



REGULAR MEETING OF THE
MUNICIPAL SERVICES COMMITTEE
Tuesday, March 22, 2011, 4:00 P.M.
100 North Garfield Avenue, Pasadena, Council Chambers

AGENDA

1. **CALL TO ORDER/ROLL CALL**
2. **PUBLIC COMMENTS ON MATTERS NOT ON THE AGENDA**
3. **INFORMATION ITEMS**
 - a. **Update on NPDES Regulations (Public Works)**
 - b. **Water Infrastructure Prioritization and Master Plan Update***
 - c. **MWD Water Curtailment Update**
4. **ADJOURNMENT**

* Attachment

Margaret McAustin, Chair
Municipal Service Committee

POSTING STATEMENT:

I HEREBY CERTIFY that this Agenda, in its entirety, was posted on the Council Chamber Bulletin Board S249, the bulletin board in the rotunda area at City Hall, 100 North Garfield Avenue, the City Clerk's Office, and a copy was distributed to the Central Library for posting on the 18th day of March, 2011 by 4:00 p.m.

Sharon Stovall

DISTRIBUTION:

MSC Committee Members	Central Library	General Manager	Pasadena Weekly
City Council	City Clerk	Director of Planning and Permitting	Pasadena Star-News
City Manager	Director of Public Works	Los Angeles Times	Neighborhood Connections
City Attorney	Public Information Officer	La Opinion	Pasadena Journal

In compliance with the Disabilities Act of 1990, listening assistive devices are available from the City Clerk's Office with a 24-hour advance notice. Please call (626) 744-7062 or (626) 744-4785 to request use of a listening device. Language translation services are available for this meeting by calling (626) 744-4386 at least 24 hours in advance. Habra servicio de interpretación disponible para estas juntas llamando al (626) 744-4386 por lo menos con 24 horas de anticipación. Items on the agenda may not be called in the order listed.

3.B



Pasadena Water and Power

Water Infrastructure Master Plan/IRP/CIP Prioritization Update FY 2012

Municipal Services Committee

March 22, 2011





Major Projects for FY 2012

Pasadena Water and Power

- Sunset Perchlorate Treatment Plant
- Reservoir Improvements
- Distribution Mains and Meters and Services
- Well and Booster Pump Switchgear Upgrade
- Cross Town Well Collector Pipeline
- Recycled Water
- Arroyo Spreading Basins



SUNSET PERCHLORATE TREATMENT PLANT (1062)

Pasadena Water and Power

Design has been completed and construction is expected to start in FY 2012 once grant funding is received from the Environmental Protection Agency. Project is expected to be completed in FY 2012.

FY 2012 Projected Expenditures:

- **\$1.25 Million Build America Bond**
- **\$1.45 Million in Environmental Protection Agency Funds**
- ❖ **\$2.7 Million Total**

This project provides for the design and construction of a Perchlorate treatment system for the Sunset Reservoir wells required after the State lowered its action level for Perchlorate.

This project is consistent with the WIRP and focuses on the increase of water distribution and storage capacities as part of a groundwater storage program.





RESERVOIR IMPROVEMENTS (1037)

Pasadena Water and Power



Seismic upgrades to Sheldon Reservoir are expected to begin in FY 2012 and will continue through FY 2013. Also, design will start on the seismic upgrades to Sunset Reservoir.

FY 2012 Projected Expenditures:

- **\$1.9 Million Build America Bond**



This project will provide for major repairs and upgrades to the City's 15 existing water tanks and reservoirs. Most of the tanks and reservoirs are over 60 years old. Examples of the repairs and upgrades include replacement of reservoir roofing, lining the reservoir floor with hypalon liners, and changing old inlet and outlet valves.



DISTRIBUTION MAINS, METERS, AND SERVICES (1001, 1002, 1019)

Pasadena Water and Power

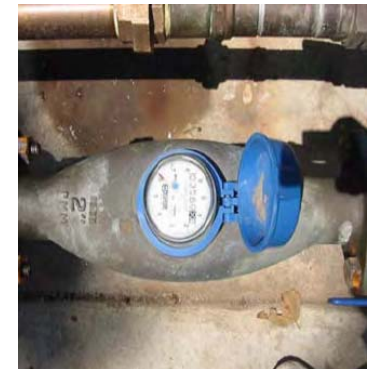
In FY 2012, a total of three miles of distribution mains (#1001 & #1019) are expected to be replaced. In addition, PWP will begin the large water meter replacement program using new automatic meter readers (AMR), installing approximately 250 large water meters and continuing with the replacement of 2,000 small meters (#1002).

FY 2012 Projected Expenditures:

- \$4.5 Million Build America Bond
- \$2.15 Million Capital Improvement Charge

This project provides for the installation of both new and replacement water distribution mains including the upgrade of the water distribution system, as necessary, to sustain current fire protection requirements. Typical projects include new mains and new fire hydrants.

This project also provides for the replacement of old meters and services as needed. The goal is to replace all old water meters with new automatic meter readers (AMR). AMR meters provide an efficient and more accurate method of collecting meter data for billing. There are approximately 640 meters left to meet the Master Plan goal, however, other meters will be replaced to enhance overall service capabilities and revenue collection.





WELL AND BOOSTER PUMP SWITCHGEAR UPGRADE (1020)

Pasadena Water and Power



In FY 2012, construction of the Jones Booster Station is scheduled to be completed. Design and assessment will begin on Wilson Booster Station and Garfield Well. Other upgrades will be completed as required.

FY 2012 Projected Expenditures:

- **\$1.4 Million in Build America Bond**
- **\$100,000 in Capital Improvement Charge**
- ❖ **\$1.5 Million Total**



This project provides for upgrading or replacing older and less efficient equipment located citywide at wells, booster pumps, and obsolete and outdated switchgear.

Greater operating reliability and efficiencies will be realized by these upgrades.

This project is consistent with the WIRP and focuses on the increase of water distribution and storage capacities as part of a groundwater storage program.



WELL COLLECTOR PIPELINES (CROSS TOWN) (1044)

Pasadena Water and Power

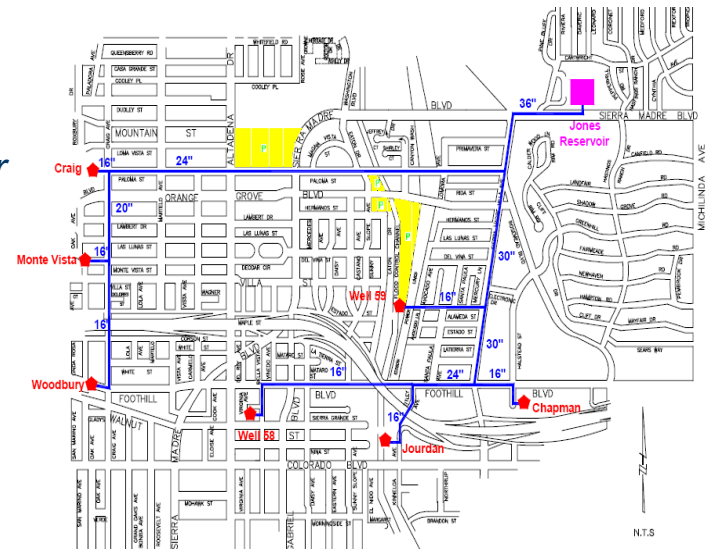
Work on the installation of one mile of cross town well collector pipeline will begin in FY 2012. This is the start of the first 2.5 miles of the 4.5 miles of Phase 1.

FY 2012 Projected Expenditures :

- **\$1.5 Million in Build America Bond**

This project provides for the collection of water from water wells through a pipeline system and piping this water directly to reservoirs. The eastside and westside collector make up the two main collector pipelines which will facilitate the blended well water in reservoirs to meet current and future water quality regulations. Combining the well water flows will make future water treatment of well water more efficient and less costly.

This project is consistent with the WIRP and focuses on the increase of water distribution and storage capacities as part of a groundwater storage program.





RECYCLED WATER (1013)

Pasadena Water and Power

Work in FY 2012 includes completing the design and environmental documentation for Phase 1, and continuing the annual payment to the City of Glendale.



FY 2012 Projected Expenditures:

- **\$1.2 Million Capital Improvement Charge**

This project involves the evaluation of potential recycled water sources, determination of use base, and design/construction of facilities to provide and distribute recycled water. This includes the cost to participate in the expansion of the City of Glendale's recycled water system. Payments end in 2019.

Future water supplies in Southern California are expected to be limited. Recycled water can augment fresh water supplies through its use for golf courses, freeway landscaping, parks, schools, large turf areas, and industrial processes.



ARROYO SPREADING BASINS AND INTAKE STRUCTURES (1040)

Pasadena Water and Power

In FY 2012 work will begin to repair the B-3 upper canyon access bridge and to mitigate storm damage in preparation for work on the Arroyo spreading basins and intake structure (including Hahamongna Watershed). In addition, the feasibility study and preliminary design for the intake structure upgrade and spreading basin are expected to start once Federal and State funds are received.

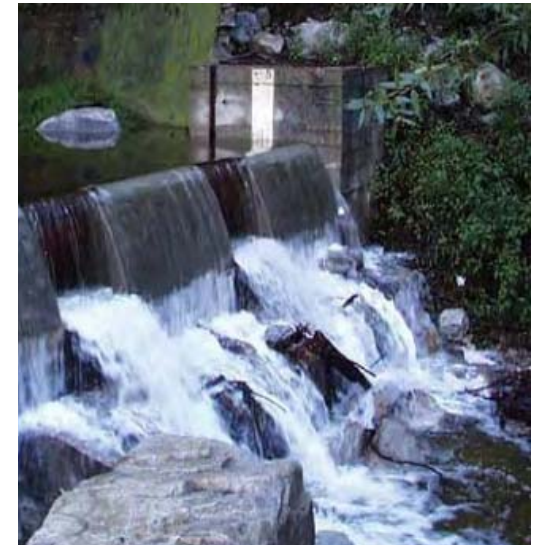
FY 2012 Projected Expenditures:

- **\$80,000 Capital Improvement Charge**
- **\$440,000 Federal Emergency Management Agency (FEMA)**
- **\$300,000 Proposition 84 Grant (State)**
- ❖ **\$820,000 Total**

This project provides for facilities to increase spreading in the Arroyo Seco. This project has five phases which will allow the capture and spreading of water runoff in the Arroyo Seco. The additional diversion and storage will allow for better management of local water resources and may help to reduce reliance on expensive imported water.

Applications for FEMA and State funds are currently being considered for approval.

This project is consistent with the WIRP and focuses on the increase of water storage capacities as part of a groundwater storage program.





FY 2012 Master Plan/WIRP/CIP Priorities and Funding Sources

Pasadena Water and Power

<i>Project</i>	CIP Priorities		Funding Source			
	<i>Master Plan</i>	<i>WIRP</i>	<i>BAB</i>	<i>Water Fund</i>	<i>CIC Fund</i>	<i>Other</i>
Sunset Perchlorate Treatment Plant (1062)		X	X			X
Reservoir Improvements (1037)	X		X			
Distribution Mains & Meters and Services (1001, 1019, & 1002)	X		X		X	
Well and Booster Pump Switchgear Upgrade (1020)	X	X	X		X	
Cross Town Well Collector Pipeline (1044)	X	X	X			
Recycled Water (1013)		X			X	
Arroyo Spreading Basins (1040)		X			X	X



Infrastructure Improvement Summary

Pasadena Water and Power

Projects Starting June 2002	Master Plan Target by 2020	Master Plan Target (To Date)	Actual (To Date)	FY 2012 Funding Status
Pipeline Replacement (Miles)	273	124	57	Below Target
Water Meter Replacement	37,000	24,000	36,140	On Target
Reservoirs Seismically Analyzed	14	14	14	Completed
Reservoir Seismic Retrofits	12	12	1	Below Target
Groundwater Wells Rehabilitated	6	3	8	On Target
Booster Pumps Upgraded	12	5	4	On Target