



GAS & WATER COMMITTEE AGENDA

DATE: August 18, 2022

TIME: 4:30 p.m.

LOCATION: Clarksville Gas & Water Department

I. CALL TO ORDER

II. ANNOUNCE MEMBERS IN ATTENDANCE (VERIFY QUORUM)

III. ADOPTION OF MINUTES: June 23, 2022

IV. DEPARTMENT REPORTS:

1. Bid – Summary – Camille Thomas (attached)
2. Professional Services – Camille Thomas (attached)
 - Design Services for the Trane Tank Rocoating Project from Rye Engineering, PLC in the amount of \$89,300.00.
 - Sherwood Forest & Ringgold Creek Wastewater Improvements Project Easement Services from Croft & Associates in the amount of \$72,000.00.
 - Miscellaneous Engineering Services from Hazen & Sawyer in the amount of \$100,000.00.
 - Wastewater Treatment Plant Thermal Dryer Improvements from TTL, Inc. in the amount of \$280,856.30.Planning & Design of Flow Metering Infrastructure to Establish District Meter Areas from Rye Engineering in the amount of \$300,000.00.
3. Sale of Surplus Property on Govdeals.com for the months of June and July 2022 totaled \$6,301.08 – Camille Thomas (attached)
4. Bad Debt – Dawn Thomack (attached)
5. Financials – Dawn Thomack (attached)
6. Department Reports – Mark Riggins (attached)
7. CGW Status Update – Mark Riggins

V. COMMITTEE ACTION REQUIRED

VI. CITY COUNCIL ACTION REQUIRED

VII. ADJOURNMENT

VIII. PUBLIC COMMENTS (5 minutes each)



GAS & WATER COMMITTEE

June 23, 2022

MINUTES

CALL TO ORDER

A meeting of the City of Clarksville Gas & Water Committee was called to order by Councilperson Wallace Redd, on Thursday, June 23, 2022, at 4:35 p.m.

ATTENDANCE

The following were in attendance:

Chairman Wallace Redd, Councilperson Trish Butler, Councilperson Amber Marquis, Councilperson Wanda Smith, Councilperson Wanda Allen, Mark Riggins, Dawn Thomack, Camille Thomas, Jennifer Osteen, Patrick Chesney, and Mandy Phillips.

ADOPTIONS OF MINUTES

Councilperson Wanda Smith made a motion to approve the minutes of the March 22, 2022 and April 21, 2022 committee meetings, Councilperson Wanda Allen seconded it, and the motion passed unanimously.

DEPARTMENT REPORTS

Camille Thomas reported the Bid-Summary for the month.

Bad Debt was reported by Dawn Thomack by explaining the write-off report for the month of May 2022.

Dawn Thomack also reported the Financials for the month of May 2022.

Mark Riggins presented and discussed the department reports included in the packet.

Mark Riggins briefed the committee on the diversity assessment of the department and discussed the forming of the diversity team and their role within the department.

COMMITTEE ACTION REQUIRED

Approval of easement located on Richaven Road, Cmap 81 parcel 61.02, Rufus Johnson property in the amount of \$17,430 for the Sango water improvements project. Councilperson Wanda Smith made a motion for approval, Councilperson Trish Butler seconded it, and the motion passed unanimously.

Approval of easement located on Hwy 76, Cmap 81 parcel 54.02, TDK property in the amount of \$16,170 for the Sango water improvements project. Councilperson Trish Butler made a motion for approval, Councilperson Amber Marquis seconded it, and the motion passed unanimously.

Revisions to the Gas, Water and Sewer Department General Policy, Criteria and Guidelines for Obtaining Utility Easements. Councilperson Wanda Smith made a motion for approval, Councilperson Trish Butler seconded it, and the motion passed unanimously.

CITY COUNCIL ACTION REQUIRED

ADJOURNMENT

The meeting was adjourned at 5:25 p.m.

**GAS & WATER COMMITTEE
BID SUMMARY
AUGUST 18, 2022**

The following bids/proposals have been solicited, opened and have been approved by the Purchasing Director. All are low bid/proposal except where noted.

<u>BID #</u>	<u>DESCRIPTION</u>	<u>AWARDED TO</u>	<u>AMOUNT</u>
4305	Liquid Structured/Linear Polymer	SNF Polydyne	
		Per Tote	\$1.620/lb.
		Per Truckload	\$1.560/lb.
4321-RB	Mowing & Landscaping	LSI	\$.02863633/sy
4323	Fernco Fittings, Hydraulic Cement Saddles & Gasketed Tees	Fortiline Waterworks	\$156,801.85
4343	Lateral Rehabilitation Annual Contract	BLD Services	\$529,875.00
4344	Sewer Main Rehabilitation Annual Contract	Insituform Technologies	\$535,800.00
4351	Fire Hydrants 3 & 4 ft. Bury	Consolidated Pipe	\$247,160.00
4352	Cast Iron / Ductile Iron Meters	Core & Main	\$ 17,050.00
4353	50% Hydrogen Peroxide	Brenntag	\$2.5449/gal.
4360	Quad Rail Tapping Machine	Core & Main	\$ 44,500.00

SOLE SOURCE PURCHASES:

1. Future purchases of GE/Dresser ROOTS gas meters from Tri-State Meter and Regulator Service.
2. Future purchases of credit checks for customers from Online Utility Exchange.
3. Future purchases of wireless service, upgrades and repairs to OmniSite devices from OmniSite.
4. Future purchases of inspection and management of the grease certification program and grease control program from MMS.
5. Future purchases of service for the One Call Ticket Management System from KorTerra.
6. Future purchases of parts and service for the mechanism that is used to remove sedimentation in the water treatment process.
7. Future purchases of parts and service for the Vactor Equipment from Sansom Equipment Co.

EMERGENCY PURCHASE:

1. 390 Water Meters from G & C Supply in the amount of \$23,010.00.

Bid 4305 - Liquid Structured/Linear Polymer

	<u>Per Tote</u>	<u>Per Truckload</u>
SNF Polydyne	\$1.620/lb.*	\$1.560/lb.*
Univar	No Bid	
Brenntag	No Response	
BASF	No Response	
Kemira	No Response	
Hawkins	No Response	
Aulick Chemicals	No Response	
Harcros Chemical	No Response	
Source Technologies	No Response	
Industrial Chemicals	No Response	
USP Technologies	No Response	
Siemens Industry	No Response	
Chem Trade	No Response	
Allied Universal	No Response	
Shannon Chemical	No Response	
Mosaic Crop Nutrition	No Response	
Chemco Industries	No Response	
Gulbrandsen Technologies	No Response	
CoreChem	No Response	
Premier Magnesia	No Response	
Solenis	No Response	
GFO Specialty Chemicals	No Response	
USALCO	No Response	
Carus Chemical	No Response	
Chemrite	No Response	

Bid 4321-RB - Mowing & Landscaping

LSI	\$.02863633/sy*	Local
Twin Rivers Turf	\$.03136/sy	
Affordable Lawn & Landscaping	\$.03222/sy	Local
Nathan's Mowing & Landscaping	\$.045/sy	Local
Larry Kessler	Not Properly Licensed	
3C's Lawn Care	Not Properly Licensed	
Shelton Lawn Care	No Response	Local
Prime Time Services	No Response	Local
On The Level	No Response	Local
Corey's Lawn Care	No Response	Local
Williams Lawn Care	No Response	Local
JoJo's Lawn Care	No Response	Local
CLD	No Response	Local
Griffy's Landscape Maintenance	No Response	Local
Bean's Mowing & More	No Response	Local
H&H Green Lawn Care	No Response	Local
Raider's Lawn Care	No Response	Local

Exact Lawn Care	No Response	Local
Hayes Lawn & Tree Care	No Response	
Veterans Choice Lawn Service	No Response	
Clarksville Lawn Pros	No Response	Local
On Time Lawn Care	No Response	
All In One Lawn Care	No Response	
Oasis Gardening	No Response	
Brooks Lawn Care	No Response	
Lindsey's Lawn Care	No Response	
Masons Mowing & More	No Response	
Positive Image Landscaping	No Response	
Traylor Lawn Care	No Response	Local
Dawson Swift's Lawn Care	No Response	Local
Hamaker Lawn & Landscaping	No Response	Local
F&E Lawn Service	No Response	Local
Logan Lawn Care	No Response	Local
Boyd's Landscaping	No Response	Local
Paul Jr. Enterprises	No Response	Local
Shield's Lawn Care	No Response	Local
Barry's Mowing	No Response	Local
Underdog Construction	No Response	Local
Logan's Lawn Care	No Response	Local
Henderson's Landscape Maintenance	No Response	
Incredible Lawn Care	No Response	Local
Cameron's Mowing Plus	No Response	Local
M&W Lawn Care	No Response	Local
A&H Lawn Service	No Response	Local
Premier Landscaping	No Response	Local
Kahle Enterprises	No Response	Local
Anderson Lawn Care	No Response	Local
Travis Lawns	No Response	
GM Lawn Care	No Response	Local
Michael's Lawn Care	No Response	
Burn's Property Management	No Response	Local
Landscape Services	No Response	

Bid 4323 - Fernco Fittings, Hydraulic Cement, Saddles & Gasketed Tees

Fortiline Waterworks	\$156,801.85*	
Core & Main	\$175,355.25	
Consolidated Pipe & Supply	\$179,258.75	
G&C Supply	No Response	
Kenny Pipe & Supply	No Response	Local
Citco Water	No Response	
Hayes Pipe & Supply	No Response	
General Utilities Pipe & Supply	No Response	
Southern Pipe & Supply	No Response	
Ferguson Enterprises	No Response	Local

Bid #4343 – Lateral Rehabilitation Annual Contract

BLD Services	\$ 529,875.00*	
Gulf Coast Underground	\$ 846,130.00	
Vortex Services, LLC	No Response	
Equix Energy Services	No Response	
Moore Construction	No Response	Local
Morris Wall Construction	No Response	Local
In Depth, Inc.	No Response	
Insituform Technologies	No Response	

Bid #4344 – Sewer Main Rehabilitation Annual Contract

Insituform Technologies	\$ 535,800.00*	
Granite Inliner	\$ 590,500.00	
Gulf Coast Underground	\$ 914,000.00	
Vortex Services, LLC	No Response	
Equix Energy Services	No Response	
SAK Construction, LLC	No Response	
Moore Construction	No Response	Local
VacVision Environmental, LLC	No Response	
Morgan, Inc.	No Response	Local
Morris Wall Construction	No Response	Local
In Depth, Inc.	No Response	

Bid #4351 – Fire Hydrants 3 & 4 Ft. Bury

Consolidated Pipe	\$ 247,160.00*	
Core & Main	\$ 222,720.00**	
Utility Pipe Sales	No Response	
Citco Water	No Response	
Ferguson Waterworks	No Response	Local

**Did not meet specifications.

Bid #4352 – Cast Iron / Ductile Iron Meters

Core & Main	\$ 17,050.00*	
Consolidated Pipe & Supply	\$ 17,720.00	
G & C Supply	No Response	
Kenny Pipe & Supply	No Response	Local
Citco Water	No Response	
Hayes Pipe & Supply	No Response	
General Utilities Pipe & Supply	No Response	
Southern Pipe & Supply	No Response	
Ferguson Waterworks	No Response	Local
Fortiline Waterworks	No Response	

Bid #4353 – 50% Hydrogen Peroxide

Brenntag	\$ 2.5449/gal.*
US Peroxide	\$ 3.15/gal.
Evoqua	No Response
Hawkins Chemicals	No Response
Aulick Chemical	No Response
Harcros Chemical	No Response

Bid #4360 – Quad Rail Tapping Machine

Core & Main	\$ 44,500.00*
Consolidated Pipe & Supply	\$ 47,920.00
Water Works Tools	No Response
HD Supply	No Response

*Department Recommendation

REQUEST FOR PROFESSIONAL SERVICE

1. SELECTION OF FIRM

PROJECT NAME AND SCOPE OF WORK:	Trane Tank Recoating – The project comprises the design and preparation of construction plans and specifications for the repair, surface preparation and coating of the interior and exterior of Trane Tank. Rye will also provide limited bidding and construction phase services. Contract Term: Approximately 12 weeks for design plus an estimated five-month construction phase
NAME OF FIRM:	Rye Engineering, PLC
QUALIFICATIONS, COMPETENCE AND INTEGRITY OF FIRM:	Rye Engineering is a firm that offers civil engineering services and possesses knowledge about the City of Clarksville's water and sewer system. The firm has previously assisted with and is currently providing engineering services to the Clarksville Gas & Water Department. Rye Engineering is readily available to assist the City and has qualified staff including a licensed professional engineer, project managers and technicians. Rye Engineering's staff is experienced in all necessary aspects of water and waste water engineering, planning, operations, and inspections. Rye Engineering has a combined total of 45.5 years of service in the water/waste water industry. In addition, Rye Engineering has staff that can perform Remotely Operated Vehicle (R.O.V.), tank drain down, as well as perform painting inspection by a NACE-certified inspector.
YEARS OF EXPERIENCE:	15 Years (founded in 2007)
SIMILAR PROJECTS PERFORMED FOR THE CITY:	• High Point Tank Recoating (2022) • Jackson Road (Old) Tank Painting (2015) • 2009 Tank Painting, 1.5 MG Sango (New) Standpipe Water Storage Tank • Tank Painting 0.5 MG College Street Elevated Water Storage Tank (2008) • Tank Painting 2008 - Contract 1: High Point 1.5 MG Standpipe; Contract 2: Tiny Town 0.5 MG Elevated Tank
SIMILAR PROJECTS PERFORMED ELSEWHERE:	• Ardmore, TN: 6th Street / Cotton Row Tank Painting - 150,000 Gallon Elevated Water Tank (2016) • New Johnsonville, TN: Lawson Hill Tank Rehabilitation (2015) • Ardmore, TN: Clayton Tank Painting, 150,000 Gallon Elevated Water Tank (2014)
OTHER QUALIFICATIONS:	Rye Engineering has extensive experience relating to municipal infrastructure.
NAMES OF THOSE INVOLVED IN THE SELECTION (MUST BE 2 OR MORE AND MUST HAVE NO CONFLICT OF INTEREST AS PER PURCHASING POLICY):	Tom Heath, PE Chris Lambert
DEPARTMENT WHERE FUNDS ARE BUDGETED:	Clarksville Gas & Water Department

REQUEST FOR PROFESSIONAL SERVICE

Trane Tank Recoating

Rye Engineering, PLC

Page 2



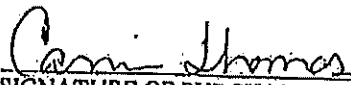
SIGNATURE OF DEPARTMENT HEAD OF BUDGETARY
DEPT. OR HIS/HER DESIGNEE

3-31-22
DATE



SIGNATURES OF OTHERS INVOLVED IN SELECTION

3/31/22
DATE



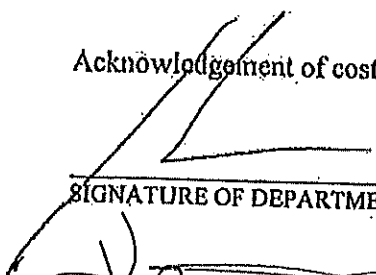
SIGNATURE OF PURCHASING DIRECTOR

4-8-22
DATE

2. COST: ONCE ALL SIGNATURES ABOVE HAVE BEEN SECURED, YOU MAY NOW REQUEST PRICING FROM THE SELECTED FIRM. COST SHALL BE REPORTED TO THE PURCHASING DIRECTOR ONCE OBTAINED.

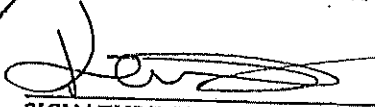
ESTIMATED COST (TO BE PROVIDED ONCE DETERMINED):	\$ 89,300.00
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Acknowledgment of cost estimate received:



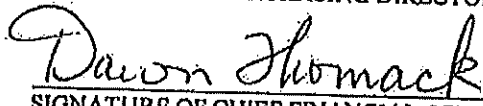
SIGNATURE OF DEPARTMENT HEAD/DESIGNEE

05-16-2022
DATE



SIGNATURE OF PURCHASING DIRECTOR

5-16-22
DATE



SIGNATURE OF CHIEF FINANCIAL OFFICER

5-16-22
DATE

REQUEST FOR PROFESSIONAL SERVICE

1. SELECTION OF FIRM

PROJECT NAME AND SCOPE OF WORK:	Sherwood Forest & Ringgold Creek Wastewater Improvements Project Easement Services – Croft will provide negotiate temporary and/or permanent easements for properties affected by the Sherwood Forest and Ringgold Creek Wastewater Improvements project. Contract Term: estimated six months
NAME OF FIRM:	Croft and Associates, LLC 4711 Trousdale Drive, Suite 121 Nashville, TN 37220
QUALIFICATIONS, COMPETENCE AND INTEGRITY OF FIRM:	Croft and Associates is a professional firm located in Nashville, that has been in business for many years and provides various services, such as easement negotiations, appraisal and acquisition services. Croft and Associates is available to perform this work and has satisfactorily performed and successfully delivered on projects for the City in the past.
YEARS OF EXPERIENCE:	30+ years
SIMILAR PROJECTS PERFORMED FOR THE CITY:	• Ted Crozier Parkway • Memorial Drive and Dunbar Cave Road at Wilma Rudolph • Fort Defiance Park • Property for the Marina • SR149–SR13 TDOT Utility Relocation • SR112 (Hwy 41–A) TDOT Utility Relocation • Peachers Mill Road • Keystone Drive • Paddock Place • Miscellaneous Easement, Appraisal and/or Acquisition Services (COW) • Right-of-way acquisition services for the Clarksville Street Department
SIMILAR PROJECTS PERFORMED ELSEWHERE:	<u>Piedmont Natural Gas / Duke Energy</u> – ROW services include Consulting, Project Management, Acquiring Permanent and Temporary Easements, Laydown Yards and providing Construction Over Site on numerous large and small projects for 12+ years – most recent listed below: • Line 431 Phase II – 2020–2021 • Line 431 Phase I – 2016–2019 • Cowan Street – 2021 • Bordeaux Bridge – 2020 • Wilson Pike – Sunset Looping – 2017–2020 • 44th Avenue – 2020 • Line 469 – 2020–2022 • NW Rutland – 2019–2020 • Spence Lane – 2020 <u>NDOT</u> – Prime Contractor October 2020 – current – ROW Manager of Right of Way & Easement Acquisition Services. ROW services include Project Management and Acquiring ROW, Permanent Easements, Permanent Drainage Easements and Temporary Construction Easements. Additional services include Appraisal, Appraisal Review, Title and Closing Services, Market Analysis, and Survey, Staking, and Right of Entry Services. • Walk and Bike Program (120 Tracts working simultaneously) – 2022 – Currently working

REQUEST FOR PROFESSIONAL SERVICE

Sherwood Forest & Ringgold Creek Wastewater Improvements Project Easement Services

Croft and Associates LLC

Page 2

	- o Winthorne Drive - o Anderson Lane - o Foster Avenue - o 23rd Ave North - o Gallatin Pike - o Blue Hole Road - o 15th Ave N / Hynes - o Murfreesboro Road - o Lebanon Pike - o Ordway Place - o Brewer Drive • Lickton Pike Bridge Replacement – 2022 – 6 Tracts - Currently working • Walk and Bike Program (114 Tracts worked simultaneously) -- 2021 – Completed - o Stratford Avenue - o Valux Lane - o Dickerson Pike – Trinity - o Dickerson Pike – Donald - o Forest Park Road - o Hobson Pike - o Stewarts Ferry Pike - o Hamilton Church Road - o Bowling Ave Ph 2 - o Kings Lane - o Ashesford Trace - o Shadowbrook Trail • Pettus at Blue Hole Round About – 2021 – 6 Tracts – Project followed LPA guidelines – Completed <u>Metro Water Services</u> • Hurricane Creek Pipe Improvements – 2020 – 21 Tracts - Project followed LPA guidelines – Completed <u>White House Utility District (WHUD)</u> – numerous jobs, continuous for past 30 years. Services include Consulting, Project Management, Acquisitions of Permanent and Temporary Easements – most recent – 2021 – 2022 listed below: - o Collier Lane - o Gideon Road 2 - o Advanex Americas - o Aintree Apts - o Anderson Pointe - o Bethel Road - o Copes Crossing - o Gideon Road - o Sunset Island Trail - o Town Center - o Villas at Honey Run Springs - o Willow Grove Ph 1 <u>City of La Vergne</u> – Approximately 50 Tracts • Upper Chaney Woods Interceptor – 2020 • 2019 Interceptor Sewer Improvements 2021 – 2022 <u>City of Springfield</u> – Approximately 200 Tracts • C-5 • Old Greenbrier • Logan–Todd Waterline
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REQUEST FOR PROFESSIONAL SERVICE

Sherwood Forest & Ringgold Creek Wastewater Improvements Project Easement Services

Croft and Associates LLC

Page 3

OTHER QUALIFICATIONS:	Croft and Associates is familiar with and understands the complicated state and federal requirements regarding property acquisition for public use. Croft and Associates follows the steps necessary for smooth, successful land acquisition.
NAMES OF THOSE INVOLVED IN THE SELECTION (MUST BE 2 OR MORE AND MUST HAVE NO CONFLICT OF INTEREST AS PER PURCHASING POLICY):	Garth B. Branch, PE Troy Holland
DEPARTMENT WHERE FUNDS ARE BUDGETED:	Clarksville Gas & Water Department

SIGNATURE OF DEPARTMENT HEAD OF BUDGETARY
DEPT. OR HIS/HER DESIGNEE

03-11-2022
DATE

SIGNATURES OF OTHERS INVOLVED IN SELECTION

03-11-2022
DATE

SIGNATURE OF PURCHASING DIRECTOR

3-14-22
DATE

2. **COST: ONCE ALL SIGNATURES ABOVE HAVE BEEN SECURED, YOU MAY NOW REQUEST PRICING FROM THE SELECTED FIRM. COST SHALL BE REPORTED TO THE PURCHASING DIRECTOR ONCE OBTAINED.**

ESTIMATED COST (TO BE PROVIDED ONCE DETERMINED):	\$ 72,000.00
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Acknowledgement of cost estimate received:

SIGNATURE OF DEPARTMENT HEAD/DESIGNEE

06-23-2022
DATE

SIGNATURE OF PURCHASING DIRECTOR

6-23-22
DATE

SIGNATURE OF CHIEF FINANCIAL OFFICER

6-23-22
DATE

REQUEST FOR PROFESSIONAL SERVICE

1. SELECTION OF FIRM

PROJECT NAME AND SCOPE OF WORK:	Miscellaneous Engineering Services – Hazen and Sawyer will provide miscellaneous engineering services in support of capital improvement projects and operations as needed. Work is anticipated to be issued in the form of individual work orders on a case-by-case basis. Requests for a cost proposal will be initiated by the City. Consultant's proposal will be reviewed and, only if accepted by the City, Consultant will be authorized to proceed with that work. Contract Term: One year with two one-year renewals upon mutual agreement.
NAME OF FIRM:	Hazen and Sawyer, P.C. (Hazen)
QUALIFICATIONS, COMPETENCE AND INTEGRITY OF FIRM:	This firm is a qualified and licensed professional engineering firm specializing in Water and Wastewater Municipal projects. Hazen provides a broad range of services and is readily available to assist the City. Hazen has qualified staff including seasoned, licensed professional engineers with extensive experience relating to municipal infrastructure.
YEARS OF EXPERIENCE:	Since 1951 (71 Years)
SIMILAR PROJECTS PERFORMED FOR THE CITY:	1. Misc. WWTP Improvements 2. WWTP Thermal Dryer Improvements 3. Wastewater Treatment Plant Improvements 4. Valleybrook EQ Tank 5. Wastewater Treatment Plant Solids Treatment & Handling Evaluation 6. Comprehensive Assessment of the Collection System; 7. Regulatory Assistance with NPDES- and 2012 Agreed Order-related services; 8. Flood recovery support related to CGW's wastewater facilities; 9. Water System Master Plan; 10. Northwest Sanitary Sewer Basin Preliminary Engineering Report; 11. Wet Weather Planning; 12. Misc. Water System Hydraulic Modeling; 13. Rossview Pressure Zone Evaluation 14. Hydraulic Model Development; 15. Miscellaneous Engineering Services.
SIMILAR PROJECTS PERFORMED ELSEWHERE:	Hazen has provided a broad range of various engineering services to its clients since 1951. Project highlights include: 1. Central WRF, Nashville, TN: Study, design and construction services for new 440-mgd headworks facility 2. West WTP, Columbia, TN: Study, design and construction services for the new 12-mgd greenfield WTP 3. Thomas P. Smith WRF, Tallahassee, FL: Design, construction oversight, and operational support for upgrade and expansion 4. Neuse River Wastewater Treatment Plant, Raleigh, NC: Upgrades to the 60-mgd WWTP 5. Catskill-Delaware Ultraviolet Disinfection Facility, New York City, NY: Design and construction of the 2,020-mgd UV facility, the largest UV disinfection facility in the world 6. Staten Island Bluebelt, Staten Island, NY: Development and implementation of best management practices to replace expensive storm sewers in the Staten Island Bluebelt 7. Henrico Water Reclamation Facility, Henrico County, VA: Upgrade and expansion of the 75-mgd WRF 8. Examination of the potential effects of sea level rise and storm surge impacts for both Miami-Dade and New York City, and

REQUEST FOR PROFESSIONAL SERVICE

Miscellaneous Engineering Services

Hazen and Sawyer, P.C.

Page 2

	developed adaptation strategies for all of the affected wastewater treatment plants in Florida 9. Miscellaneous international project such as upgrades to high-performance digestion facilities in Johannesburg, South Africa, and a water/wastewater program in Amman Jordan, 10. Wet Weather EQ Facility, Chattanooga, TN: Design and construction services for 30-mg EQ facility for wet weather storage
OTHER QUALIFICATIONS:	Hazen has talented professional staff dedicated to successful completion of its projects. A good working relationship exists with key members of the firm. Hazen has satisfactorily provided water and wastewater related services to CGW and is familiar with CGW's infrastructure.
NAMES OF THOSE INVOLVED IN THE SELECTION (MUST BE 2 OR MORE AND MUST HAVE NO CONFLICT OF INTEREST AS PER PURCHASING POLICY):	Garth Branch, PE Tom Heath, PE
DEPARTMENT WHERE FUNDS ARE BUDGETED:	Clarksville Gas & Water Department

SIGNATURE OF DEPARTMENT HEAD OF BUDGETARY DEPT. OR HIS/HER DESIGNEE

06-10-2022
DATE

SIGNATURES OF OTHERS INVOLVED IN SELECTION

6/10/22
DATE

SIGNATURE OF PURCHASING DIRECTOR

6-16-22
DATE

2. COST: ONCE ALL SIGNATURES ABOVE HAVE BEEN SECURED, YOU MAY NOW REQUEST PRICING FROM THE SELECTED FIRM. COST SHALL BE REPORTED TO THE PURCHASING DIRECTOR ONCE OBTAINED.

ESTIMATED COST (TO BE PROVIDED ONCE DETERMINED):	\$ 100,000
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Acknowledgement of cost estimate received:

SIGNATURE OF DEPARTMENT HEAD/DESIGNEE

06-16-2022
DATE

SIGNATURE OF PURCHASING DIRECTOR

6-23-22
DATE

SIGNATURE OF CHIEF FINANCIAL OFFICER

6-16-22
DATE

REQUEST FOR PROFESSIONAL SERVICE

1. SELECTION OF FIRM

PROJECT NAME AND SCOPE OF WORK:	Wastewater Treatment Plant Thermal Dryer Improvements Construction Materials Engineering & Testing and Special Inspections – Services comprise construction materials testing of soil, concrete and asphalt, micropile installation monitoring and load testing, shallow foundation bearing testing, special inspections in accordance with the International Building Code, and other testing, inspection and reporting services associated with the construction of the project. All work is under the direct supervision of professional engineers. Contract Term: WWTP Thermal Dryer Improvements construction duration, which is currently estimated at 24 months.
NAME OF FIRM:	TTL, Inc. (TTL), 5010 Linbar Drive, Suite #153 , Nashville, TN 37211
QUALIFICATIONS, COMPETENCE AND INTEGRITY OF FIRM:	TTL is a civil engineering firm whose diverse staff of nearly 400 scientists and engineers brings together specialized skills, insights, and experience for the benefit of clients' projects. TTL has successfully provided similar services during construction of several water treatment plants and wastewater treatment plans throughout the area. TTL's construction materials testing services include: SOIL AND ROCK ANALYSES: • Soil Classification, Proctor Density, Triaxial Shear, Consolidation, Hydraulic Conductivity • Atterberg Limits, Soil Porosity, Specific Gravity, California Bearing Ratio (CBR) • Grain-Size Analysis and Rock Core Compressive Strength CONCRETE ANALYSES: • Mix Design, Slump, Air Content, Unit Weight, Temperature • Compressive Strength of Cast Concrete Cylinders and Drilled Core Samples • Floor Flatness and Floor Levelness Measurements • Pavement Evaluation NON-DESTRUCTIVE TESTING: • ACI - Level I, II Field Technician, Strength Testing Level I • AWS Certified Welding Inspector • ASNT NDT - Level I, II, III • NICET - Level I, II Soil and Concrete • ICC - Reinforced Concrete, Masonry, Structural Steel & Bolting, Structural Welding and Spray Applied Fireproofing Special Inspector • CETCO – Waterproofing Installation Inspector • Bolted and Welded Connection Inspection • Ultrasonic Testing (UT) • Ultrasonic Thickness Testing (UTT) • Phased Array Ultrasonic Testing (PAUT) • Magnetic Particle Testing (MT) • Liquid Dye Penetrant Testing (PT) • Visual Testing (VT) • Vacuum Leak Testing • Positive Material Identification (PMI) • Portable Hardness Testing • Corrosive Mapping • Leak Testing (LT)

REQUEST FOR PROFESSIONAL SERVICE

Wastewater Treatment Plant Thermal Dryer Improvements Construction Materials Engineering & Testing and Special Inspections

TTL, Inc.

Page 2

	• Welder Qualifications (PQR, WPS, WPQR) • Coating Inspection SPECIAL INSPECTIONS: TTL personnel hold certifications from the International Code Council (ICC) and American Welding Society, having certifications in Soils Special Inspector, Reinforced Concrete Special Inspector, Structural Masonry Special Inspector, Structural Steel Bolting Special Inspector, Spray Applied Fireproofing Special Inspector, and Certified Welding Inspector. Common special inspections performed in accordance with Chapter 17 of the International Building Code (IBC) include: • Steel construction • Concrete construction • Masonry construction • Wood construction • Soils • Driven deep foundations • Cast-in-place deep foundations • Helical pile foundations • Special inspections for wind resistance • Special inspections for seismic resistance • Mastic and intumescent fire-resistant coatings • Exterior insulation and finish systems (EIFS) OTHER SERVICES: • Deep Foundation Installation Monitoring and Load Testing • HDPE Liner Installation Monitoring • Field Density Testing of Soil and Asphalt • Penetrometer Testing of Foundations • Construction Quality Control and Construction Management • Construction Quality Assurance -- Geosynthetic Liner
YEARS OF EXPERIENCE:	Since 1970
SIMILAR PROJECTS PERFORMED FOR THE CITY:	• NCWTP Construction Monitoring and Testing Services • In addition, TTL has extensive municipal project experience in Clarksville. CGW: - Geotechnical Services for the North Clarksville Water Treatment Plant (subconsultant to Smith Seckman Reid) - Barkers Mill Boundary Survey - College Street Sewer Repair - Rossview Road Sewer Relocation - Rossview Road Water Relocation - Tucker Property Easement - New Sewer Forcemain - Highpointe Row Property Boundary Survey City General - Multimodal Sidewalk - Red River Trail II - Red River Trail East

REQUEST FOR PROFESSIONAL SERVICE

Wastewater Treatment Plant Thermal Dryer Improvements Construction Materials Engineering & Testing and Special Inspections

TTL, Inc.

Page 3

	- Heritage Park School Route - Heritage SRTS CEI <u>Street Department</u> - Rossview Road Improvements - Edmondson Ferry Road & 41a Bypass Intersection - Cardinal Lane Extension - Exit 8 Frontage Road - Edmondson Ferry I - Dunlop and International Intersection <u>CDE</u> - Maintenance and Transformer Building - Parking Master Plan
SIMILAR PROJECTS PERFORMED ELSEWHERE:	TTL has extensive project experience, which includes: - McEwen WWTP and Hwy 70 PS Improvements (McEwen, TN) - Sinking Creek WWTP Addition Phases 4C and 4D (Murfreesboro, TN) - Portland WWTP Addition (Portland, TN) - Franklin WTP Addition (Franklin, TN) - Smyrna WWTP Addition (Smyrna, TN) - Harpeth Valley Utility District Water Plant Addition (Nashville, TN) - Stones River WTP (Murfreesboro, TN)
OTHER QUALIFICATIONS:	TTL's Nashville staff will primarily provide services; however, it will also utilize its resources in the Clarksville area. TTL has a 2020 EMR of 0.70, and the safety of TTL's team members is paramount on every project. TTL has effectively used its formal safety program including weekly safety meetings and its safety incentive program to continually improve its industry-leading safety record. TTL continuously trains its team, allowing them to gain valuable experience. TTL's laboratories in Tuscaloosa, AL, Albany and Valdosta, GA and Nashville, TN are AASHTO-accredited.
NAMES OF THOSE INVOLVED IN THE SELECTION (MUST BE 2 OR MORE AND MUST HAVE NO CONFLICT OF INTEREST AS PER PURCHASING POLICY):	Garth Branch, PE Troy Holland
DEPARTMENT WHERE FUNDS ARE BUDGETED:	Clarksville Gas & Water Department

SIGNATURE OF DEPARTMENT HEAD OF BUDGETARY DEPT. OR HIS/HER DESIGNEE

06-03-2022
DATE

SIGNATURES OF OTHERS INVOLVED IN SELECTION

6/3/2022
DATE

SIGNATURE OF PURCHASING DIRECTOR

6-7-22
DATE

REQUEST FOR PROFESSIONAL SERVICE

Wastewater Treatment Plant Thermal Dryer Improvements Construction Materials Engineering & Testing
and Special Inspections

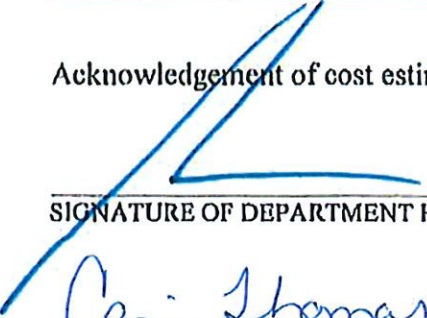
TTL, Inc.

Page 4

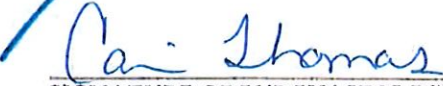
2. **COST: ONCE ALL SIGNATURES ABOVE HAVE BEEN SECURED, YOU MAY NOW REQUEST PRICING FROM THE SELECTED FIRM. COST SHALL BE REPORTED TO THE PURCHASING DIRECTOR ONCE OBTAINED.**

ESTIMATED COST (TO BE PROVIDED ONCE DETERMINED):	\$ 280,856.30
--	---------------

Acknowledgement of cost estimate received:


SIGNATURE OF DEPARTMENT HEAD/DESIGNEE

07-14-2022
DATE


SIGNATURE OF PURCHASING DIRECTOR

7-14-22
DATE


SIGNATURE OF CHIEF FINANCIAL OFFICER

7-14-2022
DATE

REQUEST FOR PROFESSIONAL SERVICE

1. SELECTION OF FIRM

PROJECT NAME AND SCOPE OF WORK:	Clarksville Water System District Meter Areas -- The project comprises planning and design of flow metering infrastructure to establish District Meter Areas (DMAs) within the Clarksville Gas & Water operating area, deployment of DMA Monitoring Stations to collect data, localize leakage and establish permanent monitoring sites to build a long-term active leak detection system as well as conventional acoustic and ultrasonic leak detection surveys to pinpoint leaks localized during metering for repair. Contract Term: approximately 24 months
NAME OF FIRM:	Rye Engineering, PLC
QUALIFICATIONS, COMPETENCE AND INTEGRITY OF FIRM:	Rye Engineering is a firm that offers civil engineering services and possesses knowledge about the City of Clarksville's water and sewer system. The firm has previously assisted with and is currently providing engineering services to the Clarksville Gas & Water Department. Rye Engineering is readily available to assist the City and has qualified staff including a licensed professional engineer, project managers and technicians. Rye Engineering's staff is experienced in all necessary aspects of water and waste water engineering, planning, operations, and inspections. Rye Engineering has a combined total of 45.5 years of service in the water/waste water industry. In addition, Rye Engineering has staff that can perform Remotely Operated Vehicle (R.O.V.), tank drain down, as well as perform painting inspection by a NACE-certified inspector.
YEARS OF EXPERIENCE:	15 Years (founded in 2007)
SIMILAR PROJECTS PERFORMED FOR THE CITY:	• Rossview Pressure Zone District Meter Areas In addition, Rye Engineering has provided several other water infrastructure related services: • Trane Tank Recoating (2022) • High Point Tank Recoating (2022) • Jackson Road (Old) Tank Painting (2015) • Misc. Engineering Services • HSC Megasite Distribution System Improvements including a water booster station, water transmission mains and water Storage Tank design and construction administration services • Jackson Road Booster Station design, construction administration and inspection services • 2009 Tank Painting, 1.5 MG Sango (New) Standpipe Water Storage Tank • Tank Painting 0.5 MG College Street Elevated Water Storage Tank (2008) • Tank Painting 2008 - Contract 1: High Point 1.5 MG Standpipe; Contract 2: Tiny Town 0.5 MG Elevated Tank
SIMILAR PROJECTS PERFORMED ELSEWHERE:	• WADC Zone Meter Project - Water Authority of Dickson County, TN (2018-2019) • Dunlap Water Loss Project - City of Dunlap, TN (2018-2019) • Niota Zone Meter and Water Loss Project - City of Niota, TN (2017-2019) • Iron City UD Zone Meter and Water Loss Project - Iron City, TN (2017-2019)

REQUEST FOR PROFESSIONAL SERVICE
Clarksville Water System District Meter Areas
Rye Engineering, PLC

Page 2

OTHER QUALIFICATIONS:	Rye Engineering has extensive experience relating to municipal infrastructure.
NAMES OF THOSE INVOLVED IN THE SELECTION (MUST BE 2 OR MORE AND MUST HAVE NO CONFLICT OF INTEREST AS PER PURCHASING POLICY):	Garth Branch, PE Tom Heath, PE
DEPARTMENT WHERE FUNDS ARE BUDGETED:	Clarksville Gas & Water Department

SIGNATURE OF DEPARTMENT HEAD OF BUDGETARY
DEPT. OR HIS/HER DESIGNEE

06-08-2022
DATE

Tom Heath
SIGNATURES OF OTHERS INVOLVED IN SELECTION

6/8/2022
DATE

Carm Thomas
SIGNATURE OF PURCHASING DIRECTOR

6-10-22
DATE

2. COST: ONCE ALL SIGNATURES ABOVE HAVE BEEN SECURED, YOU MAY NOW REQUEST PRICING FROM THE SELECTED FIRM. COST SHALL BE REPORTED TO THE PURCHASING DIRECTOR ONCE OBTAINED.

ESTIMATED COST (TO BE PROVIDED ONCE DETERMINED):	\$ 300,000.00
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Acknowledgement of cost estimate received:

[Signature]
SIGNATURE OF DEPARTMENT HEAD/DESIGNEE

08-08-2022
DATE

Carm Thomas
SIGNATURE OF PURCHASING DIRECTOR

8-9-22
DATE

Dawn Thomack
SIGNATURE OF CHIEF FINANCIAL OFFICER

8-8-22
DATE

Clarksville Gas and Water Department, TN
Date range: 01 Jun 2022 - 31 Jul 2022

<u>ID</u> ↑	<u>Description</u> n	<u>VIN/Serial</u>	<u>Buyer</u>	<u>Type</u>	<u>Sold Amount</u>	<u>Auction Ended</u>	<u>Credit Date</u>
355	2010 FORD F150 TRUCK	1FTVX1CV1AKE08642	John Crook	USD	\$6,250.00	10 Jun 2022 08:00 AM CT	
356	MISC TIRES & RIMS		Jeremy Ward	USD	\$(12.00)	08 Jul 2022 08:00 AM CT	29 Jul 2022 03:21 PM CT
357	MISC TIRES & RIMS		Jeff Garst	USD	\$51.08	08 Jul 2022 08:00 AM CT	
					\$6,301.08		

Clarksville Gas & Water Department
12 Month Rolling Collections/Write-offs

Date	Total Turned Over	# of Accounts	Avg Acct Turned Over	Total Collected	Total Write-offs	# of Write-Offs	Avg Acct Write-off
Aug-21	\$ 5,690.17	59	\$ 96.44	\$ 2,979.86	\$ 25,802.02	116	\$ 222.43
Sep-21	\$ 15,585.77	84	\$ 185.54	\$ 8,192.03	\$ 27,977.22	89	\$ 314.35
Oct-21	\$ 14,583.64	77	\$ 189.40	\$ 3,754.22	\$ 10,528.76	63	\$ 167.12
Nov-21	\$ 9,978.18	89	\$ 112.11	\$ 2,794.47	\$ 7,992.73	45	\$ 177.62
Dec-21	\$ 18,096.71	107	\$ 169.13	\$ 1,593.56	\$ 6,079.02	42	\$ 144.74
Jan-22	\$ 10,568.66	73	\$ 144.78	\$ 3,396.41	\$ 4,447.87	35	\$ 127.08
Feb-22	\$ 12,174.36	70	\$ 173.92	\$ 6,399.98	\$ 3,636.40	36	\$ 101.01
Mar-22	\$ 28,577.18	70	\$ 408.25	\$ 7,223.18	\$ 11,478.21	56	\$ 204.97
Apr-22	\$ 11,218.80	89	\$ 126.05	\$ 3,414.96	\$ 10,121.72	40	\$ 253.04
May-22	\$ 14,545.34	94	\$ 154.74	\$ 4,221.49	\$ 4,028.83	41	\$ 98.26
Jun-22	\$ 12,845.22	113	\$ 113.67	\$ 2,843.55	\$ 13,904.85	67	\$ 207.54
Jul-22	\$ 8,890.66	75	\$ 118.54	\$ 4,598.39	\$ 11,595.36	51	\$ 227.36
	\$ 162,754.69	1000	\$ 162.75	\$ 51,412.10	\$ 137,592.99	681	\$ 202.05
				31.59%			

CGW Water Department
July, 2022

	Actual	Month Budget	Fav/(Unfav)	Actual	Year to Date Budget	Fav/(Unfav)
Sales to Customers	3,273,205	2,543,750	729,455	3,273,205	2,543,750	729,455
Penalties	64,552	36,250	28,302	64,552	36,250	28,302
Other Income	464,171	338,750	125,421	464,171	338,750	125,421
Gross Revenue	3,801,928	2,918,750	883,178	3,801,928	2,918,750	883,178
Water Plant 1	477,318	392,176	(85,142)	477,318	392,176	(85,142)
Water Plant 2	61,517	85,601	24,084	61,517	85,601	24,084
Water Transmission	699,118	822,185	123,067	699,118	822,185	123,067
Water Administration	41,075	44,069	2,994	41,075	44,069	2,994
Customer Service	358,009	371,417	13,408	358,009	371,417	13,408
Accounting	80,253	71,180	(9,073)	80,253	71,180	(9,073)
Engineering	133,299	132,221	(1,078)	133,299	132,221	(1,078)
Admin & General	97,665	140,167	42,502	97,665	140,167	42,502
Other Expenses	12,176	19,905	7,728	12,176	19,905	7,728
Depreciation	552,208	594,261	42,054	552,208	594,261	42,054
Total Operating Expenses	2,512,638	2,673,182	160,544	2,512,638	2,673,182	160,544
Income from Operations	1,289,291	245,568	1,043,722	1,289,291	245,568	1,043,722
Interest Income	295,628	6,417	289,212	295,628	6,417	289,212
Other Income (Expense)	550	1,250	(700)	550	1,250	(700)
Interest Expense	(778,946)	(772,890)	(6,056)	(778,946)	(772,890)	(6,056)
Debt Amortization Income	256,090	256,197	(107)	256,090	256,197	(107)
PILOT	(121,552)	(121,552)	0	(121,552)	(121,552)	0
Total Other Income (Expense)	(348,230)	(630,579)	282,349	(348,230)	(630,579)	282,349
Total Income / (Loss)	941,061	(385,010)	1,326,071	941,061	(385,010)	1,326,071
Capital Spend	5,992,481	7,504,000	1,511,519	5,992,481	7,504,000	1,511,519
Contributed Capital - Cash	-	-	-	-	0	-
Contributed Capital - Non-Cash	-	1,000,000	(1,000,000)	-	1,000,000	(1,000,000)

CGW Wastewater Department
July, 2022

	<u>Actual</u>	<u>Month</u> <u>Budget</u>	<u>Fav/(Unfav)</u>	<u>Actual</u>	<u>Year to Date</u> <u>Budget</u>	<u>Fav/(Unfav)</u>
Sales to Customers	4,305,485	3,673,333	632,152	4,305,485	3,673,333	632,152
Penalties	61,383	52,083	9,300	61,383	52,083	9,300
Other Income	657,443	390,875	266,568	657,443	390,875	266,568
Gross Revenue	5,024,311	4,116,292	908,020	5,024,311	4,116,292	908,020
Wastewater Plant	423,084	482,983	59,900	423,084	482,983	59,900
Wastewater Collection	643,472	672,386	28,914	643,472	672,386	28,914
Wastewater Administration	57,774	60,240	2,466	57,774	60,240	2,466
Customer Service	207,215	222,938	15,723	207,215	222,938	15,723
Accounting	85,006	61,870	(23,136)	85,006	61,870	(23,136)
Engineering	143,816	149,058	5,242	143,816	149,058	5,242
Admin & General	90,075	132,162	42,087	90,075	132,162	42,087
Other Expenses	11,559	19,008	7,449	11,559	19,008	7,449
Depreciation	1,037,266	1,063,781	26,515	1,037,266	1,063,781	26,515
Total Operating Expenses	2,699,265	2,864,426	165,161	2,699,265	2,864,426	165,161
Income from Operations	2,325,047	1,251,866	1,073,180	2,325,047	1,251,866	1,073,180
Interest Income	45,047	5,875	39,172	45,047	5,875	39,172
Other Income (Expense)	550	833	(283)	550	833	(283)
Interest Expense	(459,985)	(343,601)	(116,384)	(459,985)	(343,601)	(116,384)
Debt Amortization Income	180,290	180,157	133	180,290	180,157	133
PILOT	(201,272)	(201,272)	-	(201,272)	(201,272)	-
Total Other Income (Expense)	(435,370)	(358,008)	(77,362)	(435,370)	(358,008)	(77,362)
Total Income / (Loss)	1,889,677	893,859	995,819	1,889,677	893,859	995,819
Capital Spend	78,997	1,754,000	1,675,003	78,997	1,754,000	1,675,003
Contributed Capital - Cash	-	-	-	-	-	-
Contributed Capital - Non-Cash	-	1,000,000	(1,000,000)	-	1,000,000	(1,000,000)

CGW Gas Department
July, 2022

	Month			Year to Date		
	<u>Actual</u>	<u>Budget</u>	<u>Fav/(Unfav)</u>	<u>Actual</u>	<u>Budget</u>	<u>Fav/(Unfav)</u>
Sales to Customers	2,019,453	1,837,500	181,953	2,019,453	1,837,500	181,953
Penalties	10,302	16,667	(6,365)	10,302	16,667	(6,365)
Other Income	99,852	98,104	1,748	99,852	98,104	1,748
Gross Revenue	2,129,607	1,952,271	177,336	2,129,607	1,952,271	177,336
Cost of Gas	1,434,477	1,250,000	(184,477)	1,434,477	1,250,000	(184,477)
Gas Distribution	283,776	275,209	(8,567)	283,776	275,209	(8,567)
Gas Administration	149,244	156,941	7,697	149,244	156,941	7,697
Ft. Campbell Operations	45,725	48,269	2,545	45,725	48,269	2,545
Customer Service	108,400	113,562	5,162	108,400	113,562	5,162
Accounting	79,077	57,590	(21,487)	79,077	57,590	(21,487)
Engineering	53,220	60,244	7,024	53,220	60,244	7,024
Admin & General	89,811	133,185	43,373	89,811	133,185	43,373
Other Expenses	9,448	15,643	6,196	9,448	15,643	6,196
Depreciation	161,329	170,793	9,464	161,329	170,793	9,464
Total Operating Expenses	2,414,506	2,281,436	(133,070)	2,414,506	2,281,436	(133,070)
Income from Operations	(284,899)	(329,165)	44,266	(284,899)	(329,165)	44,266
Interest Income	33,628	4,258	29,370	33,628	4,258	29,370
Other Income (Expense)	550	500	50	550	500	50
Interest Expense	(13,074)	(11,672)	(1,402)	(13,074)	(11,672)	(1,402)
Debt Amortization Income	6,941	6,967	(27)	6,941	6,967	(27)
PILOT	(67,587)	(67,587)	-	(67,587)	(67,587)	-
Total Other Income (Expense)	(39,542)	(67,534)	27,991	(39,542)	(67,534)	27,991
Total Income / (Loss)	(324,441)	(396,698)	72,257	(324,441)	(396,698)	72,257
Capital Spend	171,607	980,000	808,393	171,607	980,000	808,393
Contributed Capital - Cash	-	20,833	(20,833)	-	20,833	(20,833)
Contributed Capital - Non-Cash	-	4,167	(4,167)	-	4,167	(4,167)

FY 2023 Debt Coverage

July, 2022

Fiscal Period	1
	<u>Actual</u>
System Gross Revenue	\$ 10,955,847
System Operating Expenses	<u>7,626,408</u>
	3,329,439
Add: Depreciation Expense	1,750,802
Other Revenue (Expense)	<u>375,954</u>
Net Revenues	\$ 5,456,195

Debt Coverage Ratio	3.35
Debt Coverage Ratio Goal	1.70
<i>FY 2022 Coverage Ratio</i>	<i>2.45</i>
<i>FY 2021 Coverage Ratio</i>	<i>2.12</i>

>2.00 = Aaa rating

1.70-2.00 = Aa rating

Debt to Operation Revenue Ratio

July, 2022

FY 2023 Budget

Total Debt	\$ 348,379,888
Operating Revenue	\$ 131,470,162
Debt/Operating Revenue	2.65

FY 2022 Budget

Total Debt	\$ 356,997,569
Operating Revenue	\$ 119,428,817
Debt/Operating Revenue	2.99

FY 2021 Actual

Total Debt	\$ 177,406,199
Operating Revenue	\$ 97,336,265
Debt/Operating Revenue	1.82

FY 2020 Actual

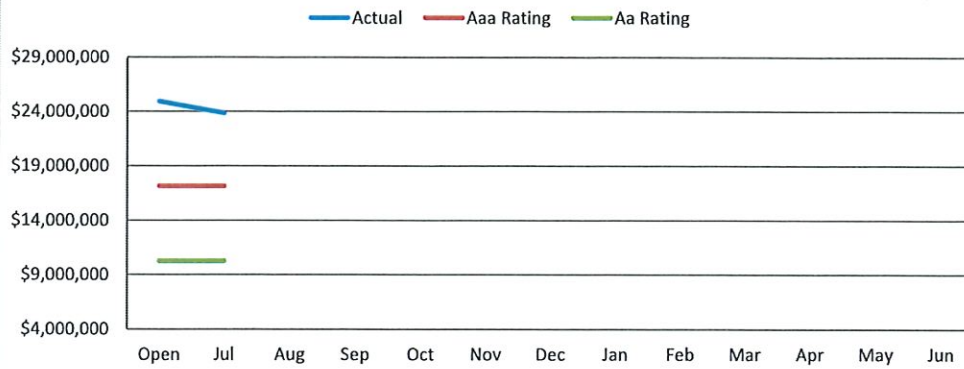
Total Debt	\$ 189,626,801
Operating Revenue	\$ 92,208,721
Debt/Operating Revenue	2.06

<2.00 = Aaa

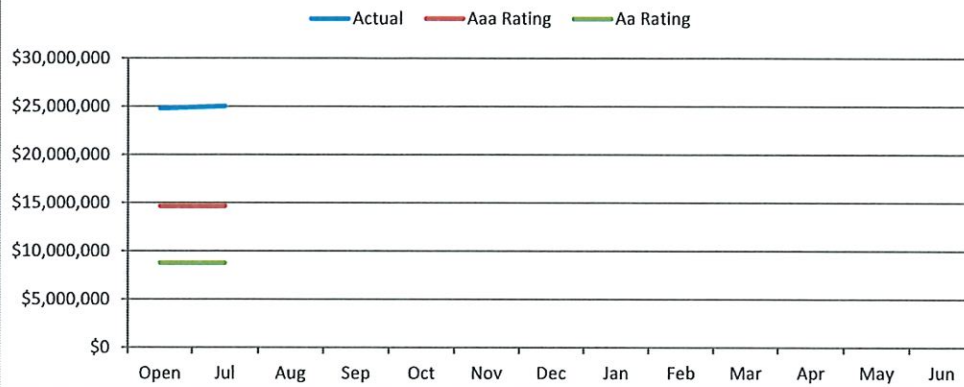
2.00 - 4.00 = Aa

Clarksville Gas & Water FY 2023

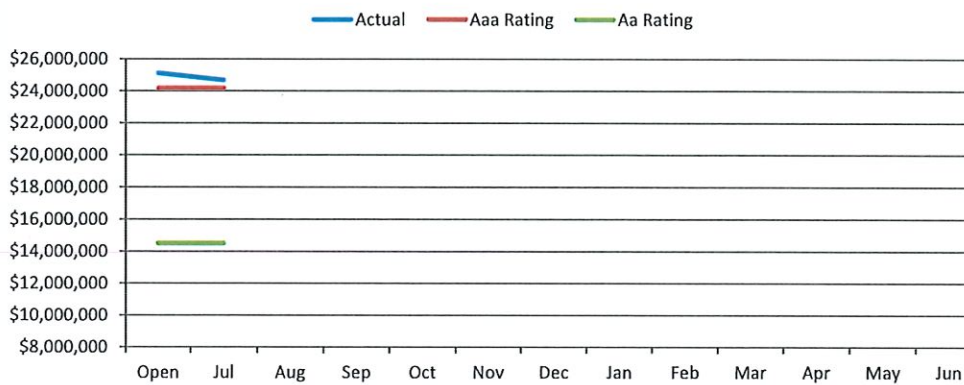
FY 2023 Available Cash - Water



FY 2023 Available Cash - Wastewater



FY 2023 Available Cash - Gas





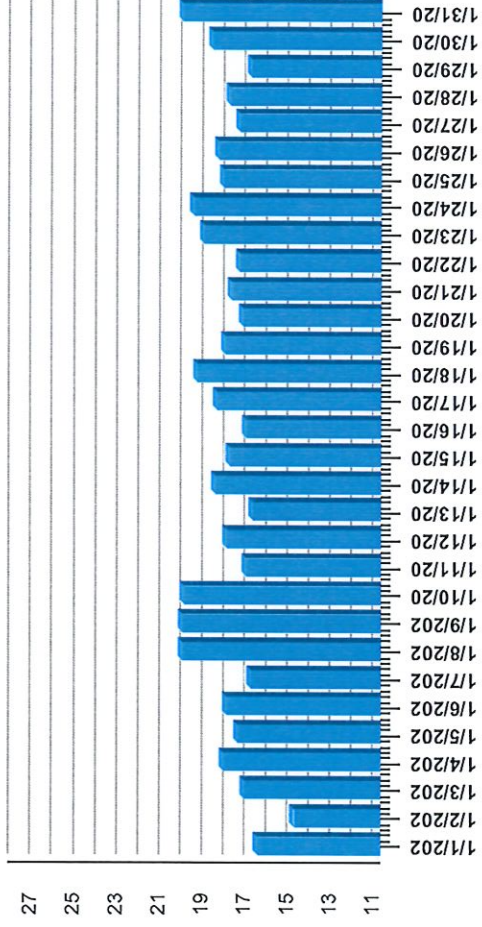
Monthly Activity Summary

July 2022

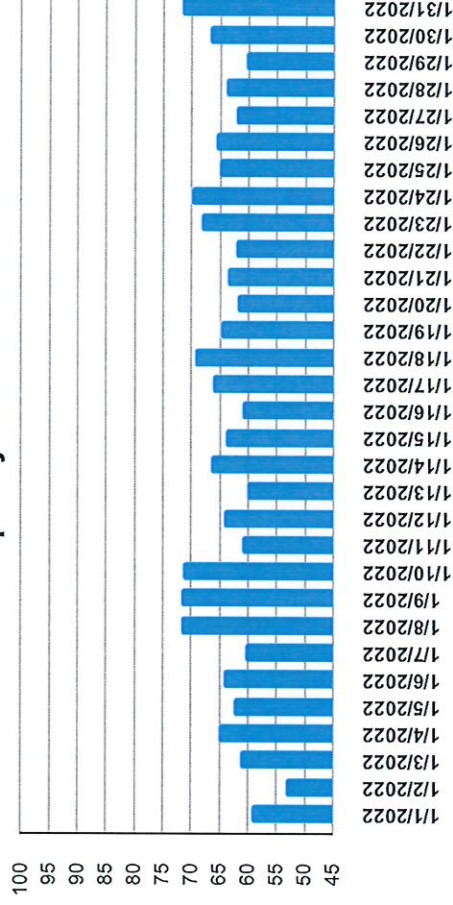
- Assessment Areas:
 - Hazelwood: cost \$2,727,241 / paid \$2,728,400
 - Oakland: cost \$881,876 / paid \$293,975/ remaining \$587,901
- Gas System distributed 262 million cubic feet and averaged 8.4 million cubic feet per day. That represents approximately 12.8 percent of the system's capacity.
- Water Plant pumped 680 million gallons of treated water into the system and averaged 21.9 million gallons per day. That represents approximately 78 percent of the plant's capacity.
- Wastewater Plant treated 418 million gallons of sewage and averaged 13.5 million gallons per day. That represents approximately 54 percent of the plant's capacity.
- The call center handled 11,065 calls and averaged 356 per day. Each call lasted an average of 3 minutes and 48 seconds.
- Service Department completed 5,658 work orders and responded to 269 after hour calls.
- Gas Division installed 45 new services totaling 3,754 feet of pipe and responded to 52 natural gas odor calls.
- Water Division repaired 85 water leaks totaling 1,574 feet of pipe, flushed 257 hydrants, and tested 846 backflow devices.
- Sewer Division made 16 point repairs totaling 180 feet of pipe and cleaned 21,853 feet of pipe.
- Engineering Department approved 15 utility plans this month and currently has 42 on-going projects.
- Billing Department read 108,521 meters with an accuracy rate of 99.89 percent and sent a total of 102,975 bills and notices.

DATE	TOTALS IN MGD	DATE	% of Total Capacity Based on 28 MGD
1/1/2022	16.6	1/1/2022	59.29
1/2/2022	14.9	1/2/2022	53.21
1/3/2022	17.2	1/3/2022	61.43
1/4/2022	18.2	1/4/2022	65.00
1/5/2022	17.5	1/5/2022	62.50
1/6/2022	18.0	1/6/2022	64.29
1/7/2022	16.9	1/7/2022	60.36
1/8/2022	20.1	1/8/2022	71.79
1/9/2022	20.1	1/9/2022	71.79
1/10/2022	20.0	1/10/2022	71.43
1/11/2022	17.1	1/11/2022	61.07
1/12/2022	18.0	1/12/2022	64.29
1/13/2022	16.8	1/13/2022	60.00
1/14/2022	18.6	1/14/2022	66.43
1/15/2022	17.9	1/15/2022	63.93
1/16/2022	17.1	1/16/2022	61.07
1/17/2022	18.5	1/17/2022	66.07
1/18/2022	19.4	1/18/2022	69.29
1/19/2022	18.1	1/19/2022	64.64
1/20/2022	17.3	1/20/2022	61.79
1/21/2022	17.8	1/21/2022	63.57
1/22/2022	17.4	1/22/2022	62.14
1/23/2022	19.1	1/23/2022	68.21
1/24/2022	19.6	1/24/2022	70.00
1/25/2022	18.2	1/25/2022	65.00
1/26/2022	18.4	1/26/2022	65.71
1/27/2022	17.4	1/27/2022	62.14
1/28/2022	17.9	1/28/2022	63.93
1/29/2022	16.9	1/29/2022	60.36
1/30/2022	18.7	1/30/2022	66.79
1/31/2022	20.1	1/31/2022	71.79
Monthly total	559.8	Monthly average	64.49

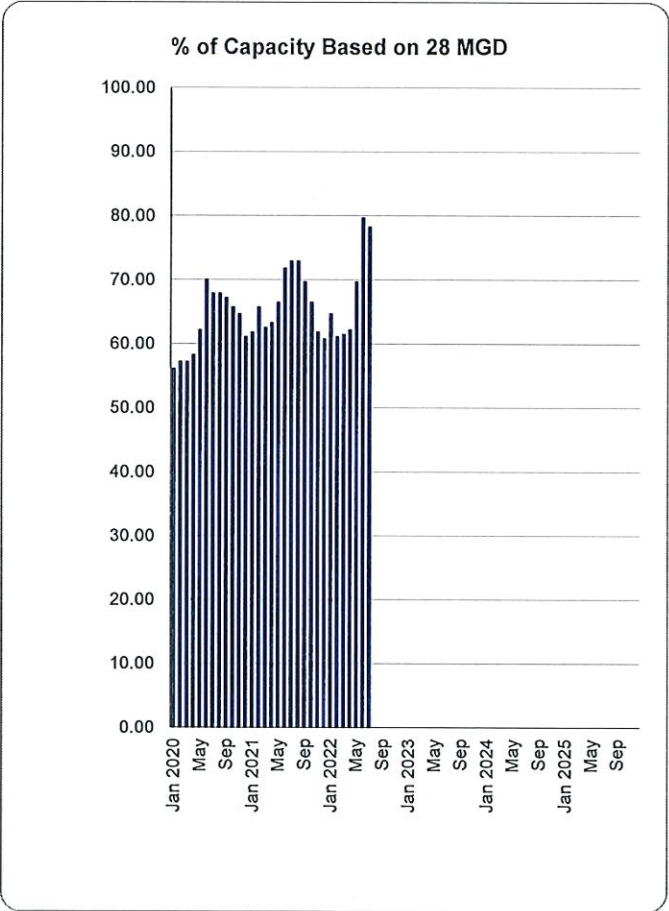
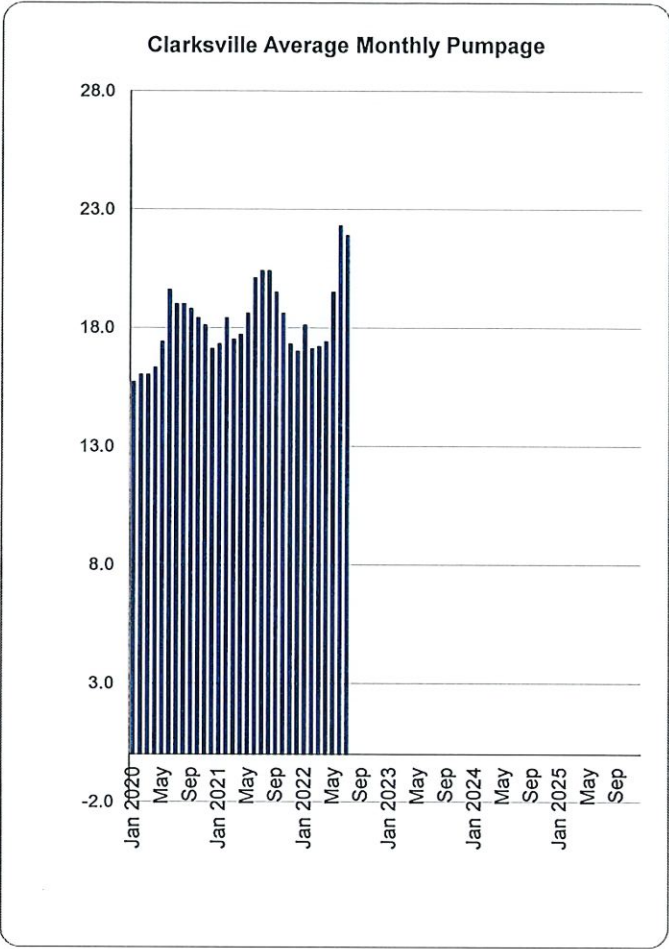
Daily Finished Totals MGD



% of Total Capacity Based on 28 MGD

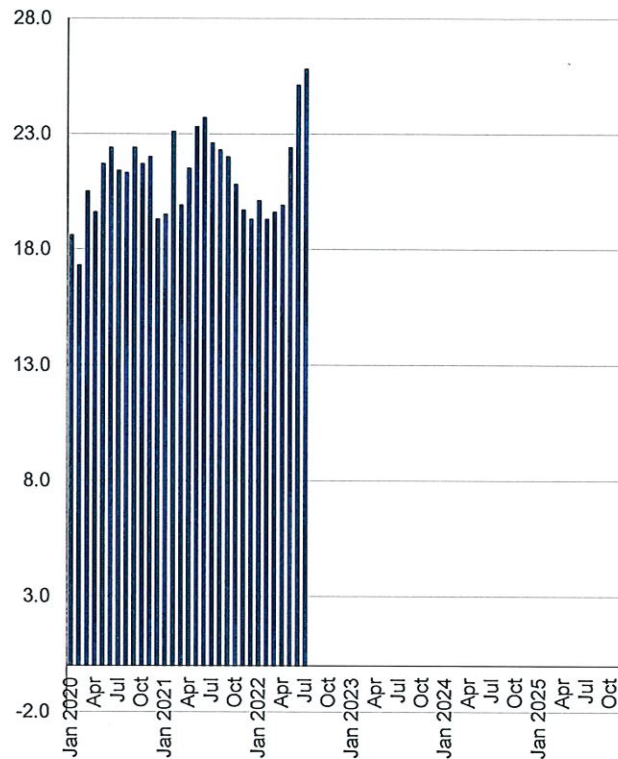


Date	Amt	Date	% of Capacity
Jan 2020	15.7	Jan 2020	56.07
Feb	16.0	Feb	57.14
Mar	16.0	Mar	57.14
Apr	16.3	Apr	58.21
May	17.4	May	62.14
Jun	19.6	Jun	70.00
Jul	19.0	Jul	67.86
Aug	19.0	Aug	67.86
Sep	18.8	Sep	67.14
Oct	18.4	Oct	65.71
Nov	18.1	Nov	64.64
Dec	17.1	Dec	61.07
Jan 2021	17.3	Jan 2021	61.79
Feb	18.4	Feb	65.71
Mar	17.5	Mar	62.50
Apr	17.7	Apr	63.21
May	18.6	May	66.43
Jun	20.1	Jun	71.79
Jul	20.4	Jul	72.86
Aug	20.4	Aug	72.86
Sep	19.5	Sep	69.64
Oct	18.6	Oct	66.43
Nov	17.3	Nov	61.79
Dec	17.0	Dec	60.71
Jan 2022	18.1	Jan 2022	64.64
Feb	17.1	Feb	61.07
Mar	17.2	Mar	61.43
Apr	17.4	Apr	62.14
May	19.5	May	69.64
Jun	22.3	Jun	79.64
Jul	21.9	Jul	78.21
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2023		Jan 2023	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2024		Jan 2024	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2025		Jan 2025	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00

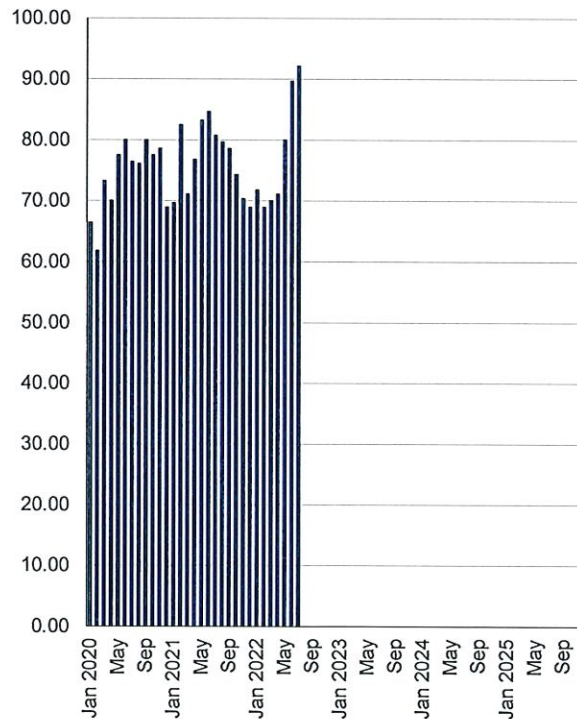


Date	Amt	Date	% of Capacity
Jan 2020	18.6	Jan 2020	66.43
Feb	17.3	Feb	61.79
Mar	20.5	Mar	73.21
Apr	19.6	Apr	70.00
May	21.7	May	77.50
Jun	22.4	Jun	80.00
Jul	21.4	Jul	76.43
Aug	21.3	Aug	76.07
Sep	22.4	Sep	80.00
Oct	21.7	Oct	77.50
Nov	22.0	Nov	78.57
Dec	19.3	Dec	68.93
Jan 2021	19.5	Jan 2021	69.64
Feb	23.1	Feb	82.50
Mar	19.9	Mar	71.07
Apr	21.5	Apr	76.79
May	23.3	May	83.21
Jun	23.7	Jun	84.64
Jul	22.6	Jul	80.71
Aug	22.3	Aug	79.64
Sep	22.0	Sep	78.57
Oct	20.8	Oct	74.29
Nov	19.7	Nov	70.36
Dec	19.3	Dec	68.93
Jan 2022	20.1	Jan 2022	71.79
Feb	19.3	Feb	68.93
Mar	19.6	Mar	70.00
Apr	19.9	Apr	71.07
May	22.4	May	80.00
Jun	25.1	Jun	89.64
Jul	25.8	Jul	92.14
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2023		Jan 2023	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2024		Jan 2024	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00
Jan 2025		Jan 2025	0.00
Feb		Feb	0.00
Mar		Mar	0.00
Apr		Apr	0.00
May		May	0.00
Jun		Jun	0.00
Jul		Jul	0.00
Aug		Aug	0.00
Sep		Sep	0.00
Oct		Oct	0.00
Nov		Nov	0.00
Dec		Dec	0.00

Clarksville Maximum Daily Pumpage



% of Capacity Based on 28 MGD



FINISHED WATER PUMPAGE TOTALS

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Jan.Total	442038	486007	472836	460298	471709	542638	506802	487760	537922	561582
Aver.	14259	15678	15253	14848	15216	17504	16348	15734	17352	18116
Max	17032	18977	18841	17349	19091	19678	19667	18650	19509	20157
Min	12695	11548	13616	12928	14348	14683	13896	12889	15070	14954
Feb.Total	400164	424980	431331	420563	418523	450030	467133	464620	517207	481539
Aver.	14292	15178	15405	14502	14947	16073	16683	16021	18472	17198
Max	17101	17883	17659	15791	16453	19679	19919	17301	23147	19398
Min	10627	12956	13342	13145	13507	14057	13710	14832	14933	14669
Mar.Total	443135	454724	459349	442712	462775	488427	499251	498790	543470	535053
Aver.	14295	14669	14818	14281	14928	15756	16105	16090	17531	17260
Max	16323	16316	16565	15992	17089	17592	17367	20582	19958	19689
Min	12758	12448	13381	12822	13894	14516	14929	13982	15338	15188
Apr. Total	428845	442935	433816	447902	479548	471571	495905	491542	531895	523710
Aver.	14295	14765	14461	14930	15985	15719	16530	16385	17730	17457
Max	16049	17251	15936	16785	19424	17634	19477	19679	21550	19947
Min	12472	13031	12702	12521	14464	13683	14140	13942	14991	14376
May Total	469221	494881	502787	484014	508673	535251	550304	541075	577661	605393
Aver.	15136	15964	16219	15613	16409	17266	17752	17454	18634	19529
Max	17712	19461	18671	19413	19500	20201	21385	21754	23319	22441
Min	12710	13064	14687	13917	13724	14348	14204	15033	15661	15713
Jun. Total	484809	500530	505360	536245	525289	554301	539759	588876	604053	671751
Aver.	16160	16684	16846	17875	17510	18477	17992	19629	20135	22392
Max	18416	20717	19306	20660	24870	21444	21454	22442	23784	25153
Min	13442	14133	14050	15630	14988	15308	14700	16334	16624	17251
Jul. Total	503624	572496	544235	519632	571991	583935	569783	590407	633850	680281
Aver.	16246	18468	17556	16762	19451	18837	18380	19045	20447	21945
Max	19079	21348	21555	19407	21680	22472	21198	21487	22672	25815
Min	12996	14926	14673	14985	15287	13853	16212	15643	17478	18869
Aug.Total	501432	559563	547126	529644	566204	595380	584399	589997	633761	
Aver.	16175	18050	17649	17085	18265	19206	18852	19032	20444	
Max	20145	21121	20033	19451	22100	22024	21852	21359	22323	
Min	14013	13566	14503	14785	15658	15318	15235	16443	16939	
Sep.Total	494484	527302	508650	532147	530559	569190	605709	565475	585256	
Aver.	16483	17577	16955	17738	17685	18973	20190	18849	19508	
Max	17993	21379	19573	21501	19637	22112	23540	22452	22039	
Min	14365	14851	14245	16104	15576	16342	17485	16121	17898	
Oct. Total	482230	484925	471463	547410	533123	561681	560395	573348	576635	
Aver.	15556	15643	15208	17658	17198	18119	18077	18495	18601	
Max	18514	18115	16803	20503	19507	20803	21149	21771	20894	
Min	12424	13993	13337	15408	14485	15333	14001	16235	16225	
Nov.Total	442786	443208	427852	501075	490630	496859	506448	544277	520726	
Aver.	14760	14774	14262	16703	16354	16562	16882	18143	17358	
Max	16254	16718	15879	19499	18381	19630	19775	22005	19727	
Min	13360	13207	12336	13700	13825	14615	14275	16175	14142	
Dec.Total	463552	453064	442384	475697	497194	504637	492948	533119	527675	
Aver.	14953	14615	14270	15345	16039	16279	15902	17197	17022	
Max	20904	16055	16082	17226	17728	19829	17795	19317	19357	
Min	12206	13421	12787	13516	13355	13897	13962	15018	15196	
Yr. Total	5556320	5844615	5747189	5897339	6056218	6353900	6378836	6469286	6790111	4059309
Yr. Aver.	15222	16013	15746	16113	16592	17408	17476	17724	18603	
Peak Day	20904	21379	21555	21501	24870	22472	23540	22452	23784	

METER READING AND SERVICE DEPARTMENT MONTHLY / YEARLY REPORT

METER READING

		<u>Meters Read</u>			<u>Accuracy Rate</u>
		<u>Gas</u>	<u>Water</u>	<u>Total</u>	
July	2022	29,836	78,685	108,521	99.89%
June	2022	29,755	78,320	108,075	99.92%
May	2022	29,709	77,957	107,666	99.92%
April	2022	29,674	77,680	107,354	99.92%
March	2022	29,632	77,412	107,044	99.91%
February	2022	29,595	77,217	106,812	99.91%
January	2022	29,567	77,038	106,605	99.91%
December	2021	29,545	76,826	106,371	99.91%
November	2021	29,518	76,549	106,067	99.90%
October	2021	29,503	76,304	105,807	99.90%
September	2021	29,472	76,086	105,558	99.89%
August	2021	29,451	75,978	105,429	99.92%
July	2021	29,417	75,618	105,035	99.92%
12 Month Total		384,674	1,001,670	1,386,344	99.91%

SERVICE DEPARTMENT

		<u>Service Orders</u>	<u>After Hours Calls</u>
July	2022	5658	269
June	2022	5433	253
May	2022	5312	323
April	2022	5062	283
March	2022	6066	345
February	2022	4329	282
January	2022	4785	410
December	2021	5168	312
November	2021	4807	327
October	2021	283	283
September	2021	5066	238
August	2021	5513	271
July	2021	5893	250
June	2021	5942	221
May	2021	4423	184
12 Month Total		73,740	4,251