</td>
<td>63</td>
<td>63</td>
<td>51</td>
<td>51</td>
</tr>
<tr>
<td>Local Resources</td>
<td>5</td>
<td>5</td>
<td>105</td>
<td>123</td>
<td>167</td>
</tr>
<tr>
<td>Total</td>
<td>553</td>
<td>565</td>
<td>648</td>
<td>654</td>
<td>703</td>
</tr>
</tbody>
</table>

Source: Metropolitan.

(1) Two-Gate System is estimated to provide up to 200 TAF when the State Water Project allocation is greater than about 35%. Yield is shown at 0 because of this contingency.

Water Conservation

The central objective of Metropolitan's water conservation activities is to help ensure adequate, reliable and affordable water supplies for Southern California by actively promoting efficient water use. The importance of conservation to the region has increased in 2008 because of drought conditions in the State Water Project watershed and court-ordered restrictions on Bay-Delta pumping, as described under "METROPOLITAN'S WATER SUPPLY—State Water Project" in this Appendix A. Water conservation is an integral component of Metropolitan's IRP, Preferred Resource Mix, Five-Year Supply Plan and Drought and Resources Management Plans, each described in this Appendix A under "METROPOLITAN'S WATER SUPPLY."

Metropolitan's conservation activities have largely been developed to assist its member agencies in meeting the "best management practices" ("BMP") of the California Urban Water Conservation Council's Memorandum of Understanding Regarding Urban Water Conservation in California ("CUWCC MOU") and to meet the conservation goals of the 2004 IRP Update. See "—Integrated Water Resources Plan" in this Appendix A. Under the terms of the CUWCC MOU and Metropolitan's Conservation Credits Program, Metropolitan co-funds member agency conservation programs designed to achieve greater water use efficiency in residential, commercial, industrial, institutional and landscape applications. Direct spending by Metropolitan on active conservation incentives from fiscal year 1989-90 through fiscal year 2007-08 was $223 million. The 2004 Integrated Water Resources Plan Update estimates that 1,100,000 acre-feet of water will be conserved annually in southern California by 2025. See “METROPOLITAN’S WATER SUPPLY—Integrated Water Resources Plan.”

In August 2007, Metropolitan launched a significant public outreach campaign to urge consumers and businesses to voluntarily save water during current record dry conditions. The campaign combines radio, print and on-line advertising with media and community outreach efforts. Along with the message to save water, the campaign is intended to educate the public about the

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uncertainties of future water supplies. Metropolitan’s Board also authorized agreements with public agencies to provide financial incentives for water saving measures, ranging from $195 to $500 per acre-foot of potable water saved, up to a maximum of $15 million for the Public Sector Water Efficiency Partnership Demonstration Program. This program aims to continue public support for conservation through public agency accomplishments and efforts. Metropolitan estimated total water savings from this program of 40,000 acre-feet. The campaign was intensified following Metropolitan’s declaration of a regional Water Supply Alert on June 10, 2008. Metropolitan urged cities, counties and water districts in its service area to achieve extraordinary conservation by adopting and enforcing drought ordinances, accelerating public outreach and conservation messaging, and developing additional local supplies. Metropolitan estimates that conservation resulting from these measures could reduce the demand for imported water supplies by about 200,000 acre-feet over the twelve months following this declaration.

If necessary, Metropolitan could implement its Water Supply Allocation Plan (described under “—Drought and Resources Management Plans” below), resulting in mandatory water allocations, to reduce water use and drawdowns from water storage reserves. Metropolitan’s member agencies and retail water suppliers in Metropolitan’s service area also have the ability to implement water conservation and allocation programs, and some of the retail suppliers in Metropolitan’s service area have initiated conservation measures.

Drought and Resources Management Plans

Possible causes of water supply deficits are droughts, failures of major water transmission facilities, environmental restrictions and other adverse events. Metropolitan’s current approach to managing water shortages has evolved from its experiences during the droughts of 1976-77 and 1987-92 into the Water Surplus and Drought Management Plan (“WSDM Plan”).

The WSDM Plan, which was adopted by Metropolitan’s Board of Directors in April 1999, establishes broad resource management strategies to meet full service demands. The WSDM Plan splits resource actions into two major categories: Surplus Actions and Shortage Actions. The WSDM Plan considers the region to be in surplus only after Metropolitan has met all demands for water, including replenishment deliveries. The Surplus Actions store surplus water, first inside then outside the region. The shortage actions of the WSDM Plan are split into three sub-categories: Shortage, Severe Shortage, and Extreme Shortage. Each category has associated actions that could be taken as a part of the response to prevailing shortage conditions. Conservation and water efficiency programs are part of Metropolitan’s resource management strategy through all categories. Under Shortage conditions, Metropolitan may make withdrawals from storage based on location and ability to access and interrupt groundwater replenishment deliveries. Under Severe Shortage conditions, Metropolitan will call for extraordinary drought conservation, reduce agricultural water deliveries, exercise available options for water transfers and seek other water purchases. Under Extreme Shortage conditions, Metropolitan will allocate or reduce water deliveries to its member agencies.

Although the WSDM Plan provides principles for imported water supply allocation if the need should arise, the WSDM Plan stopped short of providing a detailed allocation plan. Beginning in 2007, Metropolitan staff, working with member agency staff, prepared a water allocation plan (the “Water Supply Allocation Plan”) based on the principles contained in the WSDM Plan. The Water

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Supply Allocation Plan was approved by the Board in February 2008. The Water Supply Allocation Plan provides a formula for equitable distribution of available supplies in case of extreme water shortages within Metropolitan’s service area. A separate action of Metropolitan’s Board will be required to implement the Plan and subject water deliveries to the allocation formula.

The Central Basin Municipal Water District ("Central Basin") filed litigation against Metropolitan in Los Angeles Superior Court, Central District, on April 16, 2008 challenging Metropolitan’s adoption of the Water Supply Allocation Plan. The complaint alleges that the Water Supply Allocation Plan violates Central Basin’s preferential right to purchase of water and, if implemented, will be a breach of Central Basin’s member agency purchase order (see “METROPOLITAN REVENUES—Member Agency Purchase Orders” in this Appendix A); that Metropolitan inappropriately relied on exemptions under CEQA to avoid CEQA compliance; that the Board’s adoption of the Water Supply Allocation Plan failed to address “environmental justice”; that the Water Supply Allocation Plan’s penalty rate is unfair, unreasonably discriminates against Central Basin and is an unauthorized “special tax” enacted without voter approval; and that adoption of the Water Supply Allocation Plan violated California and United States constitutional rights regarding impairment of contract, due process and equal protection. The complaint seeks a writ of mandate setting aside adoption of the Water Supply Allocation Plan and seeks recovery of attorney’s fees and other litigation costs. Metropolitan has filed the administrative record, which Central Basin moved to strike, and is preparing to file appropriate responses.

Metropolitan’s member agencies and retail water suppliers in Metropolitan’s service area also may implement water conservation and allocation programs within their respective service territories.

REGIONAL WATER RESOURCES

The water supply for Metropolitan’s service area is provided in part by Metropolitan and in part by non-Metropolitan sources available to members. Approximately two-thirds of the water supply for Metropolitan’s service area is imported water received by Metropolitan from its Colorado River Aqueduct and the State Water Project and by the City of Los Angeles (the “City”) from the Los Angeles Aqueduct. While the City is one of the largest water customers of Metropolitan, it receives a substantial portion of its water from the Los Angeles Aqueduct and local groundwater supply. The balance of water within the region is produced locally, primarily from groundwater supplies and runoff.

Metropolitan’s member agencies are not required to purchase or use any of the water available from Metropolitan. Some agencies depend on Metropolitan to supply 100 percent of their water needs, regardless of the weather. Other agencies, with local surface reservoirs or aqueducts that capture rain or snowfall, rely on Metropolitan more in dry years than in years with heavy rainfall, while others, with ample groundwater supplies, purchase Metropolitan water only to supplement local supplies or to recharge groundwater basins. Record rainfall in Southern California in 2005, after five consecutive years of below-average precipitation, reduced demands for Metropolitan water during this period and replenished local groundwater basins and reservoirs. After near average precipitation in 2006 and record low precipitation in 2007, Southern California experienced normal to above normal precipitation levels at the beginning of 2008, but had very dry conditions in March and April, making for below normal precipitation for 2008. To the extent that

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weather conditions reduce demands for water, or water resources within Metropolitan's service area are plentiful, or to the extent that Metropolitan's members initiate or undertake conservation and other water management programs or obtain water from other sources, Metropolitan's water sales revenues could be reduced. Conversely, increased demands for imported water and decreased water supplies within Metropolitan’s service area could increase Metropolitan's water sales revenues. For information on Metropolitan's revenues, see “METROPOLITAN REVENUES” and “MANAGEMENT’S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES” in this Appendix A.

The following graph shows a summary of the regional sources of water supply for the years 1971 to 2007. Local supplies available within Metropolitan’s service area are augmented by water imported by the City through the Los Angeles Aqueduct and Metropolitan supplies provided through the Colorado River Aqueduct and State Water Project.

**Source of Water Supply in the Metropolitan Service Area (1971-2007)**

![Source of Water Supply Graph]

*Source: Metropolitan.*

The major sources of water for Metropolitan’s member agencies in addition to supplies provided by Metropolitan are described below.

**Los Angeles Aqueduct**

The City, through its Department of Water and Power, operates its Los Angeles Aqueduct system to import water from the Owens Valley and the Mono Basin on the eastern slopes of the Sierra Nevada Mountains in eastern California. Prior to the Mono Lake Basin Water Right Decision A-32

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1631 (Decision 1631) issued in September 1994, which revised the Department of Water and Power’s water rights license in the Mono Basin, the City had imported an average of 460,000 acre-feet of water annually from the combined Owens Valley/Mono Basin system, of which about 85,000 acre-feet came from the Mono Basin. Under Decision 1631, the City has exported less than 16,000 acre-feet annually from the Mono Basin in recent years.

Pursuant to the City’s turnout agreement with the Department of Water Resources, Antelope Valley-East Kern Water Agency (“AVEK”) and Metropolitan, the Department of Water and Power may construct facilities along the California Aqueduct within AVEK’s service area. Upon completion, the turnout will enable AVEK to deliver water from the California Aqueduct to the Los Angeles Aqueduct. Conditions precedent to such delivery of water include obtaining agreements for the transfer of non-State Water Project water directly from farmers and water districts in Northern and Central California, available capacity in the California Aqueduct and compliance with State Water Project water quality requirements. The agreement limits use of the turnout to delivery of non-State Water Project water annually to the City in amounts not to exceed the supplies lost to the City as a result of its Eastern Sierra environmental obligations, including water for the Lower Owens River Project and Owens Lake Dust Mitigation Project, which used over 100,000 acre-feet of Los Angeles Aqueduct water in 2007. Construction of the turnout is anticipated to begin in spring 2009, at the earliest.

Historically, the Los Angeles Aqueduct and local groundwater supplies have been nearly sufficient to meet the City’s water requirements during normal water supply years. As a result, as recently as the late 1980’s only about 15 percent of the City’s water needs (approximately 100,000 acre-feet) were supplied by Metropolitan. From fiscal year 2000-01 to fiscal year 2007-08, from 34 to 65 percent of the City’s total water requirements were met by Metropolitan. For the five fiscal years ending June 30, 2008, the City’s water deliveries from Metropolitan averaged approximately 309,000 acre-feet per year, which constituted approximately 47% of the City’s total water supply. Deliveries from Metropolitan to the City during this period varied between approximately 209,000 acre-feet per year and approximately 422,000 acre-feet per year. See “METROPOLITAN REVENUES—Principal Customers” in this Appendix A. According to the Los Angeles Department of Water and Power’s Year 2005 Urban Water Management Plan, the City is planning to purchase approximately 30 to 40 percent of its normal year supplies and 51 to 60 percent of its dry year supplies from Metropolitan over the next 25 years. This corresponds to an increase from normal to dry years of approximately 134,000 acre-feet in potential demand for supplies from Metropolitan.

The Los Angeles Department of Water and Power has indicated that it is currently analyzing additional impacts to the Los Angeles Aqueduct’s water supply deliveries of various environmental projects aimed at improving air quality and fish and riparian habitat in the Owens Valley. The City’s future reliance on Metropolitan supplies may increase with implementation of these projects.

**Local Water Supplies**

Local water resources include groundwater production, recycled water production and diversion of surface flows.

*Groundwater.* Demands for about 1.3 million acre-feet per year, about one-third of the annual water demands for over 18 million residents of Metropolitan’s service area, are met from
groundwater production. Local groundwater supplies are supported by recycled water, which is blended with imported water and recharged into groundwater basins, and also used for creating seawater barriers that protect coastal aquifers from seawater intrusion.

_Recovered Groundwater._ Contamination of groundwater supplies is a growing threat to local groundwater production. Metropolitan has been supporting increased groundwater production and improved regional supply reliability by offering financial incentives to agencies for production and treatment of degraded groundwater since 1991. Metropolitan has executed 24 agreements to provide financial incentives to projects that recover contaminated groundwater with total contract yields of about 84,000 acre-feet per year. During fiscal year 2007-08 Metropolitan paid for approximately 48,000 acre-feet of recovered water under these agreements. Total groundwater recovery use under executed agreements is expected to grow to 69,000 acre-feet by 2015.

_Surface Runoff._ Local agencies divert about 100,000 acre-feet per year of water from flows in local streams. Local surface water supplies are heavily influenced by year to year weather conditions, varying from 190,000 acre-feet in fiscal year 1999 to 55,000 acre-feet in fiscal year 2004.

_Conjunctive Use._ Conjunctive use is accomplished when groundwater basins are used to store imported supplies during water abundant periods. The stored water is used during shortages and emergencies with a corresponding reduction in surface deliveries to the participating agencies. Regional benefits include enhancing Metropolitan’s ability to capture excess surface flows during wet years from both the State Water Project and Colorado River. Groundwater storage is accomplished using spreading basins, injection wells, and in-lieu deliveries where imported water is substituted for groundwater, and the groundwater not pumped is considered stored water.

Metropolitan promotes conjunctive use at the local agency level under its Replenishment Water Program by discounting rates for imported water placed into groundwater or reservoir storage during wet months. The discounted rate and program rules encourage construction of additional groundwater production facilities allowing local agencies to be more self-sufficient during shortages. In calendar year 2006, Metropolitan delivered approximately 228,000 acre-feet of water as replenishment water. In calendar year 2007, Metropolitan delivered approximately 52,000 acre-feet of water as replenishment up to May 1, then discontinued storage deliveries for the balance of the year. See also “CAPITAL INVESTMENT PLAN—Other Major Projects of Metropolitan’s Capital Investment Plan—Groundwater Storage Programs” in this Appendix A.

_Reycled Water._ Currently, 128 recycled water projects with an expected year 2025 yield of about 434,000 acre-feet of water per year are being constructed or operated by local agencies in Metropolitan’s service area for landscape, municipal, agricultural, groundwater recharge, and commercial and industrial uses.
METROPOLITAN'S WATER DELIVERY SYSTEM

Method of Delivery

Metropolitan’s water delivery system is made up of three basic components: the Colorado River Aqueduct, the California Aqueduct of the State Water Project and Metropolitan’s internal water distribution system. Metropolitan’s delivery system is integrated and designed to meet the differing needs of its member agencies. Metropolitan seeks redundancy in its delivery system to assure reliability in the event of an outage. Current system expansion and other improvements will be designed to increase the flexibility of the system. Since local sources of water are generally used to their maximum each year, growth in the demand for water is partially met by Metropolitan. Accordingly, the operation of Metropolitan’s water system is being made more reliable through the construction of additional storage reservoirs, rehabilitation of key facilities as needed, additional pipelines, improved preventive maintenance programs and the upgrading of Metropolitan’s operational control systems. See “CAPITAL INVESTMENT PLAN” in this Appendix A.

Colorado River Aqueduct. Work on the Colorado River Aqueduct commenced in 1933 and water deliveries started in 1941. Additional facilities were completed by 1961 to meet additional requirements of Metropolitan’s member agencies. The Colorado River Aqueduct is 242 miles long, starting at the Lake Havasu intake and ending at the Lake Mathews terminal reservoir. Metropolitan owns all of the components of the Colorado River Aqueduct, which include five pump plants, 64 miles of canal, 92 miles of tunnels, 55 miles of concrete conduits and 144 underground siphons totaling 29 miles in length. The pumping plants lift the water approximately 1,617 feet over several mountain ranges to Metropolitan’s service area. See “METROPOLITAN’S WATER SUPPLY—Colorado River Aqueduct” in this Appendix A.

State Water Project. The initial portions of the State Water Project serving Metropolitan were completed in 1973. State Water Project facilities are owned and operated by the Department of Water Resources. Twenty-nine agencies have entered into contracts with the Department of Water Resources to receive water from the State Water Project. See “METROPOLITAN’S WATER SUPPLY—State Water Project” in this Appendix A.

Internal Distribution System. Metropolitan’s internal water distribution system includes components that were built beginning in the 1930’s and through the present. Metropolitan owns all of these components, which include 14 dams and reservoirs, five regional treatment plants, approximately 770 miles of transmission pipelines, feeders and canals, and sixteen hydroelectric plants with an aggregate capacity of 122 megawatts.

Diamond Valley Lake. The most recent major addition to Metropolitan’s water delivery system is Diamond Valley Lake, a man-made reservoir located southwest of the city of Hemet, California, within the Domenigoni and Diamond Valleys. Excavation at the project site began in May 1995. Diamond Valley Lake was completed in March 2000, at a total cost of $2 billion, and was in full operation in December 2001.

The Diamond Valley Lake covers approximately 4,410 acres and is estimated to hold approximately 810,000 acre-feet or 265 billion gallons of water. The Diamond Valley Lake was

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constructed to serve approximately 90 percent of Metropolitan’s service area by gravity flow. Associated hydraulic structures consist of an inlet-outlet tower, pumps and generating facilities, a pressure control facility, connecting tunnels and a forebay. Imported water is delivered to Diamond Valley Lake during surplus periods. The reservoir provides more reliable delivery of imported water from the State Water Project and the Colorado River Aqueduct during summer months, droughts and emergencies. In addition, the Diamond Valley Lake is capable of providing more than one-third of Southern California's water needs from storage for approximately six months after a major earthquake (assuming that there has been no impairment of Metropolitan's internal distribution network). See the table “Metropolitan's Water Storage Capacity and Water in Storage” under “METROPOLITAN'S WATER SUPPLY—Storage Capacity and Water in Storage” in this Appendix A for the amount of water in storage at Diamond Valley Lake.

Operations Control Center. Metropolitan’s water conveyance and distribution system operations are coordinated from the Operations Control Center (“OCC”) located in the Eagle Rock area of Los Angeles. The OCC plans, balances and schedules daily water and power operations to meet member agencies’ demands, taking into consideration the operational limits of the entire system.

Water Treatment

Metropolitan filters and disinfects water at five water treatment plants: the F.E. Weymouth Treatment Plant, the Joseph Jensen Treatment Plant, the Henry J. Mills Treatment Plant, the Robert B. Dicner Treatment Plant and the Robert A. Skinner Treatment Plant. The plants treat an average of between 1.7 billion and 2.0 billion gallons of water per day, and have a maximum capacity of approximately 2.6 billion gallons per day. Approximately 70 percent of Metropolitan’s water deliveries are treated water.

Federal and state regulatory agencies continually monitor and establish new water quality standards. New water quality standards could affect availability of water and impose significant compliance costs on Metropolitan. The Safe Drinking Water Act (“SDWA”) was amended in 1986 and again in 1996. The SDWA establishes drinking water quality standards, monitoring, public notification and enforcement requirements for public water systems. To achieve these objectives, the U.S. Environmental Protection Agency (“USEPA”), as the lead regulatory authority, promulgates national drinking water regulations and develops the mechanism for individual states to assume primary enforcement responsibilities. The California Department of Public Health (“CDPH”), formerly known as the Department of Health Services, has lead authority over California water agencies. Metropolitan continually monitors new water quality laws and regulations and frequently comments on new legislative proposals and regulatory rules.

In October 2007 Metropolitan began adding fluoride to treated water in order to prevent tooth decay. Design and construction of the fluoridation facilities at Metropolitan’s five treatment plants were financed primarily by a $5.5 million grant from the California Dental Association Foundation, in conjunction with the California Fluoridation 2010 Work Group.

Disinfection By-products. As part of the requirements of SDWA, USEPA is required to establish regulations to strengthen protection against microbial contaminants and reduce potential health risks from disinfection by-products. Disinfectants and disinfection by-products (“D/DBPs”)
were addressed by the USEPA in two stages. In the Stage 1 Disinfectants and Disinfection Byproducts Rule ("Stage 1 DBPR"), the maximum contaminant level ("MCL") for one of the classes of D/DBPs, total trihalomethanes ("TTHM"), was lowered from 100 parts per billion ("ppb") to 80 ppb. MCLs were also set for haloacetic acids ("HAA") and bromate (an ozone D/DBP). In addition, the Stage 1 DBPR includes a treatment requirement to remove disinfection by-product precursors. Compliance with these requirements started in January 2002. Metropolitan already satisfied these requirements for its Colorado River Water, which has lower levels of microbial contaminants and disinfection by-products than State Water Project water. State Water Project water has a greater amount of disinfection by-product precursors and modifications to the treatment process have been made to meet the requirements of the Stage 1 DBPR. Longer-term D/DBP control has been achieved by switching to ozone as the primary disinfectant at the Mills and Jensen treatment plants, which only receive water from the State Water Project. The capital cost of implementing ozone treatment at these plants was approximately $235 million. Ozone facilities at the Mills plant began operating in October 2003. Ozone facilities became operational at the Jensen plant July 1, 2005. Metropolitan’s Board has also approved installing ozone at the Skinner, Weymouth and Diemer treatment plants, which receive a blend of water from the State Water Project and the Colorado River. Ozone will enable these plants to reliably treat water containing higher blends of State Project water and still meet the new microbial and D/DBP standards. The estimated capital cost is $971 million, with ozone expected to be on-line in 2011 for the Skinner plant, 2012 for the Diemer plant and 2015 for the Weymouth plant.

The second stage of the D/DBP Rule ("Stage 2 DBPR") was finalized in January 2006. The Stage 2 DBPR requires water systems to meet the TTHM and HAA standards at individual monitoring locations in the distribution system as opposed to a distribution system-wide average under the Stage 1 DBPR. Metropolitan does not anticipate any further capital improvements in order to meet the Stage 2 DBPR requirements. See “CAPITAL INVESTMENT PLAN—Other Major Projects of Metropolitan’s Capital Investment Plan—Water Treatment Facilities” in this Appendix A.

The Interim Enhanced Surface Water Treatment Rule and the Long Term 2 Enhanced Surface Water Treatment Rule ("LT2ESWTR") have been implemented to simultaneously provide protection against microbial pathogens while the D/DBP rules provide reduced risk from disinfection by-products. Metropolitan does not anticipate any further capital improvements in order to meet the LT2ESWTR requirements.

Perchlorate. Perchlorate, used in solid rocket propellants, munitions and fireworks, has contaminated some drinking water wells and surface water sources throughout California. Perchlorate also has been detected in Metropolitan’s Colorado River water supplies. A chemical manufacturing facility near Lake Mead in Nevada is a primary source of the contamination. Remediation efforts began in 1998 and have been successful at meeting the cleanup objectives, significantly reducing the levels of perchlorate entering into the Colorado River. CDPH has established a primary drinking water standard (i.e., MCL) of 6 ppb for perchlorate. Current perchlorate levels in Metropolitan’s Colorado River supplies are at or below 2 ppb.

Chromium 6. Currently there is a public health standard for “total” Chromium, which includes Chromium 6, of 50 ppb. Chromium 6, however, is the relatively more harmful form. The California Office of Environmental Health Hazard Assessment (“OEHHA”) is currently evaluating

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existing toxicological data and is expected to propose a public health goal ("PHG") for chromium 6. Following release of the PHG, the CDPH can proceed with final development of a MCL for Chromium 6. Metropolitan's source water has trace concentrations (less than 1 ppb) of Chromium 6. It is expected that the adoption of a Chromium 6 regulation will not materially affect the water supply to Metropolitan or result in significant compliance costs.

Arsenic. In January 2001, the USEPA adopted a new drinking water arsenic rule. The new rule lowers the federal MCL for arsenic from 50 ppb to 10 ppb effective January 23, 2006. CDPH was required to adopt an MCL for arsenic that is at least as stringent as the federal standard and as close as economically and technically feasible to California's arsenic public health goal. The arsenic public health goal, which was adopted by OEHHA in April 2004, is 4 parts per trillion. CDPH implemented the new federal MCL during the development of the State regulation. Arsenic levels in Metropolitan's treated water supplies have averaged below 2 ppb in recent years. The new arsenic MCL is not expected to result in significant compliance costs.

Seismic Considerations

General. Major portions of the California Aqueduct, the Colorado River Aqueduct and Metropolitan's internal distribution system are located near major earthquake faults, including the San Andreas Fault. No assurance can be made that a significant seismic event would not cause damage to project structures, which could thereby interrupt the supply of water. Such event could adversely affect Metropolitan's revenues, which, in turn, could negatively impact its ability to pay its obligations.

Metropolitan has an ongoing surveillance program that monitors the safety and structural performance of its 14 dams and reservoirs. Operating personnel perform regular inspections that include monitoring and analyzing seepage flows and pressures. Engineers responsible for dam safety review the inspection data and monitor the horizontal and vertical movements for each dam. Major on-site inspections are performed at least twice each year. Instruments to transmit seismic acceleration time histories for analysis any time a dam is subjected to strong motion during an earthquake are located at a number of selected sites.

In addition, Metropolitan has developed an emergency plan that calls for specific levels of response appropriate to an earthquake's magnitude and location. Included in this plan are various communication tools as well as a structured plan of management that varies with the severity of the event. Predesignated personnel follow detailed steps for field facility inspection and distribution system patrol. Approximately 40 employees are designated to respond immediately under certain identifiable seismic events. An emergency operations center is maintained at the OCC. The OCC, which is specifically designed to be earthquake resistant, contains communication equipment, including a radio transmitter, microwave capability and a response line linking Metropolitan with the Department of Water Resources and the State’s Office of Emergency Services. In the event of earthquake damage, Metropolitan expects its fabrication shop in La Verne, California, to have the capacity to fabricate pipe and related fittings for repairs.

State Water Project Facilities. The California Aqueduct crosses all major faults either by canal at ground level or by pipeline at very shallow depths to ease repair in case of damage from movement along a fault. State Water Project facilities are designed to withstand major earthquakes.
along a local fault or magnitude 8.1 earthquakes along the San Andreas Fault without major damage. Dams, for example, are designed to accommodate movement along their foundations and to resist earthquake forces on their embankments. Earthquake loads have been taken into consideration in the design of project structures such as pumping and power plants. The location of check structures on the canal allows for hydraulic isolation of the fault-crossing repair.

The water from Northern California passes through 1,600 miles of aging levees in the Bay-Delta. In the event of a failure of the Bay-Delta levees, the quality of the Bay-Delta’s water could be severely compromised as salt water comes in from the San Francisco Bay to equalize water pressure. Metropolitan’s supply of State Water Project water would be impacted if pumps that move Bay-Delta water southward to the Central Valley and Southern California are shut down to contain the salt water intrusion. Metropolitan estimates that stored water supplies, Colorado River Aqueduct supplies and local water resources that would be available in case of a levee breach or other interruption in State Water Project supplies would meet demands in Metropolitan’s service area for approximately twelve months. (See “METROPOLITAN’S WATER SUPPLY—Storage Capacity and Water in Storage” in this Appendix A). Since the State and Federal governments control the Bay-Delta levees, repair of any levee failures would be the responsibility of the State and Federal governments.

Metropolitan, in cooperation with the State Water Contractors, developed recommendations to the Department of Water Resources for emergency preparedness measures to maintain continuity in export water supplies and water quality during emergency events. These measures include improvements to emergency construction materials stockpiles in the Bay-Delta, improved emergency contracting capabilities, strategic levee improvements and other structural measures of importance to Bay-Delta water export interests. The Department of Water Resources utilized $12 million in fiscal year 2007-08 for initial stockpiling of rock for emergency levee repairs and development of Bay-Delta land and marine loading facilities.

Perris Dam. The Department of Water Resources reported in July 2005 that seismic studies indicate that the Department’s Perris Dam facility could sustain damage from moderate earthquakes along the San Jacinto or San Andreas faults due to potential weaknesses in the dam’s foundation. The studies used technology not available when the dam was completed in 1974. Perris Dam forms Lake Perris, the terminal reservoir for the State Water Project in Riverside County, with maximum capacity of approximately 130,000 acre-feet of water. In late 2005, the Department of Water Resources lowered the water level in the reservoir by about 25 feet and reduced the amount of water stored in the reservoir to about 75,000 acre-feet as the Department of Water Resources evaluates alternatives for repair of the dam. The lower lake level elevation was intended to prevent over-topping of the dam crest in the event of a major earthquake and to prevent uncontrolled releases. In December 2006, the Department of Water Resources completed a study identifying various repair options, began additional geologic exploration along the base of Perris Dam and started preliminary design. The Department of Water Resources’ preferred alternative is to repair the dam to restore the reservoir to its historical level. The Department of Water Resources estimates that such repairs will cost between $340 million and $460 million and take four to eight years to complete. Water stored in Lake Perris is used primarily by Metropolitan. Accordingly, Metropolitan likely would be a major contributor toward the cost of repair or replacement of Perris Dam under its State Water Contract. (See “METROPOLITAN EXPENDITURES—State Water Contract Obligations” in this Appendix A.)
Metropolitan Facilities. Metropolitan’s water conveyance and distribution facilities are designed to either withstand a maximum probable seismic event or to minimize the potential repair time in the event of damage. The five pumping plants on the Colorado River Aqueduct have been buttressed to better withstand seismic events. Other components of the Colorado River Aqueduct are monitored for any necessary rehabilitation and repair. Metropolitan personnel and independent consultants periodically reevaluate the internal distribution system’s vulnerability to earthquakes. Supplies are dispersed throughout Metropolitan’s service area, and a six-month reserve supply of water normally held in local storage (including emergency storage in Diamond Valley Lake) provides reasonable assurance of continuing water supplies during such events.

Security Measures

Metropolitan conducts ground and air patrols of the Colorado River Aqueduct and monitoring and testing at all treatment plants and along the Colorado River Aqueduct. Similarly, the Department of Water Resources has in place security measures to protect critical facilities of the State Water Project, including both ground and air patrols of the State Water Project.

Although Metropolitan has constructed redundant systems and other safeguards to ensure its ability to continually deliver water to its customers, and the Department of Water Resources has made similar efforts, no assurance can be given that a terrorist attack, or other security breach, against water facilities would not impair Metropolitan’s ability to deliver water to its customers. A terrorist attack, or other security breach, that materially impairs water deliveries throughout Metropolitan’s system could impair Metropolitan’s operations and revenues and impact its ability to pay its obligations.

CAPITAL INVESTMENT PLAN

General Description

Metropolitan’s current Capital Investment Plan (the “Capital Investment Plan” or “CIP”) involves expansion and rehabilitation of existing facilities and construction of new facilities to provide for resource development, meet future water demands and comply with water quality regulations. Metropolitan’s CIP is regularly reviewed and updated. Implementation and construction of specific elements of the program are subject to Board approval, and the amount and timing of borrowings will depend upon, among other factors, status of construction activity and water demands within Metropolitan’s service area. From time to time projects that have been undertaken are delayed, redesigned or deferred by Metropolitan for various reasons and no assurance can be given that a project in the CIP will be completed in accordance with its original schedule or that any project will be completed as currently planned.

Inland Feeder Project

The Inland Feeder project currently is Metropolitan’s largest capital project. It consists of a pipeline and tunnel conveyance system, approximately 44 miles long and 12 feet in diameter, which will carry State Water Project water from Devil Canyon Power Plant in the San Bernardino Mountains to Diamond Valley Lake and the Colorado River Aqueduct, both in Riverside County. The project will provide greater flexibility in managing Metropolitan’s major water supplies and will allow greater amounts of State Water Project water to be accepted during wet seasons for storage in

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Diamond Valley Lake. The Inland Feeder project is planned to increase the conveyance capacity from the East Branch of the State Water Project by 1,000 cubic-feet per second ("cfs"), allowing the East Branch to operate up to its full capacity. The Board has approved a total project budget of $1.2 billion for the Inland Feeder project. Expenditures through June 30, 2008 were approximately $1.01 billion. For fiscal year 2009, $61.4 million is budgeted. The Inland Feeder project currently is expected to be in service in late 2010, and is anticipated to be completed within budget.

On July 23, 2007, the California Supreme Court rendered its decision in Metropolitan Water District v. Campus Crusade for Christ, Inc., an eminent domain case brought by Metropolitan to acquire property for the Inland Feeder Project. At trial, Metropolitan won a favorable judgment awarding $478,278 as just compensation for taking of the property. Campus Crusade had sought compensation totaling $15.6 million. On appeal, the Court of Appeal reversed the judgment and ruled that Campus Crusade should have been allowed to present evidence of additional damages to the jury. The Supreme Court agreed that the trial judge should leave the decision on certain damages issues to the jury and remanded the case for a new trial. Any increase in compensation awarded to Campus Crusade in a new trial will increase the capital cost of the Inland Feeder Project.

A portion of the Inland Feeder is within the San Bernardino National Forest. In 1999 construction of the Arrowhead East and West Tunnels was terminated due to groundwater issues. In June 2001, the U.S. Forest Service approved the permit to extend the time to complete the tunnels until 2008. Construction of the tunnels was resumed in 2002. An extension of the permit until 2012 was recently obtained. Mining of the Arrowhead East Tunnel was completed in May 2008 and the Arrowhead West Tunnel mining was completed in August 2008. Lining of both tunnels is proceeding.

To take advantage of available State Water Project water, Metropolitan constructed a tie-in to San Bernardino Municipal Water District’s pipeline. Utilizing completed portions of the Inland Feeder, 200 cfs of State Water Project water currently can be delivered through the tie-in.

**Other Major Projects of Metropolitan’s Capital Investment Plan**

The following is a brief description of other major projects contained in Metropolitan’s CIP:

**Water Treatment Facilities**

**Oxidation Retrofit Facilities.** The oxidation retrofit facilities plan includes the design and construction of oxidation retrofit facilities and appurtenances at all of Metropolitan’s treatment plants. This project is intended to allow Metropolitan to meet drinking water standards for disinfection by-products and reduce taste and odor incidents. The first phase of the oxidation retrofit program, at Metropolitan’s Henry J. Mills Treatment Plant in Riverside County, was completed in 2003. Oxidation retrofit at the Joseph Jensen Treatment Plant was completed July 1, 2005. The cost for these two projects was approximately $235 million. The oxidation retrofit programs at the Robert B. Diemer, F.E. Weymouth and Robert A. Skinner plants are estimated to cost $371 million, $361 million and $239 million, respectively. Expenditures at the Diemer plant through June 30, 2008 were $144 million, with $45 million budgeted in fiscal year 2009. Completion is expected in fiscal year 2012. Expenditures at the Weymouth plant through June 30, 2008 were $30 million, with $3 million budgeted in fiscal year 2009. Completion is expected in fiscal year 2015. Expenditures
at the Skinner plant through June 30, 2008 were $184 million, with $42 million budgeted for fiscal year 2009. Completion is expected in fiscal year 2011.

**Skinner Water Treatment Plant Expansion and Improvements.** In addition to the oxidation retrofit project, expansion at the Skinner plant, including the addition of the 110-million gallons per day ("mgd") Module No. 7, the 34-mgd Washwater Reclamation Plant No. 3, associated chemical tank farms and feed systems and numerous other projects, is under way. Construction of Washwater Reclamation Plant No. 3 was completed in December 2006. Construction of Module No. 7 was completed in April 2007 and the associated chemical tank farms and feed systems were completed in August 2007. All other projects at Skinner are expected to be completed by fiscal year 2011. The total cost for these projects is approximately $318 million, with $279 million spent through June 30, 2008. Budgeted capital expenditures at Skinner for fiscal year 2009 are $17 million.

**Mills Water Treatment Plant Capacity Upgrade.** The Mills Water Treatment Plant Capacity Upgrade includes the design and construction of two additional ozone contactors, new enhanced solids handling capability for Modules 1 through 4, upgrade of equipment and processes of Modules 1 and 2 and upgrade of the post-filter disinfection system. These upgrades will enable Metropolitan to maximize the use of the Henry J. Mills plant by increasing its capacity from 160 mgd to 326 mgd. The cost for this project is approximately $138 million, with $17 million spent through June 30, 2008. Capital expenditures for fiscal year 2009 are budgeted at $36 million. Completion of the new and upgraded facilities is anticipated by fiscal year 2012.

**Water Distribution Projects**

**San Diego Pipeline No. 6.** The San Diego Pipeline No. 6 project, a joint project between Metropolitan and SDCWA, includes the construction of a 30-mile, nine to ten foot diameter pipeline and tunnel conveyance system to meet supplemental water needs in Riverside and San Diego Counties. Total costs for Metropolitan's portion of the project are estimated to be $299 million. The 6.9-mile North Reach of the pipeline, providing service through a connection with Eastern Municipal Water District, was completed in January 2007 at a cost of $66.3 million. Metropolitan, in conjunction with SDCWA, is currently studying alternative alignments for the remainder of Pipeline No. 6. The planned on-line date is 2018.

**Perris Valley Pipeline.** Metropolitan is constructing the Perris Valley Pipeline to increase the capacity for future deliveries of treated water from Metropolitan's Henry J. Mills Treatment Plant. The 96-inch diameter pipeline will be approximately 6.5 miles long and will have service connections to Eastern and Western Municipal Water Districts. It is anticipated that Metropolitan's cost of the project will be approximately $150 million. Metropolitan's expenditures as of June 30, 2008, were $54 million, with $62 million budgeted to be spent in fiscal year 2009. Final completion of the project is anticipated by summer of 2010.

**Central Pool Augmentation and Water Quality Project.** This project includes a feasibility study, environmental documentation and land acquisition for a new treatment plant at Lake Mathews and an 18-mile tunnel and pipeline conveyance system to deliver water from Lake Mathews to western Riverside and Orange Counties. The studies and acquisition of lands critical to the project are expected to be completed by fiscal year 2019, at a cost of approximately $62 million. Total program cost, including a new treatment plant and conveyance system, is estimated to be

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approximately $1.2 billion; however, recent planning studies show the need for this project has been deferred and construction is not expected to begin until after the 10-year planning window.

Infrastructure Reliability Projects

Weymouth Water Treatment Plant Improvements. The Weymouth Water Treatment Plant was built in 1938 and subsequently expanded several times over the following 35 years. It is Metropolitan’s oldest water treatment facility. Metropolitan plans major upgrades and refurbishment/replacement projects to maintain its reliability and improve its efficiency. These include upgrading the incoming electrical service from a single 12-kV power line to a new underground 66-kV service line, upgrading and/or replacing the plant’s power centers and distribution system and upgrading the emergency power back-up generators and grounding system. An overall master plan of treatment facilities improvements will also be developed, to be constructed after completion of the new ozone facilities. The preliminary cost estimate for all projected improvements at the Weymouth plant, not including the ozone facilities, is approximately $230 million, with $55 million spent through June 2008. Budgeted capital expenditures for improvements at the Weymouth plant for fiscal year 2009 are $28 million.

Colorado River Aqueduct Facilities. The Colorado River Aqueduct was originally completed in 1941. Through annual inspections and maintenance activities, the performance and reliability of the various components of the Colorado River Aqueduct are regularly evaluated. A major overhaul of the pump units at the five pumping plants was completed in 1988. Refurbishment or replacement of many of the electrical system components, including the transformers, circuit breakers and motor control centers, is currently being planned. Additionally, many of the mechanical components at the pumping plants as well as the Copper Basin and Gene Wash Reservoirs will be replaced over the next few years. The cost estimate for these refurbishment or replacement projects is currently $166 million. Costs through June 2008 were $85 million, with $17 million budgeted for fiscal year 2009.

Groundwater Storage Programs

Metropolitan has partnered with a number of agencies to develop various groundwater storage projects in its service area. These projects are designed to help meet the water delivery reliability goals of storing surplus imported supplies when available so that local agencies can withdraw stored groundwater during droughts or other periods of water supply shortage.

Groundwater Storage Using Proposition 13 Funds. Metropolitan was allocated $45 million in State bond proceeds to develop groundwater storage projects in Metropolitan’s service area. A funding agreement for the City of Long Beach project to provide 13,000 acre-feet of groundwater storage was executed in July 2002 and construction was completed during calendar year 2006. In September 2007, Metropolitan called for extraction of 4,300 acre-feet of stored water from this project with Long Beach, and Long Beach shifted 4,300 acre-feet of imported water demand to the storage program in October, November and December of 2007. A funding agreement for a second storage program with the City of Long Beach to provide 3,600 acre-feet of storage was executed in July 2005.

A funding agreement for the Three Valleys Municipal Water District project with the City of La Verne to provide 3,000 acre-feet of storage was executed in October 2002, and a second funding agreement with Three Valleys Municipal Water District for a storage program in the Upper

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Claremont Heights Basin to provide 3,000 acre-feet of storage was executed in September 2005. A funding agreement for the Foothill Municipal Water District Project to provide 9,000 acre-feet of storage was executed in February 2003.

A funding agreement for projects anticipated to provide 100,000 acre-feet of storage in Chino Basin and 66,000 acre-feet of storage in the Orange County Basin were executed in June 2003. A funding agreement for the City of Compton to provide 2,289 acre-feet of storage was executed in February 2005. A funding agreement with Western Municipal Water District and Elsinore Valley Municipal Water District was executed in December 2006 for storage of 12,000 acre-feet.

The nine projects in this program, when completed, are expected to provide over 210,000 acre-feet of groundwater storage. The aggregate amount of water stored pursuant to the Long Beach, Chino Basin, Orange County Basin, Three Valleys Municipal Water District/City of La Verne, Foothill Municipal Water District, Compton and Western Municipal Water District/Elsinore Valley Municipal Water District agreements is shown as part of the member agency water storage programs in the table “Metropolitan’s Water Storage Capacity and Water in Storage” under “METROPOLITAN’S WATER SUPPLY—Storage Capacity and Water in Storage” in this Appendix A.

North Las Posas Basin Groundwater Storage Program. This groundwater storage program includes construction of facilities to store water in the North Las Posas Groundwater Basin in Ventura County. The storage capacity is 210,000 acre-feet, with an extraction capacity of 47,000 acre-feet per year. The amount of water stored pursuant to the North Las Posas Basin groundwater storage program is shown as part of the member agency water storage programs in the table “Metropolitan’s Water Storage Capacity and Water in Storage” under “METROPOLITAN’S WATER SUPPLY—Storage Capacity and Water in Storage” in this Appendix A. Construction of the Phase 1 and Phase 2 well fields and the pipeline to integrate these well fields into the Calleguas Municipal Water District’s distribution system is complete and construction of the Phase 1 Moorpark Pump Station is expected to be completed by February 2009. In September 2007 Metropolitan requested extraction from the storage account through 2008, and Calleguas Municipal Water District is meeting a portion of its imported water demands with groundwater from the storage account.

Capital Investment Plan Financing

The CIP will require significant funding from debt financing as well as from pay-as-you-go funding. The Board has adopted an internal funding objective to fund all capital program expenditures required for replacements and refurbishments of Metropolitan facilities from current revenues. However, in order to reduce drawdowns of reserve balances during fiscal year 2007-08 and to mitigate financial risks that could occur in upcoming years, pay-as-you-go funding totaled $45 million in fiscal year 2007-08, rather than the $85 million originally budgeted for the fiscal year. Pay-as-you-go funding is anticipated to increase to $95 million per year in fiscal years 2008-09 through 2010-11. To make up for the reduction in pay-as-you-go funding in 2007-08, Metropolitan plans to increase pay-as-you-go funding to $125 million per year in fiscal years 2011-12 and 2012-13.
To limit the accumulation of cash and investments in the Replacement and Refurbishment Fund, the maximum balance in this fund at the end of each fiscal year will be $95 million. Amounts above the $95 million limit will be transferred to the Revenue Remainder Fund and may be used for any lawful purpose. The remainder of capital program expenditures will be funded through the issuance from time to time of water revenue bonds, which are payable from Net Operating Revenues. Metropolitan expects to issue additional water revenue bonds to fund the CIP in the future. See “METROPOLITAN EXPENDITURES—Revenue Bond Indebtedness” in this Appendix A.

Projection of Capital Investment Plan Expenditures

The table below sets forth projected CIP expenditures by project type for the fiscal years ending June 30, 2009 through 2013. The requirements of the CIP from fiscal year 2008-09 through fiscal year 2012-13 are estimated to be approximately $1.72 billion in escalated dollars. This estimate is updated annually as a result of the periodic review and revision of the CIP. See “CAPITAL INVESTMENT PLAN—General Description” and “HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES.”

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Source: Metropolitan.

(1) Based on Fiscal Year 2008-09 budget. Totals are rounded.
(2) Includes conjunctive use programs and other capital projects to develop additional reliable supplies.
The above projections do not include amounts for contingencies, but include escalation at 2.77 percent per year for projects for which formal construction contracts have not been awarded. Additional capital costs may arise in the future as a result of, among other things, federal and State water quality regulations, project changes and mitigation measures necessary to satisfy environmental and regulatory requirements, and for additional facilities to, among other things, replenish groundwater basins and operate groundwater basins conjunctively with surface supplies. See "METROPOLITAN’S WATER DELIVERY SYSTEM—Water Treatment" above.

GOVERNANCE AND MANAGEMENT

Board of Directors

Metropolitan is governed by a 37-member Board of Directors. Each member public agency is entitled to have at least one representative on the Board, plus an additional representative for each full five percent of the total assessed valuation of property in Metropolitan’s service area that is within the member public agency. Changes in relative assessed valuation do not terminate any director’s term. Accordingly, the Board may, from time to time, have more than 37 directors.

The Board includes business, professional and civic leaders. Directors serve on the Board without compensation from Metropolitan. Voting is based on assessed valuation, with each member agency being entitled to cast one vote for each $10 million or major fractional part of $10 million of assessed valuation of property within the member agency, as shown by the assessment records of the county in which the member agency is located. The Board administers its policies through the Metropolitan Water District Administrative Code (the “Administrative Code”), which was adopted by the Board in 1977. The Administrative Code is periodically amended to reflect new policies or changes in existing policies that occur from time to time.

Management

Metropolitan’s day-to-day management is under the direction of its General Manager, who serves at the pleasure of the Board, as do Metropolitan’s General Counsel, General Auditor and Ethics Officer. Following is a biographical summary of Metropolitan’s principal executive officers.

Jeffrey Kightlinger, General Manager – Mr. Kightlinger was appointed General Manager in February 2006, leaving the position of General Counsel, which he had held since February 2002. Before becoming General Counsel, Mr. Kightlinger was a Deputy General Counsel and then Assistant General Counsel, representing Metropolitan primarily on Colorado River matters, environmental issues, water rights and a number of Metropolitan’s water transfer and storage programs. Prior to joining Metropolitan in 1995, Mr. Kightlinger worked in private practice representing numerous public agencies including municipalities, redevelopment agencies and special districts. Mr. Kightlinger earned his bachelor’s degree in history from the University of California, Berkeley, and his law degree from the University of Santa Clara.

Karen Tachiki, General Counsel – Ms. Tachiki assumed the position of General Counsel in February 2007. She previously served as Metropolitan’s lead attorney on Colorado River matters and was Metropolitan’s Assistant General Counsel from November 1988 to July 2000. From July

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2000 to January 2003 Ms. Tachiki was principal resources manager for McGuire Environmental Consultants, Inc. She served as chief counsel of the Southern California Association of Governments (SCAG) from January 2003 until rejoining Metropolitan. She also served as SCAG’s director of government and public affairs from April 2006 to February 2007. She is former chair of the Colorado River Water Users Association’s resolutions committee and has served as a member of the resolutions committee of the National Water Resources Association and the legal affairs committee of the Association of California Water Agencies. Ms. Tachiki earned a bachelor’s degree in political science and law degree from the University of California at Los Angeles.

Gerald C. Riss, General Auditor — Mr. Riss was appointed as Metropolitan's General Auditor in July 2002 and is responsible for the independent evaluation of the policies, procedures and systems of control throughout Metropolitan. Mr. Riss is a certified fraud examiner, certified financial services auditor and certified risk professional with more than 25 years of experience in accounting, audit and risk management. Prior to joining Metropolitan, Mr. Riss was Vice President and Assistant Division Head of Risk Management Administration at United California Bank/Bank of the West. He also served as Senior Vice President, director of Risk Management and General Auditor of Tokai Bank of California from 1988 until its reorganization as United California Bank in 2001. He earned a bachelor’s degree in accounting and master’s degree in business administration from Wayne State University in Detroit, Michigan.

Deni Elliott, Ethics Officer — Ms. Elliott was appointed as Ethics Officer on June 8, 2004. She served as Metropolitan’s interim Ethics Officer beginning in September 2003. Ms. Elliott holds the Poynter Jamison Chair in Media Ethics and Press Policy at the University of South Florida, St. Petersburg, where she is a tenured full professor in the Department of Journalism. She has taught ethics for more than 24 years, including at the University of Montana, Dartmouth College, Utah State University and Wayne State University. Ms. Elliott also was founding director of the Dartmouth College Ethics Institute and the Practical Ethics Center at the University of Montana, as well as founding director of the nation’s first graduate degree program in teaching ethics. She was awarded an interdisciplinary doctoral degree from Harvard University in the philosophy of education, and earned a master’s degree in philosophy from Wayne State University and bachelor’s degree in communications from the University of Maryland.

Brian G. Thomas, Assistant General Manager/Chief Financial Officer — Mr. Thomas was appointed as Chief Financial Officer in May 2000. Mr. Thomas previously worked for Metropolitan from 1993 to February 1999, beginning as Assistant Director of Finance before being selected as Assistant Chief of Planning and Resources. From February 1999 to April 2000, Mr. Thomas worked as Assistant General Manager of Finance and Administration for the City of Anaheim’s Public Utilities Department, where he was responsible for financial management, budgeting, administration and overseeing the utility’s power resources program. Mr. Thomas holds a doctorate and masters degree in economics from the University of California, Riverside and bachelor degrees in biology and economics from California State Polytechnic University, Pomona.

Debra Man, Assistant General Manager/Chief Operating Officer — Ms. Man was appointed to this position on December 15, 2003. Ms. Man has worked at Metropolitan since 1986, beginning as an engineer and advancing to Chief of the Planning and Resources Division. As Chief of Planning and Resources she was responsible for major initiatives adopted by Metropolitan’s Board, such as the Integrated Water Resources Plan, rate structure, and facility plans for expansion of

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Metropolitan’s distribution system. In 1999 she was appointed as Vice President of Water Transfers and Exchanges, responsible for securing water supplies through agreements and partnerships with other water and agricultural interests in San Joaquin Valley and Southern California and demonstrating Metropolitan’s water supply reliability in compliance with current laws. Ms. Man is a registered professional civil engineer in California and Hawaii. She has a master’s degree in civil/environmental engineering from Stanford University and a bachelor’s degree in civil engineering from the University of Hawaii.

Roger Patterson, Assistant General Manager/Strategic Initiatives — Mr. Patterson was appointed Assistant General Manager in March 2006. He is responsible for overseeing water supply and planning issues, including the Colorado River and State Water Project. He previously served as a consultant to Metropolitan on Colorado River issues. Mr. Patterson was the director of the Nebraska Department of Natural Resources from 1999 to 2005 where he was responsible for water administration, water planning, flood-plain delineation, dam safety and the state databank. Prior to his work in Nebraska, Mr. Patterson spent 25 years with the Bureau of Reclamation, retiring from the Bureau as the Regional Director for the Mid-Pacific Region. He is a registered professional engineer in Nebraska and Colorado, and earned bachelor’s and master’s degrees in engineering from the University of Nebraska.

Gilbert F. Ivey, Assistant General Manager and Chief Administrative Officer — Mr. Ivey is the Chief Administrative Officer and is responsible for human resources, real property management, strategic land development and Metropolitan’s small business program. Mr. Ivey also administers the Office of the Board of Directors. Mr. Ivey has been with Metropolitan for 35 years, starting as a summer trainee in the Engineering Division. He has held various positions in Finance, Right-of-Way and Land, Operation, Human Resources and Executive Offices. He earned a bachelor’s degree in business administration from California State University, Dominquez Hills and holds various professional designations and certifications in management from Pepperdine University and the University of Southern California.

Linda Waade, Deputy General Manager — Ms. Waade is responsible for Metropolitan’s communications, outreach, education and legislative matters. Prior to joining Metropolitan in August 2006, she coordinated government and community affairs for the Los Angeles office of CH2M Hill, Inc., where she provided counsel on policy development and outreach strategies for environmental and public works projects. She also maintained her own consulting firm, Waade Partners Consulting. Ms. Waade was deputy chief of staff and policy director for then Los Angeles City Councilmember Antonio R. Villaraigosa from July 2003 to January 2004. She served as transportation policy advisor for Los Angeles Mayor Tom Bradley from 1991-93, as chief of staff for U.S. Congressman Mel Levine in his Los Angeles district office from 1988-89 and as the congressman’s special assistant for environmental affairs from 1987-88, and was executive director of the Coalition for Clean Air, a statewide advocacy organization dedicated to air quality issues, from 1994-98. Ms. Waade earned a bachelor’s degree in political science from California State University at Los Angeles. She is a past recipient of the “Environmental Leadership Award” from the California League of Conservation Voters.
Employee Relations

The total number of regular full-time Metropolitan employees on October 30, 2008 was 1,917, of whom 1,372 were represented by AFSCME Local 1902, 107 by the Supervisors Association, 291 by the Management and Professional Employees Association and 115 by the Association of Confidential Employees. The remaining 32 employees are unrepresented. The four bargaining units represent 98 percent of Metropolitan’s employees. The Memorandum of Understanding ("MOU") with AFSCME Local 1902 covers the period July 1, 2005 to June 30, 2009. The MOU with the Supervisors Association covers the period January 1, 2006 to December 31, 2009. The MOU with the Management and Professional Employees Association covers the period July 1, 2005 through June 30, 2009. The MOU with the Association of Confidential Employees covers the period July 1, 2003 through June 30, 2009.

In July 1998, a case entitled Dewayne Cargill et al. v. Metropolitan Water District of Southern California et al. was filed against Metropolitan. This case is a class action lawsuit brought by various categories of temporary workers against Metropolitan and certain temporary agencies, claiming that Metropolitan misclassified them as temporary workers to avoid providing them the same rights and benefits given to regular employees, and seeking the full benefits of public employment, including membership in the California Public Employees’ Retirement System (“PERS”) on a retroactive basis. (See “METROPOLITAN EXPENDITURES—Defined Benefit Pension Plan” in this APPENDIX A.)

The parties initially litigated the legal standard of eligibility for PERS benefits. PERS intervened in support of plaintiffs’ position that the common law standard of employment governs. On February 26, 2004, in a case of first impression, the California Supreme Court ruled that Metropolitan is required to enroll in PERS all temporary workers who would be considered Metropolitan employees under California common law. The Supreme Court did not decide whether plaintiffs are in fact common law employees of Metropolitan, whether plaintiffs (if they are determined to be Metropolitan employees for PERS purposes) are entitled to enrollment in PERS as of the dates they were first employed, whether plaintiffs are Metropolitan’s employees for any purpose other than PERS enrollment, or whether they are entitled to any benefits as employees under other provisions of law.

The legal issue heard by the California Supreme Court was limited to the standard of eligibility for PERS benefits and did not address plaintiffs’ claims for rights and benefits under Metropolitan’s Administrative Code. The parties have reached a court-approved settlement of the Administrative Code claim. Pursuant to the settlement, Metropolitan paid $35 million to a settlement fund. Half of this amount was allocated to operations and maintenance expenses and half to capital costs.

The remaining portion of the case concerns implementing the Supreme Court’s ruling establishing common law eligibility for PERS benefits. That effort involves enrolling eligible temporary workers, resolving eligibility disputes and addressing the potential penalties associated with late PERS enrollment. The parties agreed to address eligibility disputes by submitting test cases before administrative judges covering different categories of temporary worker services. Metropolitan received an adverse determination from PERS on the penalty issue. While Metropolitan continues to maintain that PERS should not apply any penalty provision, the parties

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have entered into a settlement agreement that fully resolves plaintiffs’ PERS claim (other than plaintiffs’ demand for attorney fees). The settlement provides for a claims process which Metropolitan estimates will result in approximately 2,000 claims for PERS benefits. The estimated potential liability is in the range of $15 to $40 million.

Risk Management

Metropolitan is exposed to various risks of loss related to the design, construction, treatment and delivery of water. With assistance of third party claims administrators, Metropolitan is self-insured for liability, property and workers’ compensation. Metropolitan self-insures the first $25 million per liability occurrence, with commercial liability coverage of $75 million in excess of the self-insured retention. The $25 million self-insured retention is maintained as a separate restricted reserve. Metropolitan is also self-insured for loss or damage to its property, with the $25 million self-insured retention also being accessible for emergency repairs and Metropolitan property losses. In addition, Metropolitan obtains other excess and specialty insurance coverages such as directors’ and officers’ liability, fiduciary liability and aircraft hull and liability coverage.

Metropolitan self-insures the first $5 million for workers’ compensation with excess coverage of $25 million. Metropolitan separately funds remaining workers’ compensation claims and general liability claims arising from the Diamond Valley Lake and early portions of the Inland Feeder construction projects, which were insured through Owner Controlled Insurance Programs ("OCIPs"). The OCIPs for those projects have been concluded. The costs to settle and close the remaining claims for the Diamond Valley Lake and Inland Feeder construction projects are estimated to be $1 million and $300,000, respectively.

The self-insurance retentions and reserve levels currently maintained by Metropolitan may be modified by Metropolitan’s Board at its sole discretion.

METROPOLITAN REVENUES

General

Until water deliveries began in 1941, Metropolitan’s activities were, by necessity, supported entirely through the collection of ad valorem property taxes. Since the mid-1980s, water sales revenues have provided approximately 75 to 80 percent of total revenues and ad valorem property taxes have accounted for about 10 percent of revenues, while the remaining revenues have been derived principally from the sale of hydroelectric power, interest on investments and additional revenue sources (water standby charges and availability of service charges) beginning in 1993. Ad valorem taxes do not constitute a part of Operating Revenues and are not available to make payments with respect to the water revenue bonds issued by Metropolitan. Ad valorem taxes are applied solely to the payment of principal and interest on Metropolitan’s outstanding general obligation bonds and a portion of State Water Contract payments.

The basic rate for untreated water for domestic and municipal uses increased from $8 per acre-foot in fiscal year 1941-42 to the rate of $412 per acre-foot for Tier 1 water, effective January 1, 2009. The ad valorem tax rate for Metropolitan purposes has gradually been reduced from a peak equivalent rate of 0.1250 percent of full assessed valuation in fiscal year 1945-46 to 0.0043 percent of full assessed valuation for fiscal year 2008-09. See "—Rate Structure" below. The rates charged

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by Metropolitan represent the wholesale cost of Metropolitan water to its member agencies, and not the cost of water to the ultimate consumer. Metropolitan does not exercise control over the rates charged by its member agencies or their subagencies to their customers.

Summary of Receipts by Source

The following table sets forth Metropolitan’s sources of receipts for the five fiscal years ended June 30, 2008. The table provides cash basis information, which is unaudited. Audited financial statements for the two fiscal years ended June 30, 2008 and June 30, 2007, respectively, are provided in Appendix B - “THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR’S REPORT AND FINANCIAL STATEMENTS FOR FISCAL YEARS ENDED JUNE 30, 2008 AND JUNE 30, 2007.”

SUMMARY OF RECEIPTS BY SOURCE(1)
Fiscal Years Ended June 30
(Dollars in Millions)

<table>
<thead>
<tr>
<th></th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Sales(2)</td>
<td>$843.2</td>
<td>$819.3</td>
<td>$826.7</td>
<td>$891.5</td>
<td>$967.8</td>
</tr>
<tr>
<td>Net Tax Collections(3)</td>
<td>95.9</td>
<td>98.3</td>
<td>97.8</td>
<td>101.1</td>
<td>100.4</td>
</tr>
<tr>
<td>Additional Revenue</td>
<td>99.9</td>
<td>112.9</td>
<td>111.4</td>
<td>113.1</td>
<td>114.0</td>
</tr>
<tr>
<td>Sources(4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interest on Investments</td>
<td>25.2</td>
<td>29.4</td>
<td>37.7</td>
<td>41.2</td>
<td>60.3</td>
</tr>
<tr>
<td>Hydroelectric Power Sales(5)</td>
<td>21.5</td>
<td>21.3</td>
<td>29.9</td>
<td>44.9</td>
<td>41.1</td>
</tr>
<tr>
<td>Other Collections and Trust Funds(6)</td>
<td>(33.0)</td>
<td>4.1</td>
<td>12.7</td>
<td>8.8</td>
<td>8.1</td>
</tr>
<tr>
<td>Total Receipts</td>
<td>$1,052.7</td>
<td>$1,085.3</td>
<td>$1,116.2</td>
<td>$1,200.6</td>
<td>$1,291.7</td>
</tr>
</tbody>
</table>

Source: Metropolitan.

(1) Does not include any proceeds from the sale of bonded indebtedness.
(2) Gross receipts in each year are for sales in the twelve months ended April 30 of such year.
(3) Ad valorem taxes levied by Metropolitan are applied solely to the payment of outstanding general obligation bonds of Metropolitan and a portion of State Water Contract payments.
(4) Includes receipts derived from water standby charges, readiness-to-serve, and connection maintenance or capacity charges. See “—Rate Structure” and “—Additional Revenue Components” below.
(5) Receipts from Colorado River Aqueduct (CRA) power sales are included in FY 2006, FY 2007 and FY 2008. CRA power receipts in prior years were reflected as a reduction in CRA power costs. See the table headed “SUMMARY OF EXPENDITURE” under “METROPOLITAN EXPENDITURES” in this Appendix A.
(6) Activity in 2004 reflects member agency refund payments.

Revenue Allocation Policy and Tax Revenues

The Board determines the water revenue requirement for each fiscal year after first projecting the ad valorem tax levy for that year. The tax levy for any year is subject to limits imposed by the Act and Board policy. Currently the tax levy is set to not exceed the amount needed to pay debt service on Metropolitan’s general obligation bonds and a portion of Metropolitan’s share of the debt service on the general obligation bonds issued by the State to finance the State Water Project. Any

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deficiency between tax levy receipts and Metropolitan’s share of debt service obligations on general obligation bonded debt issued by the State is expected to be paid from Operating Revenues, as defined in the Master Resolution. See “HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES.” The State Water Contract requires that in the event that Metropolitan fails or is unable to raise sufficient funds by other means, Metropolitan must levy upon all property within its boundaries not exempt from taxation a tax or assessment sufficient to provide for all payments under the State Water Contract.

**Water Sales Revenues**

**Authority.** Water rates are established by the Board and are not subject to regulation by the Public Utilities Commission of California or by any other local, State or federal agency. In accordance with the Act, water rates must be uniform for like classes of service. Metropolitan has three classes of water service: (1) full service; (2) replenishment (formerly seasonal storage); and (3) interim agricultural. See “—Classes of Water Service.”

No member agency of Metropolitan is currently obligated to purchase water from Metropolitan. Member agencies are entitled to enter into voluntary 10-year water supply purchase orders for water purchases. See “—Member Agency Purchase Orders” below.

**Payment Procedure.** Water is delivered to the member agencies on demand and is metered at the point of delivery. Member agencies are billed monthly and a late charge of one percent of the delinquent payment is assessed for delinquent payments not exceeding five business days. A late charge of two percent of the amount of the delinquent payment is charged for a payment that is delinquent for more than five business days for each month or portion of a month that the payment remains delinquent. Metropolitan has the authority to suspend service to any agency delinquent for more than 30 days. Delinquencies have been rare; in such instances late charges have been collected. No service has been suspended because of delinquencies.

**Water Sales.** The following table sets forth the acre-feet of water sold and water sales receipts for the five fiscal years ended June 30, 2008. The table provides cash basis information. Water sales revenues of Metropolitan for the two fiscal years ended June 30, 2008 and June 30, 2007, respectively, on an accrual basis, are shown in Appendix B - “THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR’S REPORT AND FINANCIAL STATEMENTS FOR FISCAL YEARS ENDED JUNE 30, 2008 AND JUNE 30, 2007” attached to this Official Statement.

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SUMMARY OF WATER SOLD AND WATER SALES RECEIPTS
Fiscal Years Ended June 30

<table>
<thead>
<tr>
<th>Year</th>
<th>Acre Feet Sold</th>
<th>Gross Receipts (in millions)</th>
<th>Average Receipts Per Acre Foot (2)</th>
<th>Average Rate Per 1000 Gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>2,288,741</td>
<td>$843.2</td>
<td>$368</td>
<td>$1.13</td>
</tr>
<tr>
<td>2005</td>
<td>2,214,399</td>
<td>819.3</td>
<td>370</td>
<td>1.14</td>
</tr>
<tr>
<td>2006</td>
<td>2,152,818</td>
<td>826.7</td>
<td>384</td>
<td>1.18</td>
</tr>
<tr>
<td>2007</td>
<td>2,247,214</td>
<td>891.5</td>
<td>397</td>
<td>1.22</td>
</tr>
<tr>
<td>2008</td>
<td>2,305,364</td>
<td>967.8</td>
<td>420</td>
<td>1.29</td>
</tr>
</tbody>
</table>

Source: Metropolitan.

(1) Gross receipts in each year are for sales in the twelve months ended April 30 of such year, with rates and charges invoiced in May and payable by the last business day of June of each year. Includes revenues from water wheeling. See “METROPOLITAN REVENUES—Wheeling Charges”.

(2) Amount is based upon acre-feet delivered by gross receipts. See table entitled “SUMMARY OF WATER RATES” in this Appendix A.

Rate Structure

The following rates and charges are elements of Metropolitan’s rate structure for full service water deliveries:

Tier 1 and Tier 2 Water Supply Rates. The Tier 1 and Tier 2 Water Supply Rates are designed to recover Metropolitan’s water supply costs. The Tier 2 Supply Rate is designed to reflect Metropolitan’s costs of acquiring new supplies. Member agencies are charged the Tier 1 or Tier 2 Water Supply Rate for water purchases, as described under “—Member Agency Purchase Orders” below.

System Access Rate. The System Access Rate is intended to recover a portion of the costs associated with the conveyance and distribution system, including capital, operating and maintenance costs. All users (including member agencies and third-party wheeling entities (see “—Wheeling Charges” below) of the Metropolitan system pay the System Access Rate.

Water Stewardship Rate. The Water Stewardship Rate is charged on a dollar per acre-foot basis to collect revenues to support Metropolitan’s financial commitment to conservation, water recycling, groundwater recovery and other water management programs approved by the Board. The Water Stewardship Rate is charged for every acre-foot of water conveyed by Metropolitan.

System Power Rate. The System Power Rate is charged on a dollar per acre-foot basis to recover the cost of power necessary to pump water from the State Water Project and Colorado River through the conveyance and distribution system for Metropolitan’s member agencies. The System Power Rate is charged for all Metropolitan supplies. Entities wheeling non-Metropolitan water supplies will pay the actual cost of power to convey water on the State Water Project, the Colorado River Aqueduct or the Metropolitan distribution system, whichever is applicable.

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Treatment Surcharge. Metropolitan charges a treatment surcharge on a dollar per acre-foot basis for treated deliveries. The treatment surcharge is set to recover the cost of providing treated water service, including capital and operating cost.

Water Supply Surcharge. Effective January 1, 2009, Metropolitan adopted the Water Supply Surcharge of $25 per acre-foot, applicable to Full Service Tier 1 untreated and treated water rates and to the Interim Agricultural Water Program untreated and treated water rates. This Water Supply Surcharge is intended to recover the costs of additional water transfers purchased to augment supplies from the State Water Project. These costs are anticipated to be about $50 million in fiscal year 2008-09.

The amount of each of these rates since January 1, 2005, is shown in the table entitled “SUMMARY OF WATER RATES” under “—Water Rates by Water Category” below.

Member Agency Purchase Orders

The current rate structure provides for a member agency’s agreement to purchase water from Metropolitan by means of a voluntary purchase order. Under each purchase order, a member agency agrees to purchase, over the ten-year term of the contract, an amount of water equal to at least 60 percent of its highest firm demand for Metropolitan water in any fiscal year from 1989-90 through 2001-02 multiplied by ten. Member agencies are allowed to vary their purchases from year to year, but a member agency will be obligated to pay for the full amount committed under the purchase order, even if it does not take its full purchase order commitment by the end of the ten-year period. In consideration of its purchase order, a member agency that executed a purchase order is entitled to purchase a greater amount of water at the lower Tier 1 Water Supply Rate, as described in the following paragraph. Metropolitan anticipates that all member agency commitments will be fulfilled.

Each member agency that executed a purchase order will be allowed to purchase up to 90 percent of its base amount at the Tier 1 Water Supply Rate in any fiscal year during the term of the purchase order, and its base amount will be the greater of (1) its highest firm demand for Metropolitan water in any fiscal year from 1989-90 through 2001-02 or (2) its ten-year rolling average of firm demand for Metropolitan water. Amounts purchased by such agencies over the applicable base amount will be priced at the Tier 2 Water Supply Rate. Member agencies that did not enter into purchase orders will be permitted in any fiscal year to purchase 60 percent of their base amount (equal to the member agency’s highest fiscal year demand between 1989-90 and 2001-02) at the Tier 1 Water Supply Rate. Twenty-four of Metropolitan’s 26 member agencies executed purchase orders for an aggregate of 12.5 million acre-feet of water over the ten years ending December 31, 2012. Metropolitan’s water sales for the five fiscal years from 2003-04 through 2007-08 ranged from 2.15 million acre-feet to 2.31 million acre-feet per year.

Classes of Water Service

Full Service Water. Full service water service, formerly known as non-interruptible water service, includes water sold for domestic and municipal uses. Full service treated water rates are the sum of the applicable supply rate, system access rate, water stewardship rate, system power rate and treatment surcharge. Full service untreated water rates are the sum of the applicable supply rate, system access rate, water stewardship rate and system power rate. Approximately 88 percent of

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Metropolitan's total water sales were sold as full service in fiscal year 2008. Full service water sales are expected to remain the major component of Metropolitan water sales in the future.

*Interim Agricultural Water Program.* This program provides a discounted rate for agricultural water users that, pursuant to the Act, are permitted to receive only surplus water not needed for domestic or municipal purposes. The maximum amount of agricultural water that Metropolitan may deliver on an annual basis under this program is 155,190 acre-feet. The terms of the program provide that, should a water shortage occur, Metropolitan may reduce deliveries of agricultural water under the program by 30 percent before imposing conservation measures on Full Service deliveries.

Metropolitan imposed the 30 percent reduction in agricultural water deliveries beginning January 1, 2008, to make this water (approximately 45,000 acre-feet) available to meet other demands. See “METROPOLITAN’S WATER SUPPLY—Five-Year Supply Plan” in this Appendix A. On October 14, 2008, the Board approved annual reductions of the Interim Agricultural Water Program discount beginning January 1, 2010, and discontinuance of the program when the discount reaches zero on January 1, 2013. Customers participating in the program may irrevocably opt out of the program at the beginning of each calendar year during the phase-out period and purchase water at Metropolitan’s full service rates.

*Replenishment.* Replenishment water is sold at a discounted rate to member agencies that store water and subsequently use the water to offset demands on Metropolitan in times of shortage. Metropolitan ceased deliveries under the Replenishment Program on May 1, 2007. Deliveries under the Replenishment Program are not expected to occur until water supply conditions improve. See “METROPOLITAN’S WATER SUPPLY—Five-Year Supply Plan” in this Appendix A.

*Water Rates by Water Category*

The following table sets forth Metropolitan’s water rates by category beginning January 1, 2005. See also “MANAGEMENT’S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES—Water Sales Receipts” in this Appendix A. In addition to the base rates for untreated water sold in the different classes of service, the columns labeled “Treated” include the surcharge that Metropolitan charges for water treated at its water treatment plants. See “—Rate Structure” and “—Classes of Water Service” above for a description of current rates.

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### SUMMARY OF WATER RATES

(Dollars per Acre-Foot)

<table>
<thead>
<tr>
<th></th>
<th>SUPPLY RATE</th>
<th>WATER STEWARDSHIP RATE</th>
<th>SYSTEM POWER RATE</th>
<th>TREATMENT SURCHARGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tier 1</td>
<td>Tier 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 1, 2005</td>
<td>$73</td>
<td>$152</td>
<td>$25</td>
<td>$81</td>
</tr>
<tr>
<td>January 1, 2006</td>
<td>$73</td>
<td>$169</td>
<td>$25</td>
<td>$81</td>
</tr>
<tr>
<td>January 1, 2007</td>
<td>$73</td>
<td>$169</td>
<td>$25</td>
<td>$90</td>
</tr>
<tr>
<td>January 1, 2008</td>
<td>$73</td>
<td>$171</td>
<td>$25</td>
<td>$110</td>
</tr>
<tr>
<td>January 1, 2009*</td>
<td>$134†</td>
<td>$250</td>
<td>$25</td>
<td>$110</td>
</tr>
</tbody>
</table>

|                          | FULL SERVICE TREATED  | FULL SERVICE TREATED  | INTERM AGRICULTURAL PROGRAM | REPLENISHMENT RATE |
|                          | Tier 1            | Tier 2                | Treated | Untreated | Treated | Untreated |
| January 1, 2005          | $443              | $524                  | $331    | $412      | $329    | $241      | $325    | $238    |
| January 1, 2006          | $453              | $549                  | $331    | $427      | $339    | $241      | $335    | $238    |
| January 1, 2007          | $478              | $574                  | $331    | $427      | $364    | $241      | $360†   | $238†   |
| January 1, 2008          | $508              | $606                  | $351    | $449      | $394    | $261      | $390    | $258    |
| January 1, 2009*         | $579              | $695                  | $412    | $528      | $465†   | $322†     | $436†   | $294†   |

* Rates to be effective January 1, 2009 were adopted by Metropolitan's Board on March 11, 2008.
† Includes $25 per acre-foot Water Supply Surcharges.

Full service treated water rates are the sum of the applicable supply rate, system access rate, water stewardship rate, system power rate and treatment surcharge.

Full service untreated water rates are the sum of the applicable supply rate, system access rate, water stewardship rate and system power rate.

### Additional Revenue Components

Additional charges for the availability of Metropolitan's water are:

*Readiness-to-Serve Charge.* This charge is designed to recover a portion of the principal and interest payments on water revenue bonds issued to fund capital improvements necessary to meet continuing reliability and water quality needs. The Readiness-to-Serve Charge ("RTS") is allocated to each member agency in proportion to the rolling ten-year share of deliveries through
Metropolitan’s system. The RTS generated approximately $80 million in the fiscal year ended June 30, 2007 and approximately $82 million in fiscal year 2007-2008.

Water Standby Charges. The Board is authorized to impose water standby or availability of service charges. In May 1993, the Board imposed a water standby charge for fiscal year 1993-94 ranging from $6.94 to $15 for each acre or parcel less than an acre within Metropolitan’s service area, subject to specified exempt categories. Water standby charges have been imposed at the same rate in each year since 1993-94. Standby charges are assessments under the terms of Proposition 218, a State constitutional ballot initiative approved by the voters on November 5, 1996. See “—Proposition 218” below.

Member agencies have the option to utilize Metropolitan’s existing standby charge authority as a means to collect all or a portion of their RTS charge. Standby charge collections are credited against the member agencies’ RTS charges. See “—Readiness-to-Serve Charge” above. Twenty-two member agencies collect their RTS charges through standby charges. For fiscal years 1997-98 through 2007-08, RTS charges collected by means of such standby charges accounted for approximately $42 million in revenues each year to Metropolitan.

Capacity Charge. The Capacity Charge is a fixed charge levied on the maximum summer day demand placed on Metropolitan’s system between May 1 and December 30 for the three-calendar-year period ended December 31, 2006. The Capacity Charge is intended to recover the cost of providing peak capacity within the distribution system. Effective January 1, 2009, the Capacity Charge is $6,800 per cfs of maximum daily flow.

Reserve Policy

Metropolitan’s reserve policy currently provides for a minimum unrestricted reserve balance at June 30 of each year that is based on probability studies of the wet periods that affect Metropolitan’s water sales. The policy establishes a minimum targeted unrestricted reserve level based on an 18-month revenue shortfall estimate and a maximum level based on an additional two years revenue shortfall estimate. As of June 30, 2008, the minimum reserve requirement was $209 million. The maximum reserve limit at June 30, 2008 was $479 million. Funds representing the minimum reserve level are held in the Water Revenue Remainder Fund, and any funds in excess of the minimum reserve level (up to the maximum reserve level) are held in the Water Rate Stabilization Fund. Fund balances in the Water Rate Stabilization Fund and the Water Revenue Remainder Fund at June 30, 2008 totaled $286 million. (See “THE MASTER RESOLUTION—Water Revenue Fund—Revenue Remainder Fund” in APPENDIX C—SUMMARY OF CERTAIN PROVISIONS OF THE RESOLUTIONS.) Unrestricted reserves in excess of the maximum reserve level may be used for any lawful purpose of Metropolitan, as directed by the Board. Consistent with State legislation, Metropolitan will ensure that any funds in excess of maximum reserve levels that are distributed to member agencies will be distributed in proportion to water sales revenues received from each member agency. Since actual reserve balances were less than the maximum reserve limit at June 30, 2008, no action was taken by the Board. In addition, Metropolitan maintains various restricted reserves, including reserves for risk retention, operations and maintenance expenses, State Water Contract payments, and other obligations and purposes.

Appendix A to Official Statement dated January 15, 2009
Wheeling and Exchange Charges

The process for the delivery of water not owned or controlled by Metropolitan is referred to as “wheeling.” Under the current rate structure, wheeling parties pay the System Access Rate and Water Stewardship Rate, Treatment Surcharge (if applicable) and power costs for wheeling transactions. Wheeling and exchange revenues totaled $20.2 million during fiscal year 2007-08, $13.1 million during fiscal year 2006-07, and $12.9 million during fiscal year 2005-06.

Hydroelectric Power Recovery Revenues

Metropolitan has constructed 16 small hydroelectric plants on its distribution system. The plants are located in Los Angeles, Orange, Riverside and San Diego Counties at existing pressure control structures and other locations. The combined generating capacity of these plants is approximately 122 megawatts. The total capital cost of these 16 facilities is approximately $176.1 million. Since 2000, annual energy generation sales revenues have ranged between $16 million and $27 million. For fiscal year 2006-07, these plants produced 513,267 megawatt-hours for total revenues of $25.6 million. For fiscal year 2007-08, these plants produced 404,930 megawatt-hours for total revenues of $24.7 million.

Power from five of the plants is sold to the Department of Water Resources under an existing contract at a price based on a contractual unit rate methodology to supply power to the State Water Project. This price is renegotiated every six years. For 2007 through 2012, the unit rate is determined by fixed and variable components. One variable component represents an incremental fuel price based on a five-year rolling average gas price.

Power from nine of the plants was sold to the Southern California Edison Company, a subsidiary of Edison International (“Edison”) through October 31, 2008. Three new contracts effective November 1, 2008, split power sales from the nine plants among Edison, Los Angeles Department of Water and Power and the Southern California Public Power Authority. All three contracts are for the sale of renewable power and are based on a fixed energy rate for the term of the contracts. The minimum contract term is five years and maximum term is fifteen years.

Energy generation from a fifteenth plant, the Etiwanda Power Plant, is sold to the Pacific Gas and Electric Company (“PG&E”) under a contract that was amended in November 2004 to accommodate terminating transmission and scheduling arrangements. The contract energy price is based on a formula that includes a monthly gas rate, a capital related cost and a performance factor. The contract is subject to renegotiation upon the occurrence of specified events and can be terminated by either party under various conditions and circumstances, beginning in 2014.

The sixteenth plant, the Diamond Valley Lake Hydroelectric Power Plant, began generating on May 23, 2001 and its current maximum dependable output is 21 megawatts. Actual generation is determined by water delivery requirements and is sold at market rates to various buyers.

Principal Customers

All of Metropolitan’s regular customers are member agencies. Total water sales to the member agencies accrued for the fiscal year ended June 30, 2008 were 2.2 million acre-feet,

Appendix A to Official Statement dated January 15, 2009
generating $958.3 million in water sales revenues for such period. Metropolitan’s ten largest water customers in the year ended June 30, 2008 are shown in the following table.

**TEN LARGEST WATER CUSTOMERS**  
**Year Ended June 30, 2008**  
**Accrual Basis (Dollars In Millions)**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Water Sales Revenues</th>
<th>Percent of Total</th>
<th>Water Sales in Acre-Feet</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Diego County Water Authority</td>
<td>$232,793,192</td>
<td>24.29%</td>
<td>553,481</td>
<td>25.43%</td>
</tr>
<tr>
<td>City of Los Angeles</td>
<td>172,434,774</td>
<td>17.99%</td>
<td>420,266</td>
<td>19.31%</td>
</tr>
<tr>
<td>MWD of Orange County</td>
<td>109,342,122</td>
<td>11.41%</td>
<td>229,763</td>
<td>10.56%</td>
</tr>
<tr>
<td>West Basin MWD</td>
<td>66,645,883</td>
<td>6.95%</td>
<td>135,456</td>
<td>6.22%</td>
</tr>
<tr>
<td>Calleguas MWD</td>
<td>64,587,620</td>
<td>6.74%</td>
<td>131,364</td>
<td>6.04%</td>
</tr>
<tr>
<td>Eastern MWD</td>
<td>52,492,593</td>
<td>5.48%</td>
<td>108,166</td>
<td>4.97%</td>
</tr>
<tr>
<td>Western MWD of Riverside</td>
<td>48,818,239</td>
<td>5.09%</td>
<td>106,398</td>
<td>4.89%</td>
</tr>
<tr>
<td>Three Valleys MWD</td>
<td>31,831,150</td>
<td>3.32%</td>
<td>72,829</td>
<td>3.35%</td>
</tr>
<tr>
<td>Central Basin MWD</td>
<td>28,773,387</td>
<td>3.00%</td>
<td>59,054</td>
<td>2.71%</td>
</tr>
<tr>
<td>Inland Empire Utilities Agency</td>
<td>24,001,998</td>
<td>2.50%</td>
<td>68,391</td>
<td>3.14%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$831,720,958</strong></td>
<td><strong>86.79%</strong></td>
<td><strong>1,885,166</strong></td>
<td><strong>86.62%</strong></td>
</tr>
</tbody>
</table>

**Total Revenue** $958,315,996  **Total Acre-Feet** 2,176,372

**Preferential Rights**

Section 135 of the Act provides a preferential entitlement for the purchase of water by each of Metropolitan’s member agencies. This preferential right is based upon a ratio of all payments on tax assessments and otherwise, except purchases of water, made to Metropolitan by each member agency compared to total payments made by all member agencies on tax assessments and otherwise since Metropolitan was formed, except purchases of water. Historically, these rights have not been used in allocating Metropolitan’s water. The California Court of Appeal has upheld Metropolitan’s methodology for calculation of the respective member agencies’ preferential rights under Section 135 of the Act.

**Proposition 218**

Proposition 218, a State ballot initiative known as the “Right to Vote on Taxes Act,” was approved by the voters on November 5, 1996 adding Articles XIIIIC and XIIIID to the California Constitution. Article XIIIID provides substantive and procedural requirements on the imposition, extension or increase of any “fee” or “charge” levied by a local government upon a parcel of real property or upon a person as an incident of property ownership. The procedures required under Article XIIIID, section 6, include a public hearing held not less than 45 days after mailed notice to property owners of the proposed fee or charge; if protests are filed by a majority of the owners the proposed fee or charge may not be imposed. New charges for services other than for sewer, water, and refuse collection services require voter approval. Property-related fees and charges are limited
to the amount required to provide the property-related service, may not exceed the proportional cost of providing the service attributable to the parcel being charged and may not be used for any other purpose. The California Supreme Court held that a fee for ongoing water service through an existing connection is imposed as an incident of property ownership in Bighorn-Desert View Water Agency v. Verfil in 2006. As a wholesaler, Metropolitan serves water to its member agencies, not to persons or properties as an incident of property ownership. Thus, Metropolitan's rates and charges are not property-related fees subject to Article XIIIID. Water rates charged by Metropolitan to its member agencies and many fees and charges imposed by member agencies are not property-related fees and charges and therefore are exempt from the requirements of Article XIIIID.

Article XIIIID also imposes certain procedures with respect to assessments. Under Article XIIIID, "standby charges" are considered "assessments" and must follow the procedures required for "assessments." Metropolitan has imposed water standby charges since 1992. Any change to Metropolitan's current standby charges could require notice to property owners and approval by a majority of such owners returning mail-in ballots approving or rejecting any imposition or increase of such standby charge. Twenty-two member agencies have elected to collect all or a portion of their readiness-to-serve charges through standby charges. (See "METROPOLITAN REVENUES—Additional Revenue Components—Readiness-to-Serve Charge" and "—Water Standby Charges.") Even if Article XIIIID is construed to limit the ability of Metropolitan and its member agencies to impose or collect standby charges, the member agencies will continue to be obligated to pay the readiness-to-serve charges.

Article XIIIC extends the people's initiative power to reduce or repeal previously authorized local taxes, assessments fees and charges. This extension of the initiative power to fees and charges was confirmed by the California Supreme Court in its decision in Bighorn-Desert View Water Agency v. Verfil. This extension of the initiative power is not limited by the terms of Article XIIIC to fees imposed after November 6, 1996 or to property-related fees and charges and absent other authority could result in retroactive reduction in any existing taxes, assessments or fees and charges.

Proposition 218 was adopted as a measure that qualified for the ballot pursuant to the State's initiative process. From time to time, other initiative measures could be adopted or legislative measures could be approved by the Legislature, which may place limitations on the ability of Metropolitan or its member agencies to increase revenues or to increase appropriations. Such measures may further affect Metropolitan's ability to collect taxes, assessments or fees and charges, which could have an effect on Metropolitan's revenues.

Investment of Moneys in Funds and Accounts

All moneys in any of the funds and accounts established pursuant to Metropolitan's water revenue or general obligation revenue bond resolutions are invested by the Treasurer in accordance with Metropolitan's Statement of Investment Policy. All Metropolitan funds available for investment are currently invested in United States Treasury and agency securities, commercial paper, negotiable certificates of deposit, bankers acceptances, corporate notes, municipal bonds and asset-backed securities. The Statement of Investment Policy provides that in managing Metropolitan's investments, the primary objective shall be to safeguard the principal of the invested funds. The secondary objective shall be to meet all liquidity requirements and the third objective shall be to achieve a return on the invested funds. Although the Statement of Investment Policy permits

Appendix A to Official Statement dated January 15, 2009
investments in some asset-backed securities, the portfolio does not include any of the special investment vehicles related to sub-prime mortgages.

As of November 30, 2008, the total market value of all Metropolitan funds was $863 million. In fiscal year 2007-08, Metropolitan’s earnings on investments, including adjustments for gains and losses and premiums and discounts, on a cash basis (unaudited) were $60.3 million, including construction account and trust fund earnings. (See Footnote 3 to Metropolitan’s audited financial statements in Appendix B for additional information on the investment portfolio.)

Metropolitan currently holds corporate notes or bonds issued by Lehman Brothers Holdings, Inc. ("Lehman"), International Lease Finance Corporation and American General Finance that have recently experienced credit rating downgrades or bankruptcy. The book value of the downgraded corporate bonds total approximately $7.1 million. The market price for these bonds continues to be under pressure, and Metropolitan is closely monitoring market developments. The decrease in the market value for these bonds has not materially impacted the financial operations of Metropolitan. Metropolitan filed its claim for the payment of the corporate notes issued by Lehman with the United States Bankruptcy Court for the Southern District of New York on October 27, 2008. The amount of the claim, representing principal and interest on the notes, is $5,380,267.

Metropolitan’s regulations require that (1) the Treasurer provide an annual Statement of Investment Policy for approval by Metropolitan’s Board, (2) the Treasurer provide a monthly investment report to the Board and the General Manager showing by fund the description, maturity date, yield, par, cost and current market value of each security, and (3) the General Counsel review as to eligibility the securities invested in by the Treasurer for that month and report his or her determinations to the Board.

Subject to the provisions of Metropolitan’s water revenue or general obligation bond resolutions, obligations purchased by the investment of bond proceeds in the various funds and accounts established pursuant to a bond resolution are deemed at all times to be a part of such funds and accounts and any income realized from investment of amounts on deposit in any fund or account therein will be credited to such fund or account. The Treasurer is required to sell or present for redemption any investments whenever it may be necessary to do so in order to provide moneys to meet required payments or transfers from such funds and accounts. For the purpose of determining at any given time the balance in any such funds, any such investments constituting a part of such funds and accounts will be valued at the then estimated or appraised market value of such investments.

All investments, including those authorized by law from time to time for investments by public agencies, contain certain risks. Such risks include, but are not limited to, a lower rate of return than expected and loss or delayed receipt of principal. The occurrence of these events with respect to amounts held under Metropolitan’s water revenue or general obligation revenue bond resolutions, or other amounts held by Metropolitan, could have a material adverse effect on Metropolitan’s finances. These risks may be mitigated, but are not eliminated, by limitations imposed on the portfolio management process by Metropolitan’s Statement of Investment Policy.

The Statement of Investment Policy requires that investments have a minimum credit rating of A1/P1/F1 for short-term securities and A for longer-term securities at the time of purchase. The

Appendix A to Official Statement dated January 15, 2009
Board amended the Statement of Investment Policy on October 14, 2008, to provide that, if immediate liquidation of a security is not in the best interests of Metropolitan, the Treasurer or investment manager, in consultation with an ad hoc committee made up of the Chairman of the Board, the Chairman of the Business and Finance Committee and the General Manager, and with the concurrence of the General Counsel, may dispose of the security in an orderly and prudent manner considering the circumstances, under terms and conditions approved by a majority of the members of such ad hoc committee. The Treasurer is required to include a description of any securities that have been downgraded below investment grade and the status of their disposition in the Treasurer’s monthly report.

The Statement of Investment Policy limits the amount of securities that can be purchased by category, as well as by issuer, and prohibits investments that can result in zero interest income. Metropolitan’s securities are settled on a delivery versus cash basis and are held by an independent third-party custodian. See Metropolitan’s audited financial statements attached to the Official Statement as Appendix B for a description of Metropolitan’s investments at June 30, 2008.

Metropolitan currently retains two outside investment firms to manage the long-term portion of Metropolitan’s portfolio. The outside managers are required to adhere to Metropolitan’s Statement of Investment Policy. Currently, such managers are managing approximately $250 million in investments on behalf of Metropolitan. Metropolitan’s Statement of Investment Policy may be changed at any time by the Board (subject to State law provisions relating to authorized investments). There can be no assurance that the State law and/or the Statement of Investment Policy will not be amended in the future to allow for investments that are currently not permitted under State law or the Statement of Investment Policy, or that the objectives of Metropolitan with respect to investments or its investment holdings at any point in time will not change.

**METROPOLITAN EXPENDITURES**

The following table sets forth a summary of Metropolitan’s expenditures, by major function, for the five years ended June 30, 2008. The table provides cash basis information, which is unaudited. Expenses of Metropolitan for the two fiscal years ended June 30, 2008 and June 30, 2007, on an accrual basis, are shown in Appendix B - “THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR’S REPORT AND FINANCIAL STATEMENTS FOR FISCAL YEARS ENDED JUNE 30, 2008 AND JUNE 30, 2007.”
### SUMMARY OF EXPENDITURES
Fiscal Years Ended June 30
(Dollars in Millions)

<table>
<thead>
<tr>
<th></th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation and Maintenance Costs(1)</td>
<td>$297.7</td>
<td>$314.4</td>
<td>$379.0</td>
<td>$367.2</td>
<td>$416.9</td>
</tr>
<tr>
<td>Total State Water Project and Water Transfers(3)</td>
<td>429.6</td>
<td>433.3</td>
<td>508.2</td>
<td>408.5</td>
<td>564.9</td>
</tr>
<tr>
<td>Total Debt Service</td>
<td>207.1</td>
<td>212.5</td>
<td>229.6</td>
<td>249.9</td>
<td>268.5</td>
</tr>
<tr>
<td>Construction Disbursements from Revenues(4)</td>
<td>119.5</td>
<td>95.5</td>
<td>90.4</td>
<td>129.7</td>
<td>45.4</td>
</tr>
<tr>
<td>Other(4)</td>
<td>4.4</td>
<td>5.3</td>
<td>7.3</td>
<td>6.1</td>
<td>6.4</td>
</tr>
<tr>
<td><strong>Total Disbursements – Net of Reimbursements</strong></td>
<td><strong>$1,058.3</strong></td>
<td><strong>$1,061.0</strong></td>
<td><strong>$1,214.5</strong></td>
<td><strong>$1,161.4</strong></td>
<td><strong>$1,302.1</strong></td>
</tr>
</tbody>
</table>

Source: Metropolitan.

(1) Includes inventories, undistributed payroll, local resource, conservation programs and Colorado River Aqueduct (CRA) power, net of CRA power sales receipts from 2004-2005. CRA power sales receipts are not funded as an offset to CRA power in 2006-2008. See the table headed “Summary of Receipts by Source” under “METROPOLITAN REVENUES” in this Appendix A.

(2) Includes both operating and capital expense portions. The decrease in 2007 reflects lower State Water Project power costs and increases in State Water Project power credits.

(3) At the discretion of the Board, in any given year, Metropolitan may increase or decrease funding available for construction disbursements to be paid from revenues. In fiscal year 2008, disbursements decreased to $45.4 million primarily due to the Board's intent to maintain adequate reserve levels in the rate stabilization funds to mitigate future increases in water rates and charges.

(4) Includes operating equipment and arbitrage rebate.

### Revenue Bond Indebtedness

Metropolitan has issued the following water revenue bonds, which as of January 1, 2009, were outstanding in the amounts set forth below:

---

Appendix A to Official Statement dated January 15, 2009
<table>
<thead>
<tr>
<th>Name of Issue</th>
<th>Original Amount Issued</th>
<th>Principal Outstanding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Revenue Bonds, Issue of 1991</td>
<td>$300,000,000</td>
<td>$-0-</td>
</tr>
<tr>
<td>Water Revenue Bonds, Issue of 1992</td>
<td>550,000,000</td>
<td>17,635,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 1993 Series A</td>
<td>168,759,889</td>
<td>105,185,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 1993 Series B</td>
<td>89,595,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Bonds, 1995 Series A</td>
<td>175,000,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 1996 Series A</td>
<td>108,375,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 1996 Series B</td>
<td>258,875,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Bonds, 1996 Series C</td>
<td>377,500,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Bonds, 1997 Authorization, Series A</td>
<td>650,000,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Bonds, 1998 Authorization, Series A</td>
<td>50,000,000</td>
<td>50,000,000</td>
</tr>
<tr>
<td>Water Revenue Bonds, 1999 Authorization, Series A</td>
<td>50,000,000</td>
<td>50,000,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 1999 Series A</td>
<td>148,705,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Bonds, 2001 Series A</td>
<td>100,000,000</td>
<td>2,205,000</td>
</tr>
<tr>
<td>Water Revenue Bonds, 2001 Series B</td>
<td>50,000,000</td>
<td>50,000,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2001 Series B</td>
<td>50,000,000</td>
<td>50,000,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2001 Series B1</td>
<td>355,200,000</td>
<td>355,200,000</td>
</tr>
<tr>
<td>Water Revenue Bonds, 2001 Series B2</td>
<td>195,670,000</td>
<td>146,100,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2001 Series B1</td>
<td>112,400,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2001 Series B2</td>
<td>112,400,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2001 Series B1</td>
<td>200,000,000</td>
<td>200,000,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2001 Series B2</td>
<td>96,640,000</td>
<td>89,045,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2002 Series B1</td>
<td>35,600,000</td>
<td>34,800,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2003 Series A</td>
<td>36,215,000</td>
<td>28,360,000</td>
</tr>
<tr>
<td>Water Revenue Bonds, 2003 Authorization, Series B-1 and B-2</td>
<td>200,000,000</td>
<td>200,000,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2003 Series C-1, C-2 and C-3</td>
<td>338,230,000</td>
<td>332,955,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2004 Series A-1 and A-2</td>
<td>162,455,000</td>
<td>158,930,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2004 Series B</td>
<td>274,415,000</td>
<td>255,095,000</td>
</tr>
<tr>
<td>Water Revenue Bonds, 2003 Authorization, Series B-3 and B-4</td>
<td>300,000,000</td>
<td>273,815,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2004 Series C-1, C-2 and C-3</td>
<td>130,090,000</td>
<td>133,450,000</td>
</tr>
<tr>
<td>Water Revenue Bonds, 2005 Authorization, Series A</td>
<td>100,000,000</td>
<td>100,000,000</td>
</tr>
<tr>
<td>Water Revenue Bonds, 2005 Authorization, Series A-1 and A-2</td>
<td>100,000,000</td>
<td>100,000,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2006 Series A-1 and A-2</td>
<td>74,140,000</td>
<td>74,025,000</td>
</tr>
<tr>
<td>Water Revenue Bonds, 2006 Authorization, Series C</td>
<td>200,000,000</td>
<td>194,115,000</td>
</tr>
<tr>
<td>Water Revenue Bonds, 2006 Authorization, Series D-1 and D-2</td>
<td>100,000,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2006 Series B</td>
<td>45,875,000</td>
<td>45,875,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2006 Series B</td>
<td>400,000,000</td>
<td>400,000,000</td>
</tr>
<tr>
<td>Water Revenue Bonds, 2006 Authorization, Series A-1 and A-2</td>
<td>100,000,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2007 Series A-1 and A-2</td>
<td>218,425,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2007 Series B-1 and B-2</td>
<td>81,900,000</td>
<td>-0-</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2008 Series A-1</td>
<td>250,940,000</td>
<td>250,940,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2008 Series A-2</td>
<td>250,635,000</td>
<td>250,035,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2008 Series C</td>
<td>133,430,000</td>
<td>133,430,000</td>
</tr>
<tr>
<td>Water Revenue Refunding Bonds, 2008 Series B</td>
<td>79,045,000</td>
<td>79,045,000</td>
</tr>
<tr>
<td>Total</td>
<td>$7,816,514,889</td>
<td>$4,160,240,000</td>
</tr>
</tbody>
</table>

Source: Metropolitan.

(1) Variable rate obligation.

(2) Metropolitan maintains interest rate swap agreements that correspond to these variable rate obligations. See "—Variable Rate and Swap Obligations" below.

(3) Auction rate securities. No auction rate securities were integrated with any interest rate swap agreements and none remain outstanding.

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Appendix A to Official Statement dated January 15, 2009
Limitations on Additional Revenue Bonds

Resolution 8329, adopted by Metropolitan's Board on July 9, 1991, as amended and supplemented (collectively with all such supplemental resolutions, the "Revenue Bond Resolutions") provide for the issuance of Metropolitan's water revenue bonds. The Revenue Bond Resolutions establish limitations on the issuance of additional obligations payable from Net Operating Revenues. Under the Revenue Bond Resolutions, no additional bonds, notes or other evidences of indebtedness payable out of Operating Revenues may be issued having any priority in payment of principal, redemption premium, if any, or interest over any water revenue bonds or Parity Obligations. No additional Parity Bonds or Parity Obligations may be issued or incurred unless the conditions of the Revenue Bond Resolutions have been satisfied.

The laws governing Metropolitan's ability to issue water revenue bonds currently provide two additional limitations on indebtedness that may be incurred by Metropolitan. The Act provides for a limit on general obligation bonds, water revenue bonds and other evidences of indebtedness at 15 percent of the assessed value of all taxable property within Metropolitan's service area. As of January 1, 2009, outstanding general obligation bonds, water revenue bonds and other evidences of indebtedness in the amount of $4.52 billion represented approximately 0.21 percent of the fiscal year 2008-2009 taxable assessed valuation of $2,120.9 billion. The second limitation under the Act specifies that no revenue bonds may be issued, except for the purpose of refunding, unless the amount of net assets of Metropolitan as shown on its balance sheet as of the end of the last fiscal year prior to the issuance of such bonds, equals at least 100 percent of the aggregate amount of revenue bonds outstanding following the issuance of such bonds. The net assets of Metropolitan as of June 30, 2008 were approximately $5.9 billion. The aggregate amount of revenue bonds outstanding as of January 1, 2009 was $4.16 billion. The limitation does not apply to other forms of financing available to Metropolitan. Audited financial statements including the net assets of Metropolitan as of June 30, 2008 and June 30, 2007, respectively, are shown in Appendix B – "THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR'S REPORT AND FINANCIAL STATEMENTS FOR FISCAL YEARS ENDED JUNE 30, 2008 AND JUNE 30, 2007." Metropolitan provides no assurance that the Act's limitations on indebtedness will not be revised or removed by future legislation. Limitations under the Revenue Bond Resolutions respecting the issuance of additional obligations payable from Net Operating Revenues on a parity with water revenue bonds of Metropolitan will remain in effect so long as any water revenue bonds authorized pursuant to the Revenue Bond Resolutions are outstanding, provided however, that the Revenue Bond Resolutions are subject to amendment and supplement in accordance with their terms.

Variable Rate and Swap Obligations

As of January 1, 2009, Metropolitan had outstanding $2.18 billion of variable rate demand obligations. The interest rates for Metropolitan's variable rate demand obligations are reset on a daily or weekly basis. Metropolitan's variable rate demand obligations are supported by Standby Bond Purchase Agreements between Metropolitan and various liquidity providers. The following table sets forth a listing of the liquidity providers, the expiration date of each facility and the principal amount of outstanding bonds covered under each facility.
<table>
<thead>
<tr>
<th>Liquidity Provider</th>
<th>Bond Issue</th>
<th>Principal Outstanding</th>
<th>Facility Expiration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dexia Credit Local</td>
<td>2003 Series C-1</td>
<td>$110,985,000</td>
<td>June 2009</td>
</tr>
<tr>
<td></td>
<td>2003 Series C-2</td>
<td>110,985,000</td>
<td>June 2009</td>
</tr>
<tr>
<td></td>
<td>2003 Series C-3</td>
<td>110,985,000</td>
<td>June 2009</td>
</tr>
<tr>
<td></td>
<td>2004 Series C</td>
<td>133,450,000</td>
<td>June 2010</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$466,405,000</td>
<td></td>
</tr>
<tr>
<td>Landesbank Baden-Wurttemberg (LBBW)</td>
<td>2002 Series A</td>
<td>$89,045,000</td>
<td>December 2015 (1)</td>
</tr>
<tr>
<td></td>
<td>2008 Series A-2</td>
<td>250,035,000</td>
<td>March 2011</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$339,080,000</td>
<td></td>
</tr>
<tr>
<td>Bank of America, N.A.</td>
<td>1999 Series B</td>
<td>$50,000,000</td>
<td>May 2012</td>
</tr>
<tr>
<td></td>
<td>2008 Series A-1</td>
<td>250,940,000</td>
<td>March 2011</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$300,940,000</td>
<td></td>
</tr>
<tr>
<td>Lloyds TSB Bank</td>
<td>2001 Series C-1</td>
<td>$100,000,000</td>
<td>December 2011</td>
</tr>
<tr>
<td></td>
<td>2001 Series C-2</td>
<td>100,000,000</td>
<td>December 2011</td>
</tr>
<tr>
<td></td>
<td>2002 Series B</td>
<td>34,800,000</td>
<td>December 2009</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$234,800,000</td>
<td></td>
</tr>
<tr>
<td>JP Morgan Chase Bank</td>
<td>1999 Series C</td>
<td>$50,000,000</td>
<td>May 2012</td>
</tr>
<tr>
<td></td>
<td>2004 Series A-1</td>
<td>79,465,000</td>
<td>July 2010</td>
</tr>
<tr>
<td></td>
<td>2004 Series A-2</td>
<td>79,465,000</td>
<td>July 2010</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$208,930,000</td>
<td></td>
</tr>
<tr>
<td>BNP Paribas</td>
<td>2000 Series B-3</td>
<td>$88,800,000</td>
<td>August 2011</td>
</tr>
<tr>
<td></td>
<td>2000 Series B-4</td>
<td>88,800,000</td>
<td>August 2011</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$177,600,000</td>
<td></td>
</tr>
<tr>
<td>Banco Bilbao Vizcaya Argentería, S.A. (BBVA)</td>
<td>2000 Series B-2</td>
<td>$88,800,000</td>
<td>July 2013</td>
</tr>
<tr>
<td></td>
<td>2006 Series A-1</td>
<td>37,010,000</td>
<td>May 2013</td>
</tr>
<tr>
<td></td>
<td>2006 Series A-2</td>
<td>37,015,000</td>
<td>May 2013</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$162,825,000</td>
<td></td>
</tr>
<tr>
<td>Landesbank Hessen-Thüringen Girozentrale (Helaba)</td>
<td>1997 Series B</td>
<td>$50,000,000</td>
<td>December 2015 (2)</td>
</tr>
<tr>
<td></td>
<td>1997 Series C</td>
<td>50,000,000</td>
<td>December 2015 (2)</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$100,000,000</td>
<td></td>
</tr>
<tr>
<td>Citibank, N.A.</td>
<td>2005 Series B-1</td>
<td>$50,000,000</td>
<td>July 2010</td>
</tr>
<tr>
<td></td>
<td>2005 Series B-2</td>
<td>50,000,000</td>
<td>July 2010</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$100,000,000</td>
<td></td>
</tr>
<tr>
<td>WestLB AG</td>
<td>2000 Series B-1</td>
<td>$88,800,000</td>
<td>December 2015 (3)</td>
</tr>
</tbody>
</table>

Source: Metropolitan.

(1) Facility may be terminated at the option of the liquidity provider on August 2009, February 2012, and August 2014.
(2) Facility may be terminated at the option of the liquidity provider on September 2009 and March 2012.
(3) Facility may be terminated at the option of the liquidity provider on July 2009, July 2011, and July 2013.

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Appendix A to Official Statement dated January 15, 2009
None of Metropolitan’s outstanding variable rate demand obligations are insured. In July 2008, Metropolitan refunded the outstanding Water Revenue Refunding Bonds, 1996 Series A (the “1996 Series A Bonds”), which were insured by Ambac Assurance Corporation, through the issuance of $79,045,000 Water Revenue Refunding Bonds, 2008 Series C. Proceeds of these refunding bonds also funded the termination payment for the interest rate swap with AIG Products Corp. that corresponded to interest on the 1996 Series A Bonds. The swap was terminated as of July 10, 2008.

Included in Metropolitan’s $2.18 billion of variable rate demand obligations are $1.16 billion of variable rate demand obligations which, by virtue of interest rate swap agreements, are treated by Metropolitan as fixed rate debt. The variable rate demand obligations treated by Metropolitan as fixed rate debt consist of $1.04 billion of variable rate demand obligations with corresponding interest rate swap agreements, which are identified on the table under the heading, “—Revenue Bond Indebtedness”, and $117.1 million of obligations whose rates are fixed pursuant to the terms and conditions of the 2005 Fixed Payor Swaps (listed on the table headed “Fixed Payor Swaps” below), which are not identified with specific variable rate demand obligations. The remaining $1.02 billion variable rate demand obligations represent approximately 24 percent of total outstanding water revenue bonds. In March 2008, primarily due to the credit downgrades of certain municipal bond insurers and the impact of the liquidity crisis on auction rate securities, Metropolitan refunded $500.3 million of auction rate securities with variable rate demand obligations. Subsequent to such refunding, Metropolitan has no auction rate securities outstanding. Metropolitan had no auction rate securities integrated with interest rate swap agreements.

In September 2004 the Board revised the variable rate exposure policy to require that variable rate debt be managed to limit net interest cost increases within a fiscal year as a result of interest rate changes to no more than $5 million. In addition, the maximum amount of variable interest rate exposure (excluding variable rate bonds associated with interest rate swap agreements) was limited to 40 percent of total outstanding water revenue bond debt. Variable rate debt capacity will be reevaluated as interest rates change and managed within these parameters.

By resolution adopted on September 11, 2001, Metropolitan’s Board authorized the execution of interest rate swap transactions and related agreements in accordance with a master swap policy. Metropolitan may execute interest rate swaps if the transaction can be expected to reduce exposure to changes in interest rates on a particular financial transaction or in the management of interest rate risk derived from Metropolitan’s overall asset/liability balance, result in a lower net cost of borrowing or achieve a higher net rate of return on investments made in connection with or incidental to the issuance, incurring or carrying of Metropolitan’s obligations or investments, or manage variable interest rate exposure consistent with prudent debt practices and Board-approved guidelines. The Chief Financial Officer reports to the Business and Finance Committee of Metropolitan’s Board each month on outstanding swap transactions, including notional amounts outstanding, counterparty exposures and termination values based on then-existing market conditions.

Metropolitan has entered into three types of interest rate swaps. Under the first type, Metropolitan receives payments that are calculated by reference to a floating interest rate and makes payments that are calculated by reference to a fixed interest rate. These swaps are referred to in the table below as “Fixed Payor Swaps.” Under the second type, referred to as “Fixed Receiver Swaps,”

Appendix A to Official Statement dated January 15, 2009
Metropolitan receives payments that are calculated by reference to a fixed interest rate and makes payments that are calculated by reference to a floating interest rate. Metropolitan’s Fixed Receiver Swaps in the aggregate amount of $200 million matured on March 11, 2007. These transactions are no longer in effect and all rights and obligations of each party have been satisfied. Under the third type, referred to in the table below as “Basis Swaps,” Metropolitan receives payments calculated by reference to a percentage of the taxable index, LIBOR. In return, Metropolitan makes payments that are calculated based on either a tax-exempt short-term interest rate index, SIFMA, or the taxable short-term index, one-month LIBOR.

Net payments under the terms of the interest rate swap agreements are payable on a parity with the Parity Obligations. Termination payments under the interest rate swap agreements related to the Water Revenue Refunding Bonds, 2001 Series B, the Water Revenue Refunding Bonds, 2002 Series A and the Water Revenue Refunding Bonds, 2002 Series B would be payable on a parity with the Parity Obligations. All other termination payments related to interest rate swap agreements would be subordinate to the Parity Obligations.

The following swap transactions were outstanding as of January 1, 2009:

Appendix A to Official Statement dated January 15, 2009
### FIXED PAYOR SWAPS:

<table>
<thead>
<tr>
<th>Designation</th>
<th>Notional Amount Outstanding</th>
<th>Swap Counterparty</th>
<th>Fixed Payor Rate</th>
<th>MWD Receives</th>
<th>Maturity Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001 B</td>
<td>$110,400,000</td>
<td>Bear Stearns Financial Products Inc.(^{(1)})</td>
<td>4.219%</td>
<td>SIFMA-35 bps</td>
<td>7/1/2020</td>
</tr>
<tr>
<td>2001 B</td>
<td>110,400,000</td>
<td>UBS AG</td>
<td>4.219</td>
<td>SIFMA-35 bps</td>
<td>7/1/2020</td>
</tr>
<tr>
<td>2002 A</td>
<td>90,127,400</td>
<td>Morgan Stanley Capital Services, Inc.</td>
<td>3.300</td>
<td>57.74% of one-month LIBOR</td>
<td>7/1/2025</td>
</tr>
<tr>
<td>2002 B</td>
<td>33,717,600</td>
<td>Bear Stearns Financial Products Inc.(^{(1)})</td>
<td>3.300</td>
<td>57.74% of one-month LIBOR</td>
<td>7/1/2025</td>
</tr>
<tr>
<td>2003 C</td>
<td>166,477,500</td>
<td>UBS AG</td>
<td>3.257</td>
<td>61.20% of one-month LIBOR</td>
<td>7/1/2030</td>
</tr>
<tr>
<td>2003 C</td>
<td>166,477,500</td>
<td>JPMorgan Chase Bank</td>
<td>3.257</td>
<td>61.20% of one-month LIBOR</td>
<td>7/1/2030</td>
</tr>
<tr>
<td>2004 A</td>
<td>158,930,000</td>
<td>Morgan Stanley Capital Services, Inc.</td>
<td>2.917</td>
<td>61.20% of one-month LIBOR</td>
<td>7/1/2023</td>
</tr>
<tr>
<td>2004 C</td>
<td>73,397,500</td>
<td>Morgan Stanley Capital Services, Inc.</td>
<td>2.980</td>
<td>61.55% of one-month LIBOR</td>
<td>10/1/2029</td>
</tr>
<tr>
<td>2004 C</td>
<td>60,052,500</td>
<td>Citigroup Financial Products, Inc.</td>
<td>2.980</td>
<td>61.55% of one-month LIBOR</td>
<td>10/1/2029</td>
</tr>
<tr>
<td>2005(^{(2)})</td>
<td>58,547,500</td>
<td>JPMorgan Chase Bank</td>
<td>3.360</td>
<td>70% of 3-month LIBOR</td>
<td>7/1/2030</td>
</tr>
<tr>
<td>2005(^{(2)})</td>
<td>58,547,500</td>
<td>Citigroup Financial Products, Inc.</td>
<td>3.360</td>
<td>70% of 3-month LIBOR</td>
<td>7/1/2030</td>
</tr>
<tr>
<td>2006</td>
<td>31,120,000</td>
<td>UBS AG</td>
<td>3.210</td>
<td>63% of 3-month LIBOR</td>
<td>7/1/2021</td>
</tr>
<tr>
<td>2006</td>
<td>31,120,000</td>
<td>JPMorgan Chase Bank</td>
<td>3.210</td>
<td>63% of 3-month LIBOR</td>
<td>7/1/2021</td>
</tr>
<tr>
<td>2006</td>
<td>6,027,500</td>
<td>UBS AG</td>
<td>2.911</td>
<td>63% of 3-month LIBOR</td>
<td>7/1/2012</td>
</tr>
<tr>
<td>2006</td>
<td>6,027,500</td>
<td>JPMorgan Chase Bank</td>
<td>2.911</td>
<td>63% of 3-month LIBOR</td>
<td>7/1/2012</td>
</tr>
</tbody>
</table>

Total $1,161,370,000

---

**Source:** Metropolitan.

\(^{(1)}\) Guaranteed by JPMorgan Chase & Co., effective March 16, 2008.

\(^{(2)}\) Interest rate swap agreement is not identified with specific variable rate demand obligations.
**Basis Swaps:**

<table>
<thead>
<tr>
<th>Swap Year</th>
<th>Notional Amount Outstanding</th>
<th>Swap Counterparty</th>
<th>Met Receives</th>
<th>Met Pays</th>
<th>Maturity Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>$125,000,000</td>
<td>Bear Stearns Financial Products Inc. (1)</td>
<td>70% of one-month LIBOR + 31.5 bp</td>
<td>SIFMA</td>
<td>7/1/2014</td>
</tr>
<tr>
<td>2004</td>
<td>125,000,000</td>
<td>JP Morgan Chase Bank</td>
<td>70% of one-month LIBOR + 31.5 bp</td>
<td>SIFMA</td>
<td>7/1/2014</td>
</tr>
<tr>
<td>Total</td>
<td>$250,000,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


These interest rate swap agreements entail risk to Metropolitan. The counterparty may fail or be unable to perform, interest rates may vary from assumptions and Metropolitan may be required to make significant payments in the event of an early termination of an interest rate swap. Metropolitan believes that if such an event were to occur, it would not have a material adverse impact on its financial position. Metropolitan manages counterparty risk by diversifying its swap counterparties, limiting exposure to any one counterparty, requiring collateralization or other credit enhancement to secure swap payment obligations, and by requiring minimum credit rating levels. Initially swap counterparties must be rated at least “Aa3” or “AA-”, or equivalent by any two of the nationally recognized credit rating agencies; or use a “AAA” subsidiary as rated by at least one nationally recognized credit rating agency. Each counterparty is initially required to have minimum capitalization of at least $150 million. See Note 5(f) in Appendix B - “THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR’S REPORT AND FINANCIAL STATEMENTS FOR FISCAL YEARS ENDED JUNE 30, 2008 AND JUNE 30, 2007.”

**Other Revenue Obligations**

Metropolitan received a $20 million State Revolving Fund Loan, dated as of February 1, 2000, from the California State Water Resources Control Board, for Phase 1 of the Lake Mathews Watershed Project. The outstanding principal amount as of January 1, 2009 is $13.2 million. The loan will be repaid over 20 years, with annual payments of $1.32 million through November 2020, on a parity with Metropolitan’s water revenue bonds.

**Subordinate Revenue Obligations**

Metropolitan currently is authorized to issue subordinate debt of up to $400,000,000 of Commercial Paper Notes payable from Net Operating Revenues on a basis subordinate to the Parity Bonds and the Parity Obligations. Although no Commercial Paper Notes are currently outstanding, the authorization remains in full force and effect and Metropolitan may issue Commercial Paper Notes from time to time. In addition, Metropolitan obtained a $20 million California Safe Drinking Water Revolving Fund Loan in 2003 at an interest rate of 2.39 percent per annum to reimburse construction costs for oxidation retrofit facilities at the Henry J. Mills Treatment Plant in Riverside County. The loan will be repaid over 20 years, with semiannual payments of $632,000 through January 1, 2024. The loan payment obligation is subordinate to the Bonds and Parity Obligations. The principal balance outstanding as of January 1, 2009 is $16.3 million.
General Obligation Bonds

As of January 1, 2009, $327,215,000 aggregate principal amount of general obligation bonds payable from ad valorem property taxes were outstanding. Metropolitan's revenue bonds are not payable from the levy of ad valorem property taxes. Ad valorem taxes levied by Metropolitan must be applied solely to the payment of general obligation bonds and other voter-approved indebtedness.

Metropolitan had outstanding the following general obligation bonds as of January 1, 2009:

<table>
<thead>
<tr>
<th>General Obligation Bonds</th>
<th>Amount Issued</th>
<th>Principal Outstanding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waterworks General Obligation Refunding Bonds, 1993 Series A</td>
<td>$138,085,000</td>
<td>$12,175,000</td>
</tr>
<tr>
<td>Waterworks General Obligation Refunding Bonds, 1993 Series A2</td>
<td>87,315,000</td>
<td>8,030,000</td>
</tr>
<tr>
<td>Waterworks General Obligation Bonds, Election 1966, Series H</td>
<td>50,000,000</td>
<td>40,370,000</td>
</tr>
<tr>
<td>Waterworks General Obligation Refunding Bonds, 1998 Series A</td>
<td>62,120,000</td>
<td>11,980,000</td>
</tr>
<tr>
<td>Waterworks General Obligation Refunding Bonds, 2001 Series A</td>
<td>49,390,000</td>
<td>9,145,000</td>
</tr>
<tr>
<td>Waterworks General Obligation Refunding Bonds, 2001 Series B</td>
<td>123,560,000</td>
<td>29,570,000</td>
</tr>
<tr>
<td>Waterworks General Obligation Refunding Bonds, 2002 Series A</td>
<td>55,185,000</td>
<td>36,115,000</td>
</tr>
<tr>
<td>Waterworks General Obligation Refunding Bonds, 2003 Series A</td>
<td>123,855,000</td>
<td>47,150,000</td>
</tr>
<tr>
<td>Waterworks General Obligation Refunding Bonds, 2004 Series A</td>
<td>68,345,000</td>
<td>68,345,000</td>
</tr>
<tr>
<td>Waterworks General Obligation Refunding Bonds, 2005 Series A</td>
<td>64,705,000</td>
<td>64,335,000</td>
</tr>
<tr>
<td>Total</td>
<td>$822,570,000</td>
<td>$327,215,000</td>
</tr>
</tbody>
</table>

*Source: Metropolitan.*

*(1) Voters authorized Metropolitan to issue $850,000,000 of Waterworks General Obligation Bonds, Election 1966, in multiple series, in a special election held on June 7, 1966. This authorization has been fully utilized. This table lists outstanding Waterworks General Obligation Bonds, Election 1966, and bonds that refunded such general obligation bonds.

State Water Contract Obligations

*General.* On November 4, 1960, Metropolitan entered into its State Water Contract with the Department of Water Resources, under which Metropolitan receives an entitlement to water service from the State Water Project. Subsequently, other public agencies also entered into water supply contracts with the Department of Water Resources, all of which were patterned after Metropolitan's State Water Contract. Metropolitan's State Water Contract accounts for nearly one-half of the total entitlement for State Water Project water contracted for by all contractors.

The State Water Contract will remain in effect until 2035 or until all the Department of Water Resources bonds issued to finance construction of project facilities are repaid, whichever is longer. At the expiration of the State Water Contract, Metropolitan has the option to continue service under substantially the same terms and conditions. Metropolitan presently intends to exercise this option to continue service to at least 2052. As of January 1, 2009, the latest maturity of outstanding Department of Water Resources bonds issued for such purpose was December 1, 2029.

Under the State Water Contract, Metropolitan is obligated to pay allocable portions of the cost of construction of the system and ongoing operating and maintenance costs through at least

Appendix A to Official Statement dated January 15, 2009
2035, regardless of quantities of water available from the project. Other payments are based on deliveries requested and actual deliveries received, costs of power required for actual deliveries of water, and offsets for credits received. Metropolitan’s payment obligation for the State Water Project for the fiscal year ending June 30, 2008 was $464.3 million, which amount reflects prior year’s credits of $58.6 million. For the fiscal year ending June 30, 2008, Metropolitan’s payment obligations under the State Water Contract were approximately 34 percent of Metropolitan’s total annual expenditures. See Note 9(a) to Metropolitan’s audited financial statements in Appendix B for an estimate of Metropolitan’s payment obligations under the State Water Contract. Also see “POWER SOURCES AND COSTS” in this Appendix A for a description of current and future costs for electric power required to operate State Water Project pumping systems and a description of litigation involving the federal relicensing of the Hyatt-Thermalito hydroelectric generating facilities at Lake Oroville.

On April 25, 2005, a group of fourteen State Water Project contractors filed suit against the Department of Water Resources challenging the manner in which it allocates certain energy costs and revenues related to operation of the State Water Project. Among other things, these contractors allege that the Department of Water Resources has been and is administering certain provisions of State Water Contract incorrectly, depriving them of “all benefits” derived from the sale or other disposal of electrical energy generated at the Hyatt-Thermalito power facility. The plaintiffs have not alleged specific amounts for damages. Metropolitan and twelve other State Water Project contractors have intervened in the litigation.

Metropolitan believes that Hyatt-Thermalito energy costs and revenues have been and are being allocated by the Department of Water Resources in a manner that is both legal and equitable. However, if plaintiffs are successful, tens of millions of dollars in annual costs could be shifted from State Water Project contractors located north of the Tehachapi Mountains to State Water Project contractors located south of the Tehachapi Mountains and on the Central Coast, including Metropolitan.

In November 2006, the trial court divided the litigation into two phases, liability and damages. In March 2007, the court further divided the liability phase into a contract interpretation phase and an affirmative defenses phase, and ordered the parties to focus their attentions on the former. Since that time, the parties have been heavily engaged in various discovery-related activities, which culminated in the submission of cross-motions for summary judgment in December 2007. These motions related solely to whether the approach of the Department of Water Resources for allocating Hyatt-Thermalito energy costs and revenues is consistent with the language of the State Water Contract. On May 8, 2008, the court denied all of the parties’ motions. A bench trial limited to contract interpretation issues began November 5, 2008, and concluded on December 12, 2008. The parties will submit post-trial briefs on a schedule extending through May 2009. The court’s decision in the contract interpretation phase is expected in the summer or fall of 2009.

The State Water Contract requires that in the event that Metropolitan fails or is unable to raise sufficient funds by other means, Metropolitan must levy upon all property within its boundaries not exempt from taxation a tax or assessment sufficient to provide for all payments under the State Water Contract. Currently a portion of the capital costs under the State Water Contract are paid from ad valorem taxes levied by Metropolitan. In the opinion of Metropolitan’s General Counsel, a tax increase to provide for additional payments under the State Water Contract would be within the

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exemption permitted under Article XIII A of the State Constitution as a tax to pay pre-1978 voter approved indebtedness.

Metropolitan capitalizes its share of system construction costs as participation rights in State Water Project facilities as such costs are billed by the Department of Water Resources. Unamortized participation rights essentially represent a prepayment for future water deliveries through the State Water Project system. Metropolitan’s share of system operating and maintenance costs are annually expensed.

Metropolitan has entered into amendments to the State Water Contract that represent additional long-term obligations, as described below.

Devil Canyon-Castaic Contract. On June 23, 1972, Metropolitan and five other southern California public agencies entered into a contract (the “Devil Canyon-Castaic Contract”) with the Department of Water Resources for the financing and construction of the Devil Canyon and Castaic power recovery facilities, located on the aqueduct system of the State Water Project. Under this contract, the Department of Water Resources agreed to build the Devil Canyon and Castaic facilities, using the proceeds of revenue bonds issued by the Department of Water Resources under the State Central Valley Project Act. The Department of Water Resources also agreed to use and apply the power made available by the construction and operation of such facilities to deliver water to Metropolitan and the other contracting agencies. Metropolitan, in turn, agreed to pay the Department of Water Resources 88.1 percent of the debt service on the revenue bonds issued by the Department of Water Resources. For calendar year 2008, this represents a payment of $7.0 million. In addition, Metropolitan agreed to pay 78.5 percent of the operation and maintenance expenses of the Devil Canyon facilities and 96 percent of the operation and maintenance expenses of the Castaic facilities. Metropolitan’s obligations under the Devil Canyon-Castaic Contract continue until the bonds are fully retired in 2022 even if the Department of Water Resources is unable to operate the facilities or deliver power from these facilities.

Off-Aqueduct Power Facilities. In addition to system “on-aqueduct” power facilities costs, the Department of Water Resources has, either on its own or by joint venture, financed certain off-aqueduct power facilities. The power generated is utilized by the system for water transportation and other State Water Project purposes. Power generated in excess of system needs is marketed to various utilities and the California power exchange market. Metropolitan is entitled to a proportionate share of the revenues resulting from sales of excess power. By virtue of a 1982 amendment to the State Water Contract and the other water supply contracts, Metropolitan and the other water contractors are responsible for paying the capital and operating costs of the off-aqueduct power facilities regardless of the amount of power generated. Other costs of Metropolitan in relation to the State Water Project and the State Water Contract may increase as a result of restructuring of California’s electric utility industry and new Federal Energy Regulatory Commission regulations.

East Branch Enlargement Amendment. In 1986, Metropolitan’s State Water Contract and the water supply contracts of certain other State Water Project contractors were amended for the purpose, among others, of financing the enlargement of the East Branch of the California Aqueduct. Under the amendment, enlargement of the East Branch can be initiated either at Metropolitan’s request or by the Department of Water Resources finding that enlargement is needed to meet demands. Metropolitan, the other State Water Contractors on the East Branch, and the Department

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of Water Resources are currently in discussions on the timetable and plan for future East Branch enlargement actions.

The amendment establishes a separate subcategory of the Transportation Charge under the State Water Contract for the East Branch Enlargement and provides for the payment of costs associated with financing and operating the East Branch Enlargement. Under the amendment, the annual financing costs for such facilities financed by bonds issued by the Department of Water Resources are allocated among the participating contractors based upon the delivery capacity increase allocable to each participating contractor. Such costs include, but are not limited to, debt service, including coverage requirements, deposits to reserves, and certain operation and maintenance expenses, less any credits, interest earnings or other moneys received by the Department of Water Resources in connection with this facility.

If any participating contractor defaults on payment of its allocable charges under the amendment, among other things, the non-defaulting participating contractors may assume responsibility for such charges and receive delivery capability that would otherwise be available to the defaulting participating contractor in proportion to the non-defaulting contractor’s participation in the East Branch Enlargement. If participating contractors fail to cure the default, Metropolitan will, in exchange for the delivery capability that would otherwise be available to the defaulting participating contractor, assume responsibility for the capital charges of the defaulting participating contractor.

*Water System Revenue Bond Amendment.* In 1987, the State Water Contract and other water supply contracts were amended for the purpose of financing State Water Project facilities through revenue bonds. This amendment establishes a separate subcategory of the Delta Water Charge and the Transportation Charge for projects financed with the Department of Water Resources water system revenue bonds. This subcategory of charge provides the revenues required to pay the annual financing costs of the bonds and consists of two elements. The first element is an annual charge for repayment of capital costs of certain revenue bond financed water system facilities under the existing water supply contract procedures. The second element is a water system revenue bond surcharge to pay the difference between the total annual charges under the first element and the annual financing costs, including coverage and reserves, of the Department of Water Resources’ water system revenue bonds.

If any contractor defaults on payment of its allocable charges under this amendment, the Department of Water Resources is required to allocate a portion of the default to each of the nondefaulting contractors, subject to certain limitations, including a provision that no nondefaulting contractor may be charged more than 125 percent of the amount of its annual payment in the absence of any such default. Under certain circumstances, the nondefaulting contractors would be entitled to receive an allocation of the water supply of the defaulting contractor.

The following table sets forth Metropolitan’s projected costs of State Water Project water, based upon the State Department of Water Resources’ Annual Billing to Metropolitan for 2009.
PROJECTED COSTS OF METROPOLITAN
FOR STATE WATER PROJECT WATER(1)
(Dollars in Millions)

<table>
<thead>
<tr>
<th>Year Ending June 30</th>
<th>Existing Capital Costs</th>
<th>Minimum OMP&amp;R(2)</th>
<th>Power Costs(3)</th>
<th>Refunds &amp; Credits</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>$152.2</td>
<td>$181.7</td>
<td>$193.7</td>
<td>$(43.3)</td>
<td>$484.3</td>
</tr>
<tr>
<td>2010</td>
<td>177.7</td>
<td>163.6</td>
<td>239.5</td>
<td>(53.7)</td>
<td>527.1</td>
</tr>
<tr>
<td>2011</td>
<td>192.1</td>
<td>171.1</td>
<td>252.9</td>
<td>(56.0)</td>
<td>560.1</td>
</tr>
<tr>
<td>2012</td>
<td>192.6</td>
<td>148.4</td>
<td>190.6(4)</td>
<td>(56.0)</td>
<td>542.1</td>
</tr>
<tr>
<td>2013</td>
<td>199.9</td>
<td>151.3</td>
<td>241.7</td>
<td>(56.0)</td>
<td>537.0</td>
</tr>
</tbody>
</table>

Source: Metropolitan.

(1) Projections are based upon the Department of Water Resources' Annual Billing to Metropolitan for 2009 and attachments, dated July 1, 2008, and Metropolitan water purchase estimates. All costs are adjusted from calendar year to fiscal year periods ending June 30. The total charges shown above differ from those shown in Note 8 of Metropolitan’s audited financial statements (for the fiscal years ended June 30, 2008 and June 30, 2007) in Appendix B due to the inclusion above of allowances for inflation and anticipated construction of additional State facilities. The projections above also include State Water Project refunds and credits.

See “POWER SOURCES AND COSTS—State Water Project.”

(2) Minimum Operations, Maintenance, Power and Replacement (“OMP&R”) represents costs which are fixed and do not vary with the amount of water delivered.

(3) Based on costs of power for actual deliveries of water, includes capital charges. Assumptions for water deliveries through the California Aqueduct (not including San Bernardino and Desert Water/Coachella Valley (“DWCV”) transfers & exchanges) are as follows: 1.06 million acre-feet for 2009, 1.17 million acre-feet for 2010, 1.26 acre-feet for 2011, 1.29 million acre-feet for 2012 and 1.28 million acre-feet for 2013. Availability of State Water Project supplies vary and deliveries may include transfers and storage. All deliveries are within maximum contract amount and are based upon availability, as determined by hydrology, water quality and wildlife conditions. See “METROPOLITAN’S WATER SUPPLY—State Water Project—Environmental Considerations” in this Appendix A.

(4) Reduced power costs reflect projected increases in Colorado River supplies. As more Colorado River supplies are made available, more of the SWP supplies are diverted to the DWCV and San Bernardino transfers. (See “METROPOLITAN’S WATER SUPPLY—Water Transfer and Exchange Programs” in this Appendix A.) Since Metropolitan does not pay for the SWP power incurred on these transfers, Metropolitan’s variable SWP power cost is reduced.

Other Long-Term Commitments

Metropolitan also has various ongoing fixed annual obligations under its contract with the United States for power from the Hoover Power Plant. Under the terms of the Hoover Power Plant contract, Metropolitan purchases energy to pump water through the Colorado River Aqueduct. In fiscal year 2007-08 Metropolitan paid approximately $16.6 million under this contract. Payments made under the Hoover Power Plant contract are treated as Operation and Maintenance Expenditures. See “POWER SOURCES AND COSTS—Colorado River Aqueduct” in this Appendix A.

Defined Benefit Pension Plan

Metropolitan is a member of the California Public Employees’ Retirement System (“PERS”), a multiple-employer pension system that provides a contributory defined-benefit pension for substantially all Metropolitan employees. PERS provides retirement and disability benefits, annual cost-of-living adjustments and death benefits to plan members and beneficiaries. PERS acts as a common investment and administrative agent for participating public entities within the State. PERS

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is a contributory plan deriving funds from employee contributions as well as from employer contributions and earnings from investments. A menu of benefit provisions is established by State statutes within the Public Employees’ Retirement Law. Metropolitan selects optional benefit provisions from the benefit menu by contract with PERS.

Metropolitan makes biweekly contributions to PERS based on actuarially determined employer contribution rates. The actuarial methods and assumptions used are those adopted by the PERS Board of Administration. Employees are required to contribute seven percent of their earnings (excluding overtime pay) to PERS. Pursuant to current memoranda of understanding, Metropolitan contributes the requisite seven percent contribution for all employees represented by the Management and Professional Employees Association, the Association of Confidential Employees, Supervisors and Professional Personnel Association and AFSCME Local 1902. Metropolitan also contributes the entire seven percent on behalf of the unrepresented employees. In addition, Metropolitan is required to contribute the actuarially determined remaining amounts necessary to fund the benefits for its members.

The contribution requirements of the plan members are established by State statute and the employer contribution rate is established and may be amended by PERS. For fiscal year 2007-08 Metropolitan contributed 11.405 percent of annual covered payroll. In addition, since July 1, 2001, Metropolitan has paid the 7 percent employees’ share of the PERS contribution. The fiscal 2007-08 annual pension cost was $343.7 million, of which $131.0 million was for Metropolitan’s pick-up of the employees’ 7 percent share. For fiscal year 2008-09, Metropolitan is required to contribute 11.432 percent of annual covered payroll, in addition to member contributions paid by Metropolitan. For fiscal year 2009-10, Metropolitan is required to contribute 11.708 percent of annual covered payroll, in addition to member contributions paid by Metropolitan. The fiscal year 2009-10 contribution requirement is based on the June 30, 2007 valuation report.

As of June 30, 2007, the date of the most recent actuarial valuation report available from PERS, the actuarial value of assets in Metropolitan’s pension plan was approximately $1.153 billion, and the plan had an unfunded liability of approximately $95 million. Funded status (based on the market value of assets) was 107.0%. This compares to the plan’s unfunded liability of $78 million as of the June 30, 2006 actuarial valuation (98.7% funded), unfunded liability of $76 million as of the June 30, 2005 actuarial valuation (95.4% funded), unfunded liability of $56 million as of the June 30, 2004 actuarial valuation (92.6% funded) and unfunded liability of $21 million as of the June 30, 2003 actuarial valuation (97.7% funded). The pension plan had excess assets of $95 million as of the June 30, 2002 actuarial valuation. The actuarial value of PERS assets for fiscal years 2002 and 2003 was determined using techniques that smooth the effect of short-term volatility in the market value of investments over a three-year period (smoothed market value). The actuarial value of PERS assets beginning in fiscal year 2004 was based on a policy to smooth the market value of investments over a fifteen-year period, in place of three years, to reduce the volatility of employers’ future contributions and stabilize pension costs. The increase in unfunded liability is due to the draw-down of excess assets relating to the employer pick-up of the employees’ 7 percent share and prior asset losses in PERS investments, and the recognition of gains and losses on an actuarial basis over the “smoothing” period. The market value of PERS assets declined approximately twenty percent from July 1, 2008 to mid-October 2008 due to global financial market conditions. This change in market values, which will be smoothed over a fifteen-year period, is anticipated to result in higher employer payments beginning in fiscal year 2011-12. For more information on the plan,
see the financial statements of Metropolitan contained in Appendix B attached to the Official Statement.

Metropolitan provides post-employment medical insurance to retirees. Metropolitan currently pays the post-employment medical insurance premiums to PERS. Metropolitan funds such benefits on a pay-as-you-go basis. Payments were $10.2 million for fiscal year 2007-08, $9.2 million for fiscal year 2006-07, $8.0 million for fiscal year 2005-06, $7.8 million for fiscal year 2004-05 and $7.5 million for fiscal year 2003-04. Under Governmental Accounting Standards Board Statement No. 45, Accounting and Financial Reporting by Employers of Post-employment Benefits Other Than Pensions ("OPEB"), Metropolitan was required to account for and report the outstanding obligations and commitments related to such post-employment employment benefits on an accrual basis for the fiscal year ending June 30, 2008. Metropolitan began accounting for and reporting its OPEB obligations beginning with its financial statements for the fiscal year ended June 30, 2006.

For fiscal year 2007-08, Metropolitan’s annual actuarially required OPEB cost was $30.0 million. Contributions of $10.2 million equaled the pay-as-you go amount and represented 30 percent of the annual OPEB cost. The required contribution was based on a June 30, 2007 actuarial valuation using the entry-age normal actuarial cost method with contributions determined as a level percent of pay. The actuarial assumptions included (a) a 5.0 percent investment rate of return, (b) an inflation component of 4 percent and (c) certain assumptions regarding health care cost trends. (See Footnote 8(c) to Metropolitan’s audited financial statements in Appendix B for additional information on OPEB cost and net OPEB obligation.) As of June 30, 2007, the date of the actuarial report, the unfunded OPEB liability was estimated to be $393 million. This amount is being amortized over 30 years as a level percent of pay. Metropolitan intends to continue funding on a pay-as-you-go-basis while it reviews various funding options.

In July 1998, in a case entitled Dewayne Cargill et al. v. Metropolitan Water District of Southern California et al. a class action was brought by various categories of temporary workers against Metropolitan and certain temporary agencies, claiming that Metropolitan misclassified them as temporary workers to avoid providing them the same rights and benefits given to regular employees and seek the full benefits of public employment, including membership in PERS on a retroactive basis. See “GOVERNANCE AND MANAGEMENT—Employee Relations” above for further information on the case.

HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES

The following table provides a summary of revenues and expenditures of Metropolitan prepared to conform to the Revenue Bond Resolutions provisions regarding rates and additional Parity Bonds (as defined in the Master Resolution). See “METROPOLITAN EXPENDITURES—Limitations on Additional Revenue Bonds.” The table is presented on a cash basis, and does not reflect the accrual basis used to prepare Metropolitan’s annual audited financial statements. The projections are based on assumptions concerning future events and circumstances that may impact revenues and expenditures and represent management’s best estimates of results at this time. See footnotes to the table below entitled “HISTORICAL AND PROJECTED REVENUES AND EXPENSES” and “MANAGEMENT’S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES” for relevant assumptions, including projected water sales and

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average annual increase in the effective water rate, and "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES" for a discussion of potential impacts. Some assumptions inevitably will not materialize and unanticipated events and circumstances may occur. Therefore, the actual results achieved during the projection period will vary from the projections and the variations may be material.

In addition to the Parity Bonds currently outstanding and the Bonds described in this Official Statement, Metropolitan anticipates issuing approximately $1.35 billion aggregate principal amount of Parity Bonds through fiscal year 2013 to finance the CIP. The debt service coverage ratio is projected to decline as a result of the issuance of additional Parity Bonds to finance Metropolitan’s CIP and increased operating costs. However, in September 2004 Metropolitan adopted a goal to maintain a minimum fixed charge coverage ratio, measuring total coverage of all fixed obligations (which includes all revenue bond debt service obligations, State Water Contract capital payments paid from current year operations and subordinate obligations) after payment of operating expenditures, of 1.2 times. This goal is subject to change by future action of Metropolitan’s Board.

Estimated revenues and expenditures are based on preliminary assumptions and estimates used in developing the estimated budget and revenue requirements for fiscal year 2009-10. The projections were prepared by Metropolitan and have not been reviewed by independent certified public accountants or any entity other than Metropolitan. Dollar amounts are rounded.
## HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES
(Dollars in Millions)
(Cash Basis)

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
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<tbody>
<tr>
<td>Receipts from Water Sales(^{(a)})</td>
<td>$819</td>
<td>$827</td>
<td>$892</td>
<td>$968</td>
<td>$1,017</td>
<td>$1,142</td>
<td>$1,352</td>
<td>$1,442</td>
<td>$1,549</td>
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<tr>
<td>Additional Revenue Sources(^{(a)})</td>
<td>113</td>
<td>111</td>
<td>113</td>
<td>114</td>
<td>120</td>
<td>134</td>
<td>149</td>
<td>161</td>
<td>171</td>
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<tr>
<td>Total Operating Revenues</td>
<td>232</td>
<td>938</td>
<td>1,005</td>
<td>1,082</td>
<td>1,137</td>
<td>1,276</td>
<td>1,301</td>
<td>1,603</td>
<td>1,720</td>
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<tr>
<td>O&amp;M, CRA Power and Water Transfer Costs(^{(a)})</td>
<td>(374)</td>
<td>(416)</td>
<td>(392)</td>
<td>(470)</td>
<td>(542)</td>
<td>(619)</td>
<td>(643)</td>
<td>(708)</td>
<td>(759)</td>
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<tr>
<td>SWC OMP&amp;R Costs(^{(a)})</td>
<td>(185)</td>
<td>(237)</td>
<td>(200)</td>
<td>(265)</td>
<td>(260)</td>
<td>(287)</td>
<td>(305)</td>
<td>(315)</td>
<td>(322)</td>
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<tr>
<td>SWC Off-Aqueduct O&amp;M Costs</td>
<td>(44)</td>
<td>(40)</td>
<td>(56)</td>
<td>(56)</td>
<td>(46)</td>
<td>(47)</td>
<td>(48)</td>
<td>(44)</td>
<td>(34)</td>
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<tr>
<td>Total Operation and Maintenance</td>
<td>(603)</td>
<td>(693)</td>
<td>(484)</td>
<td>(792)</td>
<td>(848)</td>
<td>(953)</td>
<td>(1,080)</td>
<td>(1,067)</td>
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<td>Net Operating Revenues</td>
<td>$329</td>
<td>$245</td>
<td>$357</td>
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<td>$323</td>
<td>$501</td>
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<td>$605</td>
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<td>Miscellaneous Revenue(^{(a)})</td>
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<td>24</td>
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<td>Sales of Hydroelectric Power(^{(a)})</td>
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<td>45</td>
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<td>Interest on Investments(^{(a)})</td>
<td>27</td>
<td>26</td>
<td>33</td>
<td>46</td>
<td>33</td>
<td>34</td>
<td>36</td>
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<td>Adjusted Net Operating Revenues(^{(a)})</td>
<td>356</td>
<td>325</td>
<td>414</td>
<td>385</td>
<td>352</td>
<td>390</td>
<td>571</td>
<td>607</td>
<td>680</td>
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<td>Bonds and Additional Bonds Debt Service(^{(a)})</td>
<td>(157)</td>
<td>(176)</td>
<td>(200)</td>
<td>(219)</td>
<td>(233)</td>
<td>(269)</td>
<td>(304)</td>
<td>(316)</td>
<td>(324)</td>
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<td>Subordinate Revenue Obligations(^{(a)})</td>
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<td>(1)</td>
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<tr>
<td>Funds Available from Operations</td>
<td>$238</td>
<td>$148</td>
<td>$240</td>
<td>$165</td>
<td>$116</td>
<td>$120</td>
<td>$266</td>
<td>$290</td>
<td>$345</td>
</tr>
<tr>
<td>Bonds and Additional Bonds Debt Service Coverage(^{(a)})</td>
<td>2.52</td>
<td>1.85</td>
<td>2.21</td>
<td>1.75</td>
<td>1.50</td>
<td>1.45</td>
<td>1.88</td>
<td>1.92</td>
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<td>Debt Service Coverage on all Obligations(^{(a)})</td>
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<td>1.84</td>
<td>2.19</td>
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<td>1.44</td>
<td>1.87</td>
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<tr>
<td>Funds Available from Operations</td>
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<td>$148</td>
<td>$240</td>
<td>$165</td>
<td>$116</td>
<td>$120</td>
<td>$266</td>
<td>$290</td>
<td>$345</td>
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<tr>
<td>Other Receipts (Expenditures)</td>
<td>29</td>
<td>16</td>
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<td>19</td>
<td>8</td>
<td>6</td>
<td>6</td>
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<tr>
<td>Pay-As-You Go Construction</td>
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<td>82</td>
<td>95</td>
<td>34</td>
<td>95</td>
<td>95</td>
<td>95</td>
<td>(125)</td>
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<tr>
<td>Water Transfer Capital Costs</td>
<td>(11)</td>
<td>(65)</td>
<td>(13)</td>
<td>(48)</td>
<td>(9)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>SWC Capital Costs Paid from Current Year Operations</td>
<td>(65)</td>
<td>(49)</td>
<td>(26)</td>
<td>(55)</td>
<td>(69)</td>
<td>(97)</td>
<td>(113)</td>
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<td>(114)</td>
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<tr>
<td>Remaining Funds Available from Operations</td>
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<td>(94)</td>
<td>46</td>
<td>(28)</td>
<td>(102)</td>
<td>(111)</td>
<td>20</td>
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<td>Tax Receipts</td>
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<td>91</td>
<td>82</td>
<td>82</td>
<td>85</td>
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<tr>
<td>General Obligation Bonds Debt Service</td>
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<td>(49)</td>
<td>(49)</td>
<td>(49)</td>
<td>(48)</td>
<td>(39)</td>
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<tr>
<td>SWC Capital Costs Paid from Taxes</td>
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<td>(49)</td>
<td>(49)</td>
<td>(49)</td>
<td>(49)</td>
<td>(48)</td>
<td>(43)</td>
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<tr>
<td>Net Funds Available from Current Year</td>
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<td>$94</td>
<td>$46</td>
<td>$28</td>
<td>$102</td>
<td>$111</td>
<td>$20</td>
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<td>$76</td>
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<td>Defeasance Escrow Costs</td>
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<td>$25</td>
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<td>Pay-As-You Go Construction-Prior Year Reserves</td>
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<td>-</td>
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</table>

**Source:** Metropolitan.

\(^{(a)}\) During the four fiscal years, June 30, 2005 through June 30, 2008, annual water sales (in acre-feet) were 2,211 million, 2,151 million, 2,25 million and 2,311 million, respectively. See table entitled "SUMMARY OF WATER SOLD AND WATER SALES RECEIPTS" above. The water receipts projections are based upon estimated annual water sales (in acre-feet) of 2,202 million for 2008-09, 2,121 million for 2009-10, 2,121 million for 2010-11, 2,044 million for 2011-12 and 2,011 million for 2012-2013. See "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES" below.

\(^{(a)}\) Includes receipts from water standby, readiness-to-serve and capacity reservation charges. The term Operating Revenues excludes ad valorem taxes. See "METROPOLITAN REVENUES — Additional Revenue Components."

\(^{(a)}\) Water Transfer Costs are included in Operation and Maintenance Expenditures for purposes of calculating the debt service coverage on all Obligations. Increase in 2009 reflects increased purchases of water transfer supplies.

(footnotes continued on next page)

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(footnotes continued from previous page)

(4) Includes operation, maintenance, power and replacement costs payable under the State Water Contract.
(5) Includes lease and rental net proceeds and net proceeds from sale of surplus property.
(6) Includes Colorado River Aqueduct power sales.
(7) Does not include interest applicable to Bond Construction Funds, the Excess Earnings Funds, other trust funds and the Deferred Compensation Trust Fund.
(8) Adjusted Net Operating Revenues is a sum of all available revenues that the revenue bond resolutions specify may be considered by Metropolitan in setting rates and issuing additional Revenue Bonds and Parity Obligations.
(9) Net of investment income with respect to reserve funds. Assumes the issuance of Additional Parity Bonds, including the current offering, as follows: $250 million in 2008-09, $550 million in 2009-10, $200 million in 2010-11, $240 million in 2011-12 and $160 million in 2012-2013.
(10) Represents California Safe Drinking Water Revolving Fund Loan debt service commencing in 2004-05. See “METROPOLITAN EXPENDITURES—Subordinate Revenue Obligations” above.
(11) Adjusted Net Operating Revenues divided by the outstanding Revenue Bonds, and additional Revenue Bonds Debt Service.

MANAGEMENT’S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES

Water Sales Receipts

Metropolitan relies on receipts from water sales for about 75 to 80 percent of its total revenues. From March 1997 through January 1, 2004, the levels of full service water rates and charges remained unchanged. However, the rates effective January 1, 2004 included a $10 per acre-foot increase for treated water and the rates effective January 1, 2005 included a $5 per acre-foot increase in the untreated full service rate and another $10 per acre-foot increase for treated water. The rates effective January 1, 2006 included a $15 per acre-foot increase in the Tier 2 Supply Rate and another $10 per acre-foot increase for treated water. The rates effective January 1, 2007 and January 1, 2008 included additional increases. See “METROPOLITAN REVENUES—Rate Structure” and “—Classes of Water Service” in this Appendix A. Effective January 1, 2009, base water rates and charges increased by 9.8 percent plus a $25 per acre-foot water supply surcharge. The combined impact is an increase of approximately 14.3 percent. The water supply surcharge is intended to recover the costs of additional water transfer purchases to augment State Water Project supplies. See “METROPOLITAN’S WATER SUPPLY—State Water Project” and “—Water Transfer and Exchange Programs” in this Appendix A. Water rates and charges are expected to increase between 20 and 25 percent effective January 1, 2010. Increases in rates and charges reflect increasing operations and maintenance costs, including higher treatment costs, financing requirements of the approximately $1.7 billion five-year CIP (covering the years 2009 to 2013), increasing State Water Project costs, rising demand management costs and water supply purchases. It is assumed that water sales will range between 2.01 million acre-feet and 2.20 million acre-feet from fiscal year 2008-09 through fiscal year 2012-2013. Metropolitan’s water sales were approximately 2.31 acre-feet during fiscal year 2007-08. If Metropolitan implements its water supply allocation plan (see “METROPOLITAN’S WATER SUPPLY—Five-Year Supply Plan” in this Appendix A), lower deliveries and water sales would result in higher rate increases in 2010 and beyond.

Metropolitan has funded a Water Rate Stabilization Fund and a Water Treatment Surcharge Stabilization Fund with a portion of the water revenues collected. The Board’s stated policy is to use moneys in these funds to mitigate the need to increase water rates. Water Rate Stabilization funds decreased by approximately $46.3 million in fiscal year 2007-08, and projections indicate use of

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stabilization funds in 2008-09 and 2009-2010. The Water Revenue Remainder Fund balance increased by $42.7 million in fiscal year 2007-08. The Long-Range Finance Plan adopted by the Board on March 9, 1999 provides for a minimum/maximum reserve policy based on Metropolitan's water sales during wet periods. Funds representing the minimum reserve level are held in the Water Revenue Remainder Fund, and any funds in excess of the minimum reserve level (up to the maximum reserve level) are held in the Water Rate Stabilization Fund. The maximum reserve level on June 30, 2008 was calculated to be $479 million and fund balances in the Water Rate Stabilization Fund and the Water Revenue Remainder Fund at that date totaled $287 million. The minimum reserve requirement as of June 30, 2008, was $209 million. See "METROPOLITAN REVENUES—Reserve Policy" in this Appendix A.

Operation and Maintenance Expenditures

Operation and Maintenance Expenditures in 2007-08 were $687 million, which represented approximately 56 percent of total costs. These expenditures include the costs of labor, electrical power, materials and supplies of both Metropolitan and its contractual share of the State Water Project. The cost of power for pumping water through the aqueducts is a major component of this category of expenditures.

Other costs included in operation and maintenance are those associated with Metropolitan’s increasing participation in water conservation, reclamation and groundwater cleanup. In fiscal year 2008, Metropolitan spent nearly $49 million in support of these efforts.

A major component of the increase in fiscal year 2008 operations and maintenance expenditures is due to projected higher purchases for water transfers. Water transfers to be funded from the water supply surcharge are expected to total $52 million. Other water transfers and storage supplies could total as much as $163 million in 2008-09.

Metropolitan’s Board adopted a budget benchmark in September 2004 to limit the annual increase in departmental operations and maintenance budgets to no more than the five-year rolling average change in the Los Angeles/Orange/Riverside Counties consumer price index.

POWER SOURCES AND COSTS

General

Current and future costs for electric power required for operating the pumping systems of the Colorado River Aqueduct and the State Water Project are a substantial part of Metropolitan’s overall expenses. Expenditures for electric power for the Colorado River Aqueduct (not including credits from power sales and related revenues) were approximately $26 million for the fiscal year ended June 30, 2000, $89.3 million for the fiscal year ended June 30, 2001, $98.2 million for fiscal year ended June 30, 2002, $49 million for the fiscal year ending June 30, 2003, $24.7 million for the fiscal year ending June 30, 2004, $20 million for the fiscal year ending June 30, 2005 and $27 million for the fiscal year ending June 30, 2006. Expenditures for the fiscal years ending June 30, 2008 and June 30, 2007 were approximately $19 million and $21 million, respectively.

Expenditures for electric power and transmission service for the State Water Project were $80.2 million (not including credits for prior period adjustments) for the fiscal year ended June 30, 2008.

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2000; but increased to $105.2 million for the fiscal year ended June 30, 2001 and $187 million for the fiscal year ended June 30, 2002. As the market prices for energy declined from the crisis levels in 2000 and 2001, State Water Project power costs decreased to $136.3 million for the fiscal year ended June 30, 2003. Expenditures for the fiscal years ended June 30, 2004, June 30, 2005 and June 30, 2006 were approximately $182.3 million, $176.8 million and $201.4 million, respectively, showing the effect of more State Water Project deliveries. Expenditures for the fiscal year ended June 30, 2007 were approximately $136.1 million and expenditures for the fiscal year ended June 30, 2008 were $204.7 million.

Given the continuing uncertainty surrounding the electricity markets in California and in the electric industry in general, Metropolitan is unable to give any assurance with respect to the magnitude of its power costs.

**Colorado River Aqueduct**

Generally 60 to 75 percent of the power requirements for pumping at full capacity (1.2 million acre-feet of Colorado River water) in Metropolitan’s Colorado River Aqueduct are secured through long-term contracts with the United States for energy generated from facilities located on the Colorado River (Hoover Power Plant and Parker Power Plant), and Edison. These contracts provide Metropolitan with reliable and economical power resources to pump Colorado River water to Metropolitan’s service area until 2017, when only the Parker Power Plant contract will remain in effect. However, prior to 2017, the Western Area Power Administration will engage in a public process to determine the remarketing of Hoover Power after 2017. Based on other recent Western remarketing processes, long-term preference power contractors typically receive new long-term contracts with a slightly reduced share of power.

Approximately 25 to 40 percent of pumping power requirements for full utilization of the Colorado River Aqueduct is obtained through energy purchase agreements with municipal and investor-owned utilities or from power marketers. Deliveries of water through the Colorado River Aqueduct for the fiscal year ending June 30, 2007 were approximately 660,000 acre-feet, including Metropolitan’s basic apportionment of Colorado River water and supplies from water transfer and groundwater storage programs. As the amount of Colorado River water available to Metropolitan decreases, Metropolitan’s need to purchase supplemental energy decreases.

The Metropolitan-Edison 1987 Service and Interchange Agreement includes provisions for the sharing of energy savings realized by the integrated operation of Edison’s and Metropolitan’s electric systems. Under this agreement, with a previously normal maximum pumping operation of eight pumps, Edison provides Metropolitan additional energy (benefit energy) sufficient to pump approximately 100,000 acre-feet annually. As the amount of pumping is reduced, the amount of benefit energy provided by Edison increases.

Under maximum pumping conditions, Metropolitan can require up to one billion kilowatt-hours per year in excess of the base resources available to Metropolitan from the Hoover Power Plant, the Parker Power Plant, and Edison benefit energy. Metropolitan is a member of the Western Systems Power Pool ("WSPP"), and utilizes its industry standard form contract to make power purchases at market cost. Metropolitan acquires the majority of its supplemental power from WSPP members. With expected allocations of Colorado River water and the additional supplies from other

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Colorado River sources, Metropolitan does not anticipate the need to purchase significant amounts of energy above its base power resources before 2009. In 2009, Metropolitan expects to pump between 900,000 acre-feet and 1.1 million acre-feet of Colorado River water and additional supplies from other Colorado River sources, which will require between 260 million kilowatt-hours and 660 million kilowatt-hours of energy purchases above its base power resources. If in the future, the pumping requirements continue at the anticipated 2009 levels, Metropolitan would continue to purchase between 260 million kilowatt-hours and 660 million kilowatt-hours of supplemental energy.

**State Water Project**

The State Water Project’s power requirements are met from a diverse mix of resources, including State-owned hydroelectric generating facilities, long-term contract energy from a coal-fired generating facility, and contracts with Metropolitan and several other utilities in California and the Southwest. Metropolitan pays approximately 70 percent of State Water Project power costs.

The Department of Water Resources is seeking renewal of the license issued by the Federal Energy Regulatory Commission (“FERC”) for the State Water Project’s Hyatt-Thermalito hydroelectric generating facilities at Lake Oroville. A Settlement Agreement containing recommended conditions for the new license was submitted to FERC in March 2006. That agreement was signed by over 50 stakeholders, including Metropolitan and other State Water Project contractors. With only a few minor modifications, FERC staff recommended that the Settlement Agreement be adopted as the conditions for the new license. DWR issued a Final EIR for the relicensing project on July 22, 2008. On August 21, 2008, Butte County and Plumas County filed separate lawsuits challenging the adequacy of the Final EIR. Metropolitan is currently assessing how best to participate in the defense of this action. FERC has issued one-year renewals of the existing license since its initial expiration date on January 31, 2007, and is expected to issue successive one-year renewals until a new license is obtained.

The Department of Water Resources receives transmission service from investor-owned utilities under existing contracts and from the California Independent System Operator (“Cal ISO”), a nonprofit public benefit corporation formed in 1996 pursuant to legislation that restructured and deregulated the electric utility industry in California. The transmission service provider may seek increased transmission rates, subject to the approval of FERC. The Department of Water Resources has the right to contest any such proposed increase. The development of California’s transmission grid has lagged significantly behind the growth in load and generation resources within the state. The Department of Water Resources may be subject to increases in the cost of transmission service as new grid facilities are constructed.

**Power Market Redesign**

In an effort to achieve more competitive wholesale markets and to comply with FERC orders, the Cal ISO filed its tariffs for market redesign changes in February 2006. Metropolitan is unable to predict the impact and timing of any proposed market design change on the costs for and availability of electricity. Nonetheless, Metropolitan is obligated under the Act to impose rates and charges, together with revenue from any water standby or availability charges, sufficient to pay Metropolitan operating expenses (including power costs) and debt service on its outstanding bonds.

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Energy Management Program

Metropolitan initiated its Energy Management Program in fall 2006 to help Metropolitan design and operate its facilities in the most energy-efficient and cost-effective manner. This program includes setting design standards for energy-efficient facilities; taking advantage of available rebates for energy efficiency and energy-saving projects; operating Metropolitan's facilities in the most energy-efficient manner; and continuing to investigate alternative energy sources, such as solar and wind power. Metropolitan has completed energy efficiency assessments at all five of its water treatment plants and is evaluating recommendations for proposed changes. Metropolitan is proceeding with construction of a one-megawatt solar generation facility at the Skinner plant. Metropolitan also is considering wind and solar power feasibility studies at its pumping plants along the Colorado River Aqueduct. Metropolitan has begun integrating fuel-efficient hybrid vehicles into its fleet and assessing the use of alternative fuels (biodiesel) for its off-road vehicles and construction equipment. Finally, Metropolitan is assessing the feasibility of expanding its hydroelectric generation capabilities.

In February 2007, the Board authorized Metropolitan’s membership in the California Climate Action Registry, a nonprofit voluntary registry for greenhouse gas emissions that was established by the California Legislature in 2001. Metropolitan has completed and certified its baseline greenhouse gas inventory, or carbon footprint, for calendar years 2005, 2006 and 2007, against which any future greenhouse gas emission reduction requirements may be applied, and anticipates setting appropriate and feasible targets for the reduction of carbon dioxide emissions in 2009. Metropolitan staff also is working to identify potential projects, activities, or initiatives that could be used to achieve Metropolitan’s reduction goals as well as tracking the regulatory and legislative greenhouse gas developments that may impact Metropolitan.
APPENDIX H

Water Supply Assessment Checklist
<table>
<thead>
<tr>
<th>Water Code Section</th>
<th>Water Supply Assessment Content</th>
<th>Page # in WSA</th>
</tr>
</thead>
<tbody>
<tr>
<td>10910(c)(2)</td>
<td>Incorporate data from UWMP.</td>
<td>1-25</td>
</tr>
<tr>
<td>10910(d)(1)</td>
<td>Identification of existing water supply entitlements, water rights, or water service contracts relevant to identified water supply for proposed project, and description of quantity of water received in prior years.</td>
<td>18-25</td>
</tr>
<tr>
<td>10910(d)(2)(A)</td>
<td>Written contracts or other proof of entitlement to an identified water supply.</td>
<td>18-24</td>
</tr>
<tr>
<td>10910(d)(2)(B)</td>
<td>Capital outlay program for financing the delivery of a water supply that has been adopted.</td>
<td>25</td>
</tr>
<tr>
<td>10910(d)(2)(C)</td>
<td>Federal, state, and local permits for construction of necessary infrastructure associated with delivering the water supply.</td>
<td>18-24</td>
</tr>
<tr>
<td>10910(d)(2)(D)</td>
<td>Any necessary regulatory approval to deliver/convey the water supply.</td>
<td>18-24</td>
</tr>
<tr>
<td>10910(f)(1)</td>
<td>Review of any information contained in the UWMP relevant to the identified water supply for the proposed project.</td>
<td>1-25</td>
</tr>
<tr>
<td>10910(f)(2)</td>
<td>Description of any groundwater basin(s) from which proposed project will be supplied. For basins with adjudicated groundwater pumping rights, include a copy of the order/decree adopted by the court or the board and a description of quantity of groundwater public water system has the legal right to pump under the order/decree.</td>
<td>20-21, Appendix E</td>
</tr>
<tr>
<td>10910(f)(3)</td>
<td>Description and analysis of amount and location of groundwater pumped for the past 5 years from any groundwater basin from which the proposed project will be supplied.</td>
<td>20-21</td>
</tr>
<tr>
<td>10910(f)(4)</td>
<td>Description and analysis of amount and location of groundwater that is projected to be pumped from any basin to provide water to the proposed project.</td>
<td>20-21</td>
</tr>
<tr>
<td>10910(f)(5)</td>
<td>Analysis of sufficiency of groundwater from the basins from which the proposed project will be supplied to meet projected water demand of the proposed project.</td>
<td>20-21</td>
</tr>
</tbody>
</table>