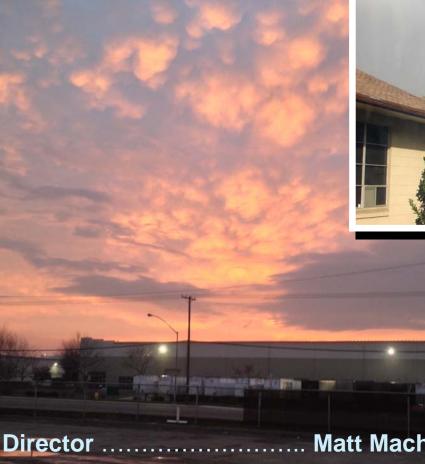


Stanislaus County Public Works



2012 Annual Report

"Without rain there would be no rainbow." **Gilbert** Chesterton



Matt Machado

Deputy DirectorLaurie Barton

Assistant Director Business/FinanceDiane Haugh

PUBLIC WORKS

Our Mission:

Manage and improve infrastructure through safe and efficient use of resources and assets for the benefit of our citizens.



Hatch Road / Carpenter Road intersection under design for signalization

Our Vision:

Strive to be the leading Public Works Department through innovative stewardship of infrastructure and environment.



Hills Ferry Bridge seismic retrofit / replacement under design



ADMINISTRATION DIVISION

3

The Administration Division provides support to all divisions within Public Works. The two main areas are clerical and financial. Clerical support is in the areas of board agenda items, human resources and other ongoing daily needs necessary for the smooth running of the department. Financial support is provided by way of budgeting, payroll processing, accounts payables and receivables.

Finance

The Finance Division is responsible for accounting, budgeting, contracting, accounts payable, accounts receivable, purchasing, and payroll. The employees in this division ensure that the Department is following all the County's financial policies, safeguarding public funds.

The Finance Division has five full-time staff overseeing Public Works \$55 million budget. They perform the day to day functions that keep the department running smoothly.

A few of this year's accomplishments are:

- Invoiced Caltrans a total of \$3,231,204 mostly for Preliminary Engineering.
- Automated employee road crew sheets for payroll data entry, increasing efficiency by eliminating redundancy.
- Completed and submitted the 2012 Annual Road Report to the State. The annual road report must be submitted to the State by October 1st of each year. Stanislaus County submitted the report in mid-August and was among the first to do so.

- Developed and submitted budgets for Public Works' seven budget units and provided quarterly updates.
- Provided periodic financial information to department managers.

Support Services

The Administrative Support Division provides clerical support to other Public Works' divisions. Support staff is located at the Morgan Road facility. Their role includes the preparation of Board agenda items, human resources, training records maintenance, safety program strategic planning, first point of contact by greeting lobby customers and answering phones, processing mail, and a variety of other miscellaneous, but highly necessary tasks that ensure the Department operates smoothly.

In the past year these individuals:

- Processed 81 Board Agenda items.
- Conducted recruitments and processed new employees packets.
- Coordinated telecom upgrade to VoIP.
- Maintained office supplies inventory.
- Coordinated janitorial and building maintenance services.
- Logged and followed up on 1,060 customer comments and/or concerns through Stanislaus County's Customer Response Management System.

GEOGRAPHIC INFORMATION SYSTEMS

4

Establishing a Geographic Information Systems (GIS) Central provides the groundwork to develop Stanislaus County's GIS into a dynamic tool for varied users (internal staff and the public). ArcGIS Desktop and Server (version 10.1) will be implemented, providing the technology platform for maintaining centralized management of GIS data and processes.

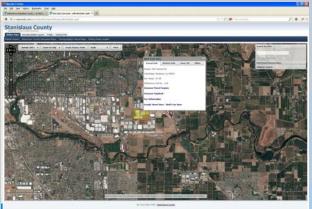


GIS training given by Aron Harris, Software Developer / Analyst III

ArcSDE technology is an integrated part of ArcGIS and a core element of GIS. Its primary role is to act as the database access engine to spatial data, its associated attributes, and metadata stored within a relational database management system (RDMDS).

Making GIS available on the County's intranet system for internal users, and on the County's website (<u>http://gis.stancounty.com/giscentral/</u>) for external

users provides a powerful management tool to many at minimal cost.





Peou Khiek, GIS Manager is examining a census map

The following are recent accomplishments by GIS Central:

- 1. Moving GIS servers to VM Ware
- 2. Update ArcGIS version (both Desktop and Server) to 10.1
- Redistricting the Board of Supervisors' Districts based on 2010 census
- 4. Provide GIS Central's internal website to cities within Stanislaus County
- 5. Work with cities within Stanislaus County to develop their GIS program
- 6. Continue to work on Pavement Management System (PMS)
- 7. Quarterly User Group Meetings
- 8. Moving the GIS database from PostgreSQL to Enterprise SQL
- Adding more recorded maps, surveys, and data to accommodate the community's survey needs

TRANSIT DIVISION

5



In addition to working on the consolidation of Stanislaus Regional Transit (StaRT) and Riverbank-Oakdale Transit (ROTA), the Transit Division worked on the implementation of the August 2012 service improvements, began procurement of one expansion and four replacement buses, started working on a bus stop database for transit amenities within StaRT's service area, and also began working with Storer to test the "run times" to help improve ontime performance on fixed routes. Staff also attended and participated in over thirty events, including public outreach conducted in the communities of Riverbank worked a number of activities to complete and Oakdale to promote services to be offered in those communities.

The Transit Division successfully completed two audits; the annual Transportation Development Act (TDA) financial audit, as well as the Compliance Review of Proposition 1B Transit Security funds. Staff also began working with Stanislaus Council of Governments (StanCOG) and the selected vendor to complete the TDA Triennial Audit which will be completed by April 2013.

Last, but not the least, staff issued a Request for Proposal (RFP) to conduct a transit planning study of transit services provided in the County to be completed in October 2013. Last year proved to be a very busy one for the Transit Division staff that worked on various transit projects. The division completed work on the merger of StaRT and ROTA. Beginning from April 2012 through December 2012, staff consolidation of StaRT and ROTA, including holding meetings with ROTA, the cities of Oakdale and Riverbank and StanCOG to address issues related to the merger.





TRANSIT DIVISION (CONT'D)

6



Statistics for **Fiscal Year** 2012-2013

374,635 ridership 845,530 miles logged

Other activities comprised of seeking approval from the County Board of Supervisors on a number of Memorandums boxes and security cameras were installed of Understanding and Agreements to enable the County to begin operating transit service in Riverbank and Oakdale.

Additional tasks completed in consultation with StaRT's transit service contractor, Storer Transit Systems (Storer) to ensure potential operational challenges were addressed as well. In preparation for the

merger, buses acquired from ROTA were repainted with StaRT's logo and new fare in the buses. A collection of pictures are shown on some of the associated activities undertaken to complete the merger of StaRT and ROTA.





"The wheels on the bus go round and round, round and round, round and round..."

CONSTRUCTION ENGINEERING

7

The Construction Division manages all construction related elements of the Public Works Department capital improvement projects, which include roadway, utility, and bridge improvements. Through contract administration and construction inspection, it is the goal of the division to ensure that each project is built according to the plans and specifications, on schedule, and within budget.

The Construction Division also provides construction contract administration services to other Stanislaus County departments, such as Parks and Recreation, Environmental Resources, and the Planning Department.



Las Palmas Traffic Signals (Before & After at Elm Avenue)







Las Palmas Traffic Signals (Before & After at Sycamore Avenue)

CONSTRUCTION ENGINEERING (CONT'D)

8

2013 Forecasted Projects

- Parklawn Sewer Improvements
- SR 99/SR 219 (Kiernan Avenue) Interchange
- 2013 Slurry Seal
- RSTP Overlay Program E
- RSTP Program F Westley Rehabilitation
- Hatch Road @ Carpenter Road Traffic Signals
- Claribel Widening Phase 1 (MID Canal work)
- Broadway @ Union Pacific Railroad Sidewalk Improvements
- Geer Road Bridge (over Tuolumne River) Seismic Retrofit



9th Street and Pecos: Access cover install for storm drainage



Howard Road Bike Path Improvements





DESIGN ENGINEERING

9

The Design Engineering Division provides oversight and design services for road and bridge improvement projects as defined in the Capital Improvement Program. The services include developing design plans that incorporate the County's standard specifications and meet State and Federal funding requirements.

Likewise, this division addresses the environmental, utility and right-of-way coordination of a project through to construction documents that consist of plans, specifications, and an engineer's estimate. The construction documents are presented to the Board of Supervisors for approval to bid; the project is awarded, and then tracked for progress through construction.

This division also provides project consultant selection, and design and construction oversight services to other County departments such as Environmental Resources, Parks, and the Redevelopment Agency.

Additionally, this division is responsible for securing, administering, and overseeing all the Federal and State funds that make it possible to continue the delivery of projects, replace our heavy equipment and road fleet to maintain compliance with the regional high emissions pollution control measures in the Central Valley.

They also assist Disadvantage Business Enterprises (DBE) to participate during our contract procurement process and set federally mandated DBE goals in all of our projects.

Authorized Federal Funding:

In 2012 the department received \$7,001,668 in authorized federal funding. Authorized funds include the following:

Regional Surface Transportation Program (RSTP) Funds:

- RSTP Phase D Increase Federal participation in the amount of \$85,749 (Keyes, Paradise, Central and Grayson).
- RSTP Phase E— Received 100% Federal funding in the amount of \$1,535,951. Resurface and construct shoulder backing on sections of: Condit Avenue, Cox Road, Eastin Road, Fruit Avenue, Howard Road, McCraken Road, and Sycamore Avenue.

Highway Bridge Program Funds:

- Las Palmas Bridge over San Joaquin. Received \$88,530 for preliminary engineering (PE) phase.
- Milton Road Bridge over Rock Creek, received \$597,578 for PE phase.
- Sonora Road bridge over Martell Creek, received \$17,969 for PE phase.
- Hickman Road over the Tuolumne River, received \$1,471,988 for PE phase.

Highway Safety Improvement (HSIP) funds:

- Programmed federal funds totaling \$2,052,000 for PE, right-of-way, and construction phases for three projects to improve safety at:
 - 1. Lake Road
 - 2. River Road
 - 3. West Main Street
- South Ninth Street at Latimer Avenue, received \$99,893 for construction phase.
- Claribel Road at Burlington Northern Santa Fe railroad crossing, received \$21,110 for construction phase.

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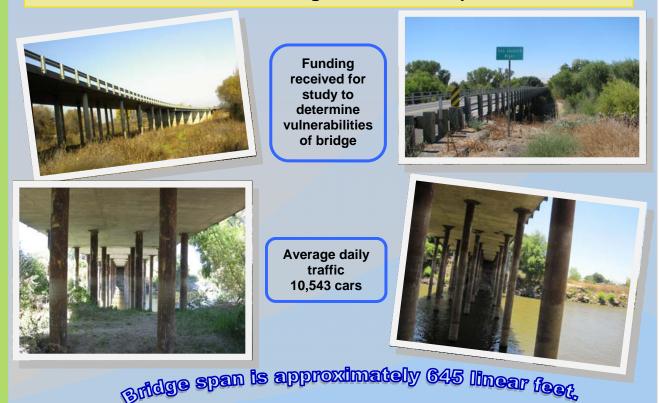
Construction, Mitigation & Air Quality:

 Purchase of heavy equipment to replace high pollutant vehicles — Received \$790,000 for a fully funded project.

Section Highlights:

- Claribel Road Widening It is the largest in-house design in at least 20 years. It is a \$10.5 million road widening project consisting of 4-lanes, a new canal crossing and a signal at Coffee Road and Claribel Road. Claribel Road Widening received National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) environmental clearance in May of 2012. This project is at 95% design and well into the right-ofway phase. Construction is anticipated to begin in winter 2013-2014.
- Parklawn Sewer Project plans were completed and Phase 1 of the project was bid out. The first phase of construction was approximately \$1.3 million and provides the groundwork for sewer service in the future to this community.
- Seventh Street Bridge project began in 2012, with the Project Approval and Environmental Document (PA/ED) phase begun. The Preliminary Environmental Study (PES) has been signed, field review completed and technical studies including traffic have begun on this important bridge.

Las Palmas Road Bridge over San Joaquin River





Crows Landing Road at West Main Street Improvement





All-way stop intersection is being designed for a signal with dedicated turning movements

12

Central Avenue & Taylor Road Realignment—Before



Vehicles will be able to travel through the curve safely without an obstruction of vision on both sides of the roadway, once realignment is complete.

13

Claribel Road Widening Project







The widening project will help reduce accidents and provide easy access to State Route 99!



Gas distribution line to be relocated and MID bridge replacement with pipe culverts.

14

Central Avenue in Turlock





Before...





Field visit at Pete Miller Road Bridge over Delta-Mendota Canal

Associate Civil Engineers Aja Verburg (pictured left), and Denis Bazyuk (pictured right)



Grayson Road, west of Modesto

RSTP-D Overlay Project



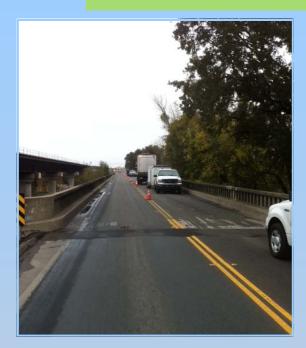
Before



After



Santa Fe over Tuolumne River Bridge



Goal: Structurally sound bridge and wider road!







Soil investigation with boring through the bridge deck.

ROAD OPERATIONS

16

2012 Accomplishments

Public Works supported the eight Municipal Advisory Committees by either having a representative at the quarterly meetings or by communication through email with the committee members to field concerns.



"LET THERE BE LIGHT!" Installing energy efficient induction lights obtained with the Energy Efficient Community Block Grant (EECBG) money.

Road Operations hired three employees to the Road Maintenance Worker I position to fill vacancies created by retirements. Two employees have continued with training classes to become the Department's inhouse electrical team. The formation of this team results in a considerable cost savings by reducing work orders sent to outside agencies and improving response times. Additionally, two employees have completed training classes to be the inhouse trainers for the aerial lift trucks used in tree and electrical maintenance. If needed, this training will allow them to train other County department personnel. The Roads Team worked cooperatively on paving projects with the City of Modesto and worked with the Public Works Construction and Design Engineering divisions to complete the roadway preparation work for the Regional Surface Transportation Program phase D (RSTP-D) resurfacing project.

The traffic team completed 725 miles of pavement striping. The road's team completed 61 miles of conventional chip seal on schedule; skip paved several bad sections of roadway at various locations, corrected defects found on the Caltrans Bridge Inspection Reports, and repaired guardrails, decking, approaches, signage, and removed underbrush and trees.

The Equipment Training Rotation Program for the employees encourages training and increases the employees' knowledge in every function of the Road Department. It also promotes advancement in their job classification.

The contract with an outside landscape company for the maintenance at the Westley Triangle Landscape and Lighting District was discontinued in 2011. The Road Team has continued to do the maintenance of the landscaped area at a lower cost and with a quicker response time.

2013 Forecast

Public Works will continue the Adopt-A-Road program in the communities of Hickman, Waterford, Salida, Denair, Knights Ferry, Diablo Grande, and Keyes of cleaning litter from the road shoulders.



ROAD OPERATIONS (CONT'D)

17

The bridge team will continue to partner on pipe replacement/repairs with the Central California, Modesto, Patterson, Turlock, and West Side Irrigation Districts.

The paving team will continue to work with the Public Works construction and design teams to complete the roadway preparation work for the RSTP and A slurry seal projects. This will be done by: completing road surface repairs, shoulder grading, drainage pipe replacement, storm drain installation, tree maintenance and skip paving.



Tree trimming.

The traffic team has completed a minimum of 750 miles of pavement striping.

The roads team will continue to improve cost management of the Community Service Areas (CSA) by consistent monitoring of expenses.

Additionally, the roads team has scheduled 75 miles of conventional chip seal for the fall of 2013; skip-pave several bad sections of roadway at various locations; install a Supervisory Control and Data Acquisition

System (SCADA) in the Salida Community Service Areas, which will allow for off-site monitoring of the storm drainage pump systems: schedule a culvert repair at the 10-mile mark on Del



Replacing an old high pressure sodium street light to the new induction lighting head.

Puerto Canyon Road; continue weed abatement activities on the road shoulders and at the drainage ponds locations; continue providing the maintenance at the Westley Triangle landscape area; continue with daily pothole patching, sign maintenance, and sign fabrication; will support the eight Municipal Advisory Committees (MAC) by either having a representative at the guarterly meetings or by communication through email with the committee members of field concerns: will continue to repair defects found listed on the Bridge Reports; will continue with cooperative work share agreements with different agencies; will continue with an aggressive shoulder maintenance program; and so much more.

In an effort to reduce copper wire theft the electrical team will continue trying different methods to make the christy boxes at street light and drainage basin locations tamper proof.

COUNTY SURVEYOR'S OFFICE

18

One of the major accomplishments in the County's Surveyors Office was the resurvey and establishment of a portion of the Township line lying between Township 2 South, Range 12 East and Township 3 South, Range 12 East, this is in the area around Warnerville and Crabtree Roads on the east side of the County.



Digging section corner position notice 4' x 2" I.P. laying on ground

The Township line was originally surveyed by the General Land Office (GLO) in 1853. A major component of the GLO survey being the Township Corner. The corner represents the position where four townships converge.

The township corner was perpetuated by County Surveyor Archibald Finney in 1904 as a part of County Survey #139. This position was reset by County Surveyor J.H. Hoskins in 1924 in an alternate position creating a discrepancy between the Finney and Hoskins surveys. Our survey (County Survey #1788) re-established the Finney line that fit the historical fence lines of occupancy and references from the original GLO survey. The survey was part of a solution brought on by land owners filing claims in court.



Pictured left to right: Chad Johnson, Larry Fontana, and Scotty Atchinson

Collecting GPS coordinate values at the re-established section corner.



Scotty stamping monument cap with section township, range information, and County Surveyor Wayne Sutveyor Wayne Sutton's Land Surveyor number.

Our indexing project of adding all of our surveying data to GIS Central has progressed this year by the addition of the County Surveys as a drop down menu. We are continuing to add the County Surveys by geographical location. We were able to scan all of the old tie cards that provide monument locations before Corner Records were required; these will also be added to the GIS system. We now have all of the Records-of-Surveys, Parcel Maps, Subdivision Maps, County Surveys and other pertinent survey related information available online to the public.



COUNTY SURVEYOR'S OFFICE (CONT'D)

19



Larry inspects the newly set County monument.

We also had lots of success with our monument preservation-conservation programs. As our roads crews re-surface the various roads within the county, we try to stay ahead of them with the locating of the existing subterranean survey monuments, installing a monument well and providing a corner record for future location of the monument. We completed Phase D from the RSTP road list. Many other monuments were recovered as we are working on a backlog of past road improvement projects.

One of the projects we look forward to in 2013 is a re-survey of a portion of the Stanislaus County line along our southerly border with Merced County. This will be a two phase project, with the first phase from the City of Newman northeasterly to the San Joaquin River. The second phase will be from Newman to the County's most southerly corner. We are working with the Merced County Surveyors Office on this project.



Larry and Scotty set a monument to re-establish the section corner.



Scotty drives a 4-foot iron pipe through the hardpan layer.



An 8" x 8" sandstone monument marks the township corner.

MORGAN SHOP

20

Where the magic begins...

*"*Look, I can touch the sky." Dave Stacy



"A little appreciation never hurts." Olivia Tanner







Morgan Shop staff from left to right ~ Front row: Eddie Soares and Brett Ernest. Back row: Olivia Tanner, Phil Harley, Roger Nelson, Rick McElligott, Mel Eslinger, and Dave Stacy (not pictured).

"May I help you?" Roger Nelson

MORGAN SHOP (CONT'D)

21

Class Motto: "There isn't anything too big that we can't fix."



Phil Harley Lead Equipment Mechanic

Phil Harley

Most Analytical

18 years of service

Favorite phrase: "In the battle of wits, don't bring your knife to a gun fight."

Most likely to... remember what you're wearing today, 20 years from now.



Olivia Tanner Staff Services Analyst

Olivia Tanner

Ms. Congeniality

16 years of service

Favorite phrase:

"Peachy."

Most likely to... drop everything to take care of your problems.



Most Energetic

30 years of service

Favorite phrase: "Let's make it happen or get it done."

Most likely to... be at work on his day off.



Mel Eslinger Manager III



"Okay boys, get a shovel and fill her up."



Super dumps and transfer trailers

MORGAN SHOP (CONT'D)

22



Roger Nelson Heavy Equipment Mechanic

Roger Nelson

Class Clown

20 years of service

Favorite phrase: "Have a nice day."

Most likely to... become a pit manager.



Rick McElligott Heavy Equipment Mechanic

Brett Ernest

Most Happy

9 years of service

Favorite phrase: "Where's my Starbucks?"

Most likely to... be found fishing on his day off.



Brett Ernest Heavy Equipment Mechanic



Dave Stacy Heavy Equipment Mechanic

Dave Stacy

Most Informative

11 years of service

Favorite phrase: "Mostly functional."

Most likely to... be the last man on Earth to own a Dodge.

Rick McElligott

Most Hardheaded

12 years of service

Favorite phrase "Get to work."

Most likely to... retire. Favorite phrase: "See what I'm

Eddie Soares

Most Animated

6 years of

service

sayin'."

Most likely to... save the world through recycling.



Eddie Soares Heavy Equipment Mechanic

FACILITY PROJECTS

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23
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Road and Parking Lot Improvements

BEFORE:

Employees

cars... after a rainstorm.



"Hi ho, hi ho, it's off to stripe we go...

needed a boat to get to their



EVENTS

24

Retirement Party for Brad Christian (16 years of County service) "More Golf, Less Work." (Quote on his new business card.)



Brad Christian was our Transit Division Manager. He will be missed!



"A hole in one retirement cake."



Brad Christian and Supervisor Dick Monteith



Diane Haugh, Brad Christian, Eunice Lovi, Julie Serrano, and Annette Borrelli



Brad Christian with future retirees Gary Hayward and Laurie Barton





Director, Matt Machado



Public Works Quarterly Safety Meeting



All together as one big happy Public Works family.



One interesting topic!

25

2012 Stanislaus County Diversity Awareness Week

Stanislaus County's Board of Supervisors proclaimed the week of September 30th through October 6th as "Stanislaus County Diversity Awareness Week." To promote cultural awareness, the Public Works Department held a cultural potluck. Employees were encouraged to bring a dish reflective of their culture or family tradition. The selection of food was absolutely amazing!





Nurse Sharon Andrews (Finance Division) and Skateboarder Charles the "Slammer" Vazquez (Design Engineering Division).





Now we know where the nickname SLAMmer came from. Lucky for Charles, Nurse Andrews to the rescue.



Employee Appreciation 2012



"Recognition is the greatest motivator." Gerard C. Eakedale



Where's the beef? Master Chefs Matt Machado (Director) and Dave Leamon (Manager) behind the grill.

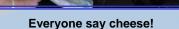


The best opportunity to take pictures: when people have a plate full of food in front of them!



Photo op!





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Employee Appreciation 2012



Bring on the cake!



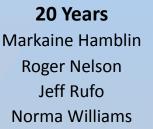
Is this going to be on Facebook?

2012 Service Award Recipients

5 Years

Brent Bonander Rich Brown Laura Janovich Sylvia Jones Matt Machado Joe Melo Edward Soares Kevin Thatcher Bryan Voyles Ronnie Willis 10 Years Annette Borrelli Larry Fontana Elliott Lea Michael Luevano Sherry May David Stacy Charles Vasquez **15 Years** Rodger Cole Larry McCormick Olivia Tanner







Roger Nelson (Morgan Shop)



Brent Bonander (Road Operations)



David Stacy (Morgan Shop)

28



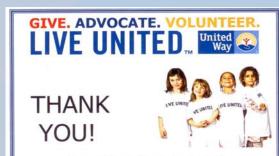


Heart Walk 2012

Public Works employees, coordinated by Sharon Andrews (Finance Division), donated \$630 to the American Heart Association.

United Way

Public Works' United Way coordinator is Sylvia Jones (Administrative Support). With her efforts, Public Works donated \$1,325 to the United Way of Stanislaus County in 2012.



We would like to thank employees at **Stanislaus County Public Works** for their generous donations to the United Way campaign. United Way brings our community's resources together, with service providers working and collaborating to address the greatest needs. Our entire community benefits from working together to advance the common good. Without your contribution, United Way would not be able to fund vital programs and services that make a difference in the lives of people. Now more than ever, individuals in our community need help with food, clothing, shelter, senior services, health care, crisis services, counseling and much more.

Total funds raised for 2012 campaign: \$1,325

Again, thank you for Living United and influencing the condition of all.







Public Works employees, thanks to the coordination of Julie Serrano (Finance Division), contributed \$410 to the American Cancer Society by participating in the Daffodil Days program. In exchange for their donation, employees received a bouquet of daffodils, or had the flowers anonymously delivered to cancer patients at medical centers and facilities in the community. Total bouquets sold: 16

29

River Clean-Up Project

Public Works coordinated a river clean-up project with the County Sheriff's Department, County's Department of Environmental Resources, Stanislaus River Trust Agency, and the City of Modesto's Water Quality Control Division on March 29th. The clean-up was at the underpass of Modesto's famous Lion Bridge located at 7th Street road and the Tuolumne River.

The result ~ Efficient delivery of public services through effective partnerships!!





After

Before



Christmas 2012







Public Works employees donated two big barrels of new toys to the Toys for Tots foundation coordinated by the Marine Corps.

CONTACT INFORMATION

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Public Works

209-525-4130

Administration Construction Engineering County Surveyors Office Design & Traffic Engineering Finance Geographic Information Systems Morgan Shop

1010 10th Street, Suite 4200, Modesto 95354



Public Works

209-525-4130

Development Services

Encroachment Permits Transportation Permits

Transit

You may also contact us by submitting your questions or concerns online at:

www.stancounty.com/customercenter

or Stanislaus County's assistance hotline at 1-877-2ASSIST (1-877-227-7478).

BOARD OF SUPERVISORS



William O'Brien District 1 Chairman



Vito Chiesa District 2 Vice-Chairman

^{IN} Terry Withrow District 3



Dick Monteith District 4



Jim DeMartini District 5

