



**Providing quality service in wastewater collection and environmental protection for more than 50 years.**



www.goletawest.com P.O. Box 4, Goleta, CA 93116-0004  
phone: 805 968-2617, fax: 805 562-8987 UCSB Campus Parking Lot 32, Santa Barbara, CA 93106

*Dear Customer,*

*Our last newsletter provided an overview of how the Goleta West Sanitary District's wastewater system works for the people and businesses of western Goleta and Isla Vista.*

*In this issue we focus on how we keep it all working; from intimately knowing the system to routine maintenance schedules and training. The pipes, pump stations, manholes, vehicles and machines that make up the system require organization, planning and constant maintenance to keep them in perfect working order.*

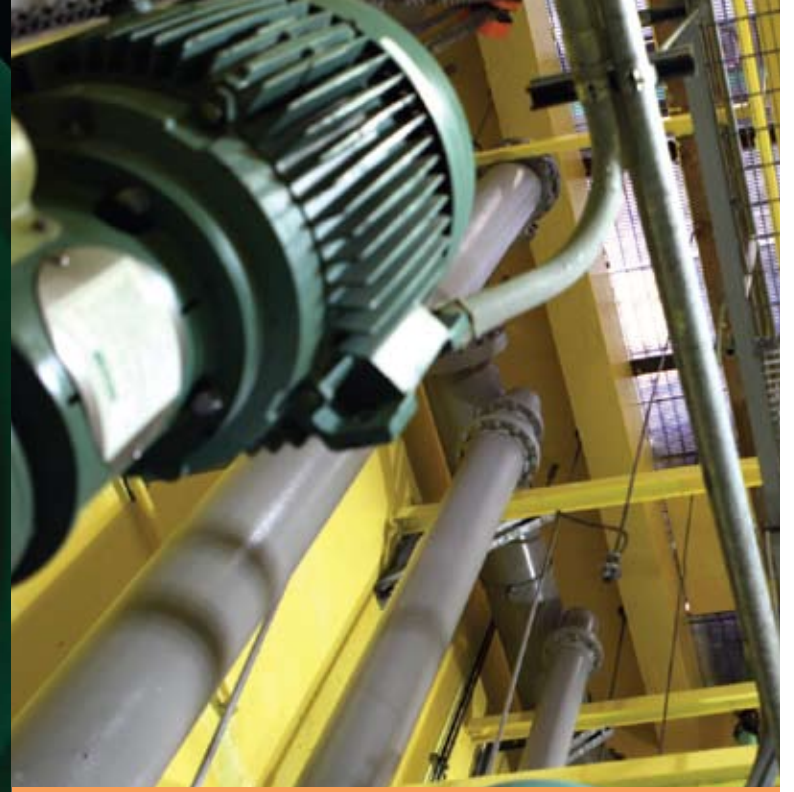
*And of course, we can't talk about the "how", without highlighting who keeps it all working. Our entire system is operated and maintained by our staff of six! All of Goleta West's employees have extensive experience in their field of expertise. This translates into a high quality yet efficient and cost-effective operation for our residents and businesses that we can all be proud of and that has been recognized by the many regional and state awards we have received through the years.*

*We are proud of the high quality and efficient work that we accomplish and are excited to share the details with you.*

*Sincerely,*

*Mark Nation  
General Manager/Superintendent*

# How We Keep It All Working



## Calendar

### April 20-21

*2013 Earth Day Festival Alameda Park.*  
Hosted by the Community Environmental Council for over 40 years, the 2013 festival will promote the power of grassroots action in protecting and preserving the environment, with specific resources for reducing the use of fossil fuels.

### April 27

*5th National Prescription Drug Take-Back Day.*  
Sponsored by the Drug Enforcement Administration (DEA) and County of Santa Barbara Sheriff's Department. This event is an opportunity for the public to prevent pill abuse and theft by ridding their homes of potentially dangerous expired, unused, and unwanted prescription drugs. Goleta West Sanitary District supports efforts to safely dispose of unwanted medicines (also known as pharmaceuticals), keeping them out of our waste and water stream.



## Who Keeps it All Working

The District is operated and maintained by our amazing staff of six. Goleta West's employees all have extensive experience in their field of expertise and are committed to keeping current with regular trainings. Additionally, the entire field staff holds Collection System Maintenance Certification as well as other various professional wastewater related certifications and credentials.

## Contact Us

UCSB Campus, Parking Lot 32  
P.O. Box 4, Goleta, CA 93116-0004  
info@GoletaWest.com  
District Office: 805.968.2617  
Fax: 805.562.8987

**www.GoletaWest.com**



# Goleta West Sanitary District Newsletter

Spring 2013

## How We Keep It All Working

Goleta West Sanitary District's (GWSD) operations and maintenance programs are at the heart of the District's successful history and require a significant amount of planning, oversight and action.

### Knowing the System

Knowledge of the locations and physical attributes of all District facilities is essential to effective operation and maintenance of the wastewater collection system. We maintain a computerized Geographic Information System (GIS) of all District mainlines, manholes and other facilities. Included in this database are layers showing aerial photos, individual parcels, new subdivisions (upon their completion) and other information specific to the system. Atlas maps printed from the GIS are included in every District vehicle. These atlas maps include essential information for the field crew such as pipe size and type, manhole depth, pipe segment length etc.

GIS Atlas Map



Pump Station #1



### Preventive Operation and Maintenance

**Computerized Maintenance Management System (CMMS):** The CMMS interfaces with the GIS mapping program. The system enables staff to retrieve data such as facility inventories, maintenance history, schedules, inspections and service calls. The field crew enters its findings wirelessly in the system as work is completed.

**Pipelines:** All pipelines are cleaned on a routine basis ranging from 2 months to 3 years. Every 5 years the pipelines are scheduled for closed circuit television (CCTV) inspection. This inspection alerts us to any defects such as root intrusion, cracks or breaks in the pipes and groundwater infiltration and allows us to proactively fix small problems before they become serious issues. For a CCTV good pipe/bad pipe comparison, go to [www.GoletaWest.com](http://www.GoletaWest.com).

**Manholes:** Manholes are inspected routinely during pipeline cleaning maintenance. Any defects including corrosion or infiltration are noted and the manhole is marked for rehabilitation.

**Pump Stations:** The District utilizes a high-tech Supervisory Control and Data Acquisition (SCADA) system that helps monitor and control the District's two pump stations. The SCADA system allows us to remotely monitor and control pump stations. If the system senses any of the monitored points are being exceeded, it notifies on-call personnel with a detailed text. This has increased efficiency, productivity and assisted in reliable 24/7 duty response to emergencies. Additionally, both stations have emergency generator power available to ensure smooth operation even during power outage situations.

**Vehicles:** The District maintains modern equipment including a Vactor sewer cleaning machine, a CCTV truck, a street sweeper, tractor, crane and a water truck.

Control Panel For Emergency Pumps



Monitoring Flow To treatment Plant



### Capital Improvement Plan

GWSD maintains a Capital Improvement Plan (CIP). This plan is a document that lays out a schedule for rehabilitation and repair of all District assets (pipes, pump stations, manholes, vehicles). Periodically the District hires engineering consultants to assist in the review and update of the CIP. For more info, go to [www.GoletaWest.com](http://www.GoletaWest.com).

### Contingency Equipment and Replacement Inventories

All pump stations have built in redundancy to allow for routine pump maintenance and emergency backup. Emergency response equipment includes diesel generators, bypass pumps, plugs and spill containment kits. The District has reciprocal mutual aid agreements with other local agencies in times of crisis.

### Design and Construction Standards and Specifications

Updated periodically, the GWSD Design and Construction Standards for Sewer Facilities ensure that District infrastructure is built to or above industry standards. This code governs all specifications and details for pipe materials, minimum sizes, slopes and cover, pipe bedding and backfill, structure standards and many other factors. During construction of new sewer facilities District staff performs inspections to confirm compliance with our Standards.

### System Evaluation and Capacity Assurance Plan

GWSD has a computerized hydraulic model which assists with determining future system needs. Periodically, the District analyzes existing land use planning documents for the area and projects potential future wastewater demand increases. The data is assembled and the hydraulic model helps evaluate the adequacy of the collection system capacity to serve existing and future needs.

Aerial photo showing pipelines



Pump Station #1



Surge Arrestor



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