



Water Division

Budget Presentation 2021-23

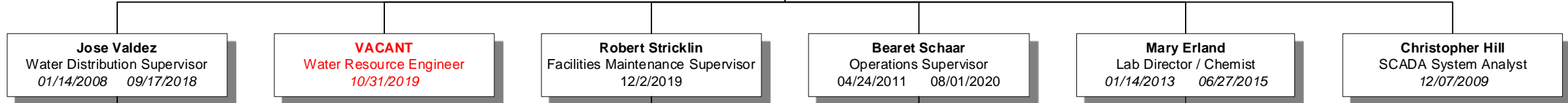




Water Division

Shaun Ryan
Water Superintendent
04/16/2007 03/18/2019

Lori Valdez
Office Staff Assistant III
09/10/2007, water 07/14/2014



John Daniel
Lead Water Distribution Operator
04/07/1990 lead 09/25/2010

Distribution

John Heter
Sr. Water Distribution Operator
06/03/1993

Dana Drake
Sr. Water Distribution Operator
01/26/2004

Gabriel Bustamante
Sr. Water Distribution Operator
11/09/1996 dist 08/27/2012

Jason Rupe
Water Distribution Operator
05/20/2000 dist 02/10/2018

Cale Maurice
Water Distribution Operator
05/13/2019

Saul Chavez
Water Distribution Operator
10/30/2010 dist 8/3/2020

Meter Shop

Saul Salazar
Sr Water Meter Maint. Tech.
04/07/2003, dist 09/15/2008

Armando Zepeda
Sr Water Meter Maint. Tech.
04/24/1999, dist 02/28/2011

Maintenance

Shawn Wynne
Sr Water Plant Technician
11/03/1992

Mario Santiago
Sr Water Plant Technician
04/14/2003

Albert Diaz
Water Plant Technician
05/08/2017, wat 10/26/2018

Rudy Zazueta
Water Plant Technician
11/06/2010 maint 01/02/2020

Operations

Jason Billips
Water Plant Operator II
10/31/2011

Jared Standiford
Water Plant Operator II
03/16/2015

Martin Kourakos
Water Plant Operator I
07/26/2019

Joe Martinez
Water Plant Operator I
8/31/2020

Ian Hunt
Water Plant OIT
10/26/2020

Maureen Concha
Laboratory Technician Trainee
12/5/2020

Water Division Mission Statement

- ◆ *To produce, treat, and distribute an adequate supply of safe drinking water to the citizens of Lompoc.*
- ◆ *To foster a working environment, with our customers and co-workers, that furthers an atmosphere of courtesy, integrity, safety, and quality service provision.*



Services

- Provide supervision and direction of all activities in the Water Division.
- Protection of the City's water rights to groundwater and surface water recharge resources.
- Promptly responds to customer questions and problems.
- Provides customer assistance with water conservation, and programs.
- Maintain 135 miles of water mains, as well as reservoirs, valves, and meters, make emergency repairs, promote customer service, read all water and electric meters, and administer the City's backflow/cross-connection.
- Provides outreach and education to the public on water environmental issues.

Accomplishments for FYs 2019-2020

- Restoration of the third of four Dewatering Units at the Water Treatment Plant Facility. Restoring the unit increased operational flexibility.
- Completed a major retrofit of existing back-up generator to support business continuity during loss of utility power.
- Rehabilitation of Well #5.
- Completed the required annual Environmental Laboratory Accreditation Program (ELAP), utilizing The Nelac Institute (TNI) international standards adopted in 2020-21.



OBJECTIVES for FYs 2021-2023

- Water Distribution Main replacement – Plan and design future phases of the distribution main as part of a comprehensive asset management program.
- Installed new lime slaking system. Continue to optimize plant operations.
- Continue to upgrade and improve the meter reporting capabilities, accuracy, and efficiency of the radio and mechanical water meters to ensure proper billing and to assist with customer understanding of meter reads .
- Support conservation activities consistent with regulatory and council policies.
- Establish new financial reporting funds to better reflect sources and uses of designated activities. Such activities include existing water retrofit resources and programs, vehicle replacement program, renovation and replacement (R&R) of infrastructure, and other programs not directly related to the operations of the water system.
- Complete needed security upgrades at the treatment plant, the four reservoir sites, and the pumping station.



Wastewater Division

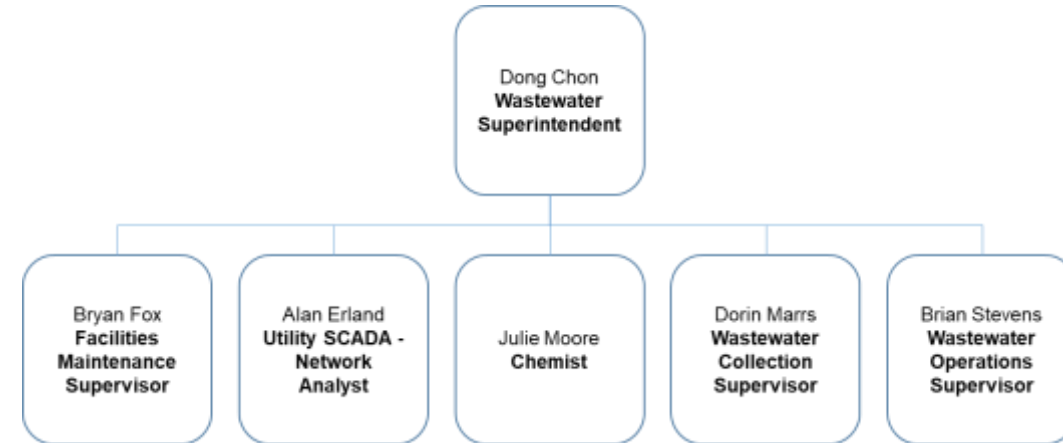
Mission

We, the employees of the Wastewater Division of the Utilities Department of the City of Lompoc, will provide our residential and business customers, with safe, efficient and reliable collection and treatment of their wastewater. As well, we will provide treatment and disposal of wastewater for two agencies; Vandenberg Air Force Base and Vandenberg Village Community Service District. We will work to meet or exceed all regulations by operating our plant in a safe and efficient manner. We will accomplish this in a work environment that promotes teamwork and professionalism.

Services

- Provide supervision and direction of all activities of the Wastewater Division including but not limited to the Operations, Maintenance, Collections and Laboratory Departments.
- Ensure compliance with regulatory requirements of the treatment process.
- Provide preventative maintenance and repair of the sewage collection system.
- Develop and administer comprehensive asset management programs to protect ratepayer investments.

Wastewater Division Team



Wastewater Division Accomplishments 2019-21

- Expanded our porta potty program
- Hauled 2,477 tons of biosolids to certified composting facility per the hauling contractors certified scales.
- Completed contract with Vandenberg Air Force Base to haul their biosolids
- Contracted to review and upgrade the Plant's Supervisory Control and Data Acquisition (SCADA) system to allow access to the system's advanced management capabilities.
- Enhanced plant physical security system by repairing perimeter fencing, installing a CCTV camera system and a fire/intrusion alarm service all monitored 24 hours a day 7 days a week..
- Improved Final Effluent Structure.
- Reinitiated and updated pretreatment programs.



Wastewater Division – Goals & Needs

- Complete replacement of Vandenberg Village Community Services District's transmission line.
- Identification of new or more restrictive National Pollutant Discharge Elimination System (NPDES) permit requirements and implement process changes or system enhancements to meet the new or more restrictive NPDES requirements.
- Institute a new Computerized Maintenance Management System (CMMS) for the Operations, Maintenance, Collections and Laboratory departments.
- Implemented remote plant operations via SCADA thru a dedicated remote laptop carried by the designated on call operator as a replacement for the graveyard shift.



- Optimize oxidation ditch process maintaining the proper dissolved oxygen set point is essential as both too low and too high oxygen levels hinder process functions and efficiency.
- Plan and design the decommissioning of abandoned facilities from the 1974 plant.
- Replace equipment in the effluent structure due to predictive analysis indicating end-of-life.
- Improve Headworks to optimize screening debris and grit removal from raw wastewater.
- Improve emergency holding basin for proper drainage and lining.

Electric Division

Mission

The mission of the Electric Utility Division is to provide safe and reliable electrical energy to the residents, businesses, and industries of Lompoc. Staff will also provide Professional Electrical Engineering and Construction Services to other City Departments/Divisions and current/future Commercial and Residential Customers to facilitate Economic Development and Public Safety Goals.

Services

- Commercial/residential electric services: design, construct, operate, maintain, and repair overhead/underground electrical service distribution system interconnection infrastructure and revenue metering equipment for customers.
- 4-kV, 12-kV, and 115-kV electric infrastructure: design, construct, operate, maintain, and repair all City-owned Bulk Electric Transmission and Distribution System Energy Control and Delivery Equipment, along with all jointly-owned power poles within the City.
- Energy supply resource planning/procurement and legislative/regulatory analysis.
- Respond to electric/cable/phone trouble calls.
- Economic Development consisting of: design and construction of new electrical services for commercial customers; and develop/negotiate distribution line extension agreements with new customers.
- Maintain compliance with regulatory agencies.
- Energy conservation/efficiency services, rebates, and Low-income assistance.



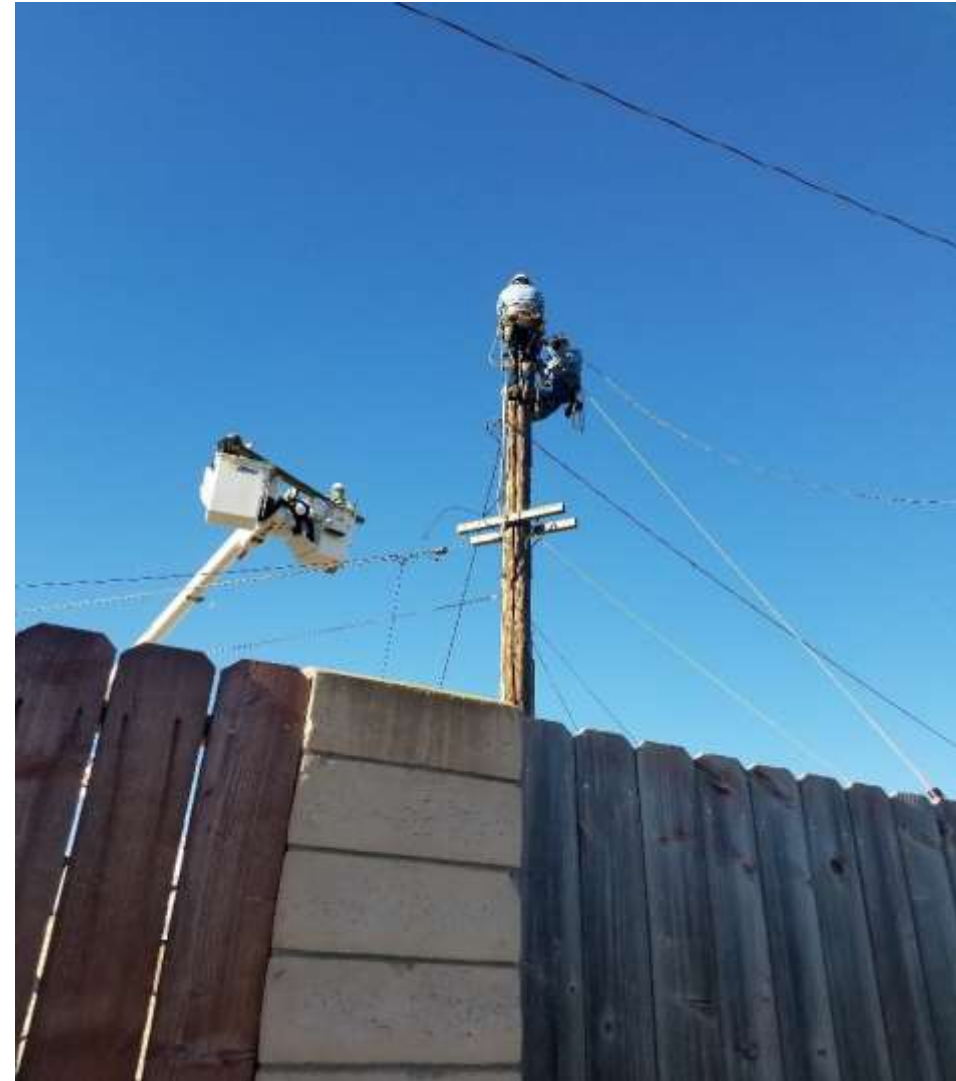
Electric Division Accomplishments 2019-21

- Created an approved Wildfire Mitigation Plan and completed all infrastructure work identified in plan for overhead lines located within or adjacent to areas prone to fire danger.
- Completed 12kV 600 amp cable replacements project along Central Avenue from D Street to L Street.
- Designed and managed directional drilling projects throughout city to convert existing radial feed underground circuits to loop feed.
- Utilized Garmin Geo 7X GPS device to identify, catalogue, and GPS mark electric utility assets.
- Repaired and Updated SCADA SEL 3355 CPU.
- Annual testing and inspection of distribution automation switches and to enhance system performance and reliability.
- Testing and inspection of Receiving Station Batteries Annually – Pursuant to NERC PRC-005-2.



Electric Division Objectives 2021-23

- Recruit and retain qualified staff.
- Restart 4kV to 12kV conversion project.
- Develop a comprehensive energy strategy.
- Develop asset management programs.
- Secure adequate long-term energy supply.



Electric Division Objectives 2021-23

- Continue wildfire mitigation protocol – inspections and maintenance.
- Complete required General Order 165 patrols and inspections.
- Develop a system plan.



Electric Division Objectives 2021-23

- Perform inspection of the receiving station's transformers to estimate the remaining utility life of the transformers.



Electric Division Objectives 2021-23

- Replacement of 115 kV bushings on two 25MVA transformers at the receiving station.
- Replacement of three LTCs.
- Replace nine 12 kV vacuum breakers at the receiving station



Electric Division Accomplishments 2019-21

- Replaced all 12kV pad-mounted rotary puffer SF6 gas switches in northern portion of city with linear puffer style to increase reliability.
- Designed and managed directional drilling projects throughout city to convert existing radial feed underground circuits to loop feed. Assisted City of Lompoc Police Department with security camera installations citywide.
- Utilized Garmin Geo 7X GPS device to identify, catalogue, and GPS mark numerous electric utility assets including.
- Utilized GIS software, and spatial analysis techniques to assist in identifying overhead electric infrastructure to support wildfire mitigation plan development.
- Utilized GIS system and techniques to assist compliance officer with cataloguing, organizing, and centralizing data crucial to compliance reporting.
- Repaired and Updated SCADA SEL 3355 CPU.
- Annual Testing and Inspection of Field Distribution Automation Switches and Alarms for SCADA to enhance system performance and reliability.
- Testing and inspection of Receiving Station Batteries Annually-Required for protection and operations (NERC PRC-005-2).



Electric Division Objectives 2021-23

Performance Measures	FY 2019-20 Actual	FY 2020-21 Target	FY 2021-22 Target	FY 2022-23 Target
Regulatory compliance	100%	100%	100%	100%
Availability (non-PGE outages)	99.9%	99.8%	99.8%	99.8%
Single outage response (within 30-min)	100%	100%	100%	100%
Lost injury workdays (days)	0-days	0-days	0-days	0-days
Total energy billed to customer (MWh/yr.)	128,841	130,129	131,430	132,744
Total energy delivered to system (MWh/yr.)	133,591	134,927	136,276	137,639
Total Addition to Net Position	-3%	TBD	TBD	TBD
Total meters	15,027	15,102	15,178	15,254

Broadband Division

Mission

Provide reliable and economical Internet access, via wireless technologies, to the residents of Lompoc, where available. Provide networking, IT, and communications expertise to all City departments; and assist in the research and implementation of new technologies. Provide accurate and reliable utility billing meter information using fixed network assets. Ensure provision of the best service possible with available resources and proven technology. Provide an exceptional public access media center in Lompoc for Public, Education and Government (PEG) cable programming; to operate and maintain our LPFM radio station for entertainment and public information; to ensure PEG access programming for the City of Lompoc Television Access Partners TV (TAP TV).

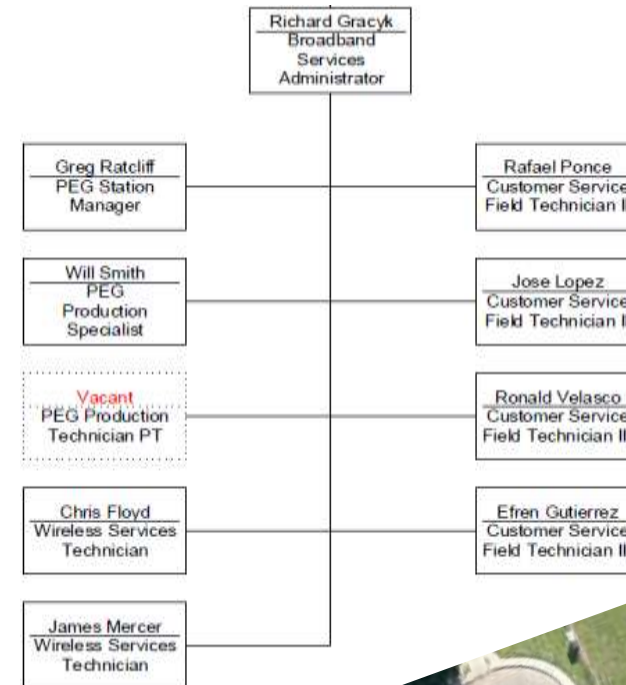
Services

- Public Internet
- Wide area networking for City functions
- Phone system provision, cellular and landline
- Utility Billing support through fixed-network meter reading
- Drone pilot and aerial photography services
- Alarm system connectivity and management
- Facility and Street camera recording and network access
- Provide three channels of public access television
- Operate KPEG 100.9 radio station

Program Goals

- Keep everybody connected via wide area networking for computers, phones, and video.
- Keep everybody listening and watching our Media Center content.
- Keep everybody's utility bills accurate and timely.

Broadband Division Team



Broadband Division Accomplishments 2019-21

- Replacement of TAPTV master control.
- Installation of over 160 street and facility cameras.
- Integrate the landfill into City-wide camera system.
- Install network backhaul at Thompson Park.
- Acquire FAA drone operator license.
- Purchase and implement generator for KPEG transmitter site.
- Install voice recorder for transit system.
- Perform annual maintenance on the H St street-clock.
- Integrate KPEG broadcast directly from the EOC.
- Upgrade telephone PBX to latest revision.
- Upgrade Fixed-network to 4G cellular data.
- Implement newest Itron Mobile Radio gear.
- Decommission TAPTV mobile studio van.
- Remove and stage Nighthawk cellular electric meters and ready for reinstallation.
- Install 2500+ 100W water meter ERT's.

- Major Projects In-process:
 - Alarm system redirect to outside monitoring firm.
 - Upgrade City data circuits.
 - New Ryon park cell site negotiations.
 - Recording and archiving of video throughout city facilities.
 - Utility billing transition to Tyler-Munis.



Broadband Division – Needs

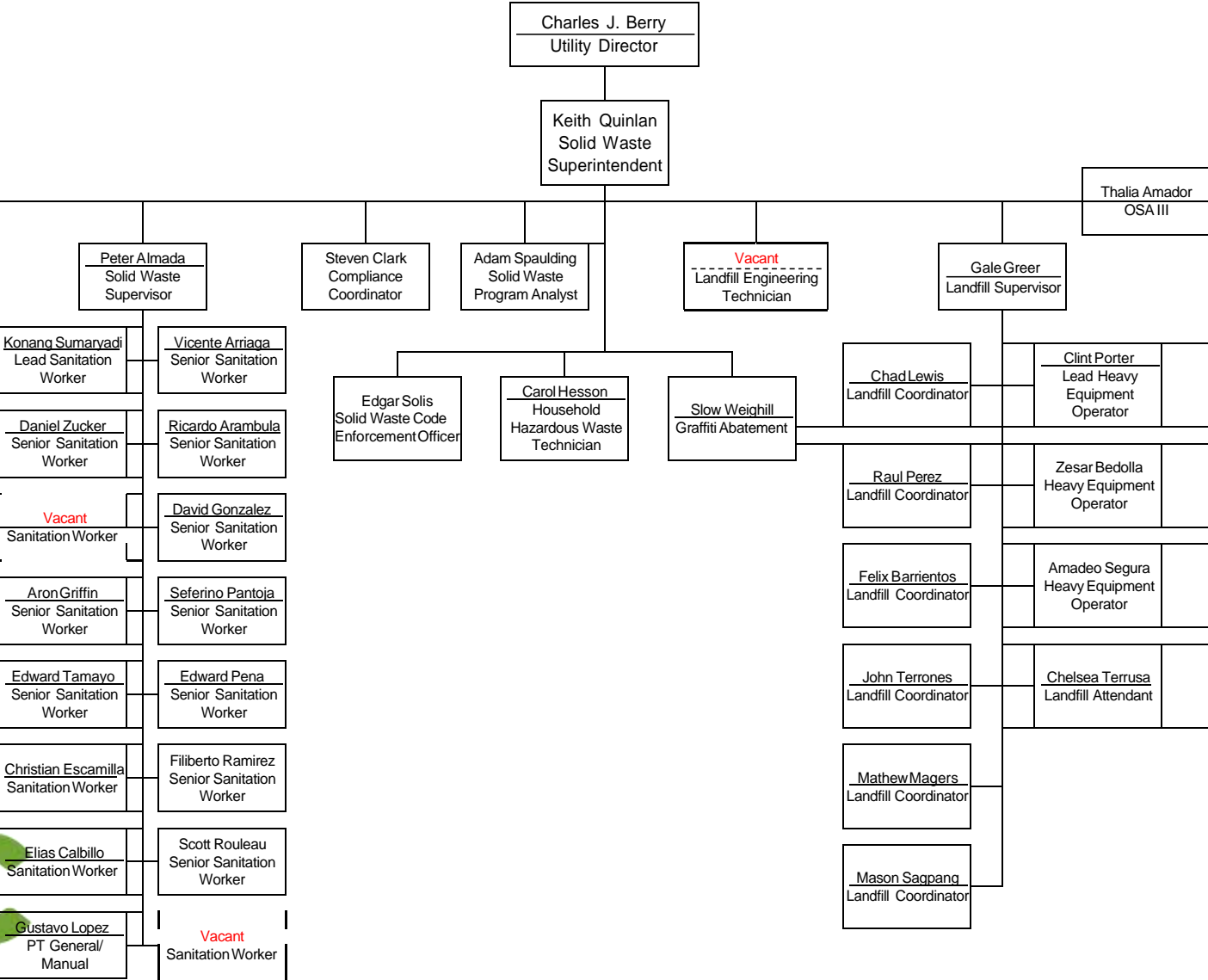


Needs:

- Continue building City-Wide fiber network ring.
- Implement stand-by generator for O Street reservoir network, scada, and radio facilities.
- Bucket truck for maintenance and replacement work.
- Mesh network update, or decommission.
- Climate-controlled enclosure for KPEG transmitter.
- TAPTV studio equipment upgrade/update.
- Replacement of one customer service work vehicles.
- Provide a solution for remote turn-off electric meters.
- Continue replacement of 100W water ERT's in conjunction with water meter personnel.

Solid Waste Division

Budget Presentation 2021-23



Solid Waste Division

MISSION

Provide the residential & business community of Lompoc with an integrated waste management system, which will protect Landfill capacity, conserve natural resources; promote effective waste management & recycling, in a safe, cost-effective & environmentally friendly manner, while providing exceptional customer service & facilitating economic development.

Services

Administration. Plan, direct, & evaluate the activities of the Solid Waste Division.

Refuse & Recycling Collection. Provide refuse collection & commingled & greenwaste recycling to our residential & commercial customers.

Refuse Disposal Facility. Provide a well maintained & managed disposal facility.

Hazardous Waste. Provide a safe, efficient manner for residents & small businesses to properly dispose of hazardous materials including used oil, Electronic waste & Universal waste.

Code Enforcement. Provide Solid Waste Code Enforcement to ensure code violations, substandard trash removal, & related problems are corrected to comply with appropriate City Ordinances & State Regulations.

Street Sweeping. Provide a monthly street sweeping program as well as target specific areas in order to enhance the cleanliness of our community.

Public Education. Provide public education on up-to-date methods and procedures of efficient waste management.



Solid Waste Division Accomplishments 2019-21

- Secured low interest loan financing for Landfill Gas Collection and Control System (LFGCCS) from CalRecycle . Work is complete and system is operational.
- The recycling or diversion rate, for 2019 was 66%, 2018 was 65%, 2017 was 66%, and is estimated to be at 66% for 2020 .
- Landfill Drainage Improvements including sediment excavation of detention and sedimentation basins, increased use of wattles, wet weather disposal area enhancements, and reconfigured western storm drain to slow velocity.
- The Landfill managed 41,640 tons of trash for FY 19/20. It is estimated that the Landfill will handle 42,972 tons of trash for FY 20/21 .



Solid Waste Division – Objectives 2021-2023

- Continue to improve the appearance of the City by administering a Solid Waste Code Enforcement program . Expansion of alley clean-up & education program.
- Continue to improve upon all recycling activities to maintain the State mandated goal of 50 percent reduction .
- Maintain a positive public image, provide excellent customer service, & facilitate economic development .
- Establish new financial reporting funds to better reflect sources & uses of designated activities. Such activities may include vehicle replacement program, renovation & replacement (R&R) of infrastructure, & other programs not directly related to the operations of the solid waste system .
- Evaluation & possible implementation of existing and new internal services which would improve the efficient & cost effective delivery of services to City facilities & programs that would enhance the revenue stream for the Solid Waste utility .
- Comply with State Unfunded Mandates(e.g. SB1383)





Solid Waste Division

2021-23 Needs

<u>Division</u>	<u>Needs</u>	<u>Purpose</u>	<u>Annual Cost</u>
Sanitation	None		\$0
<i>Planning Division Total</i>			<i>\$0</i>
Landfill	Change Heavy Equipment Operator II (HEO II)	Convert from HEO II to Eng. Tech	-\$90,000
	Landfill Engineering Technician (1 FTE)	Landfill Engineering	\$90,000
<i>Building Division Total</i>			<i>\$00.00</i>
Administration	Solid Waste Program Technician	Addition of SW Program Technician to address State regulations for diversion programs (SB1383, etc.)	\$86,000
<i>Solid Waste Division Total</i>			<i>\$86,000</i>
<i>Solid Waste Division Total Needs</i>			<i>\$86,000</i>