

WORK PLAN

WEYMOUTH SERVICE AREA – SOLAR POWER PROJECT AND HIGH EFFICIENCY TOILET REBATE PROGRAM

Project No. 1: Weymouth Solar Power Project

PROJECT DESCRIPTION:

The F. E. Weymouth Water Treatment Plant (Weymouth) is a 520 million-gallon-per-day (mgd) facility located in the City of La Verne, California that treats a blend of waters from the Colorado River and State Water Project into Metropolitan's distribution system. In 2013, the Weymouth plant consumed over 10 million kWh of electricity, and future power demand at the Weymouth plant will increase by 30 to 50 percent when ozone water treatment facilities commence operation in 2016/17.

The Weymouth Solar Power Project will design, install and commission a 3-megawatt solar power generation facility at Weymouth. A system map that identifies the location of the project is shown on Figure 1. The 3-megawatt solar project will generate up to 7.7 million kWh of clean renewable energy annually. This renewable energy will be consumed on-site and will supply over 50% of the electricity required to treat water at the site. As a result of this project, the consumption of energy from Southern California Edison will be reduced significantly at Weymouth, which will save fossil fuels and reduce greenhouse gas emissions associated with the treatment of water at Weymouth.

The 3-megawatt solar power generation facility will be ground-mounted and will include a single-axis tracking system to allow the panel arrays to track the sun's path from east to west on a daily basis. The facility will be placed at two locations within Weymouth's operational boundary, near the southwest and northeast corners of the site, so no easements or property acquisition is necessary for this project. Approximately 15 acres will be required for the installation. The planned location of the solar power generation facility at the Weymouth is shown on Figure 2.

The solar power system will be integrated into Metropolitan's power system at Weymouth, and will be tied into Metropolitan's data acquisition system to monitor and record the energy production.

On October 14, 2014, Metropolitan's Board of Directors authorized final design of the Weymouth Solar Power Project. Final design commenced in October 2014 and is being performed by MWH Americas, Inc. Award of a contract to install and commission the solar power system is scheduled for May 2015, and the system is anticipated to be in operation by March 2016. Metropolitan will own and maintain the solar power system.

Environmental documentation to ensure compliance of this project with the California Environmental Quality Act (CEQA) is being covered under the Weymouth Water Treatment Plant Improvements Program Environmental Impact Report (Report No. 1471; State Clearinghouse No. 2013121074). The EIR is tentatively scheduled for certification in February 2015.

WORK PLAN TASKS

Task 1: Project Management, Administration and Reporting

This task includes managing project activities from design through commissioning of the solar power system.

This task includes:

1. Preparation of project schedules and budgets
2. Development of project monitoring tools
3. Reviewing, monitoring and updating the budget and schedule
4. Preparation of progress reports and invoicing
5. Conducting weekly project progress meetings
6. Conducting monthly management briefings
7. Conducting design review meetings
8. Managing consultant and construction contracts
9. Assisting MWH Americas, Inc. with the preparation of specifications and bidding documents.
10. Preparation of Board Letter and Presentation to award a Solar Power System Installation contract
11. Award of a Solar Power System Installation contract to provide a fully commissioned 3-MW solar power generation facility
12. Providing inspection and construction services

Task 2: SCE Interconnection Study

The objective of the SCE interconnection study is to ensure compliance with California's Interconnection Rule 21, which is a set of regulations that describe the interconnection, operation and metering requirements for solar power generation facilities that are to be connected to Southern California Edison's electric system.

This task includes submitting a Rule 21 Exporting Generating Facility Interconnection Request Application, completion of an interconnection study by Southern California Edison, and installation of any equipment necessary to comply with Rule 21.

The Rule 21 Exporting Generating Facility Interconnection Request Application was submitted to Southern California Edison on October 6, 2014.

Task 3: Environmental Evaluation Study

The objective of this task is to support the development and completion of the Weymouth Water Treatment Plant Improvements Program Environmental Impact Report (Report No. 1471; State Clearinghouse No. 2013121074). This EIR covers several planned projects at the Weymouth plant, including the Weymouth Solar Power Project, and is funded another project.

The deliverable for this task is certification of the EIR for the Weymouth plant, which is scheduled for February 2015.

Task 4: Final Design of the Weymouth Solar Facility

This task covers the development of the final design, development of specifications and bidding documents, and award of contract to procure, install and commission a 3 megawatt solar power facility. The design work will be performed by MWH Americas, Inc. under Agreement No. 140025. Metropolitan staff will prepare the bid package, evaluate bids and award a construction contract.

The key deliverables for this task include:

- Weymouth Solar Project Design Update Memorandum
- Weymouth Solar Project 100% Final Design Submittal
- Weymouth Solar Project Specifications and Bidding Documents
- Final construction cost estimate
- Board Authorization to award a contract for a 3 megawatt solar power system
- Execution of a Solar Power System installation contract with the successful bidder

Task 5: Permitting

This task involves acquisition of all permits necessary for the Weymouth Solar Project. Necessary permits will be identified during the initial phase of design.

Projects are exempt from local building and zoning regulations at Weymouth pursuant to Sections 53019(d) and (e) of the California Government Code.

Permits that may be necessary include the National Pollutant Discharge Elimination System (NPDES) Permit.

Task 6: Construction

This task includes procurement, construction and commissioning of a 3-Megawatt solar power generation system at the Weymouth Plant.

Deliverables include:

- Fully operational 3-megawatt solar power generation system

Task 7: Grant Proposal Monitoring Plan

This task involves preparation and implementation of the Grant Proposal Monitoring Plan. The monitoring plan will include all activities to meet the requirements of the Grant proposal.

Project No. 2: Weymouth Service Area - High Efficiency Toilet Rebate Project

PROJECT DESCRIPTION:

The Metropolitan Water District of Southern California (Metropolitan) is a public agency established in 1928 by the state Legislature to provide adequate and reliable water to meet present and future needs. Metropolitan serves an average of 2.1 million acre-feet of water per year to more than 18 million people living within a 5,200 square mile service area within six counties that include: Ventura, Los Angeles, Orange, San Bernardino, Riverside and San Diego.

Metropolitan's 2010 Integrated Water Resources Plan Update (IRP Update) sets water use efficiency targets which call for a 20% reduction in regional per capita water use by 2020 through increased water conservation and water recycling. In August 2011, Metropolitan's Board adopted the Long-Term Conservation Plan (LTCP), which identifies goals, strategies, and implementation approaches to help achieve the IRP Update target through water conservation efforts. The focus of the LTCP is to create lasting and accelerated water savings through outreach, education, training, collaboration, incentives, and regulations. A key element of Metropolitan's LTCP is implementation of water conservation incentive programs in which Metropolitan provides financial incentives to residential and commercial customers to purchase water efficient devices.

On May 13, 2014, in response to drought conditions, Metropolitan's Board of Directors authorized the modification of existing conservation and water recycling initiatives to help increase and enhance conservation program activity. Key changes include continuation of funding for the high efficiency toilet (HET) incentives program.

This project focuses on Metropolitan's on-going incentive program for high efficiency toilet. Metropolitan works with other local agencies, its member water agencies, and gas and electric utilities to identify customers for participation. In addition, Metropolitan educates the public on the importance of water conservation and initiates marketing campaigns to increase the public's awareness on the availability of this incentive rebate program.

Over the past two fiscal years (July 1, 2012 to June 30, 2014), Metropolitan has provided \$308,400 for installation of over 4,806 HETs in the project area identified on Figure 1. This will yield over 2,365 acre-feet of water savings over the estimated 20 year useful life of the HET. Over the next two fiscal years (July 1, 2014 to June 30, 2016) Metropolitan estimates that approximately 10,000 additional HETS will be installed in the same area.

This HET rebate program will significantly reduce the consumption of water in the service area, which will also result in reduced energy consumption associated and greenhouse gas emissions associated with importing, treating and distributing the water. In addition, the HET rebate program will bring a number of direct economic benefits to the region including reducing consumer water, sewer, and energy costs, increasing retail sales, generating local sales tax, and creating jobs. Indirect benefits to the region include reduced water diversions, wastewater discharges, and urban run-off impacts. Water and wastewater utilities will also benefit from lower operating and maintenance costs.

WORK PLAN TASKS

Task 1: Project Management and Administration

This task includes:

1. Reviewing and updating the budget
2. Managing consultant
3. Preparation of Board Letter and Presentation for project funding as needed

Task 2: Marketing

The objective of this task is to continue to educate the public on the importance of water conservation and to increase the public's awareness on the availability of this incentive rebate program. This task includes:

1. Maintain/Update MWD's water conservation outreach tool : BeWaterwise.com
2. Assisting with the preparation of marketing plan for High Efficiency Toilets.
3. Meeting with other local agencies, its member water agencies, and gas and electric utilities to identify potential customers.

Task 3: Monitoring and Reporting

1. Development of project monitoring tools
2. Preparation of progress reports and invoicing
3. Conducting monthly management briefings

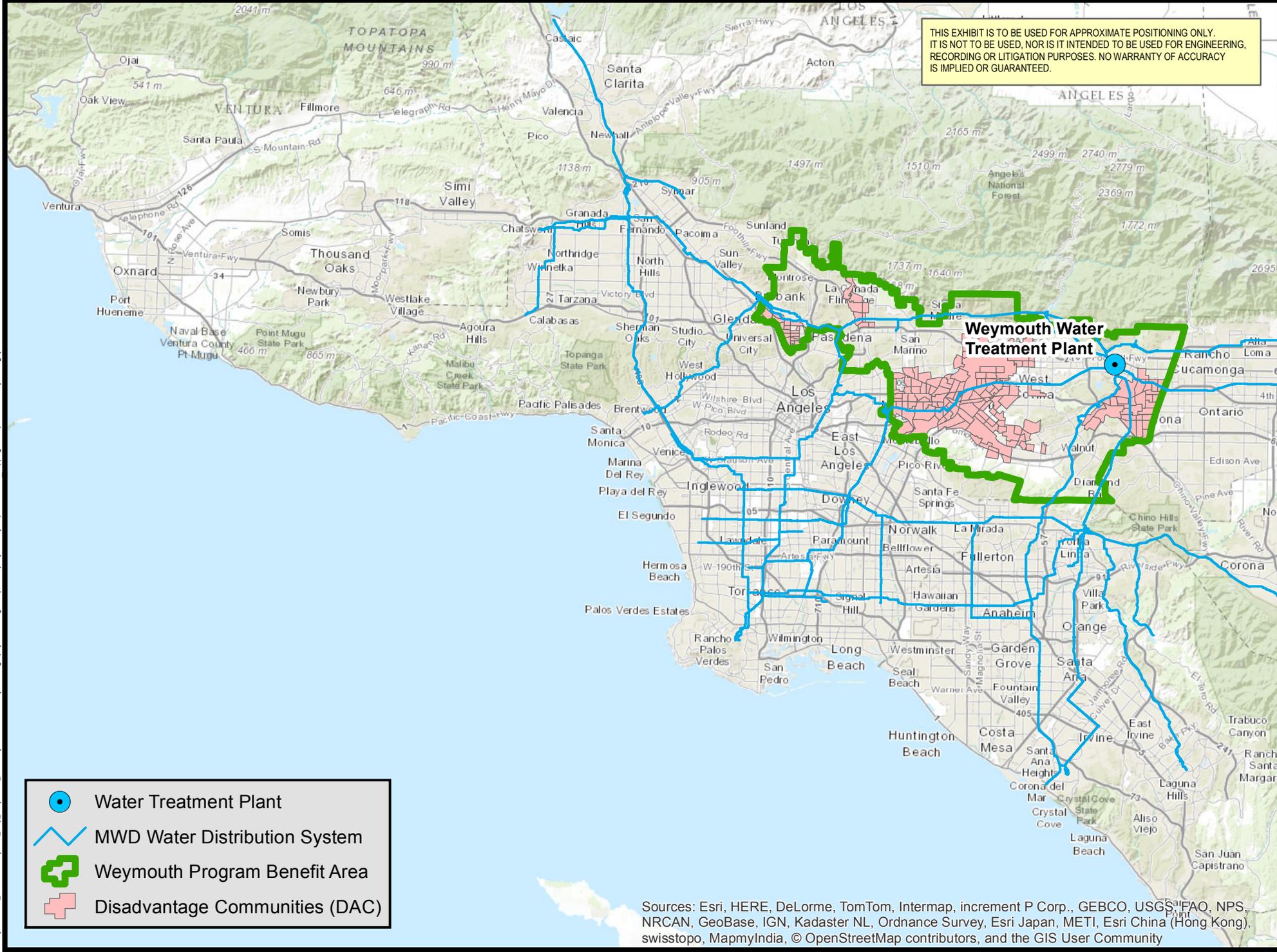
Task 4: Payment Processing

1. Review rebate applications and invoices
2. Process payments

Task 5: Grant Proposal Monitoring Plan

This task involves preparation and implementation of the Grant Proposal Monitoring Plan. The monitoring plan will include all activities to meet the requirements of the Grant proposal.

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-  Water Treatment Plant
-  MWD Water Distribution System
-  Weymouth Program Benefit Area
-  Disadvantage Communities (DAC)

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Figure 1: System Map
Weymouth Service Area - Solar Power Project and High Efficiency Toilet Rebate Program

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-  Solar Facility Sites
-  Weymouth Water Treatment Plant Boundary
-  MWD Water Distribution System

Image courtesy of USGS Image courtesy of LAR-IAC © 2014 Microsoft Corporation © 2014 Nokia © AND

Figure 2: Weymouth Water Treatment Plant 3-Megawatt Solar Power Generation Facility

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