

Operations Management Services



2014 Annual Report

City of Hinesville, Georgia



Letter from the Public Works Director

Dear Community leaders, staff, and citizens:

The City of Hinesville is “home for a day or a lifetime.” The City relies on partners that share the aspiration of a prosperous, sustainable future and take actions to advance the best interests of the City and its residents. Like any city, Hinesville requires services that are proven and streamlined, yet tailored to the specific needs of the City. Since selecting CH2M as your operations and maintenance (O&M) partner for water and wastewater services 31 years ago, we have proudly worked side-by-side with the passionate people who make Hinesville a vibrant place to live and work. This report highlights some of the accomplishments of our collaborative relationship during the past year, as well as initiatives currently underway and/or planned for 2015.

This year saw some important employee transitions. Gregg Higgins transitioned back into the position of Regional Director of Operations. I came to Hinesville in February to assume the role of Public Works Director. With more than 35 years of experience delivering design, construction, startup, optimization, and O&M solutions, I strive for continuous improvement.

Our onsite team is comprised mostly of Hinesville residents—people committed to your unique way of life. Our employees live, work, play, worship, and raise families here. Our employees’ service to Hinesville is service for themselves and their families, which provides added motivation to continue to outperform your expectations. We look forward to the opportunity to continue serving the people of Hinesville. We are committed to the City, Georgia, and its vibrant lifestyle.

This past year, we conducted performance-benchmark studies to heighten awareness of the water and sewer systems and the overall effectiveness of our operations. The purpose of these studies is to promote cost-effective measures to provide quality service to the citizens of Hinesville. A sample of those results is presented throughout this report. The benchmarking results are presented graphically along with our accomplishments, challenges, and lessons learned.

The Hinesville project team would like to convey our appreciation to the Mayor, Council, and city officials for their support. We understand the importance of being innovative, resourceful, and flexible partners with our clients to provide the best solutions for their utility, infrastructure, and environmental needs.

Thank you for your continued support.

Since 1984, the City of Hinesville (the City) and CH2M have been partnered for success.



Guan Ellis, P.E.



Guan Ellis, P.E.

Introduction

To provide its citizens with high levels of service and added value, the City took the innovative decision to use a public-private partnership to provide water and wastewater O&M services and public works. CH2M has been proud to work for the people of Hinesville for the past 31 years. We look forward to the future, and we continue to go above and beyond in the innovations and value we bring to our services! We focus on delivering:

- A partnership of trust and collaboration with the City
- A thorough understanding of the City's needs
- An open dialog and transparency in our operations

CH2M's 85 onsite O&M employees provide high quality water and wastewater services and public works to more than 33,000 residents. Through hard work and collaboration with the City, CH2M operates the Public Works and Public Utilities with complete transparency. Even with all of the growth within the City, significant increases in scope of services and ever increasing regulatory demands, CH2M and the City are a clear example of what a long term public-private partnership can accomplish.

We are responsible for water treatment and distribution, wastewater collection and treatment, streets, drainage, parks and grounds, vehicular maintenance, and sanitation. We also administer a mosquito control program recently recognized by the Georgia Department of Health as one of the best in the state of Georgia.

We understand the incredible trust the City has placed in us to deliver these critical services to your residents, and that trust guides us every day. We oversee:

- Two wastewater treatment plants (WWTPs)
- 42 lift stations
- Four water wells
- 5.4 million gallons of wastewater treated daily
- 2.89 million gallons annual average of water treated daily
- 184 miles of water distribution lines
- 165 miles of gravity wastewater collection lines
- 27 miles of force mains
- 3,570 sanitary manholes
- 135 miles of maintained streets
- 51 miles of sidewalk
- 19 stormwater ponds
- 59 miles of stormwater culverts
- 2.5 miles of stormwater flumes
- 63 miles of stormwater ditches
- 4,135 stormwater structures
- More than 50 acres of maintained city property, including parks, streetscapes, medians, city hall, and police department
- Garbage and dry trash pickup for 9,126 customers
- Water meter reading for 11,379 customers
- Vehicular maintenance for over 200 vehicles and pieces of equipment

Our Team

CH2M's delivery starts at the top of our Hinesville team. Public Works Director Guan Ellis became the team leader in February 2014. He is a registered professional engineer with over 44 years of experience. Guan leads the senior management team of Gary Gilliard, Robert Norby, Bobby Ryon, Sheri Kantor, and Rodney Edwards. The management team provides the leadership of our 85-member delivery team, ensuring that CH2M is providing services to the City's expectations. Guan is the City's primary point of contact.

Our dedicated, experienced team have certifications and/or licenses in the following areas:

- Engineering
- Erosion control
- Wastewater treatment
- Wastewater collection
- Water treatment
- Water distribution
- Mosquito control
- Arborary maintenance
- Heavy equipment operations
- Vehicle maintenance
- Utility maintenance
- Geographical Information System (GIS)

These unique and specialized qualifications are critical to the City in this era of environmental compliance and enforcement. They are a significant benefit to the citizens of Hinesville. The presence of a cerified arborist and a recognized mosquito expert is unique in its scope.

Our management team brings nearly 200 combined years of utilities and public works experience. CH2M is proud to have such talented people working for Hinesville. Many of these professionals have spent most of their careers working for CH2M, implementing the many management systems and practices needed to support the City's operation. Exhibit 1 and Exhibit 2 highlight the experience of our Hinesville team.

Exhibit 2
Hinesville Management Team Licenses and Certifications

- 1 Georgia Collections and Distribution License
- 2 Georgia Water and Wastewater License
- 6 CH2M Arc Flash Certification
- 6 CH2M Confined Space Certification
- 2 Georgia Certified Competent Person Excavation
- 7 Georgia Soil and Water Conservation Commission/
National Pollutant Discharge Elimination System Certification
for Erosion and Sediment Control



CH2M Hinesville Team Members.

Exhibit 1
Hinesville Senior Management Team Experience

Employee	Position/Certifications	Years of Experience
Guan Ellis	Public Works Director Professional Engineer, Erosion Control	44
Robert Norby	Project Manager Utilities Water and Wastewater Treatment, Utilities Excavation	31
Sheri Kantor	Operations Manager Wastewater Treatment	28
Bobby Ryon	Project Manager Public Works Erosion Control	39
Gary Gilliard	Health and Safety	30
Rodney Edwards	Sanitation, Parks, and Grounds Manager	19

- 16 Georgia Department of Transportation
Approved Utility Flagger Certification
- 5 CH2M Certified Heavy Equipment Operator
- 20 Commercial Driver's License
- 1 OSHA 10-Hour Safety Certification
- 1 Pesticide License
- 13 ASE Certifications
- 1 Certified Arborist

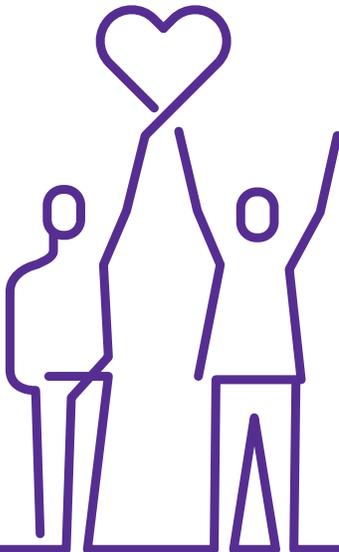
Award-Winning Program

Hinesville recently won three awards at the Georgia Association of Water Professionals (GAWP) annual spring conference. The awards include:

- 2015 Top Water Operator of the Year Award to Lead Water Operator Guy Berg
- 2014 Drinking Water Facility Gold Award for the Hinesville Water System
- 2014 Wastewater Facility Gold Award for the Peacock Creek Water Reclamation Facility



Guy Berg (left) accepts his TopOp award at the annual spring conference from GAWP District 8 Director Daryl McCorkle.



O&M Overview

It's easy for us to say we provide comprehensive O&M for the City's public works, but what exactly does that mean?

CH2M is proud of the partnership we have developed with Hinesville and the accomplishments we've had while at your service. The following information illustrates our drive to go above and beyond in our service to local residents, as well as the types of innovations we strive for every day.

Implemented

Maintenance program including preventive, predictive, and corrective maintenance with controls provided in an integrated maintenance system computer program.

Established

Program to repair and replace numerous mechanical and electrical defects at the lift stations.

Earned

Three awards from the Georgia Association of Water Professionals (GAWP) including one individual award for water system operations and two awards for water and sewer system operations.

Beautification

Embarked on an aggressive program of improving the appearance of the City including public spaces, parks, and streetscapes.

Performed

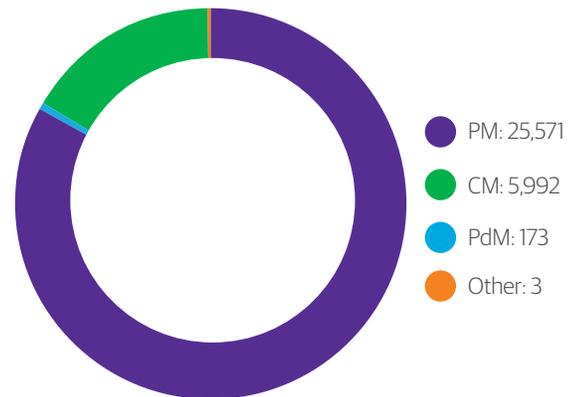
Guided tours of our Water Reclamation Facility (WRF) to various groups to demonstrate the importance of returning reclaimed water to our ecosystem.

Engaged

Employees participated in community activities involving church and civic organizations to enhance the community in which we live.

Provided

Best-in-class service by successfully completing 31,739 work orders across 11 departments in 2014.



On the following pages we will highlight our roles, responsibilities, and project highlights for:

Public Works

- Streets and drainage
- Mosquito control
- Parks and grounds
- Vehicle maintenance

Public Utilities

- Water
- Wastewater
- Distribution & collection
- Lift stations
- Meter reading

Laboratory

- Testing
- Analysis
- Data management
- Regulatory reporting

Sanitation

- Collection
- Waste management
- Compliance
- Recycling

Streets and Drainage

The Street and Drainage department shares resources to complete activities within each department. Street maintenance includes roadway mowing, litter pick-up, sign maintenance and repair, road edge maintenance and repair, crack sealing, road cut repair, and potholes repair.

CH2M is responsible for maintaining:

- 1,601 road name signs
- 67 transit signs
- 13 Hinesville signs
- 133 miles of paved roads
- 86 miles of curbing
- 25 miles of highway sidewalks
- 809 warning signs
- 211 information signs
- 22 downtown signs
- 1.9 miles of dirt roads
- 26 miles of city sidewalks

With all of the requirements the City must meet to keep this beautiful, southern community operating, almost 2,000 work orders were completed in 2014 by the Streets and Drainage Department alone.

Drainage maintenance is a 12-month operation, and the primary goal is to ensure proper operations of the drainage system within the City of Hinesville. Drainage operations fall into

three different frequency cycles: monthly, bi-annual, and annual.

Ditch maintenance activities can be highly variable based upon the weather. Special articulated equipment is used to maintain most of the ditches during periods of high rainfall. This can delay maintenance operations for safety reasons and due to surface damage that can occur when the ground is saturated.



Spring and summer brings out the grass and weeds and the need for the Spyder. Public Works maintains all the drainage ditches in the City.

As part of the City's regulatory requirements, all ditches must be inspected for problems such as illegal discharges. Ditches are inspected every year with results provided to the City Engineer's report to the state. Exhibit 3 is a typical example of the annual maintenance schedule. Work is tracked within the maintenance management system and manually within a series of spreadsheets for use in communicating schedules to the public.

Exhibit 3
Sample Ditch Maintenance Schedule

Location	Type	Park Performance	Equipment Used	Scheduled Date	Date Last Completed	Next Scheduled Maintenance
790 E.G. Miles to 660 McDowell Rd (between McDowell and Maloney)	OF-6	Mow	Spyder	Aug. 2014	Sept. 25, 2014	Aug. 2015
655 McDowell to 618 Fleming Road	OF-6	Mow	Spyder	Aug. 2014	Sept. 24, 2014	Aug. 2015
618 Fleming Road to Hearn Road	OF-6	Mow	Spyder	Aug. 2014	Sept. 24, 2014	Aug. 2015
977 White Cir (Side of Wildwood Park)	OF-6	Labor	Weedeater	Aug. 2014	April 21, 2014	Aug. 2015
Between 980 and 978 White Circle	OF-6	Labor	Weedeater	Aug. 2014	April 21, 2014	Aug. 2015
Between 977 and 979 White Circle	OF-6	Labor	Weedeater	Aug. 2014	April 21, 2014	Aug. 2015
630 Grover Ct to 634 Varnedoe St (parallels Varnedoe)	OF-6	Mow	Spyder	Aug. 2014	May 21, 2014	Aug. 2015
633 Lee Road to 701 Lee Road	OF-6	Mow	Spyder	Aug. 2014	May 20, 2014	Aug. 2015
624 Livingston to Varnedoe St (between Varnedoe and Bacon)	OF-6	Mow	Spyder	Aug. 2014	May 20, 2014	Aug. 2015
1032 Varnedoe to 613 Livingston (between Livingston and Honey Creek)	OF-6	Mow	Spyder	Aug. 2014	May 22, 2014	Aug. 2015
704 Westride to 718 Kadi (rear of property to Kadi Dr/Pineland Square)	OF-6	Mow	Spyder	Aug. 2014	Sept. 19, 2014	Aug. 2015
701 Kadi Dr to RR tracks (between Kadi Dr and Deerwood Dr)	OF-6	Mow	Spyder	Aug. 2014	Sept. 19, 2014	Aug. 2015
741 Kadi to RR (rear of property to outfall)	OF-6	Mow	Spyder	Aug. 2014	Sept. 29, 2014	Aug. 2015
1008 Bacon Rd to Glenn Bryant Rd (Eunice Rd outfall: starts at Eunice and parallels RR)	OF-6	Mow	Spyder	Aug. 2014	Sept. 26, 2014	Aug. 2015

Color code legend for date last completed
Dates entered in orange means ditch has not been cleaned according to schedule

C—Canal
RS—Roadside
DP—Detention pond
FL—Flume

BC—Box Culvert
TD—Trench drain
SD—Storm drain
CP—Crossover pipe

ITS—Inlet trash screen
DO—Drainage outlet

Mosquito Control

One of the key components for many of our departments is the goal to protect the safety and well-being of the citizens and environment in Hinesville. CH2M developed a Mosquito Control Pesticide Discharge Management Plan (PDMP) which has been recognized as one of the best small management plans in Georgia. A primary component of the PDMP is to prevent and control mosquito growth, this is done through a number of measures with breeding prevention as the most effective approach. The basic approach for prevention and control is through public education, survey of suspect breeding sites, prevention of mosquito growth through habitat destruction or elimination, biological controls, and finally the use of pesticides.



Mosquito prevention in progress.

CH2M placed 141 pounds of larvicide briquettes for source reduction in the year 2014. This approach is used for storm drains and all areas that hold water for longer than 3-5 days.

Live traps (monitoring equipment) were distributed throughout the City 180 times during mosquito season in 2014. Each time, the capture was evaluated and identified by species to determine habitat, treatment effectiveness, and for shipment of specific species to the Georgia Department of Public Health for further testing of potential diseases.



Kenna Graham inspects a mosquito sample.

“Currently the program is a considerable better program than it was just 4 years ago, and it continues to improve.”

Rosemarie Kelly
Georgia Department of Public Health

Due to environmental impacts, pesticides are the last choice of every good program, but when pesticides are required the volume of these chemicals are closely tracked and results monitored. Whether through the use of pesticides or habitat abatement, during breeding season insect identification is completed via continuous monitoring with live traps, so treatment effectiveness can be evaluated, modified if needed, and identification of potential disease carrying mosquitoes can be reported to Georgia DPH.



Parks and Grounds

The Parks and Grounds department maintains the City of Hinesville community parks, city properties, medians, and pump stations grooming. Our team of grounds maintenance professionals is constantly busy maintaining these areas, including various seasonal plant maintenance activities, maintaining park playground equipment, and setting up holiday displays at Bradwell Park, including the hoisting of the Christmas tree decorating event and Mayor's lighting of the tree celebration.

Bradwell Park plays a significant part in the activities of downtown Hinesville. With weekly activities from spring to fall – such as the Farmers Market, live entertainment, movies, and the fall Scarecrows Strol – the Parks and Grounds department pays special attention to this center of community activity.

Listed below are the major parks and median maintenance areas. This is only a partial list that also includes various other road medians and Gateway Monuments. More than 60 acres of property are maintained by this department with support from the Streets Department at Bryant Commons.

The facilities maintained by this department include the following:

- Memorial Drive
- Bradwell Park
- Bryant Commons
- Irene B. Thomas Park
- Jack Carter Park
- Main Street Park and the Liberty Walking Trail
- Singleton Memorial Park
- Wildwood Park
- Bradwell Extension
- East Court
- General Stewart
- Ryon Avenue
- Kings Road



Bradwell Park



Streetscaping project on Memorial Drive.



Fixing sprinklers during landscape beautification project.

Vehicle Maintenance

One of the most critical departments within the public works and utilities operations is the vehicle maintenance department. Every department within the City relies on this team to keep their rolling stock moving.

The two most important customers are the police and fire departments. The Police department has 99 vehicles and the Fire department has 46 vehicles that make up 50 percent of the total city fleet. The goal of

this department is to service police and fire vehicles as first priority, unless otherwise directed. The remainder of the fleet is comprised of 18 departments with 147 pieces of rolling stock.

The maintenance operation in Hinesville has come a long way over the past 5 years. Through capital investment by the City, the vehicle maintenance department has increased efficiency and reduced maintenance

expenses. Two key investments have been the new all-wheel medium weight lift and the new computer diagnostics equipment for troubleshooting equipment failures. This previously had been provided by local manufacturer's representatives.

The complexity of our operations requires well trained and certified technicians.

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Our technicians have over 16 state certifications. Seventy percent of these certifications are from the U.S. National Institute for Automotive Service Excellence.



Vehicle Maintenance department works on City vehicles.

2014 Utilities O&M Activity Summary

Water Production

The City has a 4-million-gallon-per-day (mgd) water treatment plant (WTP), four water wells, and six storage tanks. In addition to these facilities, CH2M operates and maintains all raw water pump stations, treated water booster pump stations, and treated water storage tanks. Exhibit 4 shows the amount of drinking water treated each month and a 2013 to 2014 comparison of production.

Wastewater Production

The City has two wastewater treatment plants, the WRF is a 1-mgd treatment plant located on JV Road and the Water Pollution Control Plant (WPCP) located at Hero Road on Fort Stewart. The WRF produced more than 240 million gallons of reuse water for the City residential and commercial customers. The WPCP, in operation for 30 years, is undergoing an upgrade to bring the plant in compliance with newly implemented discharges standards. CH2M participated in the design review and have begun our evaluation to determine cost of operations.

There are 45 lift stations, approximately 165 miles of gravity sewer which includes an Inflow and Infiltration detection and mitigation program.

Exhibits 5-9 show Hinesville's water and wastewater activity.

Exhibit 4

Treated Drinking Water

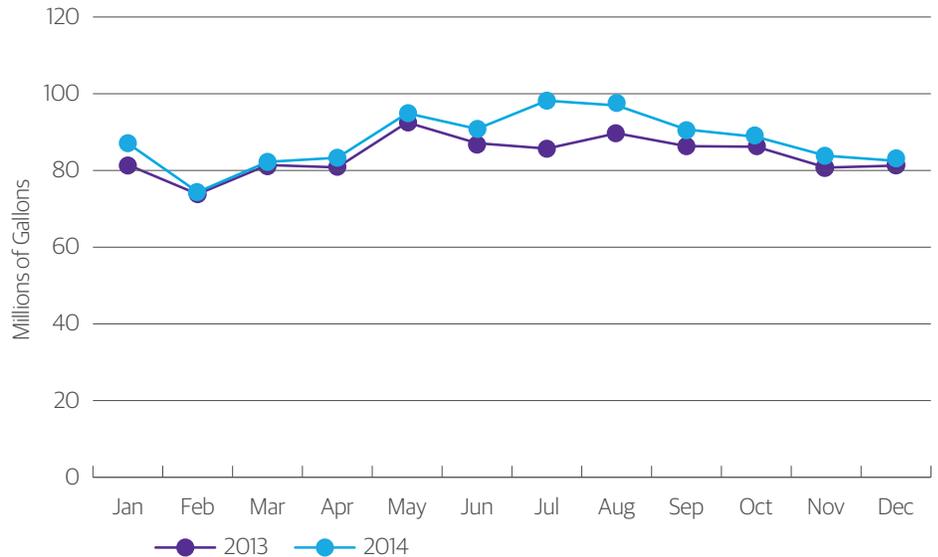
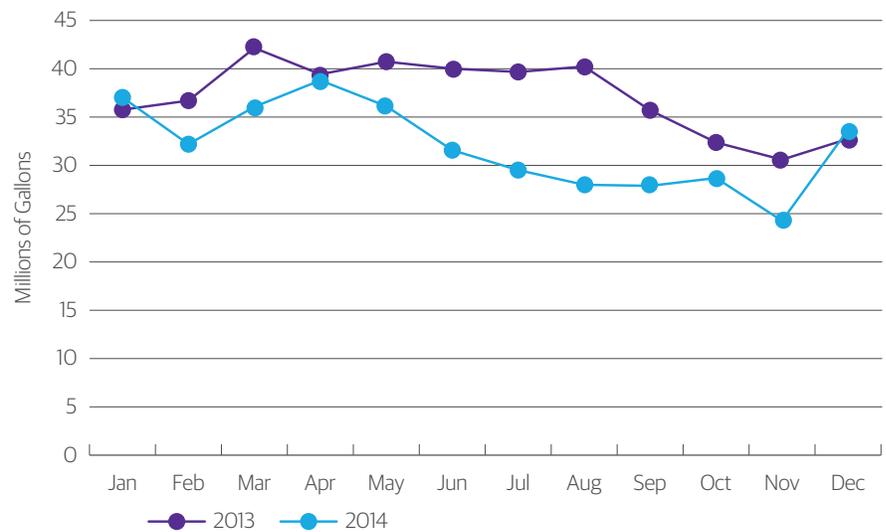


Exhibit 5

WRF Flow



2014 Utilities O&M Activity Summary

Exhibit 6

Wastewater Reuse Flow

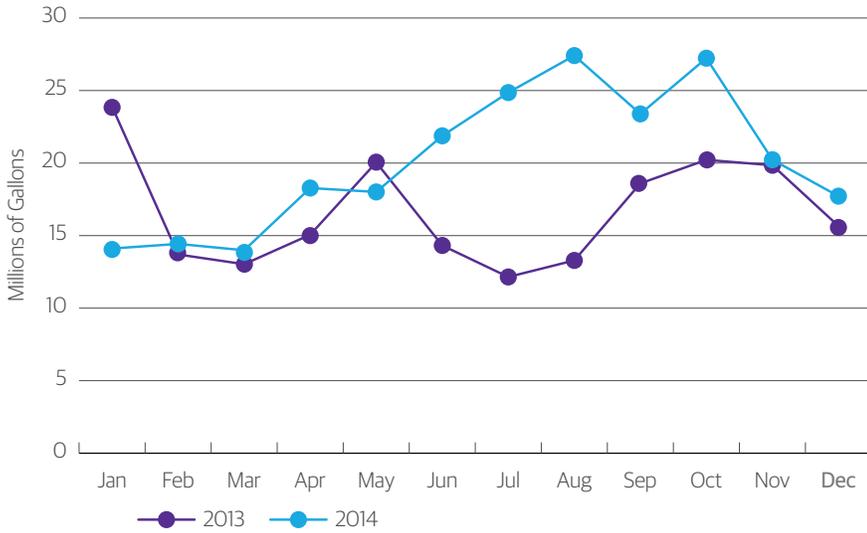
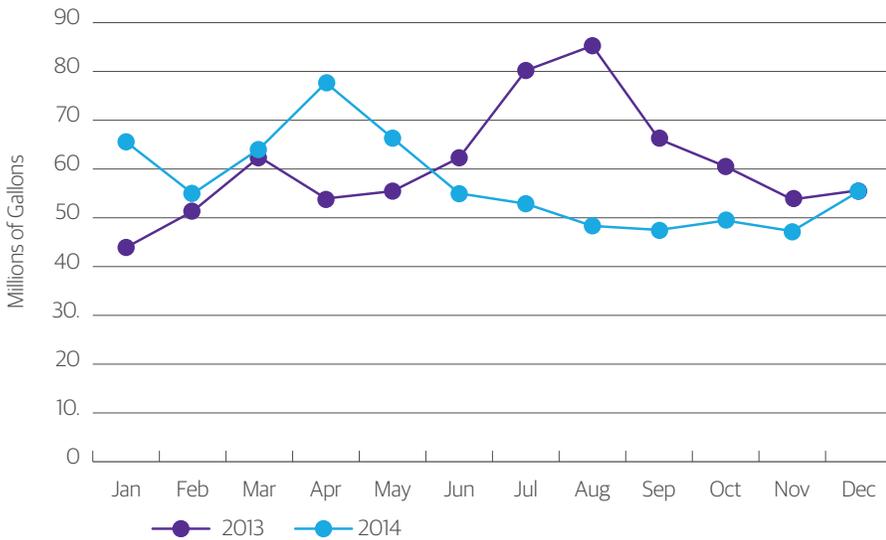


Exhibit 7

Fort Stewart Wastewater Flow



2014 Utilities O&M Activity Summary

Exhibit 8

Hinesville Flow 2013 to 2014 Comparison

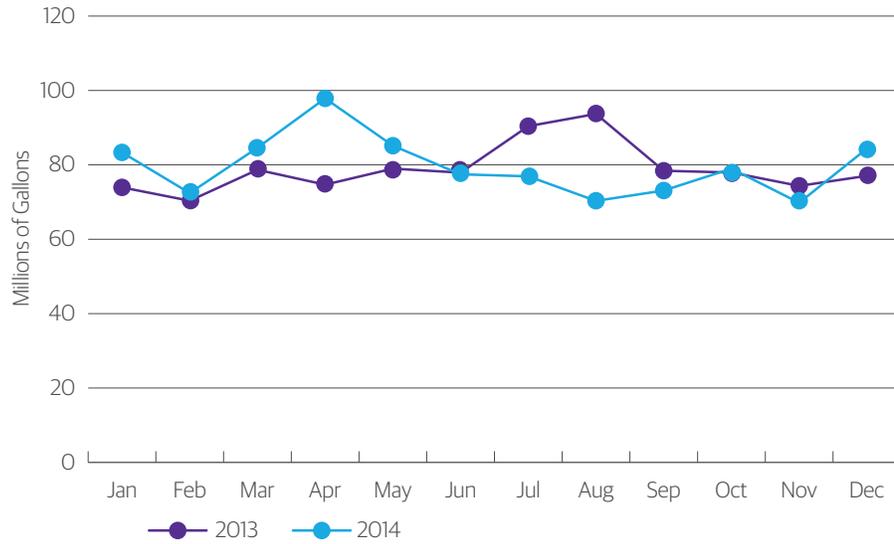
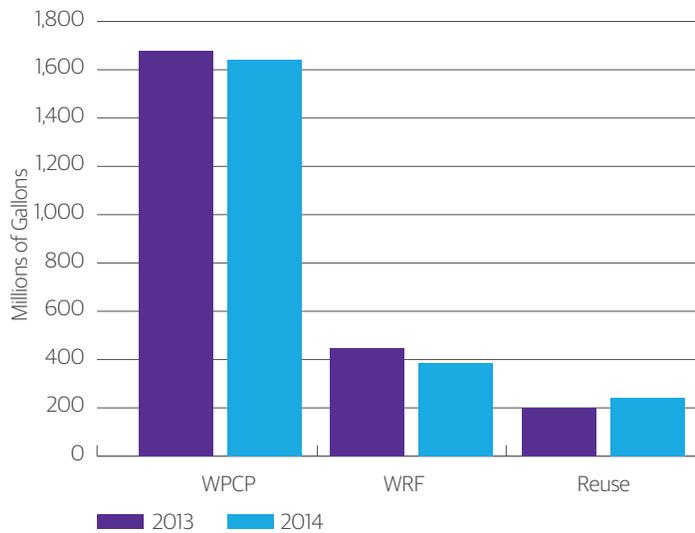


Exhibit 9

Total Annual Flow 2013 to 2014 Comparison



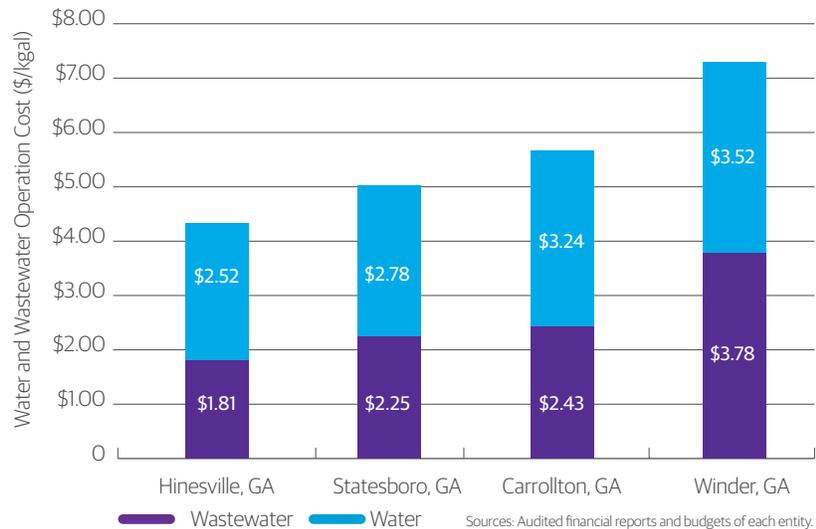
2014 Utilities O&M Activity Summary

Long-Term Value

In 2015, CH2M conducted a comparison study of Hinesville's water and wastewater costs per mgd to surrounding Georgia communities. The communities include Statesboro, Carrollton, and Winder. These communities are similar in number of customers, flow, and cost of living. Our findings are highlighted in Exhibit 10 and show how CH2M achieves lower cost per mgd than the similar communities.

Exhibit 10

Comparison of Hinesville Water and Wastewater Cost to Local Communities



Distribution and Collection Systems

Hinesville's potable water distribution system includes approximately 184 miles of distribution main lines, 1,252 fire hydrants, and 2,480 water valves. The non-potable reuse water system (purple pipe) includes an additional 153 valves and 27 miles of distribution line.

Maintenance and repair on the wastewater collections system includes 167 miles of gravity sewer, 27 miles of force main, and 3,593 manholes.

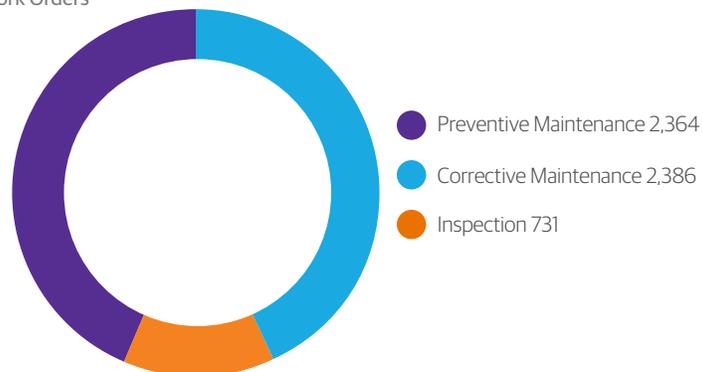
The Collections and Distribution department repairs water main breaks and service line leaks, force main and gravity line repairs, and line locates. They also make certain that fire hydrants and valves are properly maintained.

Sewer line maintenance includes the cleaning of the entire system on a 5-year cycle. Exhibit 10 displays our labor intensive, O&M activities for the City's wastewater collection and water distribution system.

In 2014, CH2M had almost 5,500 work orders. Exhibit 11 breaks down the type of work order by corrective and preventive maintenance and inspection.

Exhibit 11

2014 Work Orders

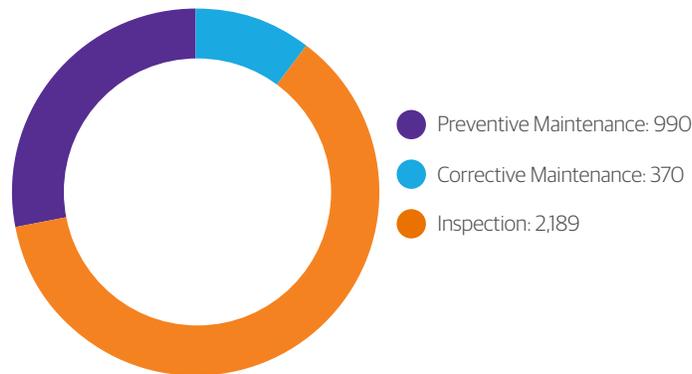


2014 Utilities O&M Activity Summary

Lift Stations

With 42 lift stations, the effort required to keep them in good shape, running efficiently, and ensuring proper operation is significant. In 2014, the lift station maintenance team, led by Ronald Taylor, completed over 3,500 work orders. As seen in Exhibit 12, almost 90 percent of the work completed is for proactive activities such as operational inspections and preventive maintenance. In addition, condition assessments are completed to understand the risk profile for each of the stations.

Exhibit 12
2014 Lift Station Work Orders



Meter Reading

The meter-reading department is led by Pete Gilliard. This team reads over 10,000 meters monthly. In addition, there are re-reads, shut-offs, turn-ons, meter repairs, and meter replacement. With the continuous upgrading of the system, this department has seen an increase in efficiency through the application of new technology. Due to these investments, CH2M has reduced labor expenses, even as the total number of meters has increased.

Army Civil Affairs Group Tours Hinesville Facility

In early December, 82nd United States Army Civil Affairs Battalion Captain Sean O'Hearn and two associates visited Hinesville's WWTP. Public Works Director Guan Ellis, along with project managers, and wastewater operators took the group on a tour of the facility and shared information on how the sewer collection system works.

The visitors are the Department of Defense's primary unit specifically trained and educated to shape foreign political-military environments by working through and with host nations, regional partners and indigenous populations. They are charged with providing civil affairs assets to support US interests in Africa.



Wastewater Laboratory

The City of Hinesville is required under its National Pollution Discharge Elimination (NPDES) permit to meet specific water quality criteria. This information must be reported to the Georgia Environmental Protection Department (EPD) monthly. CH2M performs the collection and analysis of samples that are required by the Georgia Department of Natural Resources Permit issued to Hinesville.

CH2M evaluates over 800 permit samples per month, and does not include process-related sampling required to efficiently and effectively operate the WWTPs and Hinesville's various processes. The Fort Stewart Laboratory is the largest CH2M Laboratory, by volume of analysis, in the state of Georgia. Testing samples requires that CH2M have licensed professional employees conduct these analysis. All testing and reporting follows specific procedures and guidelines to ensure accurate and timely reporting set by EPD and CH2M Compliance/Reporting Division.



Laboratory Analyst Dustin Maaney

The various permit parameters that require analysis are:

- Biochemical oxygen demand and carbonaceous biochemical oxygen demand
- Total suspended solids
- Total solids
- Total phosphorus
- Ortho-phosphate
- Nitrogen ammonia
- Fecal coliform
- Total residual chlorine and free residual chlorine
- pH
- Dissolved oxygen
- Chronic whole effluent toxicity
- Total recoverable mercury
- Total stream hardness (as CaCO₃)
- Total recoverable copper
- Alkalinity
- Volatile acids/alkalinity

Sheri Kantor, Wastewater Manager, and Don Patterson, Wastewater Supervisor, lead this team of licensed professionals in the operation of the laboratory, as well as operation and process control of the WWTPs.



Wastewater Manager Sheri Kantor takes samples at the sewer spill to Peacock Canal.

Sanitation

Household Garbage and Yard Waste Recycling

For many years the City of Hinesville has been collecting, through its partner CH2M, household garbage, yard waste/refuse, and other types of material (appliances, metal, etc.) for residents. This material is disposed of in several ways.

The typical household garbage is taken to the Liberty County Transfer Station, located in the Fleming area. This garbage is weighed, offloaded, and reloaded onto another vendor's trucks for transport to a landfill facility. The other types of materials also is taken to the Transfer Station where it is weighed and transported to another site. This is a massive operation with typically five garbage trucks on routes Monday through Friday. Over the past 5 years, the City has collected over 52,400 tons of household garbage (104,800,000 pounds), and 8,285 tons (16,570,000 pounds) of the other garbage material. This service, from pick-up to haul-off is covered in citizens' user-fee contributions.

Alternative Methods of Disposal

The City and CH2M have introduced an alternative method for disposing of yard waste. The yard waste is picked up by CH2M employees, using knuckle boom loading equipment, and transported to a storage facility located on JV Road on the western side of the City. In previous years, this waste was stockpiled, ground into smaller pieces, and somewhat mixed with soil. This mulch then was tused to level the surrounding land, or given to citizens to use on their properties. This program ended 2 years ago as the vendor for the grinding activity was no longer able to perform. Efforts to obtain a new vendor have not been successful, until now. While the procedure came to a stop, the need for this material to be picked up did not end. Over the course of more than 5 years, the material picked up totaled over 7,350 loads, or 183,800 cubic yards. Now, enter a new thought process that expands the original program, RECYCLE/REUSE!

New Plan: Recycle and Reuse

Beginning in the first quarter of 2014, the City modified its program to include recycling/reuse to return the yard waste that is gathered from local homes back into a usable material. To accomplish this, a new vendor has been contracted to provide grinding services for this material. The post-grinding material can be used for composting for reuse locally for soil; sale to a prospective potting soil vendor; or for use as fuel for the many wood-chip-fired energy plants in our area. The most immediate use will make some of this material available to the citizens at the Public Works facility at 613 EG Miles Parkway and at the grinding site on JV Road.

In a brief explanation of this process, the material arrives onsite, and is offloaded by the City and CH2M. It is piled, and, as of now the grinding vendor moves the material through the grinder. It is then piled again based on content of dirt/soil. The material with the most soil content will be used for mulch/potting soil use, while the clean wood product will be taken away by a vendor to a wood-burning furnace facility. The material with the largest soil content will be kept onsite as long as necessary to dispose of it. During this time the material will be rolled and re-piled to maintain a steady schedule of composting.

CH2M and the City are looking forward to having a clean and green use of this material and will endeavor to improve this operation in the future.



The Public Works department provides mulch to all the citizens at no charge.

Health and Safety

Our public-works employees are some of the most visible people in the community, and when we work in a safe manner, with the proper equipment, it shows the community that the City cares about its workers. When we properly barricade hazards, cone off roads, and flag traffic, it shows that we are not only concerned about our safety but the safety of the citizens.

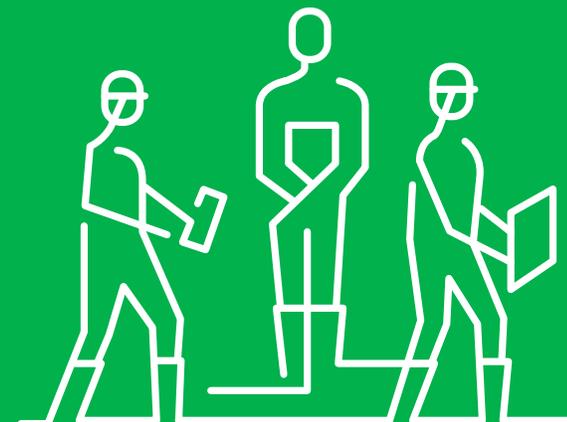
Having a good safety record means Worker's Compensation costs are reduced. These costs are picked up by CH2M, which results in lower operating costs for the City. Exhibit 13 highlights Hinesville's 2014 safety information.

How do we provide a good safety program? The answer is training. Our typical training program is as follows:

- Daily safety briefings (tailgate meetings)
- Job safety analysis for every routine tasks
- Safety behavior observations
- Pre-task plan
- Monthly safety team meetings
- Monthly conference calls with the Regional Health and Safety Manager
- Post-accident corrective action reviews (this may include discipline)
- Near-miss documentation
- Lesson learned documentation
- Occupational Safety and Health Administration required training
- CH2M-required training
- 450 average yearly training hours

Exhibit 13
Hinesville 2014 Safety Information

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Safety Training Hours	439	373	382	374	607	434	540	453	387	490	298	387	5,164
Accidents	0	0	2	1	1	1	0	1	0	1	0	0	7
Motor Vehicle Accidents	0	0	0	2	0	0	0	0	0	0	0	1	3
Safety Behavior Observations and Safety Inspections	0	2	4	16	45	39	36	64	26	29	14	51	326



Sustainability

CH2M employees have made it a priority to sustain the well-being of the communities we serve. Our Sustainability Plan provides social, economic, and environmental benefits to the City and its citizens. Over the past 30 years, our team has been working in and around Hinesville providing services that directly impact these areas.

Over the past 3 years, CH2M has been a part of identifying and tracking specific performance criteria that centers around sustainability.

Economic Impact

Our economic impact for sustainability in Hinesville has created savings in fuel reductions and carbon emissions. The dry trash fleet modification and the reduction in the mosquito spraying operation has created reductions in carbon emissions, just through the total reduction in road miles required from the previous operations. It is estimated that fuel reduction within the dry trash operation is approximately \$1,200 per month. As we continue into the year, we will evaluate some specific unit costs related to the total waste being processed.

Community Impact

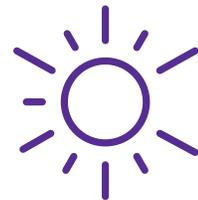
Our sustainability program is robust and wide-ranging, functioning as a model for other companies across the country. In 2014, employees participated in multiple community events and organizations, addressing the unique cultural and social needs of the community. Supervisors Rodney Edwards and Mike Davis are members of the Keep Liberty Beautiful Advisory Board. CH2M is active year round with this great organization, helping to meet community environmental and beautification goals and specifically working to make Hinesville "Home for a day or a lifetime." The project team participates with volunteers in the following events:

Great American Clean-up

This national event is lead here locally by Keep Liberty Beautiful. CH2M participates annually to improve the community by picking up litter in parks, waterways, and roadways; planting trees and flowers to beautify public spaces; painting over graffiti; repairing local buildings; and holding recycling drives and environmental education events.

Rivers Alive

As an industry leader in protection and treatment of water resources, CH2M has a deep interest in the protection of our waterways and participates in this annual event. Rivers Alive targets clean-ups across all waterways in the State of Georgia, including streams, rivers, lakes, wetlands, and the ocean. Rivers Alive is a statewide waterway cleanup effort sponsored by the Georgia Department of Natural Resources and Keep Georgia Beautiful Foundation, in collaboration with the international efforts of The Ocean Conservancy. Through our daily operations, CH2M has a significant impact on keeping our waterways clean and healthy through our efforts within the Stormwater Pollution Prevention Program.



Sustainability

Environmental Impact

Each CH2M department in Hinesville participates in our recycling program to reduce trash in the landfill. We currently recycle paper, cardboard, aluminum, scrap metal, and batteries. In 2014, we collected and recycled 120,000 pounds of mixed recyclables.

In 2015, we plan to enhance the recycle program by making measurements of the white paper usage and identifying reduction targets once an average baseline is established. Employees will continue to monitor the 2014 goals, recycle volumes, and fuel usage. In 2015 the Public Works Center will monitor power usage for evaluation and recommendation of energy usage reductions.

CH2M also continues to track the beneficial reuse of the treated water being produced at the WRF plant located at JV Road. Over a 12-month period, CH2M directed over 200 million gallons to the reuse system, a significant impact on the local demand for pumping additional ground water.

The 2013-2014 fiscal budget provided for the purchase of two new combination boom/container units, allowing the dry-trash equipment usage to decrease from six trucks and three trailers to just three trucks. These units were purchased in the last quarter of 2014.

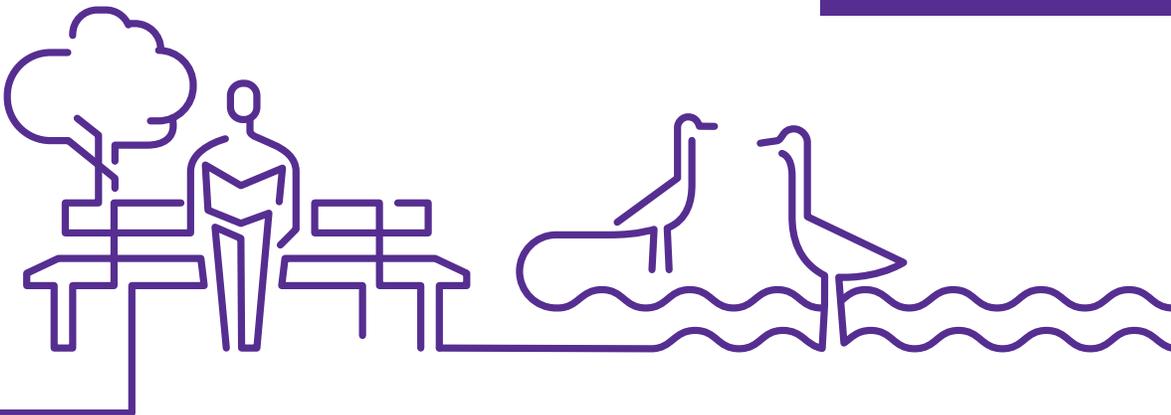
CH2M is in its second year of the enhanced mosquito control and abatement program. This program focuses on inhibiting or eliminating breeding habitats. This is a year round program that evaluates and treats potential breeding sites, many not accessible to humans. The spraying operation is still a part of the program, but due to its very low kill rate, this approach is only implemented in spot treatments following evaluation. Community education has been the key to the reduction of mosquito habitats in neighborhoods and around individual dwellings that experience outbreaks.

Additional Programs

As one of the first in our industry to publish a sustainability report in 2005, CH2M continues a tradition of excellence and transparency in reporting on internal operations related to sustainability. Verdantix, an independent analyst firm focused on sustainable business issues, has named CH2M a U.S. leader in sustainability consulting (2013), environmental services (2012), sustainable engineering (2010), and climate change consulting (2009).

This culture of delivering and growing a business that focuses on sustainable solutions is an integral part of our local operations as well. CH2M has been working and training on sustainable practices throughout the public works operation, covering everything from recommendations for capital improvements to reduction in the use of building energy and paper waste. Each focused on positive impacts on triple bottom line results: social, environmental, and economic.

Each year, the Hinesville team develops a sustainability plan that looks at progress from previous years and new goals for the future. Each quarter results are reviewed and reported. The 2015 goals continue to focus on fuel usage, electrical power reduction, and waste reduction and recycling.



Community Involvement

Community involvement is an integral part of CH2M business philosophy. With support and encouragement from the company, CH2M employees seek opportunities to contribute to the communities where we live and work, and we are committed to our unique quality of life.

Education

CH2M employees engaged with the following organizations and/or activities:

- **Eleven Black Men of Liberty County Scholarship Program**
A volunteer organization focused on education, enrichment, and empowerment for our young men.
- **Martin Luther King Golf Tournament and Scholarship Fundraiser**
- **Reading Across America**
National Education Association's Read Across America is an annual reading motivation and awareness program that calls for every child in every community to celebrate reading on March 2, the birthday of children's author Dr. Seuss.
- **Walk To Dorchester**
Educating the public about the significance of the Dorchester Academy in educating the black children of Liberty County prior to the availability of public education.

Environment and Beautification

For a number of years, employees have volunteered their time in working primarily with Keep Liberty Beautiful on their various activities to reduce the impacts of environmental pollution and clean-up negatively impacted areas.

Health and Wellness

Cancer has touched everyone through family, friends, and co-workers, and Relay for Life has been a cornerstone of our community-engagement activities. This fundraiser has grown significantly over the past few years, due to the leadership of a few hard-working dedicated employees, supported by almost all of our CH2M employees.

Boards and Associations

Our employees live and play in Hinesville, which is why several of our employees are active in organizations that support activities that help make Hinesville "Home for a day or a lifetime."

- Liberty County Chamber of Commerce—Board Members
- Keep Liberty Beautiful—Advisory Board



Community Involvement-Street Renaming and Dedication

Partnered for the Future

Hinesville has a long history as a community that supports the needs of the U.S. Army. In 1940, a huge tract of land (280,000 acres) adjacent to Hinesville was selected to be an anti-aircraft training site for the U.S. military. This purchase continues to make Fort Stewart the largest military installation in the eastern U.S.

Since 1970, Hinesville has grown from a town of around 4,000 to a city of 33,437, according to the 2010 U.S. Census. The city's growth is fueled by Fort Stewart, and the fates of the two communities are inextricably tied, as the soldiers rely on the City's service.

As history demonstrates, Hinesville has played a significant role in the defense of our country. It is hard to count the number of Garrison and Division commanders who have praised Hinesville for its welcoming and gracious southern hospitality. It is clear from the number of soldiers that retire in Hinesville that this community is the right choice to make as "home for a day or a lifetime." CH2M is proud to be a part of this history for the past 31 years.

With the downsizing of the U.S. military, nothing is more important to the City's future economy than finding ways to help keep Fort Stewart as an installation of choice for preparing our heroes for their many calls of duty around the world.

CH2M has been the public-works and utilities provider of choice through good times and bad. CH2M is uniquely qualified to support the City in the future in many areas that largely have been untapped. There is a world of talent available to the citizens of Hinesville.

Hinesville has ambitious plans for the future. CH2M stands ready to continue working with the City in supporting our troops and demonstrating to the U.S. Department of Defense that Hinesville, and its partner in utilities and public works, can provide all of the services needed to support Fort Stewart in its mission to include various installation operations, if the City moves forward with such actions.

CH2M has worked with the U.S. Military in 35 states and over 24 countries providing operations and engineering support for the Army, Air Force, and Navy. No other contractor has the depth of experience of CH2M to provide services that will support the City and Fort Stewart as it moves through its reorganization.

CH2M also has experience locally supporting military installations. We have worked for the U.S. Army in Georgia at Fort Gordon, Benning, and McPherson, as well as Fort Blanding in Florida, and Fort Jackson in South Carolina.

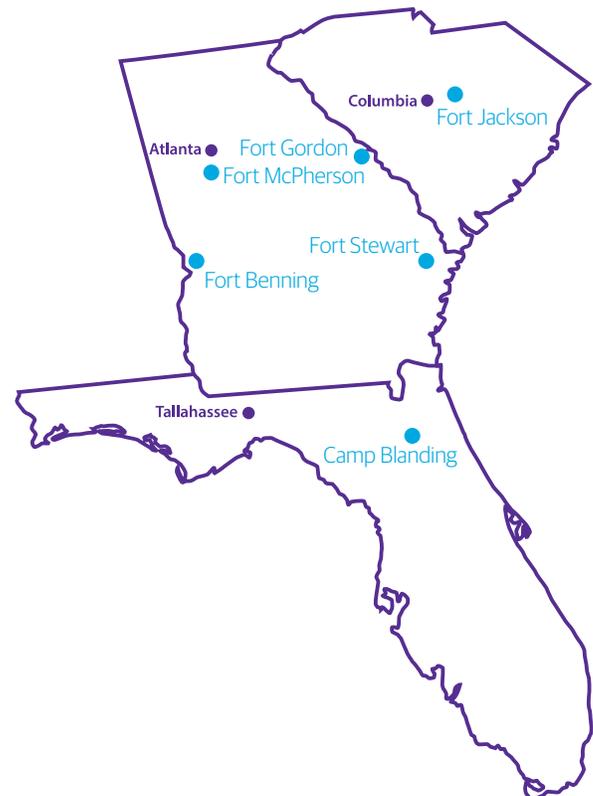
Our experience both locally, nationally, and internationally can provide a distinctive advantage in demonstrating to our decision makers in Washington D.C. that Fort Stewart and Hinesville play an important role in defending our country anywhere in the world.



Established during World War II, Fort Stewart remains active and now houses around 16,000 troops of the Third Infantry Division.



Soldiers stand in formation outside Fort Stewart's headquarters.



About CH2M

CH2M is a global engineering and project delivery company partnering with public and private clients to tackle the world's most complex infrastructure and natural resource challenges. The firm's work is concentrated in the water, transportation, energy, environment and industrial markets. CH2M has gross revenues of \$6.1 billion, has 25,000 employees and is a specialist in program, construction, and operations management and design. For more information, visit www.ch2m.com.

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