



Mallete Brothers allowed us to use the large CAT track hoe to excavate the area and install the new culverts.

CWS staff performed all labor on this project. There were numerous utilities relocated before the new culverts could be installed including 2 water mains, 2 phone lines, a gas main and a fiber optic line.



2013 Annual Report



With a deadline to complete before school started in August and only a few days without rain, our staff did an outstanding job. This project was a success due to assistance from the City, numerous consultants, Jackson County, Mallette Brothers and CWS.



Other Drainage Projects:

Following is a list and description of several other drainage projects completed by CWS thru November 2013.

1. Bayou View Drive – 150' – 36" corrugated plastic pipe with headwalls
2. Soundview Drive – 150' – 18" & 15" corrugated plastic pipe with poured in place box inlets
3. Rockvale – replaced 48" culverts
4. Townsend / Joe Beth – approximately 5000' of ditch cleaning
5. Hickory Hill Drive – replaced 2-24" culverts



6. Old Spanish Trail – replaced numerous driveway culverts and repaired headwalls
7. Tradewinds – repaired failing culvert
8. Kingslea – replaced several cross drains
9. Calle Hermosa – repaired sinkhole at cross drain
10. Bemis Ave – cleaned approximately 5000' of ditches
11. River Oaks – Replaced numerous cross drains
12. Stonegate / Holly Drive – repaired several catch basins and culverts
13. Laurel Glen / Whitewood / Lima – cleaned 6000' of ditch and replaced several cross drains
14. Stillwater / Goodland / Hastings – approximately 4000' of ditch cleaning
15. De La Pointe area – repaired numerous sinkholes, catch basins and culverts



Lift Stations / Water Wells / Storage Tanks:

For the most part, the City's sewer lift stations, water wells and storage tanks are in good working order. We have made minor improvements to numerous lift stations by swapping the "alert" lighting to "on" when there are issues and "off" when there aren't issues. This will save the City money on electrical costs. We have also discussed the need for an energy audit to identify further options for electrical savings and the City is currently pursuing professional services for this audit. This year we painted all the well piping and motors. Two of the storage tanks were painted this year under a separate contract. We worked with the City to budget converting the Beasley Well on Highway 90 from oil lube to water lube. This is the only well in the system still utilizing the oil lubricant system for the well pump. This conversion will eliminate the possibility of contamination in the water system.

Sewer Cleaning and CCTV:

Our goal for sewer cleaning and CCTV is 100,000' per year. We did not make our goal this year, but a lot of work has gone into training existing employees, repairing and replacing equipment, and developing sewer basin maps and documentation standards. We were aware of significant issues in the south part of the system, primarily on Bemis Avenue and this is where we focused the majority of our efforts related to cleaning and CCTV work. We have made great improvements on Bemis Avenue which will now sustain a 5" rainfall without an overflow as opposed to a 1" – 2" rainfall experienced before we contracted with the City. We have cleaned 13 lift stations and approximately 20,000' of sewer main in the southern sewer basin. Since this area experiences the most significant inflow and infiltration (I&I), our progress has been much slower than anticipated. Plus, the majority of the lift stations and sewer mains have never been cleaned. However, we have discovered numerous sources of I&I and have made numerous repairs. The next step will be to "smoke test" the southern basin to determine the number of needed repairs. We should be able to improve our progress in the next few years and the end result will be a well-documented effort that will lead to a 5 year comprehensive sewer plan for rehabilitation.

Office Renovation:

CWS invested over \$40,000 for the renovation of the former public works building on Gautier Vancleave Rd. We completed the renovations and moved in during September 2013. We are excited about showcasing this office space as a flagship office for our company in Southern Mississippi. We anticipate Goodwyn, Mills & Cawood to begin staffing this office with a resident engineer in the next 3 months. This will allow both CWS and GMC to better serve the City.

GIS / GPS Mapping:

CWS has completed the first phase of GIS mapping which included collected existing system maps and asbuilts and entering into a GIS database. This database can be updated as additional information is gathered. The next step is to expand the database to include meters and fire hydrants. Then we will



verify the location of manholes, valves and mainlines. The end result will be a comprehensive system map for water and sewer. Currently we are collecting GPS information on water meters.

Engineering Assistance:

Included in our contract are professional engineering services up to \$51,000 per year. We were happy to provide the full amount this year to the City on a variety of projects mostly related to survey and easements. These services were for both public works and City planned projects.

2013-2014 Capital Projects:

Following are a few capital projects planned for the upcoming year:

1. **Raw Water main installation for color removal project** – approximately 15,000' of 12" water main connecting three wells to the new water treatment plant.
2. **Robinson Still water/sewer extension** – approximately 6000' of 6" water main and 2" sewer force main with 5 new services.
3. **Bemis Avenue remediation** – CWS will continue to monitor flow. We are currently working on recommendations for repair and plan to present cost estimates and remediation options to the council during this fiscal year. We have also been researching grant opportunities to offset the capital cost for this project.
4. **Sewer Cleaning & CCTV** – 100,000' per year, ongoing. Smoke test the southern sewer basin.
5. **SCADA** – the City has wisely budgeted to install Supervisory Control and Data Acquisition (SCADA) at 10 new lift stations in 2013-2014. SCADA has been instrumental in trouble shooting the issues on Bemis Ave and other areas because it allows us to monitor and document rainfall, pump run times, flow, etc. Additional SCADA in the sewer system will further the efforts to address and minimize I&I.
6. **Tank Maintenance** – CWS completed a tank assessment this year and hope to be under contract with the City for these services in the near future. We are confident CWS can provide the City with a higher quality of service in the upcoming years.



PERFORMANCE (THRU OCTOBER 2013)

WATER AND SEWER

| <u>Customer Service</u> | <u>W/O Issued</u> | <u>Completed</u> | <u>Remaining</u> |
|-------------------------|-------------------|------------------|------------------|
| Change Out Meter | 119 | 90 | 29 |
| Customer Connect | 1236 | 1236 | 0 |
| Customer Disconnect | 1199 | 1199 | 0 |
| Leave Notice | 168 | 168 | 0 |
| Lock Off Meter | 825 | 825 | 0 |
| Meter Box | 27 | 20 | 7 |
| Misc. | 197 | 106 | 91 |
| Meter Valve | 19 | 13 | 6 |
| Reconnect | 189 | 189 | 0 |
| Replace Lid | 324 | 64 | 260 |
| Re-read | 2427 | 2427 | 0 |
| Temp Disconnect | 39 | 39 | 0 |
| Verify Occupancy | 20 | 20 | 0 |
| Pool Hydrant | 12 | 12 | 0 |
| Water Leak | 223 | 145 | 78 |
| TOTAL: | 7042 | 6553 | 489 |

WATER AND SEWER

| <u>Operations & Maint.</u> | <u>W/O Issued</u> | <u>Completed</u> | <u>Remaining</u> |
|--------------------------------|-------------------|------------------|------------------|
| Clean Out | 17 | 10 | 7 |
| Fire Hydrant | 12 | 3 | 9 |
| Line Locates | 567 | 567 | 0 |
| Manhole Repair | 16 | 9 | 7 |
| Misc. | 326 | 262 | 64 |
| Relocate Meter | 3 | 3 | 0 |
| Sewer Backup | 227 | 220 | 7 |
| Water / Sewer Tap | 14 | 8 | 6 |
| Video Inspection | 44 | 36 | 8 |
| Water Quality | 118 | 118 | 0 |
| Sewer Inspection | 2 | 2 | 0 |
| Utility Quote | 44 | 40 | 4 |
| Water Sample | 2 | 2 | 0 |
| TOTAL: | 1427 | 1310 | 117 |



STREETS & DRAINAGE

| <u>Customer Service</u> | <u>W/O Issued</u> | <u>Completed</u> | <u>Remaining</u> |
|---------------------------|-------------------|------------------|------------------|
| Debris Pick-Up | 54 | 54 | 0 |
| Trim Limbs/Trees | 5 | 5 | 0 |
| Repair Culvert/Install | 46 | 2 | 44 |
| Clean Ditch/culvert | 111 | 17 | 94 |
| Pot Holes/Asphalt/curbing | 99 | 15 | 84 |
| Signs/Street Lights | 21 | 2 | 19 |
| Cut Grass | 57 | 4 | 53 |
| Sinkhole/Catch Basin | 4 | 4 | 0 |
| Misc. | 34 | 2 | 32 |
| TOTAL: | 431 | 105 | 326 |



FINANCIALS

The following is an overview of 2012-2013 budget and revenue:

| | |
|------------------------------------|---|
| <u>Total Billed 2012</u> | <u>Total Billed 2013 (thru Oct)</u> |
| \$7,553,605.82 | \$6,325,024.37 |
| <u>Total Collected 2012</u> | <u>Total Collected 2013 (thru Oct)</u> |
| \$6,738,158.21 | \$5,697,416.34 |
| <u>Outstanding 2012</u> | <u>Outstanding 2013 (thru Oct)</u> |
| \$815,447.61 | \$627,038.03 |

| | |
|-----------------------------------|--|
| <u>Water Produced 2012</u> | <u>Water Produced 2013 (thru Oct)</u> |
| 469,096,883 Annual Total | 531,484,400 Annual Total |
| 1,288,656 Daily Average | 1,456,122 Daily Average |
| <u>Water Sold 2012</u> | <u>Water Sold 2013 (thru Oct)</u> |
| 472,255,560 Annual Total | 441,502,493 Annual Total |
| 1,293,850 Daily Average | 1,209,595 Daily Average |

| | |
|--|--|
| <u>FY 2013 Water/Sewer Budgeted</u> | <u>FY 2014 Water/Sewer Budgeted</u> |
| \$3,700,612.00 | \$2,343,727.00 |
| <u>FY 2013 Water/Sewer Expended</u> | <u>FY 2014 Water/Sewer Expended (to date)</u> |
| \$3,547,125.01 | \$185,408.84 |
| <u>FY 2013 Streets Budgeted</u> | <u>FY 2014 Streets Budgeted</u> |
| \$286,476.00 | \$207,000 |
| <u>FY 2013 Streets Expended</u> | <u>FY 2014 Streets Expended (to date)</u> |
| \$270,200.46 | \$9,183.82 |

AREAS FOR IMPROVEMENT

- Work Orders:
 - Plan
 - Prioritize
 - Follow up with customers
- Grass Cutting:
 - Consider sub-contracting a portion
 - Develop schedule for council approval
 - New equipment and additional manpower
- Water Loss < 10%
 - Document Flushing
 - Document well meters
 - Document Vac-Truck usage for sewer cleaning



- Improve Water / Sewer leak response time = 30 minutes or less
- Improve On-Call response time = 30 minutes or less
- Litter Awareness – Public Involvement
- FOG (Fats / Oils / Grease) Awareness – Public Education