

# PUBLIC UTILITIES



**Annual Report  
Fiscal Year 2009-2010**

**PUBLIC UTILITIES DIVISION  
CITY OF BRENHAM  
FY 2009-10**

The Public Utilities department has the responsibility of overseeing the day-to-day operations of 11 departments that make up the city's utility funds. The department maintains the infrastructure and is responsible for providing the utilities for the city of Brenham. These departments include Electric, Gas, Water Treatment, Water Distribution, Wastewater Collection, Wastewater Treatment, Collection Station, Transfer Station, Residential Collection, Recycling and Utility Billing. These departments serve more than 7,500 customers to provide them with safe, dependable natural gas as well as drinking water, environmentally sound wastewater treatment, street lighting for making neighborhoods safer and municipal power. Each department has a superintendent reporting directly to the Director of Public Utilities and Assistant Director of Public Utilities.

*Administrative Personnel*

Lowell Ogle	Director of Public Utilities
Dane Rau	Assistant Director of Public Utilities
Nancy Stafford	Administrative Assistant
Cindy Turnbow	Administrative Secretary
Michele Glenz	Pre-Treatment Coordinator
Kyle Branham	Mapping Technician
Daniel McCracken	SCADA System Manager

The department receives and dispatches calls for all of the utility departments including power outages, sewer backups, water and gas leaks, emergency disconnects for repairs to be made and reconnects when repairs are complete. During this fiscal year the department received and dispatched over 2,500 calls and called in 1,510 utility line locates for field departments.

The department issued 348 new utility taps which included 99 water, 67 gas, 70 electric, 21 irrigation and 3 firelines.

The infrastructure for utilities demands a set of sound practices to maintain the quality of service the city of Brenham's Public Utility Department provides. Departmental staff regularly attends conferences and seminars to stay current on utility industry issues. Those issues consist of safety as well as new regulations concerning municipalities. Key personnel are continually involved with industry groups and associations so that Brenham utilities continue to advance in all aspects of the organization. Some of this involvement includes serving on committees and as board members.

The department interacts with multiple federal and state regulatory entities through reports and inspections. These agencies include, but are not limited to, the Environmental Protection Agency (EPA), Energy Information Administration, North American Electric Reliability Council (NERC), Texas Commission on Environmental Quality (TCEQ), Texas Water Development Board, Texas Railroad Commission and the Electric Reliability Council of Texas (ERCOT).

The department is also directly responsible for the city's wastewater pretreatment program, backflow prevention program, utility mapping GIS and SCADA system operation.

The pretreatment program samples, monitors and inspects some of the city's largest wastewater customers. This sampling is used to control pollutants from the industrial user which may pass through or interfere with POTW (Publicly Owned Treatment Works) treatment processes or which may contaminate sewage sludge. The backflow prevention program maintains a database of installed backflow prevention devices and insures those devices are tested on an annual basis.

The pretreatment program has 3 major industries. They are the Blue Bell Snack Plant, Blue Bell New Plant and Longwood Elastomers.

The Pretreatment staff, along with Steve Barry of Jones & Carter, Inc., have made the modifications required of the Pretreatment Program. This modification involved establishing the TBLLS (Technically Based Local Limits) and modifying the narrative portion of the program. The program was revised in March, 2010 and we are waiting for the TCEQ's final approval in order to implement the modifications.

The City of Brenham Public Utilities staff, along with Camp Dress & McKee (CDM), have been working on the implementation of a FOG Control Program (fats, oils and grease). In November, 2009, Phase 2 of the program began. Phase 2 consists of the following four tasks:

1. Establish Legal Framework
2. Identify City's Authority Structure
3. Identify Funding Sources
4. Select a Program Approach

During the fiscal year 09 – 10, the Pretreatment Department conducted 3 plant inspections, conducted 17 sampling visits checking for levels of metals, cyanide and oil and grease and conducted 12 sampling visits to the major industries for BOD (biochemical oxygen demand) and TSS (total suspended solids) for surcharge purposes. The total revenue collected from the industry surcharges were \$364,183.96.

Utility mapping is responsible for maintaining and updating the city's utility maps. These maps show all manner of utilities, such as depth, position and type allowing department superintendents to plan their work accordingly.

The SCADA department is responsible for the maintenance of the SCADA system. The system monitors the city's gas, water, wastewater and electrical systems as well as the automation of operations at the Water Treatment Plant.

During the 2009 – 2010 fiscal year, the SCADA department:

- ❖ Generated over 3000 pages in reports and operator summaries as well as implementing an ftp server to store electronically all reports.
- ❖ Paged out over forty alarms alerting personnel of abnormal conditions
- ❖ Installed 7 new RTUs in the field
- ❖ Expanded the SCADA database by 420 points
- ❖ Connected 4 Electric re-closers and implemented a new radio system to the SCADA infrastructure allowing the electric department to monitor the re-closers.
- ❖ Implemented and installed the first phase of a redundant network for SCADA use.
- ❖ Purchased the DNP license for use on our SCADA system to communicate to electrical relays.

### Achievements

Utility sales for the 2009-2010 fiscal year were as follows;

271,030,022 KWHs (an increase of more than 60,000 KWHs from 2009)

443,345 MCFs (an increase of 23,000 MCFs from 2009)

764,997,700 gallons of water (a decrease of more than 161,000,000 gallons from 2009)

727,301,000 gallons of wastewater treated (a decrease of more than 35,000,000 gallons from 2009)

During this fiscal year Public Utilities presented several items to Council for discussion and action to be taken. Those items were:

- ❖ Discussion and approval of the continued leasing of the Old Landfill Property;

- ❖ Bid No. 10-006 was presented to the Council for discussion and multiple contracts were awarded for Bulk Water Treatment Chemicals for the Water Treatment Plant.
- ❖ Bid No. 09-011 was presented to Council for discussion and contract was awarded for Sodium Chlorite with an annual renewable option for the Water Treatment Plant's Chlorine Dioxide Treatment Program.
- ❖ Authorized the final payment, in the amount of \$57,532.02 to Fuqua Construction Co. Inc. for the total rehabilitation of the raw water intake structure at Somerville Lake.
- ❖ Awarded contract to Matula and Matula Construction, Inc. in the amount of \$523,863.80 for Phase II of the West Side Water System Distribution Improvements including Alternate Bid No. 1.
- ❖ Authorized final payment to Landmark Structures I, L.P. for their work performed on the West Side Water System Improvements 500,000-gallon composite elevated water storage tank. Final payment was in the amount of \$66,838.75.
- ❖ Presented and discussed the Automated Meter Reading (AMR) Pilot Program to City Council regarding electronic meter reading.
- ❖ Council approved a request to extend water services outside City Limits to 2175 Old Mill Creek Road.
- ❖ Bid No. 09-019 was presented to Council and approved for the installation of one (1) Headworks mechanical screen device at the Wastewater Treatment Plant.
- ❖ Presented Resolution No. R-09-025 in which Council approved the acceptance of a grant in the amount of \$250,000 from the Texas Department of Rural Affairs for the renovation of the Henderson Park Lift Station.
- ❖ Bid No. 10-001 was presented to Council and a contract awarded for Bulk Fine Quicklime for the Wastewater Treatment Plant.
- ❖ During the 2009 – 2010 fiscal year the Utilities Staff presented to Council Bid No. 10-005. The bid was granted and a contract was awarded to Central Poly, Inc. in the amount of \$56,900 for the purchase of 10,000 rolls of refuse bags.
- ❖ On August 30, 2010, an agenda item was presented to council to discuss and possibly act upon the acceptance of a grant in the amount of \$16,622.05 from the Brazos Valley Council of Governments (BVCOG) Solid Waste Grants Program for the purchase of a ¾-ton pickup truck to be utilized by the Recycling Center. Resolution was granted.

## UTILITY CUSTOMER SERVICE DEPARTMENT

The Utility Customer Service Department is responsible for providing excellent and efficient customer assistance which includes establishing new accounts, disconnects and transfer of services. Customers are offered several avenues of payment which include bank or credit card drafting and online payments. Payment arrangements are also provided to avoid disconnect for non-payment.

Other important functions are meter reading/customer service, mail room, billing, late notices, and cash collections which include the posting of all cash transactions for every department in the City i.e. Collection Station, Recycling Center, Aquatic Center, Library, Main Street, Public Works, Public Utilities and Animal Shelter. The Incode Computer System is maintained in this department with daily backups, live updates, and the administrative setup of employees and security. Laser fiche access is also assigned in this department when authorization is received from management. All meter reads are keyed in handhelds which Datamatic uploads to Incode for processing utility bills. We currently have 1284 AMR meters installed in the field which interfaces to our Incode billing system.

The Utility Clerks work closely with Faith Mission and BVCAA who request information on a regular basis for customers seeking assistance in paying their utility bill.

The department also provides monthly reporting and governmental reporting for various agencies.

### Utility Billing Personnel

Wanda Kramer	Utility Customer Service Supervisor
Shelley Schluens	Assistant Utility Customer Service Supervisor
Nadine Layton	Cashier
Linda Mooney	Utility Clerk
Denise Pappas	Utility Clerk
Gladys Hodde	Utility Clerk
Jordan Prigge	Meter Technician
Brandon Fielding	Meter Technician
Derrick Rogers	Meter Technician

Service Awards                      Linda Mooney                      15 years

Meter technicians received class training in safety procedures and are educated in meter reading and techniques to recognize theft of electricity. They also received instructions for the use of the AMR pocket reader. Meter technicians received a new Ford Ranger pickup truck.

### Achievements

Processed 93,459 utility bills resulting in revenues of \$37,019,424  
Assessed 14,770 penalties resulting in revenues of \$332,763  
Processed 16,201 ach payments in the amount of \$12,829,320 and sent 1,571 e-bills.  
Read over 236,628 meters; imported 2,751 AMR readings.  
Issued 6,407 customer service orders of which 895 were meter changes.

Customers Assisted:

1,239 new customer applications  
29,898 payments at the drive thru  
20,307 payments in the lobby and 26,721 mail payments.

## ELECTRIC DEPARTMENT

The Electric Department is responsible for the operation and maintenance of 119 miles of distribution feeder lines. Electricity is delivered to the substations at 138,000 volts and is “stepped down” to 7,200 volts through transformation. The electric system distributes that power throughout the city and it is eventually reduced to required voltage levels with transformers placed at each home or business.

The Electric Department is dedicated to delivering dependable, uninterrupted electrical service to the residents and businesses in Brenham. Over the years, the City of Brenham Electric Department continues to improve upon systems and processes to bring reliable electricity to our area.

As of September 2010, the system served more than 6,879 customers and maintains over 1,242 street lights.

### Electric Department Personnel

Alton Sommerfield	Superintendent
Don Bolenbarr	Assistant Superintendent
Brett Church	Senior Lineworker
Paul Kasprowicz	Senior Lineworker
Jesse Vela	Lineworker II
James Antkowiak	Lineworker I
Ryian Marshall	Lineworker I
Curtis Martin	Lineworker I
Jason Lange	Lineworker I
Luke Ondugu	Apprentice Lineworker
Morgan Culbertson	Meter Technician

<u>Service Awards</u>	Jesus Vela, Sr.	15 years
	Ryian Marshall	10 years
	Alton Sommerfield	30 years
	Brett Church	15 years
	Jason Lange	5 years

This department has completed numerous small projects to upgrade or replace short sections of problem lines. In prior years the focus has been more on system automation, so the next few years will be directed more to system hardware type improvements. This will include improvements like replacing sections of old conductors, overloaded transformers, along with identifying and replacing bad equipment. The department also has a meter replacement program to insure meter accuracy.

The Electric Department continues to implement the rotten pole change out program replacing poles that have rotted or have been damaged. Approximately 20 poles per year are replaced thereby improving reliability as well as improving the safety to the public, personnel and equipment. The department also continues to carry out the tree and vegetation control program increasing system reliability by reducing tree related outages and reducing damage claims resulting from these tree related incidents.

The department is working with Blue Bell to remove PCB and old transformers at the old mill site. A lot of the transformer capacity is no longer needed and is just setting idle using unnecessary energy.

Continue the overhead to underground conversion in the Walnut Hill Subdivision. The conduit and wire has been installed internally (in the back yards) only a portion of the subdivision has been converted.

Projects completed during fiscal year 10.01.09 – 9.30.10

- ❖ Main feeder rehab on Mansfield from S. Park to Chappell Hill. Rehab consisted of replacing 20 poles, updating crossarm units and upgraded transformers.
- ❖ As part of staff capital projects, 20 poles per year are changed out.
- ❖ Contractors conducted a rotten pole change out in backyard easements starting at 2401 Airline and ending at 2427 Airline.
- ❖ Converted 2500 feet of overhead primary conductor to underground service in the Walnut Hill subdivision.
- ❖ Installed new service in the new Ruth Circle subdivision.

### **Working on Getaways**



### **Transformer Installation**



### **New A-Frames**



## GAS DEPARTMENT

The Gas Department is responsible for the maintenance and operation of 115 miles of gas mains and served 4,421 customers as of September 2010.

### Gas Department Personnel

Ande Bostain	Gas Superintendent
Joe Moore	Customer Service/Gas Tech II
Gary Marburger	Gas Tech II
Haney Wilkerson	Gas Tech II
Chris Bugai	Gas Trainee

Natural gas is delivered to the city's main gate station at a pressure of over 600 psi. The pressure is reduced to approximately 400 psi and odorant is added for safety purposes. The gas is transported to the city's two other "gate" stations where the pressure is reduced to 60 psi or less. The gas is then distributed through a system of mains ranging in size from 1-1/4 inches to 6 inches in diameter and is delivered to homes and businesses at pressures from 4 oz. to several pounds. The Gas Department is dedicated to providing safe and reliable gas service to its' customers.

<u>Service Awards</u>	Ande Bostain	25 years
	Haney Wilkerson	15 years

### Utility Awards

For the fourth year in a row, the City of Brenham Gas Department has been congratulated on its "excellent" performance rating. This department has achieved four '100' ratings in the past six years and '99' or better in the last seven years. The department has been awarded the Gas Utility System Excellent Compliance Award by the TML Intergovernmental Risk Pool.

### Achievements

The department replaces a certain amount of steel mains and services with polyethylene pipe each year to reduce leakage and increase system reliability. Replacing these lines with polyethylene will help the department become more efficient as the polyethylene mains require less maintenance and are less prone to leakage and not susceptible to corrosion.

The department's meter replacement program changes out older meters to insure gas measurement accuracy. Also, a painting plan is in place to maintain gas facilities and meters and to prevent atmospheric corrosion. During the fiscal year 2009-2010 the department painted more than 350 meter loops.

The department completed over 961 work orders including 70 new services, replaced or removed 5 separately protected services lines, abandonment of 7 old service lines, reworked the meter loop and replaced the meter at 149 locations, repaired 104 meter loop leaks, repaired 30 main line leaks and repaired 16 service line leaks. The department also replaced 31 steel services with polyethylene, added 120 excess flow valves to system services, and removed 149 old or stopped meters from system. The department also added 313 AMR meters or upgrades to the system.



Other work completed by the department included:

- ❖ Installed 2,467 ft of 2" polyethylene gas main for Lauraine St. to 1808 Hwy. 105.
- ❖ Installed 1,234 ft of 2" polyethylene gas main for 1300 to 1160 Hwy 290 E. (Hughes Line Replacement)
- ❖ Installed 794 ft of 2" polyethylene gas main for Cantey main extension.
- ❖ Installed 186 ft of 2" polyethylene gas main for Robinhood main extension.
- ❖ Replaced 1,174 ft of 2" steel with 1,174 ft of 1-1/4" polyethylene pipe at Mark T / W. Lubbock easement.
- ❖ Replaced 1,084 ft. of 2" steel with 1,084 ft of 1-1/4" polyethylene pipe from 800 to 1200 block of Kerr St.
- ❖ Replaced 640 ft of 2" steel with 640 ft of 1-1/4" polyethylene pipe on Brown St.
- ❖ Replaced 400 ft of 2" steel with 400 ft of 1-1/4" polyethylene pipe at 1600 block of Clay St.
- ❖ Replaced (2) 750 meters.
- ❖ Replaced (2) 3000, (5) 5000 and (1) 10,000 commercial gas meters.
- ❖ Replaced (2) 415 meters.

**Gas Border Station**



**Main Gate Station**

## WATER TREATMENT

The Water Treatment Plant is responsible for providing a safe and consistent supply of drinking water to the citizens of Brenham while maintaining compliance with State and Federal regulations.

### Water Treatment Plant Personnel

Dane Bybee	Plant Manager “A” Water License
John Gerland	Chief Operator “C” Water License
Gregory Franco	Plant Operator “C” Water License
Kevin Post	Plant Operator “C” Water License
Ashley Gibson	Plant Operator “C” Water License
Fred Schultz	Plant Operator “C” Water License
Johnny Randermann	Maintenance Tech III

<u>Service Awards</u>	Dane Bybee	10 years
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The City of Brenham’s water is supplied from Somerville Lake. The city currently has a contract with the Brazos River Authority for 4,200 acre feet per year. The water is pulled from the lake through an intake structure and pump station. The water is treated with Chlorine Dioxide as a primary disinfectant which also controls taste and odor. It is then delivered to Brenham through a 24” pipeline over a 14 mile route. Once the water reaches the treatment plant, it is temporarily stored in a 750,000 gallon “raw water tank” where Chloramines are added to complete the disinfection process. The raw water is then pumped into the plant where Alum and polymers are added to aid in the clarification/sedimentation process. The water then gravity flows from the clarifiers to the filters which is the final stage of treatment. Caustic is then added which is used to bring the water to a “neutral” pH and Fluoride is also added. The treated water is stored in tanks called “clear wells” where it is pumped into the distribution system and towers as needed. The three (3) towers (Westside, Church St., and Jeffries St.) each have a storage capacity of 1,100,000 gallons. Total storage, including elevated and ground storage, is 4.6 million gallons. The Atlow Tower now serves as ground storage used to supply water to the newly constructed West Side Tower.

During this fiscal year;

- ❖ Completed construction on the West Side Water System Improvements off 290 West
- ❖ Completed construction on the new pump station and piping at Atlow Tower

Last fiscal year, chemical usage / expenses were as follows:

Liquid Caustic Soda	240 tons	\$39,727
Liquid Aluminum Sulfate* <sub>1</sub>	648 tons	\$86,448
Chlorine	42 tons	\$30,382
Liquid Ammonia Sulfide	72 tons	\$10,380
Polyortho-Phosphate	2,500 gallons	\$34,000
Sodium Chlorite* <sub>2</sub>	5,000 gallons	\$29,025
Fluoride	Will order 1 <sup>st</sup> of 2011 after bulk tank has been replaced	

The following items were presented and acted upon by Council:

Bid No. 10-006 was presented to the Council for discussion and awarded multiple contracts for Bulk Water Treatment Chemicals for the Water Treatment Plant.

Bid No. 09-011 was presented to Council for discussion and contract was awarded for Sodium Chlorite with an annual renewable option for the Water Treatment Plant's Chlorine Dioxide Treatment Program.

Authorized the final payment, in the amount of \$57,532.02 to Fuqua Construction Co. Inc. for the total rehabilitation of the raw water intake structure at Somerville Lake.

Awarded contract to Matula and Matula Construction, Inc. in the amount of \$523,863.80 for Phase II of the West Side Water System Distribution Improvements including Alternate Bid No. 1

Authorized final payment to Landmark Structures I, L.P. for their work performed on the West Side Water System Improvements 500,000-gallon composite elevated water storage tank. Final payment was in the amount of \$66,838.75.

### Achievements

The water treatment plant pumped 992,464,000 gallons of water from Somerville Lake, compared to 1,227,408,000 gallons in 2009-2010. The highest monthly pumpage was 132,360,000 gallons in August of 2010 and the lowest was 56,125,000 in February of 2010.

Other achievements by the Water Treatment Plant:

- ❖ All operators are now fully certified
- ❖ Did painting around plant; buildings, catwalks, and piping
- ❖ Did a complete service of the chlorine scrubber
- ❖ Cleaned out the backwash holding tank
- ❖ Replaced sand and coal in all four filters
- ❖ Replaced caustic bulk and day tanks

The Water Treatment Plant monitors and reports weather data to the National Weather Service and reported 47.84 inches of rain.



**Raw Water Pump Station**

**Jeffries Street Tower**



**Atlow Ground Storage**



**Church Street Tower**



**West Side Tower**



## WATER DISTRIBUTION

The Water Distribution Department is responsible for the connection, operation and maintenance of 145 miles of water mains, 2,800 water valves and over 800 fire hydrants. Water is distributed through a series of mains ranging in size from 2 inches to 12 inches in diameter. The department is on call 24 hours a day and serves more than 7,120 customers. These services include water leaks and water main breaks. The department is dedicated to providing a safe and reliable supply of potable water to all residents and commercial/industrial accounts located in the Brenham area.

### Water Distribution Personnel

Dane Bybee	Superintendent
Robert Fairlie	Crew Leader
Shawn Bolenbarr	Equipment Operator I
Henry Beckermann	Maintenance Worker II
Steven Vela	Maintenance Worker I
Colton Fondren	Maintenance Worker I

Service Awards      Henry Beckermann      5 years

### Achievements

The department:

- ❖ Responded to 954 calls
- ❖ Installed 99 new water taps and 21 new sprinkler system taps.
- ❖ Changed out over 500 meters, replacing them with AMR Sensus meters.
- ❖ Painted 50 fire hydrants, replaced 11 fire hydrants and flow tested 800 fire hydrants.
- ❖ Installed 300 feet of 6" water main on South Dixie.
- ❖ Completed the replacement over 7,000 feet of 6" water line in the Hillside Subdivision.
- ❖ The department also repaired over 153 water leaks.
- ❖ Work was completed on West Alamo consisting of replacement of 450 feet of 8" C1 water line.
- ❖ Assisted with the water line bore extending water service across S. Blue Bell road to the Advanced Data Storage building.
- ❖ Extended 560 feet of 8" water line to accommodate the new Super 8 Motel and Cielito Lindo restaurant.

The following item was presented to Council by the Water Treatment Department:

- ❖ Presented and discussed the Automated Meter Reading (AMR) Pilot Program to City Council regarding electronic meter reading.
- ❖ Council approved a request to extend water services outside City Limits to 2175 Old Mill Creek Road



## **Water Main Installation**



## WASTEWATER TREATMENT

The Wastewater Treatment Plant is responsible for the treatment of wastewater from the collection system. This department handles the lift station facilities by maintaining the grounds, maintenance and repair of the pumps and other equipment that receive and pump the city's sewage onto the wastewater treatment plant.

### Wastewater Treatment Plant Personnel

Bobby Keene, Jr.	Superintendent Class A
Karl Goessler	Chief Plant Operator Class B
Roger Kmiec	Plant Operator Class B
Glenn Kristoff	Plant Operator Class B
Johnny Randermann	Maintenance Tech III

The wastewater is received by gravity flow to the Wastewater Treatment Plant. Once at the plant, the wastewater enters the main lift station and is pumped into the head works where (2) mechanical bar screens remove large objects from the wastewater. The wastewater then flows through a grit chamber where sand and grit is removed. After this process, the wastewater flows into a diverter box where the flow is divided between the new aeration basin and the old aeration basin. The wastewater is then aerated for additional treatment with bacteria and other organisms which help breakdown the solids. Once this is done, the wastewater enters the clarifiers where the solids settle out. The clear supernatant then flows to the chlorine contact chamber where the supernatant is treated with Chlorine, followed by de-chlorination with Sulfur Dioxide in order to discharge into Hog Branch Creek. The wastewater must be treated to meet strict Federal and State limits before being discharged. The remaining solids from the bottom of the clarifiers are pumped into the four (4) large digesters which also help break down the solids by final aeration, organisms and bacteria. The remaining solids are then pumped to the belt press and treated as Class "A" biosolids, which are then sold to local farmers and ranchers as a soil enhancer.



**Inlet Lift Station**

The Wastewater Treatment Plant has a designed flow of 3.55 mgd with a two hour peak flow of 10.65 mgd. The plant's daily average flow is 2,023,852 mgd. The plant's daily average influent BOD is 421.8 mg/L with a daily average TSS of 282.4 mg/L, the plant's daily average effluent CBOD is 3.06 mg/L with a daily average TSS of 2.88 mg/L.

### Achievements

- ❖ The department treated 710,111,000 gallons of wastewater.
- ❖ The Wastewater plant had an average daily flow of 1,945,509 gallons.
- ❖ The department produced 5,252 yards of biosolids.
- ❖ The department sold \$17,860 of biosolids to local farmers.
- ❖ Collected BOD, TSS, and Ammonia Nitrogen samples 312 times throughout year.
- ❖ The Brenham Wastewater Plant received NO VIOLATIONS during this time or any other time during the life of the new plant.
- ❖ The plant achieved a 99 % reduction in BOD as well as a 99% reduction in TSS.
- ❖ Income received from waste haulers - \$41,523.
- ❖ Henderson Park Lift Station was completely rehabilitated.

During the 2009-2010 fiscal year, the following items were presented to Council:

- ❖ Bid No. 09-019 was presented to Council and approved for the installation of one (1) Headworks mechanical screen device at the Wastewater Treatment Plant.
- ❖ Presented Resolution No. R-09-025 in which Council approved the acceptance of a grant in the amount of \$250,000 from the Texas Department of Rural Affairs for the renovation of the Henderson Park Lift Station.
- ❖ Bid No. 10-001 was presented to Council and a contract was awarded for Bulk Fine Quicklime for the Wastewater Treatment Plant.



**New Aeration Basin**

**Wastewater Clarifier**





## WASTEWATER COLLECTION

The Wastewater Collection insures that the wastewater collection system operates at optimum capacity. This department is responsible for the maintenance and operation of 139 miles of sewer mains, 2,100 manholes and served 6,425 customers as of September 2010. The maintenance of these sewer lines requires routine manhole and main line inspections.

### Wastewater Collection Personnel

Bobby Keene, Jr.	Superintendent
Stephen Scheffer	Crew Leader, Class C Wastewater
Chuck Boggan	Equipment Operator I
Terry Fielder	Customer Service Tech
Cody English	Maintenance Worker I

### Service Awards

Stephen Scheffer	15 years
Charles Boggan	35 years

### Achievements

- ❖ The department responded to 284 calls.
- ❖ Installed 88 new sewer taps.
- ❖ Installed 700 ft of 6" sewer main on Kuhn Lane.
- ❖ Installed 400 ft of 6" sewer main on Lacey Lane.
- ❖ Installed 140 ft of 12" storm sewer in Belles Alley.
- ❖ 53 manholes completely rehabilitated.

Projects submitted during the fiscal year 10.01.09 – 9.30.10:

- ❖ Burlson Street sewer extension which would extend 400 ft of 6" sewer line
- ❖ Extension of S. Blue Bell sewer to extend 500 ft across S. Blue Bell to the Advanced Data Storage building.
- ❖ Boecker sewer extension with the installation of 1,185 feet of 6" sewer line, 7 manholes and 2 four inch taps.



## **Manhole Installation**

## SANITATION

### COLLECTION STATION

The City of Brenham Citizen's Collection Station offers the citizens of Brenham and Washington County along with numerous businesses and local contractors a means to dispose of unwanted items such as household waste, construction debris, yard waste, tires, used electronics, and other miscellaneous items for a nominal fee.

#### Collection Station Personnel

Bobby Branham	Superintendent
Colleen Latham	Collection Station Attendant
Jeff Nowak	Yard Foreman / Residential Driver
Albino Ortiz	Yard Foreman / Transfer Driver

<u>Service Awards</u>	Albino Ortiz	5 years
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### **Collection Station**

The Citizen's Collection Station operating hours are Monday-Friday 8:00 a.m. - 5:00 p.m. and Sat 8:00 a.m. - 4:00 p.m. Items brought to the center are inspected and according to material are weighed and assessed a fee for disposal. At the Collection Station you can buy "Municipal Mulch" for your landscaping needs. Municipal Mulch is available in 2.0 cu yd bags as well as in bulk. You can also obtain a certified weight for registration purposes related to your equipment, livestock or wholesale items.

## Achievements

- ❖ Sold approximately \$103,787.47 (5,447 tons) of mulch during October 09 – September 10. Sales increased by almost 73% over the prior fiscal year.
- ❖ Shipped out approx. 330 roll-off containers through the Citizen's Collection Station area.
- ❖ 43,904 tickets were entered through the Collection Station booth during October 09 – September 10.
- ❖ A total of 3,915.36 tons on brush/yard debris was processed through the Collection Station which ultimately produced "Municipal Mulch" for resale.
- ❖ Hosted the 2010 Annual Spring Cleanup for City and County residents. The following was generated during the cleanup:
  - 103 tons of Scrap Metal
  - 551 tons of Solid Waste (43 roll-offs)
  - 46 Automotive Batteries

### Projects submitted during 10.01.09 – 9.30.10:

- ❖ The entrance to the Transfer/Collection station was improved by adding an additional drive to allow for safer entrances and exits of vehicles.
- ❖ An additional scale was added in order to keep daily customers flowing through the center. This additional scale allows for an "in" and "out" weight lane.
- ❖ A new Scale House was added to allow more mobility for the personnel in the scale house enabling them to better observe vehicles entering and exiting the Collection Station.
- ❖ A mulch bagger was purchased enabling the Collection Station to bag mulch in bags of 2 cubic yards and therefore able to accommodate customers who do not purchase mulch in bulk.



**Municipal Mulch**

## **TRANSFER STATION**

The City of Brenham Transfer Station accepts compacted waste from city residential trucks, local refuse companies, Texas Commercial Waste, and the City of Bellville on a daily basis.

### *Transfer Station Personnel*

Bobby Branham	Superintendent
Cody Neutzler	Transfer Driver
Lionel Moore	Transfer Driver
Albino Ortiz	Transfer Driver / Yard Foreman

Compacted waste is weighed at the station and then emptied into large semi-trailers. By utilizing the scale it allows each trailer to reach the desired weight of 20 tons in order to reach its final destination at the Brazos Valley Solid Waste Management Authority (BVWMA) landfill located in College Station, Texas. The Transfer Station is regulated to dispose of 125 tons per day. On average the station handles 70-80 tons of compacted waste per day. Currently the fleet consists of (3) long-haul trucks and (4) semi walking floor trailers, which are maintained by 3 full-time employees.



**Transfer Trucks**

### *Achievements*

- ❖ Trucked approximately 16,785 tons of waste to the landfill located in College Station.
- ❖ Total number of loads trucked was 833 trips.
- ❖ The highest per month coming in March of 2009 81 trips.

## RESIDENTIAL COLLECTION

The City of Brenham residential collection operation consists of (3) International/McNeilus refuse trucks in which two are operated daily and one is used as a backup to collect household garbage from city residents. Household garbage is collected twice per week with Monday / Thursday and Tuesday / Friday collection.

### Residential Collection Personnel

Bobby Branham	Superintendent
Jeff Nowak	Residential Driver / Yard Foreman
Ralph Blackshire	Residential Driver
Dinnie Hicks	Residential Driver

<i>Service Awards</i>	Ralph Blackshire	10 years
	Dinnie Hicks	35 years

The City of Brenham issues rolls of polyurethane bags to residents both in January and July. On each Wednesday a yard waste route is also provided by collection staff for residents who call in for pickup. On average residential collection provides service to 4,950 customers.

### Achievements

During October 2009 – September 2010 Residential trucks collected 4,166 tons of household garbage from City of Brenham residents.

During the 2009 – 2010 fiscal year the Utilities Staff presented to Council Bid No. 10-005. The bid was granted and a contract was awarded to Central Poly, Inc. in the amount of \$56,900 for the purchase of 10,000 rolls of refuse bags.



**Residential Collection Truck**

## RECYCLING CENTER

The City of Brenham Recycling Center has a mission to promote and protect the environment for future generations by assisting citizens of Brenham and Washington County along with local businesses an alternate method of waste disposal by reusing, recycling and reducing recyclable materials from the waste stream.

### Recycling Center Personnel

Bobby Branham	Superintendent
Curtis Thomas	Recycling Center Attendant
Kris Kokemoore	Recycling Center Maintenance Tech I

At the center numerous items can be recycled. Cardboard, aluminum cans, paper products, plastics, glass, ink jet cartridges, motor oil, oil filters, and batteries are all items that are recycled through the center. After collection and separation of materials these items are processed for shipment and sent to regional recycling plants which reimburses the City of Brenham for the products. Each product has a certain value with cardboard and aluminum cans topping the list. Over the past 9 years, the Recycling Center has diverted more than 13,514 tons of recycled products from entering the landfill.

During Oct. 09 – Sept. 10 the Recycling Center collected and shipped out the following amounts:

➤ Aluminum Cans	51.27	tons
➤ Cardboard	746.47	tons
➤ Mixed Paper	264.11	tons
➤ Newspaper	264.11	tons
➤ Plastics	107.33	tons
➤ Scrap Metal	300.28	tons
➤ Glass	212.77	tons

### Achievements

On Texas Recycling Day, November 15<sup>th</sup>, Recycling Center Staff passed out 300 bags of mulch to residents who utilize the center to show appreciation for their support.

- ❖ Added a covered building for our battery and used cooking oil tank.
- ❖ Covered our used motor oil tanks.
- ❖ The Recycling Center received the Regional Solid Waste Planning Award from the Brazos Valley Council of Governments.

On August 30, 2010, an agenda item was presented to council to discuss and possibly act upon the acceptance of a grant in the amount of \$16,622.05 from the Brazos Valley Council of Governments (BVCOG) Solid Waste Grants Program for the purchase of a ¾-ton pickup truck to be utilized by the Recycling Center. Resolution was granted.

**1 Ton Cardboard Bales**



**#2 HDPE Plastic**