



2007-2009 BIENNIAL REPORT

County of Los Angeles Department of Public Works



The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, CA 90012



Dear Supervisors:

County of Los Angeles Department of Public Works
2007-2009 Biennial Report

Enclosed is our 2007-2009 Biennial Report demonstrating our progress in managing the design, construction, operation, maintenance and repairs of roads, bridges, airports, capital projects, sewers, water supply, flood control and water conservation facilities, and regulatory and ministerial programs for the County and contract cities.

Although the current economic environment places a challenge on all of us, we continue to strive to maximize our talents to provide the most efficient and cost effective services to our community.

A few notable contributions that Public Works achieved throughout this Biennium include reaching a historic milestone through the completion of the LAC+USC Medical Center Replacement Project which was the largest capital project in the history of the County; emergency mudflow mitigation that protected several communities and hundreds of residents from potential mudslides after a spate of devastating fires; and the resurrection of cloud seeding, which helps diminish the effects of recent record low rainfall amounts and reduced availability of imported water and further develop the long-term sustainability of our local drinking water supplies.

Public Works is proud to demonstrate a pivotal role in providing vital services to the citizens of Los Angeles County. As we will continue to build upon our accomplishments to make the next Biennium a success, we hope you enjoy our Biennial Report, as it is a true snapshot of our continued achievements, hard work and true success.

Respectfully submitted,

A handwritten signature in black ink that reads "Gail Farber". The signature is written in a cursive, flowing style.

GAIL FARBER
Director of Public Works



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TABLE OF CONTENTS

Overview	5
Roads & Transportation	15
Los Angeles County Flood Control District	27
Waterworks	33
Sewer Maintenance	36
Environmental Programs	38
Construction and Development	48
Financial Perspective	64
A Workload Sampling	66
Awards & Recognition	70

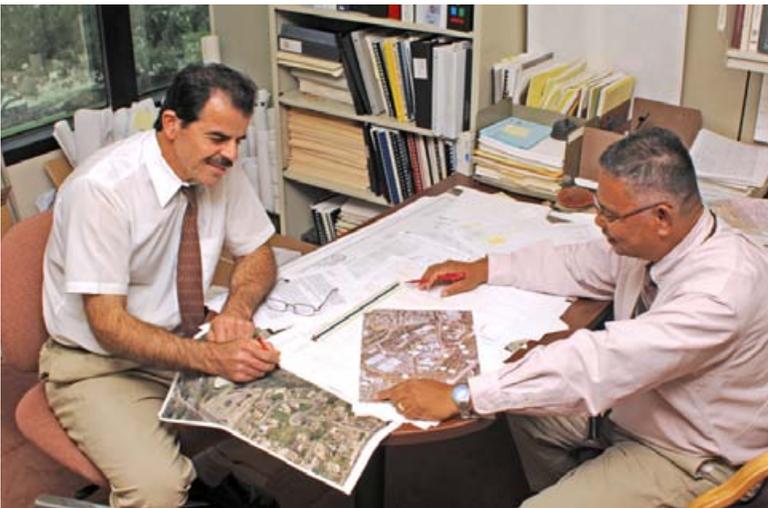


OVERVIEW

The County of Los Angeles Department of Public Works was formed on January 1, 1985, consolidating the former County Road Department, a portion of the County Engineer-Facilities, and the County Flood Control District. In 1995, Public Works assumed the responsibility for capital projects from the County Internal Services Department.

The Department is comprised of over 30 divisions and groups with more than 3,600 employees in a variety of job classifications, including professional, technical, clerical, and skilled craft workers. Public Works' annual operating budget is nearly \$1.9 billion and is funded by restricted revenues, such as gas excise and sales tax, benefit assessment, water and sewer sales, user fees, and contract cities revenues. Headquartered in Alhambra, California, Public Works has 77 field facilities in strategic locations throughout the unincorporated Los Angeles County area, as well as contract cities.

Public Works is responsible for the design, construction, operation, maintenance, and repair of roads, traffic signals, bridges, airports, sewers, water supply, flood control, water quality, and water conservation facilities and for the design and construction of capital projects. Additional responsibilities include regulatory and ministerial programs for the County of Los Angeles, Los Angeles County Flood Control District, other special districts, and contract cities that request services. A 24-hour Emergency Operations Center is maintained to respond to problems reported by the public and other agencies, as well as major emergencies, such as floods, earthquakes, fires, and other disasters. In addition, our Traffic Management Center allows us to monitor and control traffic signals Countywide from our Alhambra Headquarters.





Gene Blevins - VPP LACoFD

Emergency Preparedness

Public Works continuously maintains the Department's constant state of readiness by training personnel in emergency preparedness and response. In the 2007-2009 biennium, we played an engineering role in developing the Great Southern California ShakeOut scenario utilized by the State and seven counties for the Golden Guardian exercise, and the "Drop! Cover! Hold On!" drill which had over 5 million participants. We designed and took part in two Countywide emergency exercises; Operation Higher Ground that tested the County's response to a Tsunami and the Golden Guardian exercise which tested the County's response to a catastrophic earthquake.

In 2008, we launched the Public Works Mutual Aid Agreement website (<http://pwmaa.org/>). This website was designed to enlist new members and act as a resource for existing signatories, and also kicked off the reevaluation of the Disaster Routes within the County and saw the publication of on-line Disaster Route maps (<http://dpw.lacounty.gov/dsg/disasterroutes/>).

Public Works was also a key participant responding to large-scale emergencies and disasters throughout the County which included rainstorms, wildfires, and earthquakes. Staff is fully trained on the State's Standardized Emergency Management System (SEMS) and the National Incident Management System (NIMS). NIMS was incorporated into the Department's Integrated Emergency Response Manual, personnel training, and categorizing resources to improve our ability to communicate when responding to an emergency. Public Works also worked through the Federal government to obtain Government Emergency Telecommunications System (GETS) cards for our administration, management, and key disaster response staff.





Winter Rainstorm Recovery

Public Works is committed to responding quickly and effectively in the event of storms and other disasters affecting our infrastructure. Public Works keeps the vast majority of our roads open and passable during the storms and, when appropriate, roads are closed for safety. Nearly five years ago during the 2004-05 Winter Rainstorms, 251 roadways were closed. To date, 247 are now reopened. A majority of the partially closed roads are scheduled to be fully opened by the end of 2009.

Public Works continues to work closely with the Federal Emergency Management Agency and Federal Highway Administration officials to maximize potential disaster assistance revenue. The total storm damage recovery expenditures are estimated at slightly over \$140 million with anticipated reimbursement slightly over \$70 million.

Strategic Planning

During this biennium, we continued to align our strategic direction with the goals, strategies, and objectives of the County's Strategic Plan and the County's performance management and monitoring program, Performance Counts!

The Department's Strategic Plan underwent a major redesign in 2006 with a focus on six Strategic Priority Areas: Customer Service, Employee Excellence, Safety, Enhancing Communities, Financial/Program Performance, and Infrastructure. The Department assigns high-level staff as lead persons for Strategic Priority Areas, Goals, and Objectives to assemble teams, implement the strategic initiatives, and adjust the Plan as initiatives are completed and new strategic issues arise. Acknowledging the Strategic Plan as a guide for the Department's long-term operations improved the alignment of the Department's strategic and budgetary priorities with the annual goal-setting process.

A continuing critical element of the Department's Strategic Plan is the Values Management Program. This Program aims to increase awareness of and adherence to a clear set of core values and implement initiatives in the areas of Workplace Ethics, Workforce Diversity, Equal Employment Opportunity, Communication, Women's Workplace, and Field Employees.

e-Government

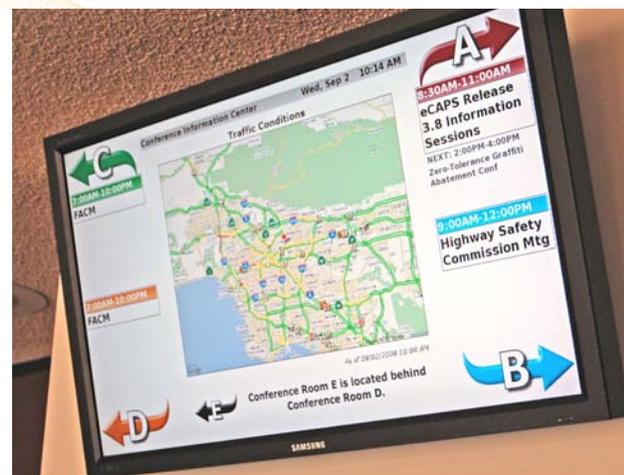
Public Works continues to improve and introduce new online e-Government services to better meet the needs of our customers. Our Internet site (www.dpw.lacounty.gov) continues to offer efficient, high quality, interactive services to keep residents connected 24 hours a day. Several new online services were introduced to increase the quality and availability of services and information, thus reducing the need to call or visit in person. We received over one million website visits per year and exceeded 10 million website hits per year.

2007-2009 Highlights:

- eNotify Alert System – Expanded this award-winning system to include a smart gardening component, recycling initiatives, and several environmental newsletters focusing on current issues of interest to the public. eNotify is an e-mail and text message notification system that provides Los Angeles County constituents with information on emergency notifications such as road closures, debris and mudflow forecasts, as well as scheduled events like Household Hazardous Waste collections, task force meetings, and many other activities organized by Public Works.
- Interactive Voice Response (IVR) Transit Programs – Implemented IVR to help Public Works track vendors who provide chartered bus service for special events throughout the County. The IVR system receives status updates from contracted bus drivers and utilizes built-in business logic to ensure prompt pick-up for the events. Exceptions and potential delays trigger an automatic call to Public Works staff to take further action. The system provides costing reports for each vendor in the five districts.
- Public Works Internet Website – Redesigned website to make it more user friendly and to be consistent with other County departments' look and feel. Enhanced search functionality and grouped information by customer group (Resident, Business, and Government).



- Road Closures Website – Redesigned website to enable the public to view closed roads within the unincorporated area of Los Angeles County using an interactive Google Maps based system. Commuters can plan their routes using closed roads information.
- Service Contract Bid Opportunities Website – Created website to help businesses or contractors obtain information for open Request for Proposals (RFPs) for Public Works service contracts. Key information such as conference date, due date, electronic solicitation documents, and addendum are accessible 24/7. Potential contractors can browse upcoming RFPs scheduled to be released for bidding.
- Press Room Website – Developed website to publish consolidated press-related information and updates into a central and easily accessible location. Public Works is dedicated to informing the news media, residents, and stakeholders about upcoming events, news, general services, safety tips, public education programs, publications, and resources.
- Integrated Regional Water Management Plan (IRWMP) Website – Helped manage multimillion dollars in water-related grants. New project documents are posted instantly and stakeholders are notified via e-mail. Meeting agendas, minutes, and upcoming events are posted on the site calendar for participants to review. The grant module tracks project spending and provides an easy-to-use interface to upload expenditures.
- Hasley Canyon Website – Provided the public with updates on construction activities, construction schedule, road closures, and future stages. This project will greatly increase the capacity of the interchange and local roadways to improve mobility, enhance safety, alleviate congestion and delay, and accommodate planned growth while minimizing impact on surrounding properties.
- Digital Signage – Installed digital signs at the Headquarters Lobby and Conference Rooms to make it easier for the public to find their way around the building and provide information for conferences, training classes, and meetings. This initiative replaced poster board announcements and eliminated the need to manually update bulletin boards.



- Water Resources Website - Developed website to provide the public and outside agencies with access to historic hydrologic data including rainfall, runoff, reservoir, and groundwater data. An interactive map application graphically depicts groundwater well locations linked to a database. Flood control and water conservation information is also available.
- Watershed Management Website – Provided information on flood risk management, water quality, water conservation, open space, and recreational needs of the Los Angeles County Flood Control District. The site models an upbeat design and promotes the importance of Watershed Management to the constituents of Los Angeles County.
- Waterworks District Home Banking Service – Provided Waterworks District customers with a convenient method to pay water bills online. This electronic payment program interfaces with the Waterworks Billing System for payment processing and to provide updates to thousands of customers on their balance and consumption.
- Building and Safety Website – Developed website to serve as a portal for citizens and contractors to obtain information regarding building codes and permit fees, and to enable them to report building or property violations using the online Report a Violation (RAV) system. RAV uses Geographic Information System technology to ascertain whether the property is within the jurisdiction of the Los Angeles County or another agency.
- Grading Activities Application – Developed application to enable field engineers to upload grading activity reports for geotechnical and materials engineering evaluation. It also enables the general public to check on permit application status, plan check project information, and other related grading activities.
- Customer Service Management Dashboard (CSMD) – Developed dashboard to enable customers to provide feedback to Public Works management by completing a very brief online survey available on our home page. The dashboard application enables management to measure and compare customer service performance across all divisions and address areas in need of improvement. CSMD includes e-mail notifications to alert division managers when a survey needs immediate attention.
- WebTrends and Rational Policy Tester – Analyzed web traffic to enable the Department to measure, test, and optimize customers' experience when they visit our websites. The online compliance tools assess privacy and accessibility compliance across all Public Works websites. These tools help the webmasters enhance site usability and visitor experience.



Workforce

The Department Vision is to be “the national leader in customer satisfaction and employee excellence.”

We are committed to employee excellence in our diverse workforce comprised of approximately 3,600 employees in over 500 different job classifications, including a large professional engineering staff (22 percent) and a large number of field workers (29 percent). Additionally, we are culturally diverse with at least 58 different ethnic groups represented in our workforce with employees speaking 27 different languages and born in about 70 different countries. This diversity reflects that of the residents of the County of Los Angeles and enhances our ability to serve the public.

One way our diversity is celebrated is through the Public Works Dragon Boat Team, “Team DPW,” that represented the Department in national competitions. Team DPW won one gold and one bronze medal in the 2007 Long Beach International Dragon Boat Festival and two gold medals and one silver medal in the Miami Hong Kong Dragon Boat Festival. In 2008, the team won two gold medals and one silver medal at the Arizona Dragon Boat Festival. In the same year, the team won one gold, one bronze, and one silver medal at the Miami International Dragon Boat Festival and two gold medals and one bronze medal at the Long Beach International Dragon Boat Festival. Their diverse cultural backgrounds, professions, age, and humor contributes to the dynamic spirit of the group and exemplifies the spirit of employee excellence at Public Works.

During this period, we participated as one of the sponsors of the County’s 10th Annual Multicultural Conference, titled “Continuing the Journey: Adapting to Change in a Culturally Diverse Society,” celebrating ten years of promoting cultural awareness and understanding and we were awarded the 2008 Multicultural Diversity Award for our Values Management Program as the best diversity initiative in the County of Los Angeles. In 2008, the Diversity Council members worked hard to raise awareness and educate all employees on diversity issues through monthly articles in the Diversity Corner, quarterly Diversity Forums and a variety of Employee Affinity Group celebrations and events including a four day “Holidays Around the World” celebration featuring music, arts and crafts, and dancing from different countries.

Numerous cultural and educational events were held by active committees and councils including:

- African-American Engineers and Professional Employees Association
- Diversity Council
- Black History Committee
- Filipino-American Public Works Employees Association
- International Committee
- Latino Heritage Committee
- Public Works Women's Leadership Council

This commitment to employee excellence was reflected in our recruiting efforts at 11 in-state universities and 48 universities across the country to recruit the best new engineers with diverse educational experience and academic preparation.

The job candidates were given an opportunity to visit the facility to observe the work environment and meet their future colleagues. In fall 2007 recruiting efforts, we hosted 49 recruits in on-site visits. We assisted with relocation expenses and the cost of preparing for the State Professional Engineering Licensing Examination. We provided a Civil Engineering Assistant Mentoring Program to assist in the transition to the work environment.

Employee excellence was also supported by our recognition that our employees meet new challenges every day and need to work in an environment of continuous learning. Bonuses were given to encourage and reward licensing in engineering specialties. We supported the acquisition of new skills with an extensive training program and a tuition reimbursement program. Our partnerships with local universities provided on-site university degree programs for Bachelor's of Public Sector Management, Master's of Business Administration, and Master's of Public Administration. Field employees developed their skills through a Field Operations Certification Program that gave them the opportunity to earn college credits and build knowledge of construction technology.

Another important area of focus for employee excellence was our aggressive safety program for our field and office employees. We provided extensive safety training through both on-the-job and formal programs. Safe work practices were rewarded in our Safety Awards Program, which annually recognized over 1,000 employees with gifts and savings bonds for safe driving and no lost-time due to industrial accidents. Our active Safety Committee ensured that employees were provided with updated safety equipment and work procedures. In addition, we developed a field ergonomics video to train field personnel proper procedures to avoid overexertion and cumulative trauma injuries.



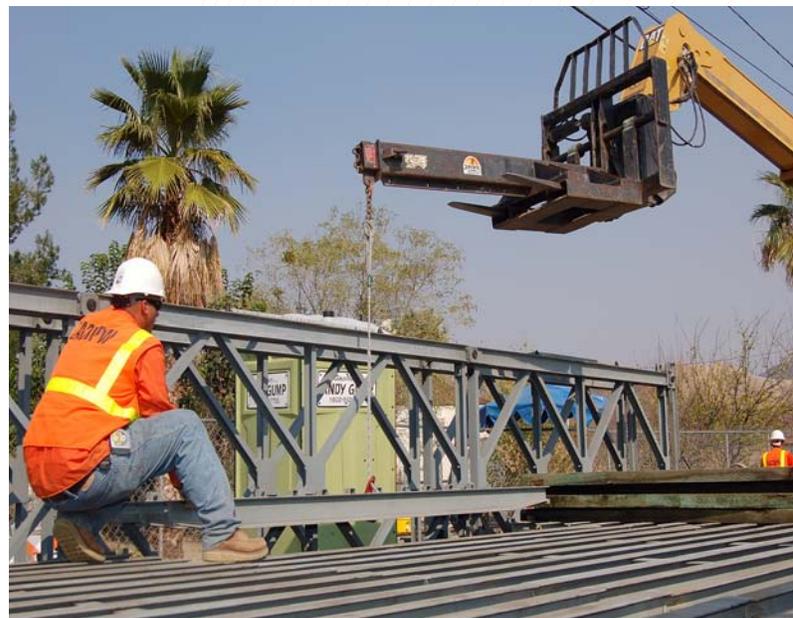


ROADS AND TRANSPORTATION

Public Works protects the County's investment in streets and highways through regular maintenance, improvement projects, and emergency response. Pavement patching, litter and debris removal, resurfacing, reconstruction, slurry seal, guardrail repair, street sweeping, landscaped median maintenance, vegetation control, maintenance of dirt roads and bike paths, traffic signal maintenance, bridge inspection and maintenance, tree trimming, snow removal, curb painting, pavement striping and marking, parkway improvements, and the maintenance of about 165,000 traffic and street name signs are a part of regular maintenance.

We are also responsible for the administration, engineering, and physical activities necessary to preserve nearly 5,000 miles of roadway infrastructure in a good state of repair in the unincorporated areas and numerous cities that contract for road maintenance services. Public Works maintains 3,215 miles of unincorporated area roads. Additionally, Public Works inspects and maintains a total of 507 bridges within the County Unincorporated Area.

Public Works also maintains 98 miles of Unincorporated Class I bike lanes along our flood control channels and at the beach. In addition, Public Works is responsible for the nearly 19 miles of Unincorporated Class II bike lanes and 30 miles of Unincorporated Class III bike lanes designated along the roadways in the unincorporated County areas. The County is proceeding with the development of a Bikeway Master Plan. The goal of the plan is to encourage the use of bicycling as a general means of transportation, enhance the safety of bicycle users, and provide guidelines for the development, expansion, and implementation of the County's bikeway system.



2007-2009 Highlights:

- Received two awards for the Polymer-modified Asphalt Surface Sealer (PASS) Chip Seal project that was completed in the unincorporated Antelope Valley (Lake Los Angeles and Littlerock areas). The project involved a chip seal using a special PASS CR (Chip Retention) emulsion which in addition to holding the rock chips also rejuvenates the underlying pavement. Then a coating of standard emulsion was placed on top in order to help retain the highest amount of chip and improve the final appearance. We utilized our own forces and \$1.2 million of Proposition 1B funding to treat 25 miles of local roadways during July and August of 2008. This project significantly upgraded the pavement quality on these roadways at a greatly reduced cost as compared to a conventional asphalt concrete overlay.
- Started various construction improvements along Rosemead Boulevard from Foothill Boulevard to the northerly boundary of Temple City. The improvements included pavement rehabilitation, reconstruction of damaged portions of sidewalk, construction of curb ramps, planting of trees along the sidewalk, median landscaping, parkway planters, installation of street lights, traffic signal modifications, and removal of utility poles, and placing utility lines underground. The utility undergrounding and installation of street lights began in 2008. The street improvements are scheduled to commence in fall 2009. The total construction cost is estimated at \$28 million.
- Began the seismic retrofit work for 27 bridges to enhance the safety of the motoring public. Major projects are Imperial Highway over San Gabriel River, Oak Grove Drive over the Arroyo Seco and Flint Canyon Wash, and Queens Way over Shoreline Drive.
- Initiated several landscaping projects throughout the unincorporated County area such as Amar Road and Slauson Avenue landscaping projects, and the Valinda Avenue Greening Project.
- Completed major projects during this period including widening the Beverly Boulevard bridge over the Rio Hondo Channel and the resurfacing and reconstruction of Central Avenue, Vermont Avenue, Dwiggins Street, Normandie Avenue, Fair Oaks Avenue, Avenue E, Altadena Drive, 3rd Street, Gale Avenue, Hawthorne Boulevard, and various retaining walls in the Santa Monica Mountains related to the 2005 storms.
- Completed Phases I and II of the East Los Angeles Tree Planting Program which included planting over 250 trees in the East Los Angeles community area. Phase III of the program includes planting over 500 additional trees by fall 2009.



- Completed planting 1,049 trees in Winter 2009 as part of a grant from the California Department of Forestry and Fire Protection. The project improved and beautified parkways along County roadways and promoted environmental awareness. It included educational outreach via planting 26 trees by students of Castaic Middle School in Castaic. The County will receive \$100,000 reimbursement.
- Continued the beautification of the County by improving the aesthetics on County highways and rights-of-way through the construction of four additional landscape median areas bringing the total maintenance area of landscaped medians to 345,700 square yards.
- Re-opened Vasquez Canyon Road within three weeks after it was destroyed by the Buckwheat Fires. The bridge carries over 7,000 vehicles a day and is an important local route. Utilizing two "Bailey" bridges the road was reopened through the efforts of Public Works staff. Public Works received a commendation from the Los Angeles County Board of Supervisors for the reopening of this bridge.
- Completed the planting of vines along the Burger Sound Wall adjacent to the Interstate 710 Freeway from Humphrey Street to Whittier Boulevard in March 2008 to abate the potential for graffiti.
- Redesigned the street sweeping routes and schedules for the West and South Whittier areas in October 2007 to coincide with new trash collection services schedules. This resulted in increased efficiency and cleaner streets by allowing the streets to be swept alternately following trash collection.

- Constructed two street monuments in March 2008 in East Whittier including one on La Mirada Boulevard just north of Leffingwell Road and the other on Lambert Road west of Grayling Avenue.
- Completed paving two dirt shoulders in May 2008 on Dunlap Crossing Road under the Interstate 605 Freeway in West Whittier to abate dust. We graded, built subgrade, and paved approximately 400 feet of twenty-foot-wide shoulders. The work incorporated the cooperation of the State of California Department of Transportation (Caltrans) and local utilities.
- Conducted extensive maintenance to extend the life of the Gerald Desmond Bridge in the Port of Long Beach which included sealing the bridge deck and replacing the keeper plates. This was a challenging project due to the size of the bridge and the large volumes of traffic which utilized the bridge. The Port of Long Beach funded nearly two million dollars and was pleased with the results.
- Completed slurry sealing of over 40 streets in the City of Lomita using premixed Type II Rubberized Emulsion Aggregate Slurry (REAS) totaling 900,000 square feet at \$375,000.
- Inspected and maintained 507 bridges in the unincorporated County along with the inspection of 943 city owned bridges. Public Works acts as agent for the State in conducting the safety inspection and evaluation of 1,244 highway bridges in the County under the National Bridge Inspection Program.
- Started construction on Interstate 5 (I-5)/Hasley Canyon Road Interchange Project, which included modifying the existing interchange by building modern roundabouts on the east and west sides of the I-5 Freeway, constructing a new bridge at Hasley Canyon Road over the I-5, realigning the existing northbound on-and off-ramps southbound on-and off-ramps connecting to The Old Road, and widening and seismically retrofitting the I-5 bridge over Castaic Creek. The project will greatly increase the capacity of the interchange and local roadways to improve mobility, enhance safety, alleviate congestion and delay, and accommodate planned growth while minimizing impacts on surrounding properties. The total construction cost is estimated at \$41 million, and the project is expected to be completed in December 2009.
- Awarded approximately \$81.5 million in grant funds for sixteen projects under the Los Angeles County Metropolitan Transportation Authority (Metro) 2007 Countywide Call For Projects (CFP). The CFP is a competitive grant process that Metro uses to rank and fund regionally significant transportation projects sponsored by local jurisdictions. Public Works again participated under Metro's 2009 CFP and submitted 24 applications. Based on Metro staff's preliminary project recommendations, Public Works expects to be awarded approximately \$75 million in grant funds for 12 applications.



Traffic

Unincorporated Areas

Public Works operates and maintains 1,836 traffic signals. Over 900 of these are wholly or partially owned by the County. Approximately 116,000 street lights within 20 cities and unincorporated County areas are also under our administration.

2007-2009 Highlights:

- Continued ongoing improvement program to upgrade aged, obsolete, energy inefficient, and unreliable County owned and maintained street lighting systems.
- Continued ongoing community involvement program where residents that opposed modern light upgrades could have a more reliable lighting system installed that maintained the nostalgic look of the older street lights.



- Continued mapping our street lighting facilities on a Street Lighting Geographic Information System (GIS). This application is now linked to Public Works' Intranet and is available to County staff, vastly improving our street light management capabilities.
- Installed a new decorative street lighting system on Cesar Chavez Avenue from Ford Boulevard to Mednik Avenue. This decorative system replaced the standard street lighting system with 37 double arms decorative lights. The County installed the underground conduit at a significantly lower cost than we would normally have paid Southern California Edison to install the conduit. Southern California Edison was responsible for pole/light installation, wiring, and all other work.
- Installed the County's first traffic control system located in our state-of-the-art Traffic Management Center at our Alhambra Headquarters. This system enables control and monitoring of traffic signals in real time. The system allows us to alter traffic signal timing from a remote location. In addition, monitoring traffic signal operation enables the immediate notification of signal malfunctions and results in a more efficient response to incidents and congestion. As of early 2009, we have 300 traffic signals on-line with our system. In addition, we also have four closed circuit television cameras installed to view remote images in real time to see actual traffic conditions and provide for a real time response to congestion. All of these signals use wireless radios to provide communications back to our Traffic Management Center.
- We continue to upgrade street name signs along the County arterial highways per a federal mandate. The newer signs have larger more reflective lettering and include the community name and County seal. In addition to providing a better guide to motorists, including emergency responders, the upgraded street name signs provide improved identity and pride to the unincorporated communities.

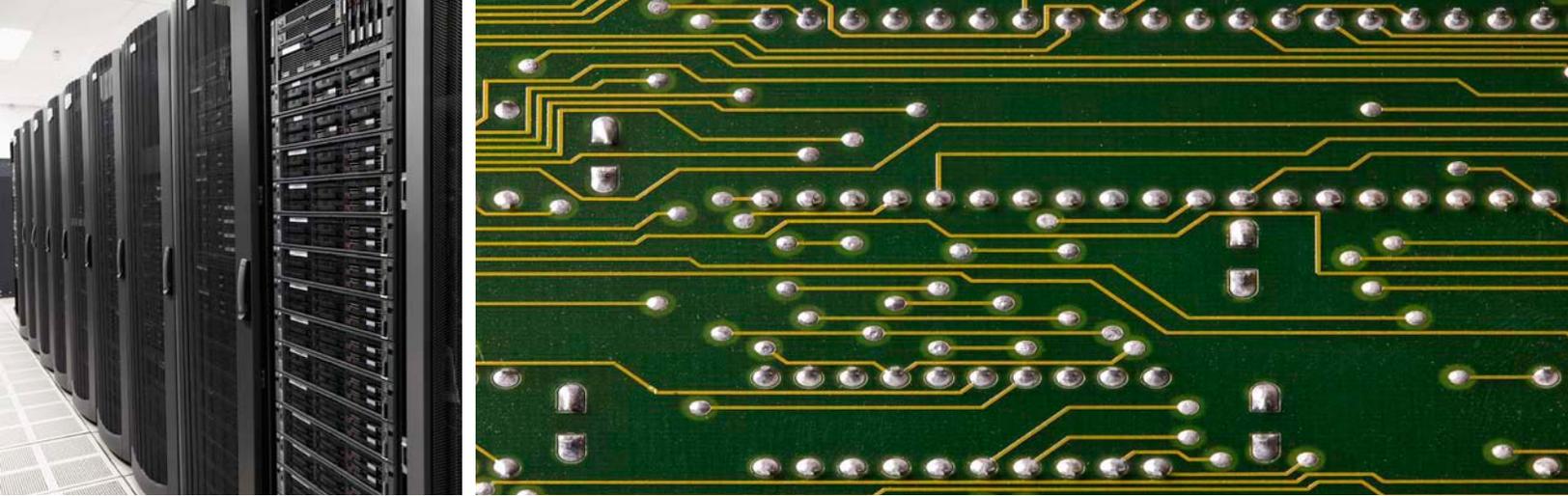
- Nearly 3,500 panel signs were installed in the Hacienda Heights, Rowland Heights, Topanga, East Whittier, East Los Angeles, Marina del Rey, Llano, Pearblossom, Antelope Valley, Littlerock, and Altadena communities during 2007-2009. Upgrades are underway in the Lennox and La Crescenta/Montrose communities, and the Department continues to work closely with the Chief Executive Office and Board Deputies in the development of the community names and boundaries.

Multijurisdictional Areas

Traffic Congestion Relief

Since 1988, Public Works was actively involved with Traffic Signal Synchronization efforts involving 66 cities. As of May 2009, we completed 122 projects on 81 routes, representing 2,334 intersections across Los Angeles County. These low-cost projects improve traffic signal operations by upgrading each traffic signal to Federal and State standards, providing additional vehicle detection to enable operation as a fully traffic actuated signal, and installing components in each signal to allow time-based coordination. The final component of a traffic signal synchronization project is the development and implementation of synchronized traffic signal timing. Traffic Signal Synchronization reduces congestion and travel time, improves safety and mobility and saves on vehicle maintenance costs due to the reduced need to stop at traffic signals.

In addition, there are tremendous environmental benefits. Estimates show that Traffic Signal Synchronization reduced travel times by as much as 29 percent, and saved motorists \$387 million in vehicle costs, 26.3 million travel hours, 32.6 million gallons of fuel, and 11,400 tons of pollutants on an annual basis. In addition to Traffic Signal Synchronization, Public Works is a nationwide leader in the deployment of the Intelligent Transportation Systems (ITS). Since 1995, with substantial funding provided by Metro, Public Works administered the Regional Traffic Signal Forum Program. Under the Program, Public Works also administered ITS projects in three major geographic areas, each comprising of approximately 20 cities. The ultimate goal of the Program is to ensure that each agency participates in the effort to coordinate traffic signal timing to provide regional integration of the County's major arterials across multiple jurisdictions. The primary ITS component of the Program involves the deployment of traffic control systems for the cities. A traffic control system enables once-per-second monitoring of traffic signals. It also monitors the operation of the traffic signals, and enables the detection of traffic signal equipment malfunctions, thereby facilitating a faster, more efficient maintenance response. Lastly, it has the capability of monitoring traffic conditions and collecting traffic data from loop sensors and video detectors.



2007-2009 Highlights:

- Completed construction of 20 traffic signal synchronization projects involving 450 intersections and 28 cities.
- Installed of the County's first traffic signal control system using a low-cost wireless communication system. This resulted in a cost savings, when compared to the alternative of using a leased telephone line, of over \$10 million and over \$30 million versus the cost of installing fiber optic communications.
- Connected over 300 County maintained traffic signals to the traffic control system located in the Traffic Management Center.
- Continued to install wireless communications at additional intersections Countywide.
- Actively assisted 20 cities to procure a traffic control systems for their agencies.
- Completed construction of a fiber optic communications line on Colima Road between Stoner Creek Road and Nogales Avenue, which included the installation of two closed circuit television cameras.
- Award of additional fiber optic construction contracts for:
 - ▶ Telegraph Road between Paramount Boulevard and Carmenita Road
 - ▶ Carmenita Road between Telegraph Road and Imperial Highway
 - ▶ Bloomfield Avenue between Telegraph Road and Emmens Way
 - ▶ Emmens Way between Bloomfield Avenue and the City of Santa Fe Springs Yard

- ▶ Firestone Boulevard between Stewart at Gray Road and Imperial Highway
 - ▶ Imperial Highway between Firestone Boulevard and Carmenita Road and between Paramount Boulevard to Bellflower Blvd.
 - ▶ Artesia Boulevard from Redondo Beach Boulevard/ Grevillea Avenue to Prairie Avenue
 - ▶ Prairie Avenue/Madrona Avenue from Artesia Boulevard to the City of Torrance Maintenance Yard
 - ▶ Torrance Boulevard from Earl Street to Amie Street
- Awarded a contract to install closed circuit television cameras at 41 key intersections along the above routes
 - Awarded a contract amendment for the County's traveler information system project. The amendment provided funds to implement, enhance, and operate the previously deployed system. The traveler information services to be provided under this agreement include:
 - ▶ CommunityView™-Internet (CV-I) – Provides travelers in Southern California with access to freeway traffic conditions at the following Internet sites: www.commuteview.net or www.commutecall.com.
 - ▶ CommunityView™-Cable TV (CV-C) – Provides cable television viewers in selected cities with access to local freeway traffic conditions.
 - ▶ CommuteCall™ BASIC – Provides an automated interactive voice response (IVR) system that gives travelers access to general freeway travel conditions through their telephone accessible at (888) TRIP-411.

In addition to the services mentioned above, the agreement will also provide for a suite of premium, subscription-based services. These services include:

- Commute View – Provides a personalized traveler information service that allows users to establish customized route specific information and receive traffic reports via e-mail or text message about their selected routes.
- Commute Call ENHANCED – Enables a user to obtain their Commute View route specific information via an automated IVR system. In addition, the user can obtain more specific freeway information not available via Commute Call BASIC.



Transit

At the direction of the Board of Supervisors, Public Works provides fixed-route transit services for the general public in East Los Angeles, Los Nietos, Avocado Heights, Bassett, West Valinda, East Valinda, Palos Verdes, South Whittier, Willowbrook, Rosewood, Acton, Agua Dulce, and several unincorporated areas of the Santa Clarita and Antelope Valleys. We launched two new services: the Rosewood Smart Shuttle in June 2008 and the East Valinda Shuttle in March 2009.

During the summer season, we operate shuttle services to the Ford Theater and the Hollywood Bowl from all over the County. We also provide summer beach shuttle service to County residents.

2007-2009 Highlights:

- Continued our partnership with Playa Vista Parks and Landscape Corporation, to provide free weekend community shuttle service to enhance the mobility and transit options for visitors and residents of Marina del Rey and Playa Vista, which helped towards reducing traffic congestion in Marina del Rey. This summer shuttle provided service between Marina del Rey, Playa Vista, and the Venice Beach Pier.

- In 2008, we added an extra route stop at Pamela Park to the Charter Oak Summer Beach Bus route in the unincorporated area near the City of Duarte. This provided an opportunity to the members of this community to utilize our service. We also added Saturday service to the Topanga Canyon Summer Beach Bus route.
- Due to the high fuel prices in summer 2008, the Beach Bus shuttle service provided an inexpensive alternative mode of transportation to the beach. The service continues to be a success with an increase in ridership growth of 35 percent during this biennium.
- Provided 299,000 paratransit trips to the elderly and individuals with disabilities in the unincorporated County areas.
- Through our private-public partnership program, provided transit users with cover at approximately 320 advertising display bus stop shelters throughout unincorporated County areas.

We installed an additional five non-advertising illuminated bus stop shelters that use solar power, 28 non advertising bus stop benches, and 60 trash receptacles at bus stops in unincorporated County areas. By the end of this period, we provided approximately 310 non advertising bus stop shelters, 160 non advertising bus stop benches, and 600 trash receptacles at bus stops in unincorporated County areas.





El Monte Airport

Aviation

Public Works oversees the operation, maintenance, and development of a system of five general aviation airports: Brackett Field in the City of La Verne, Compton/Woodley Airport, El Monte Airport, and General William J. Fox Field in Lancaster, and Whiteman Airport in Pacoima. In this biennium, we completed design and construction projects totaling approximately \$2.3 million.

2007-2009 Highlights:

- Acquired a new power sweeper for use at El Monte, Whiteman, and Compton/Woodley Airports.
- Completed the final phase of the Fox Field pavement rehabilitation project, reconstructing approximately eight acres of airport parking ramp.
- Completed design of El Monte Airport taxiway development project.
- Completed design of Brackett Field Airport lighting and signage upgrade project.
- Completed design of Compton/Woodley Airport ramp pavement rehabilitation project.

These capital projects are funded through a combination of Federal and State grants and Aviation Enterprise Funds, with no cost to the County General Fund.



San Gabriel Dam

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Public Works operates and maintains a complex system of flood protection and water conservation facilities to address water issues within the Los Angeles County Flood Control District (District). The District was established in 1915 under the Los Angeles County Flood Control Act and its boundaries encompass 2,752 square miles.

Specific objectives outlined within the Flood Control Act empower the District to construct, operate, and maintain a system of flood control and water conservation facilities that provide flood protection, increase local water supply, and meet Federal water quality standards. The District's powers are exercised through the County of Los Angeles Board of Supervisors acting as the District's governing body. Policy and planning, engineering and operations, and maintenance functions of the District are performed by three Public Works divisions: Watershed Management, Water Resources, and Flood Maintenance, respectively.

Major programs of the District are categorized as Flood Risk Management, Water Conservation, and Urban Runoff and Stormwater Quality. These programs are described as follows:

Flood Risk Management

This program includes planning, operation and maintenance, emergency storm response, storm rehabilitation, debris control, floodplain management, public service, and construction of storm protection facilities such as dams, channels, debris basins, storm drains, pumps, and removal of accumulated debris from reservoirs, debris basins, and debris retaining inlets.

Water Conservation

This program includes the conservation of storm flows, recycled water, and imported water by allowing the water to soak into groundwater basins for future use; seawater intrusion barrier projects that are designed to prevent saltwater from contaminating underground freshwater supplies; dam safety and debris removal projects that rehabilitate dams to withstand a maximum seismic event or probable maximum flood; reservoir clearance of accumulated debris to increase their water conservation as well as flood control storage capacities; and capture and treatment of urban runoff through multi-benefit projects. More than two-thirds of the region's demand for water is met by sources located outside the County, thus maintaining an adequate water supply is consistently a concern. The Water Conservation program is critical to meeting the demand for water and involves modernizing, automating, and improving District water conservation facilities such as the spreading grounds and the seawater intrusion barriers.

The District's groundwater recharge facilities' storage capacity exceeds 21,300 acre-feet. These facilities allow for stormwater runoff, imported water, and reclaimed water to be percolated back into the aquifers. These facilities are operated year round to replenish groundwater basins. Groundwater recharge operations during the 2007-2009 storm seasons captured enough water to serve 1.75 million people in the County for an entire year, assuming a single acre-foot of water is sufficient to provide two families of four a year's supply.

Urban Runoff and Stormwater Quality

This program includes the responsibility of Principal Permittee under the Los Angeles County Municipal Storm Sewer System National Pollution Discharge Elimination System (NPDES) Permit. Responsibilities include monitoring the flood control system for water quality, participating in the development of new stormwater and urban runoff water quality



Dominguez Gap Wetlands



Los Angeles River Headwaters

regulations to ensure they are technically and economically feasible, operating an illicit connection and discharge program to reduce the amount of nonpoint-source pollution entering the flood control system, and constructing low-flow diversions.

The Los Angeles County Municipal Stormwater NPDES Permit expired in December 2006. Federal law stipulates the continued implementation of its programs until a new permit is issued. A new permit is expected in 2010, the negotiations for which began in spring 2009.

2007-2009 Highlights:

- Documented the 2007-2008 storm season as slightly below that of a normal rainfall year. The annual rainfall total in the downtown Los Angeles area was 12.9 inches, just below 85 percent of the average rainfall recorded in the past 135 years. The 2006-2007 storm season produced 3.6 inches of rain in the Los Angeles basin, the driest year on record.
- Initiated construction of the Big Tujunga Dam Seismic Rehabilitation and Spillway Modification Project to upgrade the dam to meet current State seismic and spillway capacity requirements. Upon completion, this estimated \$100 million project will improve the seismic and flood safety of the dam and increase its water conservation capacity by 4,500 acre-feet, resulting in increased local water supply and enhancements to downstream habitat. Project construction costs will be offset by \$30.5 million in outside funding consisting of a \$14.9 million Federal Emergency Management Agency Hazard Mitigation Grant, a \$6.6 million in State Proposition 13 Groundwater Storage Grant, and \$9 million in cooperative funding from the City of Los Angeles Department of Water and Power.
- Enhanced the District's flood warning system by using satellite technology to transmit real-time data. Extended the real-time data transmission in areas that lack coverage by installing 17 ALERT rain gages. Grants from the National Oceanic and Atmospheric Administration (NOAA) were used to partially fund these two projects.

- Participated in Integrated Regional Water Management Planning efforts. In 2008, the Antelope Valley and Upper Santa Clara regions joined the Greater Los Angeles County region in adopting Integrated Regional Water Management Plans (IRWIMP). The Greater Los Angeles County region also received a \$25 million Proposition 84 Implementation Grant that year.
- Provided mudflow protection advice to over 345 residents in Catalina, Castaic, Kagel Canyon, Lopez Canyon, Malibu, Santa Clarita, Sierra Madre, Sylmar, Twin Lakes, and Val Verde as a result of the fires in these areas that occurred in 2007 through mid-2009. Many residents within and below the burned areas faced significant risk of mudflow damage.
- Implemented numerous temporary post-fire debris protection measures in several 2007-2009 fire areas (Ranch, Santa Anita, Marek, and Sesnon Fires) to provide enhanced post-fire debris protection to potentially impacted neighborhoods while the burned hillsides recover. Public Works installed two rail and timber structures in Castaic, two structures in Val Verde, three structures in Sierra Madre, one structure in Kagel Canyon, one structure in Lopez Canyon, and one structure in Brown's Canyon at an aggregate construction cost of approximately \$4.6 million. A significant portion of the cost is being reimbursed by the Natural Resources Conservation Service.



- Public Works also enlarged its Sturtevant Debris Basin in 2008-2009 to provide enhanced post-fire debris protection to potentially impacted Sierra Madre residents in the Santa Anita fire area. The cost of constructing the project was approximately \$1.1 million. A significant portion of the cost is being reimbursed by the Natural Resources Conservation Service under its Emergency Watershed Program.
- Assisted the Santa Catalina Island Conservancy in its installation of four temporary debris barriers in Swains and Gallagher Canyons at a cost of approximately \$900,000. These barriers were installed in the wake of the 2007 Island Fire to protect potentially impacted campgrounds while the burned hillsides recover.
- Federal Emergency Management Agency (FEMA) initiated a Map Modernization Program in 2007 that required local jurisdictions to certify levees within their respective flood protection systems. District officials continue to perform the studies necessary to demonstrate compliance with the 100-year flood protection mandate.
- District officials assisted the County's Chief Executive Office to develop a water quality funding measure. If approved by parcel owners within the District, the revenue derived from the measure would provide a long-term, sustainable funding source for District-wide water quality operations and maintenance.
- Completed \$2 million restoration of San Dimas Canyon Spreading Grounds after the 2004-2005 storms washed out the basins.
- Completed \$1 million project for emergency replacement of spillway structures at Rio Hondo Coastal Basin Spreading Grounds, which were in danger of failing.
- Completed 150,000 cubic yards of sediment removal at San Gabriel Coastal Basin Spreading Grounds to restore percolation rates at a cost of \$2.2 million.
- Began construction of Hansen Spreading Grounds Basin Improvement to expand capacity and inflow to increase water conservation by an estimated 1,200 acre-feet per year at a cost of \$7.2 million. The Los Angeles Department of Water and Power will contribute \$3.6 million toward the construction of the project.
- Completed installing a \$1.5 million drain from Irwindale Spreading Basin to Manning Pit. The drain will allow for regular maintenance of the basin and is expected to increase the percolation rate from less than one cubic feet per second (cfs) to over 20 cfs.

- Partnered with Central Basin Municipal Water District and the City of Pico Rivera to install an irrigation reclaimed trunk pipeline along Mines Avenue to serve the City of Pico Rivera's park landscaping and the Rio Hondo Coastal Basin Spreading Grounds and San Gabriel Coastal Basin Spreading Grounds landscaping needs in the future.
- Brought the Marie Canyon Water Quality Improvement Project online in October 2007. Using multimedia filters and UV-light, the system shows immediate results in reducing viruses and bacteria at Puerco Beach in Malibu. Within the first month, fecal coliform, enterococcus, and other indicator bacteria were reduced by 99.9 percent.
- Opened Tujunga Wash Greenway and River Revitalization to the public in October 2007. This joint project between the District and Santa Monica Mountains Conservancy brings plant and animal habitat, water quality enhancement, groundwater replenishment, and passive recreation to a one-mile reach of the Tujunga Wash.
- Opened Dominguez Gap Wetlands to the public in May 2008. The 50-acre constructed wetlands and spreading grounds maintains the integrity of flood protection along the urban lower reaches of the river while introducing new water quality elements, groundwater recharge, restoration of native habitat, pedestrian and equestrian trails, environmental education, and multi-use trail enhancements.

Tujunga Wash Greenway





WATERWORKS

Public Works operates and maintains five Los Angeles County Waterworks Districts and the Marina del Rey Water System to provide drinking water to more than 200,000 residents.

2007-2009 Highlights:

- Awarded \$35 million in contracts that included installation of approximately 28,000 linear feet of pipelines; rehabilitation of the interior coating of three water storage tanks; and construction of a three-million-gallon storage reservoir, three new booster pump stations, 11 groundwater extraction/injection wells, and 19 disinfection facilities.
- Awarded a \$2.5 million contract to replace the Los Angeles County Waterworks Districts' billing system with a state-of-the-art Customer Information System that will provide online customer account management tools and increase billing efficiency and accuracy.

- Improved the Los Angeles County Waterworks District No. 40, Antelope Valley, water supply reliability by participating with the Antelope Valley/East Kern Water Agency in constructing two miles of 48-inch water transmission main to increase water supply into District No. 40.
- Completed an Environmental Impact Report (EIR) for the North Los Angeles/Kern County Regional Recycled Water project – the “backbone” for recycled water transmission and distribution system for the Antelope Valley.
- Installed State-grant-funded solar-powered mixers at six reservoirs to maintain water quality.
- Completed the Antelope Valley Integrated Regional Water Management Plan. The Plan addresses regional concerns pertaining to water supply reliability, water quality, flood protection, environmental resources, and land use management in the Antelope Valley.
- Implemented a comprehensive water conservation program that includes rebates for water-efficient devices and activities, free water-use surveys, community outreach, and tiered-water-rate structures.
- Implemented and completed actions to minimize the impact of a State-declared drought on the Los Angeles County Waterworks Districts’ customers and County residents.





- Secured \$900,000 in grant funding from the State for programs and projects to improve water conservation and water supply reliability.
- Implemented a comprehensive Well Maintenance and Efficiency Program and rehabilitated 14 wells to improve water production and quality and extend the wells' life expectancies. The rehabilitation resulted in a 36 percent increase in the wells' production capacity and 21 percent overall improvement in efficiency.
- Implemented a Pump Maintenance and Efficiency Program and replaced 24 motors and/or pumps that resulted in the award of approximately \$50,000 in cash rebates from Southern California Edison Company and an annual energy savings of over 850,000 kilowatt hours, enough energy to power 142 homes.
- Repaired approximately 200 water main leaks with minimum disruptions of water service to customers.
- Avoided disruption of water service to customers during the 2008 Wild Fires.
- Continued the 13-module, in-house training program for engineers and the Water Treatment and Distribution Certification Program for field staff.



SEWER MAINTENANCE

Public Works administers two Sewer Maintenance Districts. These are the Consolidated Sewer Maintenance District and the Marina Sewer Maintenance District, serving a population of approximately 2.5 million people within the unincorporated County area and 42 cities. The Districts are responsible for the protection of the health and welfare of the public by providing continuous and uninterrupted operation of the local sewage system. This system consists of 5,247 miles of collector sanitary sewers, 155 pump stations, and four small wastewater pollution control plants, three in Malibu and one in the Lake Hughes area.



2007-2009 Highlights:

- Rehabilitated 22.2 miles of deteriorated cement pipe sewer lines at a cost of \$2.8 million.
- Rehabilitated plastic lining of 3.25 miles of sanitary sewer in Marina del Rey to minimize the infiltration of seawater into the sewer system.
- Televised 986 miles of sewer lines to evaluate the structural condition of the sewer pipes under the Districts' Condition Assessment Program.
- Performed preventative maintenance cleaning of 4,653 miles of sanitary sewer lines.
- In 2007 and 2008, prepared and mailed Sewer Annual Reports to inform customers about the Districts' activities.
- Provided responsive sewer service with minimal or no increases in charges to our customers which continues to be a foremost priority.
- Completed the Sewer System Management Plan for the Sewer Maintenance Districts' collection sewer systems as required by State law.
- Completed the rehabilitation of the Trancas Wastewater Treatment Plant.



ENVIRONMENTAL PROGRAMS

As the lead advisor to the Board of Supervisors on solid waste management issues, and a State leader in resource conservation and environmental protection, Public Works plans, and manages solid waste diversion and disposal Countywide. Public Works provides waste collection services to unincorporated County communities through a vast franchise and garbage disposal district system. It also provides industrial waste permitting and inspection services in unincorporated County communities and 38 contract cities, and hazardous material underground storage tank permitting and inspection services in unincorporated communities and 77 cities. Furthermore, Public Works manages and operates various programs to promote recycling and waste reduction in the public and private sectors, including the largest household hazardous and electronic waste management program in the nation.

Solid Waste Programs—Unincorporated County Areas

2007-2009 Highlights:

- In 2009 , the State certified that the unincorporated County areas achieved a diversion rate of 54 percent for the 2006 compliance year.
- Operated seven Garbage Disposal Districts (GDDs) serving a population of approximately 360,000 residents within the unincorporated areas and a portion of the City of Malibu.

- Renewed contracts for automated waste collection and recycling services for two GDDs on July 1, 2008, and extended the GDDs' services to the commercial sector.
- Accelerated the implementation of a franchise system for residential waste collection services in unincorporated communities. This system provides high-quality, automated waste collection and recycling services at competitive rates for communities not serviced by GDDs. As of January 2009, there were 13 franchise areas in operation.
- Once fully implemented, the franchise waste collection system will provide waste collection and recycling services to over 700,000 unincorporated area residents and will fund programs to enhance waste reduction and recycling.

Solid Waste Programs—Countywide

2007-2009 Highlights:

- Coordinated and implemented over 64 events throughout the County to educate and promote recycling and environmentally friendly practices. To further enhance our educational outreach, Public Works joined the Los Angeles County Fair's "Going Green - A World of a Difference" exhibit. This major event had an audience of over 1.4 million people. Another successful event and partnership included the City of Los Angeles and Universal Studios Hollywood at the Eco-Green event.
- Assisted 379 businesses by providing free recycling consultations through the Business Recycling Program.
- Received over 1.26 million hits, averaging over 52,500 per month, on the www.888CleanLA.com website and over 109,000 calls on the 1(888) CLEANLA hotline.
- Conducted 14 free Waste Tire Collection Events where approximately 1,000,000 pounds of waste tires were collected from residents and recycled into useful products such as playground matting and rubberized asphalt concrete which the County uses in many of its street rehabilitation projects.
- Conducted over 200 Smart Gardening Workshops and Regional Events throughout the County where residents learned about composting, drought tolerant landscaping, and fire-wise gardening.
- Recycled more than eighty percent of the construction and demolition debris generated by over 300 projects, diverting over 70,000 tons of debris from landfill disposal.

- Presided over Los Angeles County's most complex solid waste management system in the nation, comprising of 11 Class III landfills, 13 inert waste landfills, over 60 materials recovery, transfer and processing facilities, and over 100 waste haulers.
- Coordinated the activities of the Los Angeles County Solid Waste Management Task Force which is comprised of 17 members representing the League of California Cities, the County Board of Supervisors, the City of Los Angeles, solid waste industries, environmental groups, governmental agencies, and the private sector.

Hazardous Material Underground Storage Tank Program

The Underground Storage Tank Program covers the unincorporated areas and 77 cities. During this biennial period, over 2,200 applications for modifications were approved, 4,600 inspections performed, and over 230 contaminated sites were brought into compliance with State law and issued closure.

Household Hazardous Waste/E-Waste (HHW/E-Waste)

The Countywide HHW/E-Waste Management Program conducted over 123 free Saturday drop-off events in various cities and unincorporated areas during this biennium.



2007-2009 Highlights:

- Over 130,000 households participated.
- Collected more than 9.5 million pounds of HHW and collected over 3.7 million pounds of electronic waste.
- Expanded services to include household battery collection at designated County libraries.
- Implemented a Countywide Sharps Waste Management Program which includes providing residents with free state-approved sharps containers for the proper collection of medical needles, syringes, and lancets.

Permanent Centers

The Antelope Valley Environmental Collection Center is open to residents to dispose their HHW/E-Waste. Over 12,000 households disposed approximately two million pounds of HHW and electronic waste at this site. New centers are being planned in coordination with the Cities of Long Beach, Azusa, and Calabasas.

Public Works also operates nine permanent used oil collection facilities where residents can dispose of their used motor oil and oil filters for free. Over 40,000 gallons of used oil were collected at the centers. An additional 75,000 gallons of used oil and over 3,500 gallons of oil filters were collected at the HHW/E-Waste mobile drop-off events.

Single-Use Bag Reduction and Recycling Program

To reduce the impact of litter on the environment from single-use carry out bags such as plastic and paper bags used at stores, the Board of Supervisors adopted the Single-Use Bag Reduction and Recycling Program on January 22, 2008. The Program was developed in collaboration with environmental groups, plastic bag industry groups, governmental agencies, and members of the public. The goals of the Program are to encourage consumers to utilize reusable bags when shopping; to work with stores to reduce the consumption of single-use bags; and to promote recycling of plastic bags. Visit the Program website at: www.bragaboutyourbag.com.

Polystyrene Food Container Alternatives and Recycling

In an effort to make environmentally preferable food container products available at County departments, we are evaluating alternatives to food containers made from polystyrene (Styrofoam™). Alternatives may include reusable, biodegradable, or recyclable cups, plates, and take-out boxes. Current polystyrene consumption and waste management practices are being analyzed at County facilities to determine products and methods that



are environmentally preferable and conducive to litter reduction. Additionally, we are investigating opportunities to recycle polystyrene products in an effort to promote recycling where health, safety, or economic considerations favor recycling over alternative products.

Sunshine Canyon Landfill

Public Works, in coordination with other departments, facilitated the permitting, expansion, and joining of the Sunshine Canyon Landfill, and County and city landfills. The combined Landfill has a remaining capacity of 70 million tons and will provide \$366 million of revenue to the County through 2037, of which, \$162 million will be used to enhance waste reduction and recycling programs, and to research and develop alternative-to-land-filling technologies. The Landfill will also provide \$34 million for programs and improvements that directly benefit the adjacent communities to the Landfill.

Solid Waste Information Management System (SWIMS)

Public Works developed the award-winning web-based Solid Waste Information Management System to track the 23 million tons of trash generated in Los Angeles County from curbside to disposal for the 89 jurisdictions in the County.

Solid Waste Management Fee

Public Works worked closely with industry stakeholders to obtain approval from the Board of Supervisors on October 21, 2008, for a revised Countywide Solid Waste Management Fee (Fee) Ordinance which increased the Fee from \$0.86 to \$1.50 per ton of waste disposed at solid waste landfills and transformation facilities effective

January 1, 2009. The revised Ordinance will provide much needed funding for Countywide solid waste management planning efforts.

Blue-Fire Ethanol Bioconversion Plant

In 2008, Public Works provided technical expertise to the Department of Regional Planning as part of the Conditional Use Permitting process for the Blue-Fire Ethanol Bioconversion Plant. The Plant was the first acid hydrolysis facility permitted in the State. The facility will convert green waste and wood waste to ethanol. This is the first step in a series of efforts Public Works is undertaking to change the way solid waste is viewed and effectively managed within the State.

Conversion Technology

Public Works is a national leader in developing safe and environmentally-sound solid waste conversion technology facilities that are capable of turning municipal solid waste into useful products, renewable energy, and biofuels. After years of research, Public Works will soon be making a recommendation to the Board of Supervisors for the development of one or more conversion technology demonstration facilities in Southern California. The demonstration facilities will be the first of their kind in the United States. In parallel, Public Works is pursuing the development of commercial scale facilities in Los Angeles County capable of managing the County's waste stream.



Solid Waste Policy and Legislative Analysis

Public Works is a central point of contact for the County in tracking policy and legislation as they relate to solid waste management. Public Works reviewed and prepared analyses, recommended positions, and wrote letters regarding hundreds of proposed environmental bills, regulations, and policy issues in 2007 through 2009. In 2008, the Board of Supervisors adopted a resolution in support of Extended Producer Responsibility (EPR) to encourage producers to mitigate or eliminate the negative environmental impacts of their products. In response, Public Works staff applied for and was appointed to the Board of Directors of the California Product Stewardship Council, providing Public Works with greater influence to affect positive change and promote EPR. Public Works, in collaboration with the Chief Executive Office, also actively supported Statewide EPR legislation. Additionally, Public Works led the way to reduce the environmental impact of littered single-use bags by pursuing legislation to reduce their use.

The Global Warming Solutions Act of 2006 (Assembly Bill 32)

Public Works continues to play a significant role through the County's Energy and Environmental Policy Team, and other collaborative organizations, to develop a County framework and programs to comply with the California Global Warming Solutions Act of 2006 (Assembly Bill No. 32; California Health and Safety Code Division 25.5, Sections 38500, et seq., or AB 32), which requires California to reduce its greenhouse gas emissions to 1990 levels by 2020.

Stormwater Inspections

Public Works inspected approximately 4,500 sites in the unincorporated areas to ensure that the Best Management Practices were in place to prevent stormwater pollution during 2007-2009. Also, Public Works conducted investigations and enforcement on approximately 70 facilities where illicit discharges and other stormwater pollution activities occurred. In addition, Public Works also launched the Stormwater Home on the Internet to promote cohesive pollution prevention efforts throughout the County.

School Education - Environmental Education Programs

The Environmental Defenders is a model public outreach program, reaching young children in grades K-6 with important messages on source reduction and stormwater pollution prevention and inspiring measurable, positive environmental action. During 2007-2009, the Environmental Defenders program reached 1,009 schools reaching about 467,500 students. We also participated in 39 community events providing key environmental messages to families.



Generation Earth is an environmental education program providing training and personalized support to secondary schools, teachers, and students throughout Los Angeles County. During the 2007-2009 fiscal years, this program worked with more than 550 teachers, educating approximately 56,400 students at 352 unique schools, potentially impacting over 454,400 students.

In addition, during the biennium, Generation Earth schools completed over 700 projects, ranging from simple recycling projects to complex watershed restoration on campuses and in communities. Through this program, students are encouraged to explore solutions to environmental challenges they face on their campus and within their community. By participating in environmental service projects, these students are empowered to make changes that positively influence our environment.

Countywide Used Motor Oil and Filter Recycling

The Used Motor Oil and Filter Recycling Campaign is funded by the California Integrated Waste Management Board. The program aims to increase County residents' awareness of recycling used motor oil and filters and to encourage residents to recycle these products at State-certified collection centers.

During 2007-2009, we conducted radio advertisement on KFWB News 980 and Latino 96.3 which reached our target audiences, and motivated them to recycle used motor oil and filters and to take them to Certified Collection Centers (CCCs), or Public Works sponsored HHW/E-Waste collection events. Through the advertisement, we sustained

awareness among Do-It-Yourselfers of the harmful effects of improper disposal of used motor oil and filters on the environment.

We also conducted a media campaign reaching the Korean, Vietnamese, and Cambodian residents of Los Angeles County. Our public service announcements on various in-language television and radio stations educated residents to recycle used motor oil and filters and take them to a CCC or a HHW/E-Waste collection event.

In addition to radio, we developed a newspaper ad for the Korean, Vietnamese, and Cambodian communities. The ad also created awareness among the target audiences about the harmful effects of improper disposal of used motor oil and filters on the environment.

The oil filter collection program continued at 44 Kragen stores. The program collected 66,000 (January 2007 – April 2008) used oil filters. In addition, we collected about 127,600 gallons of used motor oil (July 2007 – June 2008) at CCCs under County jurisdiction.

As cosponsor, the Department also funded five oil filter exchange events implemented by the Cities of Maywood, La Mirada, Lawndale, Norwalk, and Baldwin Park. In return, the Cities acknowledged the County and Public Works on their flyers.





Graffiti Abatement

Under the Board's direction, Public Works established a Graffiti Abatement Program that consists of graffiti eradication, education and enforcement. Public Works continued to provide graffiti removal in hundreds of miles of flood control channels, and in the County's designated 21 Zero Tolerance Zones (serving over 55 County unincorporated areas).

The education component of the program involved actively participating in community town hall meetings, task forces, Neighborhood Watch meetings, and More Advocates for Safer Homes (MASH) groups informing constituents about our program, asking them to report graffiti anonymously to our 24-hour toll-free "Graffiti Hotline" and to never confront taggers.

Public Works also continued to work in partnership with law enforcement to provide information and photographs that would assist them in apprehending graffiti vandals.

Overall, Public Works received over 30,000 calls annually identifying more than 45,000 locations for needed graffiti removal. We continued to use our state-of-the-art Graffiti Abatement Referral System to assist staff, as well as constituents to instantly report requests for graffiti removal electronically.



LAC+USC Medical Center

CONSTRUCTION AND DEVELOPMENT

Public Works issues permits, enforces building codes, ensures proper land development, and develops and implements complex capital projects, as well as designs and prepares plans for small to medium sized County capital projects. Also under our purview are the acquisition, rental, sales, and lease of County and special district-owned property; surveys and topographic mapping for design and construction engineering activities; operation of state-of-the-art testing laboratories; and serving as Materials Engineer to other County departments and several cities.

Building Construction

Public Works verifies the safe construction and occupancy of buildings through enforcement of the County Building Code. Building inspectors located at field offices throughout the County inspect residential, commercial, and industrial construction on private property for compliance with structural, architectural, grading, electrical, mechanical, and plumbing codes and standards. Design drawings are reviewed for code compliance by plan check staff consisting of civil, electrical, and mechanical engineers. During this biennium, development and construction activity experienced a downturn from previous cycles yet the total number of building permits issued for the County unincorporated area and seventeen incorporated cities exceeded 42,000 permits with a construction valuation of over \$2.8 billion.

In our continuing efforts to serve local communities and to allow greater accessibility to constituents, a new Building and Safety Permitting Office opened on February 17, 2009, in the unincorporated Athens area. The new Southwest Permitting Office serves communities in three Supervisorial Districts while providing over-the-counter plan review and permitting, engineering review, building inspection, and code enforcement services.

In addition, Public Works continued the Property Rehabilitation Program which raises public awareness about the importance of property maintenance and code enforcement. Nuisance Abatement Teams serve low-income areas in a coordinated multi-agency effort to promote neighborhood preservation through code enforcement.

Neighborhood Enhancement Teams and Commercial/Industrial Area Enhancement Teams also provide enhanced code enforcement in targeted areas. More than 7,000 complaints were received and investigated by this combination of agencies, resulting in the cleanup or repair of more than 3,600 substandard properties and code violations during the biennium.

On January 1, 2009, Public Works, in conjunction with the Department of Regional Planning, implemented the County of Los Angeles Green Building Program. This program serves to allow more environmentally sensitive and energy saving buildings through codified requirements of building construction techniques. The program applies to most new residential and commercial buildings and will net savings of carbon emissions to the environment, diversion of construction and demolition waste, and water conservation. In providing public assistance and promotion of the Green Building Program, Public Works assists homeowners, builders and design professional in green building technologies and sustainable construction practices.

Capital Projects

Throughout the 2007-2009 biennium, 145 capital projects were managed valued at over \$1 billion. Of those, 40 projects were completed valued at over \$195 million, in addition to the Los Angeles County+University of Southern California Medical Center Replacement Project (LAC+USC Medical Center). These capital projects were developed for the Chief Executive Office (CEO), Superior Court, Sheriff, Fire, Health Services, Parks and Recreation, Probation, Public Libraries, Beaches and Harbors, and Public Works.

Acton Agua Dulce Library





LAC+USC Medical Center

In addition to completing the new LAC+USC Medical Center, other noteworthy projects included Harbor-UCLA Medical Center Surgery/Emergency Replacement, Centinela Area Probation Office, Athens Sheriff Station, and five new libraries.

Public Works actively implemented new contracting authority that was approved by the Legislature allowing Public Works to use the design-build method of contracting for buildings and facilities. Design-build provides an additional contracting strategy that showed great potential both in the public and private sectors to provide better results and more efficient delivery. In June 2008, the Board approved the Department's design-build policy and procedures, and Public Works is in various stages of implementing more than ten projects of various sizes and types.

2007-2009 Highlights:

- LAC+USC Medical Center Replacement Project - This project was the single largest capital project ever undertaken by the County of Los Angeles. The \$1 billion project replaced the 80-year old aging landmark: Los Angeles County General Hospital which was featured in the famous television show "General Hospital." The hospital was functionally obsolete and badly damaged in the 1994 Northridge earthquake.

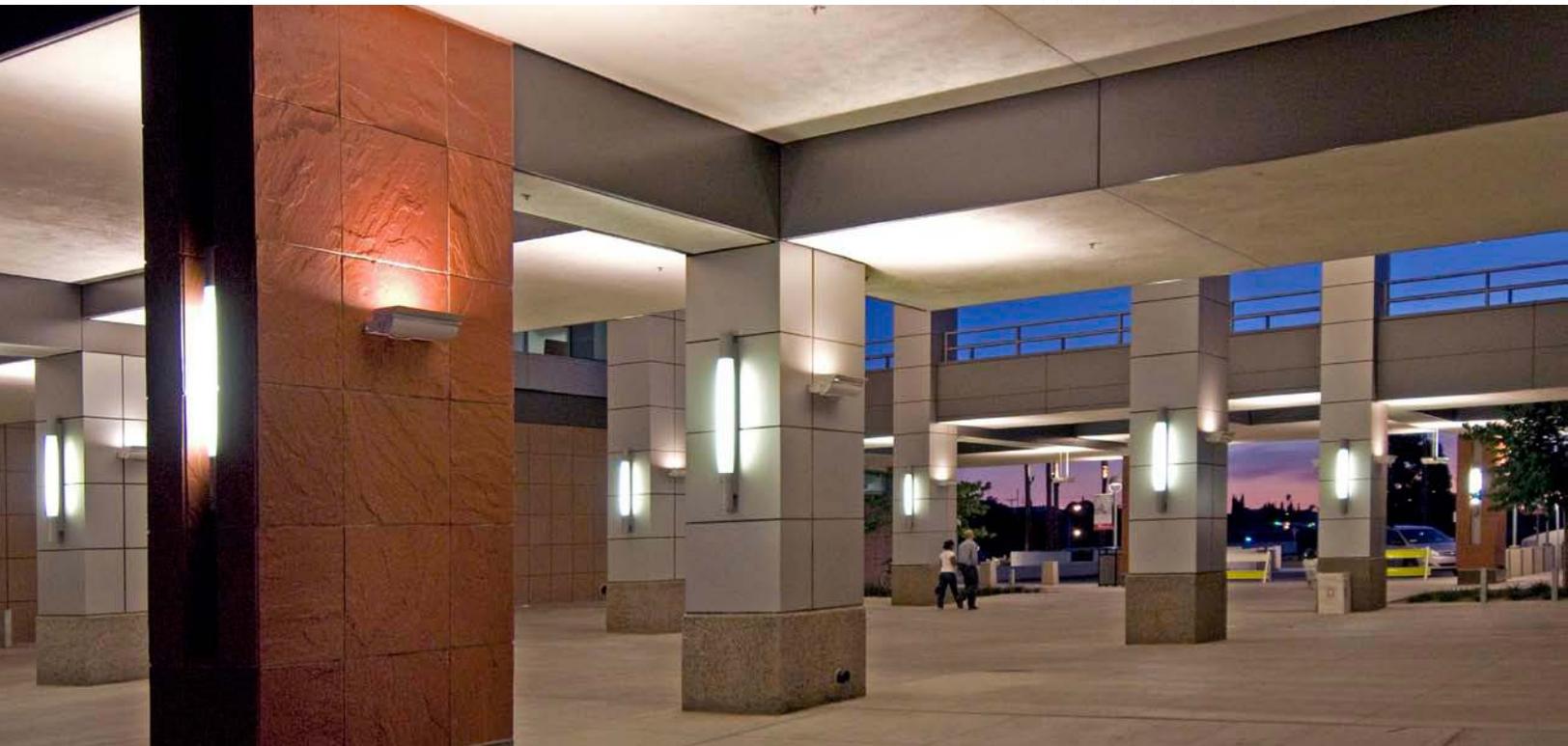
The new facility is now configured to make high quality health care accessible and affordable to the County's 10 million residents. The new facility's building systems were strengthened beyond code requirements to ensure the hospital could provide emergency services following a major earthquake.

The LAC+USC Medical Center provides a full spectrum of emergency, inpatient, and outpatient services. These include medical, surgical, emergency/trauma, obstetrical, gynecological, pediatric, and psychiatric services. The new facility accommodates 175,000 emergency, 40,000 inpatient, and 350,000 specialty clinic visits a year.

The new hospital also replaces five existing hospital facilities and consists of approximately 1.5 million square feet of building space.

Public Works employed a sophisticated approach to planning, designing, and constructing this project, and achieved impressive results. To illustrate the magnitude of the work for the new facility, it took a team of more than 25 specialty design consultants to prepare more than 5,000 sheets of construction drawings for this project. The contractor had a team of more than 85 specialty subcontractors working with them to build the new facility, and had as many as 1,000 workers on site during the peak of construction. The contractor installed 75,000 cubic yards of concrete, 33 million pounds of structural steel, 10 million square feet of drywall (enough to cover 186 football fields) more than a mile of metal hand rails, 8,000 doors and almost 20,000 light fixtures.

LAC+USC Medical Center





Olive View-UCLA Emergency Services Replacement and Tuberculosis Unit Project

- Sun Valley Health Center - Completed construction of this facility in January 2008 with a total project cost of \$7,406,000. The Sun Valley Health Center is a new school-based clinic, approximately 10,800 square feet in size, located at the Sun Valley Middle School on Los Angeles Unified School District (LAUSD) property in the Sun Valley area of the City of Los Angeles. The clinic is the largest and most comprehensive school-based clinic in the United States with free and low-cost services that will include preventive care, chronic diseases management, dental care, mental health, and adult and pediatric medicine. The Sun Valley Health Center represents a unique partnership between the County of Los Angeles, David Geffen School of Medicine at UCLA, LAUSD, and Northeast Valley Health Corporation.
- Harbor-UCLA Medical Center Surgery/Emergency Replacement Project - This project was awarded as a design-build contract and will add 190,300 square feet to replace the surgery, emergency, and central sterile facilities at this facility. The \$344 million new build will house 16 operating rooms and 80 emergency/trauma bays.
- Olive View-UCLA Emergency Services Replacement and Tuberculosis Unit Project - Began construction of a new 31,000-square-foot emergency services building and a 10,000 square-foot 15-bed Tuberculosis Patient Unit. This \$53 million project is scheduled to be completed in 2011.

- Psychiatric Urgent Care Center at Olive View-UCLA - Completed the scoping documents and we are in the design-builder selection phase of this 10,000 square foot building to house urgent care functions for the Department of Mental Health to be located on the Olive View-UCLA Medical Center campus. Construction completion is scheduled in late 2010.
- Olive View-UCLA Media Center - Completed a \$25 million seismic retrofit of the hospital.
- Martin Luther King, Jr.-MACC - Completed a \$32 million renovation of the main hospital building and the Psychiatric Care Facility. This renovation included a remodel of the surgery suites, central sterile, and some patient wards, as well as extensive utility upgrades.

In addition, Public Works and the Department of Health Services are in process of finalizing the project program, schedule, and budget to reopen inpatient services at Martin Luther King, Jr.-King-MACC. The current estimated project cost is \$390 million.

- Hubert H. Humphrey Comprehensive Health Center - Managed the design and construction of a \$6 million beautification project at this facility. A major portion of the project scope involves the remodel of the entrance, main lobby, and urgent care areas of the center. When completed, the remodel of these areas will allow for improved patient flow and enhance the County's ability to provide patient care.
- East Los Angeles Civic Center Renovation - Completed this project in February 2008 with a grand opening hosted by the First Supervisorial District in May 2008. The project was designed to improve delivery of County services and enhance learning and recreational opportunities for the residents of East Los Angeles. This \$30 million multi-phased project was implemented in five stages over approximately seven years.
- Coroner Facility Improvements Project - Began construction of the Crypt Building Addition that is scheduled to be completed in June 2010. The Coroner tenant improvements will be completed by spring 2014. This \$32 million multi-phased project will address decedent storage issues and will improve the operations and services at the Coroner's facility.
- Dockweiler State Beach Youth Center Project - Began construction of a new 8,800 square-foot building to accommodate the Department of Beaches and Harbors' Water Awareness, Training, Education, and Recreation (WATER) youth program. The new facility is scheduled to be completed by November 2009. The WATER youth program provides opportunities for inner city and at-risk children to increase their awareness of ocean and beach safety through organized activities that provide skills, knowledge, and positive personal experiences.



Stephen Sorensen Park Gymnasium and Community Building

- Stephen Sorensen Park Gymnasium and Community Building - Began construction in summer 2009 for the proposed 15,000 square foot gymnasium and community building located in the Stephen Sorensen Park in Lake Los Angeles. It will house a gymnasium, classroom, multi purpose room, an office, full kitchen, and restrooms. It also includes 57 new parking spaces. The total project cost is currently estimated at \$11,200,000. The project will incorporate sustainable features to achieve Silver rating under the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED).

New Library Construction Program - Managed construction of five new library facilities that will serve the unincorporated areas of Topanga, East Compton, La Crescenta, Acton/ Agua Dulce, and the City of Lawndale. These libraries will either replace aging and undersized buildings, or provide new services. Each new library facility will include a large adult reading area, community meeting room, group study rooms, teen area for middle and high school students, children's area with dedicated storytelling and programming space, express-service checkout machines at the customer service desk, public access computers with Internet access, and an extensive collection of books and other library materials.

- Lawndale Library - This new library project replaced an existing 3,203-square-foot library facility with a new 17,360-square-foot library. The new facility features children and adult reading areas, homework center, career center, community meeting room, technology training room, conference rooms, multimedia viewing stations, story telling area, restrooms, and staff and building support areas. The Civic Art Commission component of the project included custom fabricated 20 feet high by 15 feet wide floor to ceiling glass artwork. The artwork is the focal point of the library's glass corridor and also welcomes visitors entering the new 17,000-square-foot space. Lawndale Library was recognized at the National Arts Conference as one of the 40 best Public Art works projects in the United States. The total project cost was about \$13 million and the library was opened to the public on March 18, 2009.

- Topanga Library - The project includes construction of a 11,293 square-foot library and associated parking in the unincorporated community of Topanga. The library will comply with the County Energy and Environmental Policy and seek to obtain a Silver level LEED certification. The current total project cost is \$16,507,634.
- East Rancho Dominguez Public Library - The proposed 7,000-square-foot library will be 40 percent larger than the current space that will allow for better space planning, improved accessibility for the disabled, and parking that meets regional planning requirements. Additionally, the library will be designed to be highly energy efficient and contain sustainable design features. It will be healthy, stimulating, and attractive, all elements that encourage a progressive and motivational learning environment.
- La Crescenta Library - Construction is underway for a new two story, 15,010-square-foot library to replace the existing single-story 4,300-square-foot library in the unincorporated area of La Crescenta. Construction is scheduled to be completed in September 2009. The new expanded library facility is scheduled to open to the public in December 2009.
- Acton/Agua Dulce Library - Construction is underway for a new single-story 11,350-square-foot library that will serve the unincorporated communities of Acton and Agua Dulce. Construction is scheduled to be completed in December 2009. The new library facility is scheduled to open to the public in February 2010.

Topanga Library

Animal Shelters Improvement Program - Animal Care and Control's service area and population have expanded far beyond what the Department's six existing animal shelters were originally designed to serve. In an effort to relieve overcrowding and improve animal care services, the County is undertaking various improvements at some of the existing animal shelter facilities, and planning for construction of a new animal shelter in the East Antelope Valley area.

- Downey Animal Shelter Cat Holding Facility - Completed this new facility in May 2009. The project included acquisition and installation of a prefabricated 760-square-foot cat holding facility to provide additional housing for feral and quarantined cats.
- Proposed East Antelope Valley Animal Shelter - Completed the programming phase in May 2009 for expansion of the existing Lancaster Animal Shelter. Began planning for a new animal shelter to be located on the eastside of the Antelope Valley at a site yet to be determined.
- Centinela Area Probation Office and Building and Safety Firestone District Office - This new building provides 25,000 square-feet of office space for 152 employees. The building has offices for administration, support staff, Probation Officers, and provides areas for interviewing, narcotics testing, education, and video conferencing. An existing 154,000-square-foot building previously occupied by the Probation and Social Services Departments was demolished following construction of the new Probation building.

The Public Works Building and Safety District Office is an additional 5,000-square-foot office space for 21 employees. The District Office provides building plan check and code enforcement services for the unincorporated communities of Westmont, Athens, Florence/Firestone, Walnut Park, Willowbrook, Athens Village, Rosewood, East and West Rancho Dominguez, Lennox, El Camino Village, Del Aire, Windsor Hills, View Park, Baldwin Hills, Ladera Heights, Marina del Rey, and Catalina Island. The new office greatly enhances the level of customer service by including features, such as a public counter with sit down service, kiosk/computer work stations, and conference and training rooms. The total project cost was \$20.8 million and was opened to serve the public on February 17, 2009.

- Fire Station 93 - This new 10,850 square-foot Battalion Headquarters Fire Station consists of a three-bay apparatus room, a main office, a day room, a kitchen, an exercise room, a Battalion Chief's office and dormitory, and dormitory quarters for seven shift personnel. The project also includes design elements that qualified the station to meet the Leadership in Energy and Environmental Design (LEED) Silver Certification.



Fire Station 108 - City of Santa Clarita

This new fire station will improve the efficiency, quality, and responsiveness to provide additional fire protection and emergency medical services to all residents within the City of Palmdale and the adjoining County unincorporated area. The \$9.5 million project was completed and opened for service on October 1, 2008.

- Fire Station 108 - This new 5,000 square-foot community fire station consists of a two-bay apparatus room, a reception office, a day room, a kitchen, an exercise room, and dormitory quarters for six shift personnel. This new fire station will improve the efficiency, quality, and responsiveness to provide additional fire protection and emergency medical services to all residents within the City of Santa Clarita and adjoining County unincorporated area. The \$6 million fire station was completed and opened for service on November 1, 2008.
- Fire Station 136 - This new 10,158 square-foot Battalion Headquarters Fire Station consists of a two-bay apparatus room, a main office, a day room, a kitchen, an exercise room, a Battalion Chief's office and dormitory, and dormitory quarters for seven shift personnel. The project also includes design elements that qualified the station to meet the LEED Gold Certification. This was the first fire station and capital project in the County to achieve a LEED Gold Certification. The \$9.5 million project was completed and opened for service on October 1, 2008.

- Parks and Recreation - 21 projects were completed for the Department of Parks and Recreation including 7 pool renovations and replacement projects at Enterprise, Lennox, Mona, Campanella, Ted Watkins, Carver, and Bethune Parks in the Second Supervisorial District valued at over \$25 million; 3 community buildings at Ladera, Lennox, and Allen Martin Parks; and 11 general improvement projects at various parks throughout the County.

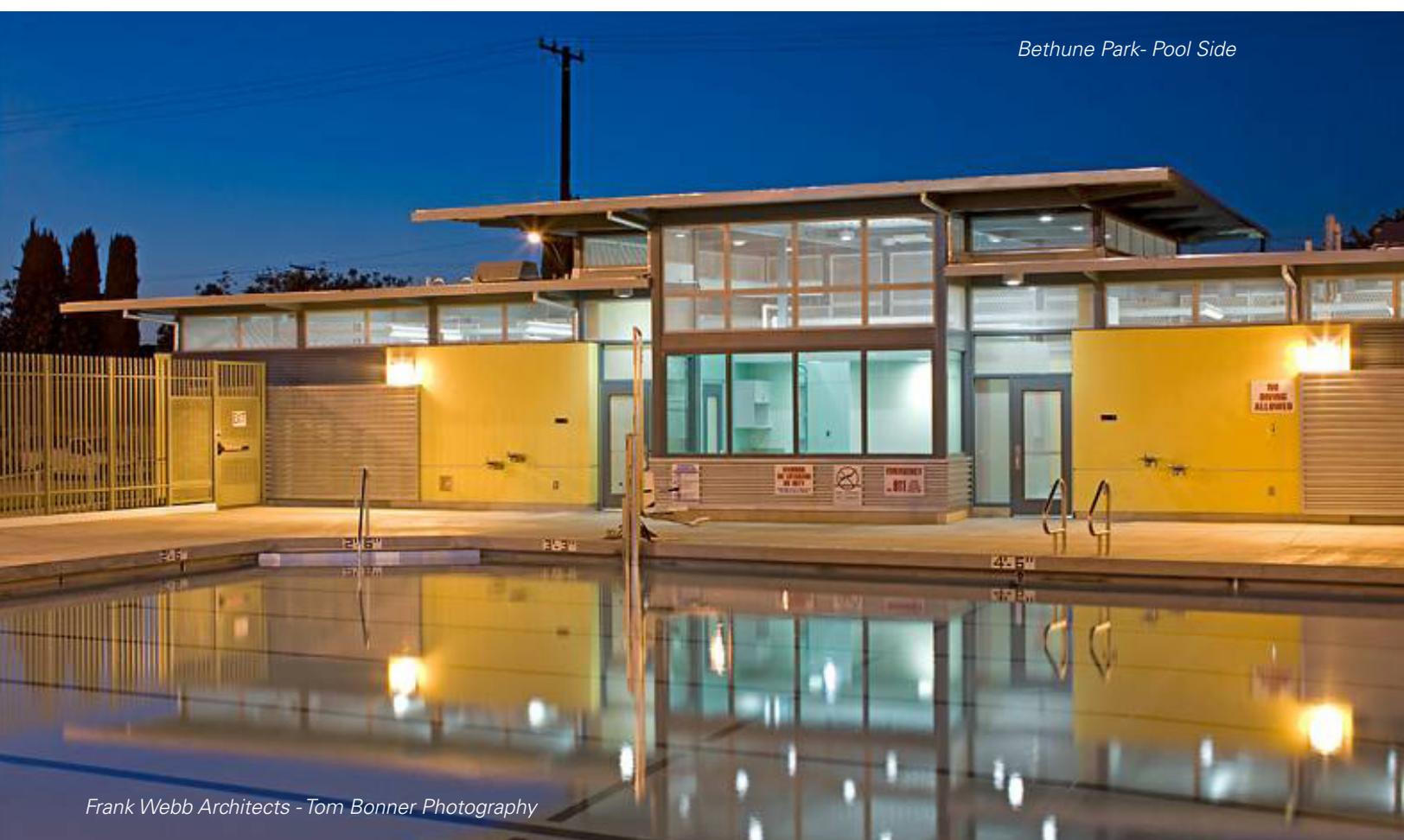
Enterprise Park Pool



Ted Watkins Park - Pool Side



Bethune Park- Pool Side





Residential & Commercial Land Development in the Santa Clarita Valley

Land Development

Public Works provides broad-based, engineering services in the areas of transportation planning, subdivision plan checking, and California Environmental Quality Act (CEQA) compliance. Specifically, we provide technical review in the areas of hydrology, hydraulics, sanitation, grading, roadways, waterworks, and stormwater control. We coordinate approximately 400 in-house CEQA reviews annually including unincorporated private development and interagency projects within Los Angeles and other surrounding counties. Public Works is responsible for recording a total of 850 final maps of which about 340 involve easement, condition, and boundary verification. We process and administer about 1,000 tax bonds, subdivision agreements, and improvement securities. Public Works also coordinates the transfer of miscellaneous drains from cities, as well as private drains to the Flood Control District for operation and maintenance and provides contract mapping services for 72 cities in Los Angeles County. In addition, Public Works is at the forefront of watershed management issues, which include installation of structural best management practices as well as review and approval of proposals to comply with stormwater quality requirements of the Regional Water Quality Control Board.



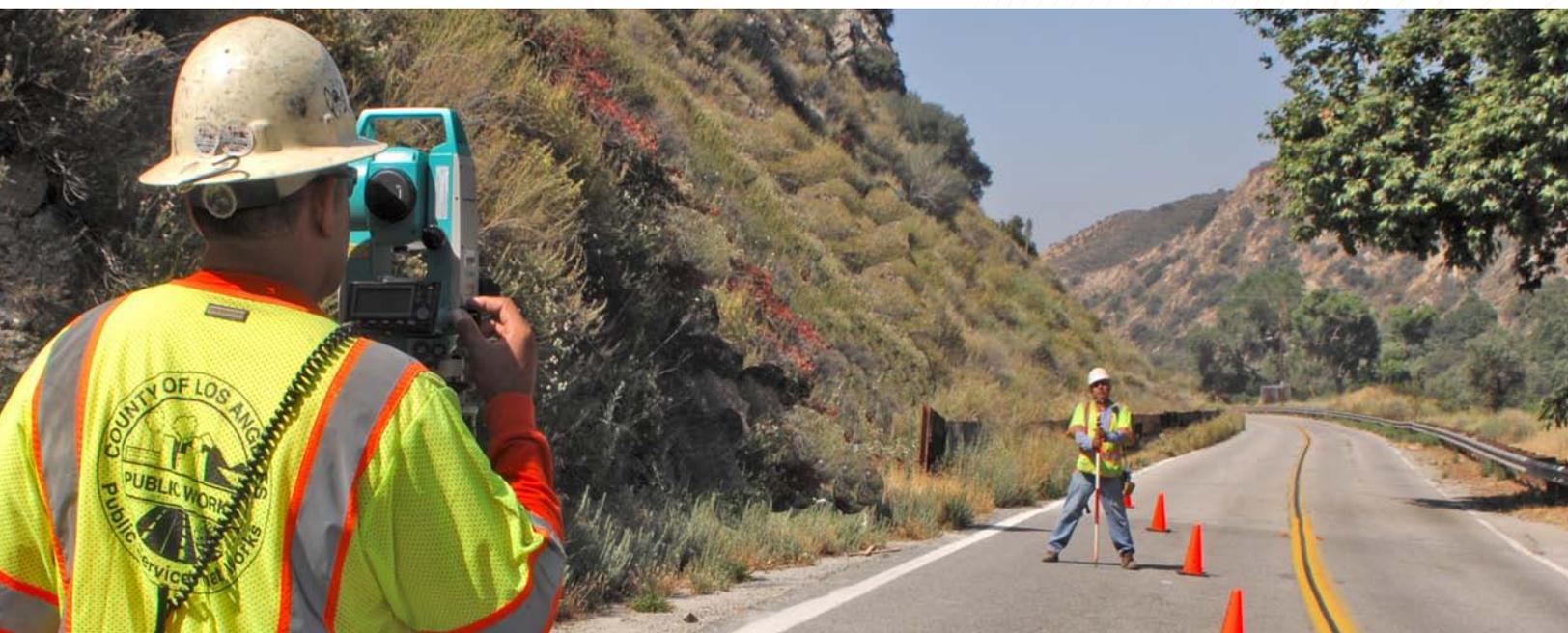
Survey/Mapping and Property Management

Public Works provides preliminary, construction, topographic, encroachment, litigation, and right-of-way survey support for Public Works, other Departments, and local agencies, along with precise vertical, horizontal, and monument preservation surveys. Field crews utilize robotic instruments, digital levels, reflector less total stations, and Global Positioning System (GPS) equipment to efficiently collect survey data. The Survey Public Counter library is the County's largest repository of horizontal and vertical survey records. The Record of Survey section examines Records of Survey maps and Corner Records submitted to the County Surveyor by private surveyors and other public agencies in accordance with Sections 8762 (b) and 8773.2 (a) of the Professional Land Surveyors Act.

Public Works also provides county departments, other governmental agencies, and the public with real property services, information, and expertise; reviews permits concerning multiple use of Flood Control District and road rights of way; investigates and responds to claims and litigation against various Public Works entities; prepares documents for the acquisition, quitclaim, and out grant of real property rights; and provides a variety of mapping, title, and appraisal services.

2007-2009 Highlights:

- Performed geodetic surveys on the Department's 14 major dams.
- Performed over 500 preliminary and over 100 construction surveys.
- Traversed over 550 miles of precise levels updating over 3,600 bench marks.
- Checked over 1,200 Records of Surveys and over 5,700 Corner Records.
- Added County Engineer, Road Department, and Public Works survey field notes along with Corner Records to the Land Records Information website.
- Continued to update the Land Records Information website to include:
 - ▶ Tract Maps, Parcel Maps, and Records of Surveys.
 - ▶ Township Plats, Deed Maps, Patent Maps, Official Maps, Official Record Maps, Highway Dedication Maps, and Miscellaneous Record Maps.
 - ▶ Design plans and Flood Control right-of-way maps.
 - ▶ Access to the Department's CAD/GIS Spatial Information Library.
 - ▶ Public Works maintained bench marks.
 - ▶ Certificate of Correction forms.
 - ▶ Guide to the Preparation of Records of Surveys and Corner Records.
 - ▶ Public Works survey field notes for the North County.



- Over the past twelve months, the Land Records Information website:
 - ▶ Averaged over 42,000 hits per month.
 - ▶ Averaged over sixteen gigabytes of data transferred per month.
 - ▶ Reduced the number of customers visiting our Public Counter by 78 percent.
- Through collaboration between Public Works and the Department of the Registrar Recorder/County Clerk, Tract and Parcel Maps are available via the website within seventy-two hours of recordation and Records of Surveys are available within two weeks of recordation.
- Generated \$6,000,000 from real estate transactions (e.g. sales, grants of easements, rentals, and leases) affecting properties under the jurisdiction of Public Works.
- Recovered \$441,830 in costs through our real-property and auto-subrogation recovery efforts. These were costs associated with the replacement and/or repair of Public Works' property such as County vehicles, traffic signals, fire hydrants, etc., that were damaged by another party.
- Researched and reported on existing permit and permanent rights for flood control structures and access in the burn areas following the 2007 and 2008 wildfires (Ranch, Marek, and Sesnon); determined the location of additional right of way needs; prepared right of entry documents for access, repair, and new construction; and completed the acquisition of rights of way necessary for emergency debris protection structures.
- Obtained possession of 46 acres of land for the Sun Valley Watershed - Strathern Wetlands Park project in Sun Valley.



- Completed the conversion of 4,500 flood right of way maps, 1,500 road right of way maps, and 200 road index maps to electronic format and made them available to our customers via a user friendly homepage on our website as part of our Information Services Program Improvement Goals. This project enabled Public Works to improve customer service and increase operational efficiency by expanding our web presence through these additional online services and e-government systems.
- Completed preparation of legal descriptions and exhibit maps to facilitate transfer of 47 courthouses to the State. This project was managed by the CEO and established under the Trial Court Facilities Act (Senate Bill No. 1732). The County avoided costly penalties because Public Works expedited the project and met critical deadlines.
- Processed and completed the vacation of road easements for the high profile La Alameda shopping center redevelopment project in the First Supervisorial District. The vacation of the easements provided the required additional building area and facilitated the timely completion of the project. Public Works received a commendation award in recognition and appreciation of leadership and support in helping to deliver this \$65 million project.
- Prepared documents, exhibit maps, and right of way maps for acquisition of approximately 1-1/2 miles of right of way for the construction, operation, and maintenance of the covered Termino Avenue Drain storm drain in the City of Long Beach.
- Created a new comprehensive Property Acquisition Tracking computer application and reporting system (Dashboard) that provides unprecedented access to information on the status and cost of the property acquisition phase of construction projects. The Dashboard replaced separate, antiquated databases that required duplicate data entry. It is used by right of way identification and mapping personnel, title examiners, property appraisers, real estate agents, and project managers involved with property acquisition.
- Led a Countywide GIS mapping and data layer development to eliminate duplication of effort among other County Departments.
- Prepared the Claims & Litigation Annual Report, which reported on third-party claims and litigation activity for Fiscal Year 2007-2008. The report provided a benchmark for classifying claims and the number of incidents by identifying the important factors to be reported. A value coding system was also included.



FINANCIAL PERSPECTIVE

Public Works has an annual operating budget of approximately \$1.9 billion. This budget is composed of 116 separate funds that finance approximately 423 operating functions. Over 99.4 percent of our revenues are restricted to specific uses. This leaves an average of approximately \$11.9 million annually (slightly more than one-half of one percent) of unrestricted funding to implement Board of Supervisors' defined critical services and needs.

2007-2009 Highlights:

- Public Works retired its Financial Accounting System (FAS) and fully migrated to the electronic Countywide Accounting and Purchasing System (eCAPS) on July 1, 2008. The Department implemented the Cost Accounting, Accounts Receivable, Accounts Payable, Procurement, Inventory, and Time Collection functionalities simultaneously. The project involved 30,000 hours of enhancements to the system, which are now available to all County departments and was completed on time and within budget.

The collaborative effort involved the Auditor-Controller, Internal Services Department, and consultant staff for three years and involved tasks such as planning, prototyping, developing functional designs, testing, and training end users. Public Works also helped to develop and implement the new Grants Management module. This module allows effective tracking of the entire grant life cycle from opportunity through audit/closeout and is also being used by other County departments.

- In February 2009, Fitch Rating Service upgraded its rating of the \$112.6 million Public Works Financing Authority Series 2003A and 2005A revenue bonds to "AA+." This rating reflects the Flood Control District's improved debt service coverage by property taxes and benefit assessments, rapid debt amortization, and a strengthened financial position.

Operating Budget

Fiscal Years 2007-2008 to 2008-2009

EXPENDITURES & ENCUMBRANCES (in millions)	FY 2005-06	FY 2006-07	FY 2007-08	FY 2008-09
PER FISCAL YEAR:				
ROADS AND HIGHWAYS	\$266	\$279	\$266	\$295
FLOOD CONTROL AND DRAINAGE	232	242	253	243
WATER SYSTEMS	58	72	65	88
SEWER SYSTEMS	31	29	35	35
WASTE MANAGEMENT	34	39	42	43
TRANSIT SYSTEMS	25	25	21	24
LIGHTING DISTRICTS	25	23	26	27
DEVELOPMENT REGULATION	47	50	57	60
SERVICES FOR OTHERS	3	5	1	0
CAPITAL PROJECT MANAGEMENT *	9	9	12	0
MISC - GENERAL AVIATION	6	3	6	4
MISC - BIKEWAY PATH	1	2	1	2
ISF - CAPITAL PROJECT MANAGEMENT *	0	0	0	37
ISF - REIMBURSABLE SERVICES	4	4	4	7
ISF - SERVICES TO OTHER PW FUNDS	344	360	400	383
TOTAL	\$1,085	\$1,142	\$1,189	\$1,248
PER BIENNIAL REPORT:				
	FY 2005-07		FY 2007-09	
ROADS AND HIGHWAYS		\$545		\$561
FLOOD CONTROL AND DRAINAGE		474		496
WATER SYSTEMS		130		153
SEWER SYSTEMS		60		70
WASTE MANAGEMENT		73		85
TRANSIT SYSTEMS		50		45
LIGHTING DISTRICTS		48		53
DEVELOPMENT REGULATION		97		117
SERVICES FOR OTHERS		8		1
CAPITAL PROJECT MANAGEMENT		18		12
MISC - GENERAL AVIATION		9		10
MISC - BIKE PATH		3		3
ISF - CAPITAL PROJECT MANAGEMENT		0		37
ISF - REIMBURSABLE SERVICES		8		11
ISF - SERVICES TO OTHER PW FUNDS		704		783
TOTAL		\$2,227		\$2,437

REVENUES (in millions)	FY 2005-06	FY 2006-07	FY 2007-08	FY 2008-09
PER FISCAL YEAR:				
TAXES	\$135	\$157	\$164	\$168
INTEREST, RENTS, & ROYALTIES	28	39	39	29
INTER-GOVERNMENTAL	239	276	299	248
CHARGES FOR SERVICES	699	703	742	751
MISCELLANEOUS	5	4	6	8
TOTAL	\$1,106	\$1,179	\$1,250	\$1,204
PER BIENNIAL REPORT:				
	FY 2005-07		FY 2007-09	
TAXES		\$292		\$332
INTEREST, RENTS, & ROYALTIES		67		68
INTER-GOVERNMENTAL		515		547
CHARGES FOR SERVICES		1,402		1,493
MISCELLANEOUS		9		14
TOTAL		\$2,285		\$2,454

* For Fiscal Year 2008-09, the Capital Project Management was made part of the Internal Service Fund.



A WORKLOAD SAMPLING

Aviation

- Aircraft based at Public Works airports to date: 1,810
- Airport takeoffs and landings: 830,000
- Gallons of aviation fuel sold: 2.6 million

Construction and Development

- Building permits issued: 42,000
- Value of building permits issued: \$2.8 billion
- Capital projects completed: 40 capital projects valued at approximately \$195 million, in addition to the LAC+USC Medical Center Replacement Projects
- Capital Projects managed: 145
- Value of capital projects managed: Over \$1 billion
- Special Districts created for lighting and sewer operations: 317
- Projects involving flood control rights and/or quitclaims: 205
- Road expansion projects: 85
- Private Drains and Miscellaneous Transfer Drains processed for transfer to the Flood Control District: 75
- Specialty mapping projects completed: 2,269
- New addresses for new subdivisions: 2,046
- Change of address requests processed: 1,364

- Lease and rental agreements managed: 260
- Revenue generated from lease/rental property sales: \$6 million
- Professional reviews of hydrology maps, water, storm drain, landscape, grading, road, and sewer plans: 3,600
- Maps recorded annually: 850
- Tax bonds, subdivision agreements, and improvement securities processed: 1,000
- Preliminary surveys conducted: 500
- Records of Survey checked: 1,200
- Customers served at Survey Public Counter: 3,700

Environmental

- Outreach events to promote recycling: over 64 events
- Pounds of household hazardous waste/electronic waste collected: 13.2 million
- Pounds of waste tires collected: 1,000,000 pounds
- Gallons of used oil collected: 115,000
- Used oil filters collected: 4,700
- www.888CleanLA.com website visits: over 1.26 million
- www.888CleanLA.com website hits: over 27.4 million
- 1(888)CLEAN LA hotline calls: 109,000
- Trees planted at Earth Day events: 2,494
- Environmental Defenders Program: reached 1,009 schools and about 467,500 students
- Generation Earth Program: reached more than 550 teachers, educating about 56,400 students at 352 unique schools impacting over 454,400 students
- Used Motor Oil and Filter Recycling Campaign: collected 66,000 used oil filters and 127,600 gallons of used motor oil





Fleet Management Group

- Purchased and received 13 Propane Sweepers, 20 Hybrid Sedans, and one Hybrid Light-Truck
- Received two grants for diesel retrofits and alternative fuel purchases for a total of \$374,850

Flood Control and Water Conservation Infrastructure

- Major dams operated and maintained: 14
- Crib dams operated and maintained: 253
- Miles of open channels maintained: 483
- Miles of storm drains maintained: 2,953
- Catch basins maintained: 80,924
- Debris retention structures: 445
- Stormwater pumping plants: 61
- Seawater intrusion barriers operated and maintained: 3
- Low-flow diversions operated and maintained: 21
- Stream gauging stations: 65
- Rain gauges: 253
- Sediment placement sites: 29

Information Technology

- Website visits per year: over one million
- Website hits per year: over 10 million
- Managed and maintained over 300 applications supporting the public and the Department's business units
- Won 23 IT awards for innovation and impact on enhancing business processes and/or the quality of customer service

Roads and Transportation

- Miles of unincorporated area roads maintained: 3,215
- Miles of roads maintained (cities): 1,100
- Feet of curb paint maintained: 587,000
- Miles of traffic lane striping maintained: 3,800
- Square feet of pavement markings maintained: 1.45 million
- Traffic signs maintained: 115,500
- Street name signs maintained: 50,000
- Raised traffic markers maintained: 306,000
- Traffic signals maintained: 1,836
- Street, bridge, and tunnel lights maintained: 1,370
- Number of parkway trees: 186,000
- Average number of trees trimmed each year: 35,000
- Curb miles swept annually: 182,000
- Road shoulder pass miles graded annually: 16,200
- Tons of AC used for pavement patching annually: 5,700
- Cubic yards of litter and debris removed annually: 61,000
- Highway safety lights and illuminated street name signs maintained: 12,600
- Miles of Unincorporated Class I Bike lanes maintained: 98
- Miles of Unincorporated Class II Bike lanes maintained: 19
- Miles of Unincorporated Class III Bike lanes maintained: 30
- Square Yards of landscaped medians maintained: 345,700

Sewer Systems

- Two Sewer Maintenance Districts serving 2.5 million people in unincorporated areas and 42 cities
- Miles of sewers: 5,247
- 83 County-owned pump stations and 72 City-owned but County-maintained pump stations
- Annual Budget: \$58.8 million, financed through sewer service charges
- Operate and maintain three sewage treatment plants in the Malibu area
- Operate and maintain one sewage treatment plant in the Lake Hughes area

Waterworks

- Water storage reservoirs: 121
- Water wells: 52
- Booster pumps and pressure regulating stations: 148
- Miles of water mains maintained: 1,086



AWARDS & RECOGNITION

NATIONAL ASSOCIATION OF COUNTIES ACHIEVEMENT AWARDS

2009

- Dominguez Gap Wetlands Multiuse Project
- Field Ergonomic Training Video
- Permitting a Landfill in an Urban County – The Sunshine Canyon Landfill
- Polymer-Modified Asphalt Surface Sealer – (PASS) Chip Seal Project
- Public Works Women’s Leadership Council
- Tujunga Wash Greenway and Stream Restoration
- Values Management
- Wireless Traffic Management

2008

- Automating Map Redlining
- eNotify
- Field Council
- South Whittier Shuttle Service

2007

- San Francisquito Canyon Road Repairs
- Well Modification to Improve Water Quality

PRODUCTIVITY AND QUALITY AWARDS

2008

- Silver Eagle Award, Top Ten Award, and Million Dollar Club Award for Wireless Traffic Management – It's the Real Thing
- Top Ten Award as a collaborator for Pico Rivera Station Vandalism Enforcement Team
- Enhanced Plaque Award as a collaborator for Waterworks Online Payment System
- Enhanced Plaque Award for Automating Map Redlining
- Enhanced Plaque Award for Ken Yip – A Very Productive Employee
- Enhanced Plaque Award for South Whittier Sunshine Shuttle
- Certificate of Recognition for Field Council
- Certificate of Recognition for Inventory Counts
- Certificate of Recognition for Customer Service Survey System
- Certificate of Recognition as a collaborator for District Attorney – Code Enforcement.

2007

- Best Innovative Use of Technology Award for Graffiti Abatement Referral System
- Top Ten Award for Service Locator
- Top Ten Award and Million Dollar Club Award as a collaborator for Zoning Map Conversion and Integration Project
- Million Dollar Club Award and Special Merit Plaque Award for Franchise Trash Collection System Implementation
- Million Dollar Club Award and Certificate of Recognition for Stabilization and Restoration at Hume Road Landslide
- Traditional Merit Plaque Award for Web based Solid Waste Reporting System (SWIMS)
- Certificate of Recognition for Garbage Disposal Districts Assessment Improvement
- Certificate of Recognition for Stormwater Pollution Prevention Trash Boom Tour
- Special Merit Plaque Award for Graffiti Abatement Referral System (GARS)

CALIFORNIA STATE ASSOCIATION OF COUNTIES (CSAC)

2008

Honorable Mention

- Customer Service Survey System (CSSS)
- Field Council
- Franchise Trash Collection and Recycling System
- Land Records Information Website (LRIW)
- Simple Permits Application and Tracking System (SPATS)
- South Whittier "Sunshine" Shuttle
- Vcheck (Virtual Check), Waterworks Online Payment System
- Wireless Traffic Signal Synchronization

2007

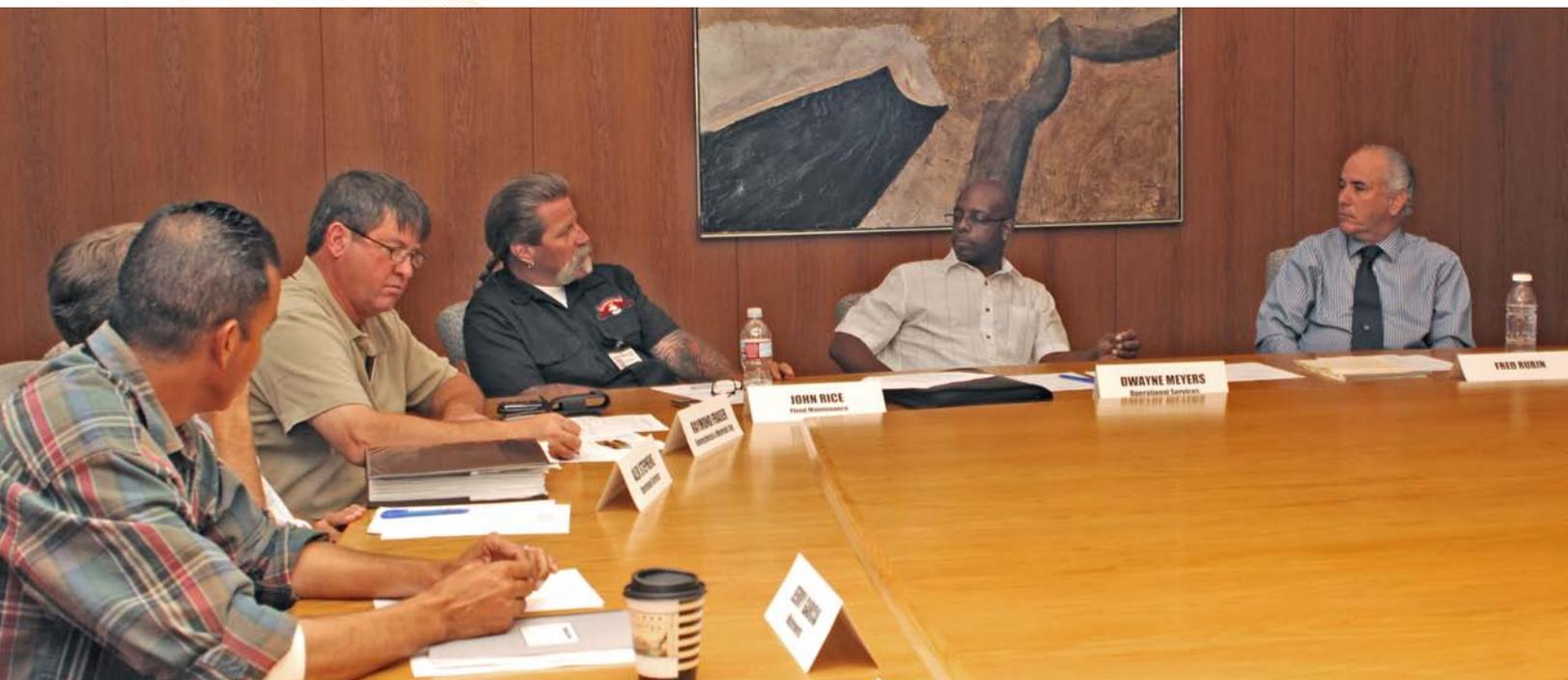
Challenge Award

- Solid Waste Information Management System (SWIMS)

Merit Award

- Public Works Women's Leadership Council

Field Council



Honorable Mention

- Integrated Regional Water Management Plan (IRWMP)
- Service Locator
- Zoning Map Conversion and Integration Project
- Graffiti Abatement Referral System (GARS)

Other Awards & Recognitions:

2009

Associated General Contractors

- California Chapter - Finalist for "Meeting the Challenge of the Difficult Job" Award for the LAC+USC Medical Center Replacement Project

Construction Management Association of America

- Achievement Award for the LAC+USC Medical Center Replacement Project

Government Finance Officers Association

- Certificate of Achievement for Excellence in Financial Reporting for the Flood Control District, 2007-2008 Comprehensive Annual Financial Report

Los Angeles Council of Engineers and Scientist

- Achievement Award for the LAC+USC Medical Center Replacement Project

2008

American Institute of Architects

- San Fernando Valley Chapter - Achievement Award for the LAC+USC Medical Center Replacement Project



LAC+USC Medical Center



LAC+USC Medical Center

American Public Works Association

- Innovative Design of the Year (High Desert Branch) for the Chip Seal Project
- National Public Works Week for the Employee Recognition Awards Ceremony
- President's Award - Dean Lehman
- Project of the Year Award (Buildings) for the LAC+USC Medical Center Replacement Project
- Project of the Year Award (Environment) for the Dominguez Gap Wetlands

American Society of Civil Engineers (ASCE)

- Technical Excellence Award for Customer Service Survey System (CSSS)
- Metropolitan Los Angeles Branch - Outstanding Public/Private Sector Civil Engineering Project for the LAC+USC Medical Center Replacement Project
- Los Angeles Chapter - Architectural Engineering Project of the Year for the LAC+USC Medical Center Replacement Project
- Region 9 - Architectural Engineering Project of the Year for the LAC+USC Medical Center Replacement Project

Best of California Project Excellence

- Best Application Serving Organization Business Objectives for the City Services Request Tracking System (CSRTS)

California Chip Seal Association

- Chip Seal Project of the Year

Digital Government Achievement Awards (DGAA)

- Government-to-business category for the Simple Permits Application and Tracking System (SPATS)
- Government-to-government category for the SolidWaste Information Management System (SWIMS)

National Association of Flood and Stormwater Management Agencies

- Excellence in Communication Award - Improving Water Quality for the Stormwater Public Education Campaign

2007

American Society of Civil Engineers (ASCE)

- Technical Excellence Award for Solid Waste Information Management System (SWIMS)
- Outstanding Government Civil Engineering Project for the Greater Los Angeles IRWMP

Best of California Project Excellence

- SolidWaste Information Management System (SWIMS) - Best Application Serving Organization Business Objectives

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