

CLARIFIER

A PUBLICATION OF GULF COAST WASTE DISPOSAL AUTHORITY



FALL/WINTER 2015

Recycled Oilfield Water Solutions

**GCA Receives Grant for Mont Belvieu-Area
Wastewater Treatment & Water Reuse Study**

**Congressmen, Texas Water Development
Board Member Visit GCA Facilities**

**SCRIPT Awards Honor GCA Employee
Commitment**



RECYCLED OILFIELD A WATER RESOURCE

Oil and gas have long been an economic supercharger for Texas, and the industry is now positioned to provide major environmental benefits as well as to help meet the state's ever increasing demand for clean water resources. According to Argonne National Laboratory data, in 2007, Texas oil and gas fields produced water equivalent to about 22 percent of all water used by state municipalities that year.



FIELD WATER: CE SOLUTION



When wells come on line, they flow “produced water,” naturally occurring saltwater often found in oil bearing formations in addition to the oil and gas. Currently, most such produced water is injected into underground disposal wells or back into the formation from which it came. Treatment for recycling would involve purification and allow for reuse.

Fracking operations employ large volumes of water under pressure to crack formations so that hydrocarbons trapped in tight rock can be produced. The water used in such operations often comes from lakes and streams on the Earth’s surface, but the industry is moving toward the use of recycled water to free up potable supplies for human consumption.

The Gulf Coast Waste Disposal Authority (GCA) Odessa South Facility is located in the Permian Basin, one of the most prolific oil production areas in the world. GCA is working with the local economic development groups and industry to explore viable options for industrial water reuse. The current work is being done under a grant by the U.S. Bureau of Reclamation with additional funding coming from the Odessa Development Corporation. Based on findings to date, reuse in the oil and gas exploration industry seems to hold the most promise. GCA is working with local exploration and production companies to explore economical reuse options to reduce the amount of water requiring disposal.

GCA is authorized to operate anywhere in Texas with the concurrence of local authorities. As the need to develop nontraditional sources of water increases, the Authority is prepared to expand its operations to other hydrocarbon plays in the state.







GCA AWARDED GRANT TO FUND REGIONAL INDUSTRIAL WASTEWATER TREATMENT AND WATER REUSE STUDY FOR MONT BELVIEU AREA

GCA has been awarded a \$150,000 planning grant from the Texas Water Development Board (TWDB) to fund a study to evaluate the feasibility for GCA to site a regional industrial wastewater treatment and water reuse facility in the Mont Belvieu, Texas, area.

The \$75,000 in matching funds will be provided by GCA, the City of Mont Belvieu and a consortium of petrochemical companies: ExxonMobil, Targa Downstream, Enterprise Products and Oneok Hydrocarbons. The grant application was filed in response to a November 2014 request for proposals from the TWDB to alleviate anticipated water supply shortfalls due to recent drought conditions and economic and industrial growth in the area driven by energy development.

GCA has been providing regional

wastewater treatment solutions to the state of Texas for more than 45 years and has extensive experience in the co-mingling of industrial and municipal wastewater streams for treatment. Businesses in the industrial consortium are experiencing tremendous growth in the area and will require additional sources of industrial water for use in their processes. If this project is



determined to be feasible, the treated effluent could be reused by industry as a reliable source of water which would free up other sources that could be utilized as potable water.

The water reuse component of the feasibility study will evaluate and define the practicality and benefits of treated wastewater reuse as a viable water supply alternative, both locally and regionally.

GCA's mission of protecting the waters of the state of Texas is tailored to advance this type of project.

TEXAS RAILROAD COMMISSION MAKES OILFIELD WASTEWATER RECYCLING A PRIORITY

T*he oil and gas industry is an economic engine that has grown and sustained the economy of Texas for over a century. Drilling and production operations consume as well as produce large volumes of water, a critical resource. State regulatory authorities and operators alike recognize the need for wastewater treatment and recycling in the oil patch, and GCA can play a major role. The state's commitment was underscored by former Texas Railroad Commission Chairman Christi Craddick at the Texas Oil & Gas Water Conservation and Recycling Symposium she hosted in May 2014. Here, Chairman Craddick discusses some of the rule changes enacted to clear the way for recycling and reuse of oilfield wastewater:*

"While Texas is leading the nation in many aspects of energy production, the oil and gas industry's focus on fresh water conservation has come to the forefront of production technology in only recent years. Due to the drought Texas has experienced, scrutiny of water usage and the importance of water conservation continue to grow.

The Railroad Commission of Texas (Commission) amended its commercial and non-commercial recycling rules (16 TAC § 3.8, relating to Water Protection, and 16 TAC Chapter 4, Subchapter B, relating to Commercial Recycling) in March of 2013. The amended rules went into effect the following month on April 15, 2013. With this amended rule, the Commission recognized its ability to remove roadblocks that have historically hindered the widespread acceptance of recycling within the industry. Major amendments adopted to the Commission's recycling rules

were put into place to encourage further conservation, reuse and recycling of solids and liquids produced by oil and gas operators that would otherwise be considered waste.

In May of 2014, I hosted the Texas Oil and Gas Water Conservation and Recycling Symposium to highlight industry technologies in this area that are changing the way energy is developed. Industry advancements in recycling in the past year have proven the Commission's recycling rule amendments to be a key factor in efforts toward the recycling and reuse of drilling flowback and produced solids and liquids within the oilfield. We are excited that industry has used this rule as an opportunity to accelerate the deployment of recycling technologies in Texas, and look forward to continued growth in industry conservation in years to come."





Left to right: GCA
Chairman Frank
Jones, Vice
Chairman Rita
Standridge, Rep.
Babin's District
Director Kelly
Waterman, GCA
Board Member Mark
Schultz, GCA
General Manager
Ricky Clifton, U.S.
Rep. Brian Babin
and Bayport
Facility Manager
Scott Harris.





Congressman Babin Tours GCA Bayport Facility

U.S. Rep. Brian Babin of Texas's 36th District visited GCA's Bayport Facility on June 22 with his District Director Kelly Waterman. The congressman wanted to gain a greater appreciation for GCA's operations and how regional wastewater solutions promote both economic development and a cleaner environment.

Babin was sworn into the U.S. Congress in January 2015. The former dentist and Air Force veteran's district includes the counties of Chambers, Liberty, Hardin, Polk, Tyler, Jasper, Newton, Orange, and portions of southeastern Harris County. He serves on the House Transportation and Infrastructure Committee and the House Science, Space, and Technology Committee – providing him a critical platform to serve the economic needs of the district, which includes NASA's Johnson Space Center, four deepwater ports, and numerous petrochemical facilities. He chairs the House Space Committee.

Joining Babin for the tour from GCA were Chairman Frank Jones, Vice Chairman Rita Standridge, Board Member and Legislative Committee Chairman Mark Schultz, Kelly Waterman - District Director for Brian Babin, General Manager Ricky Clifton and Bayport Facility Manager Scott Harris. Webb Draughton, Plant Manager and Vice President of Operations for JX Nippon Chemical Texas Inc., also participated in the visit. JX Nippon is a Bayport Facility customer.

"We were delighted that Congressman Babin took the time to visit our Bayport Facility—especially since this is his first year in U.S. House of Representatives," said Jones. "We're very proud of what we do at GCA and it's important that our elected representatives understand the scope of our operations."

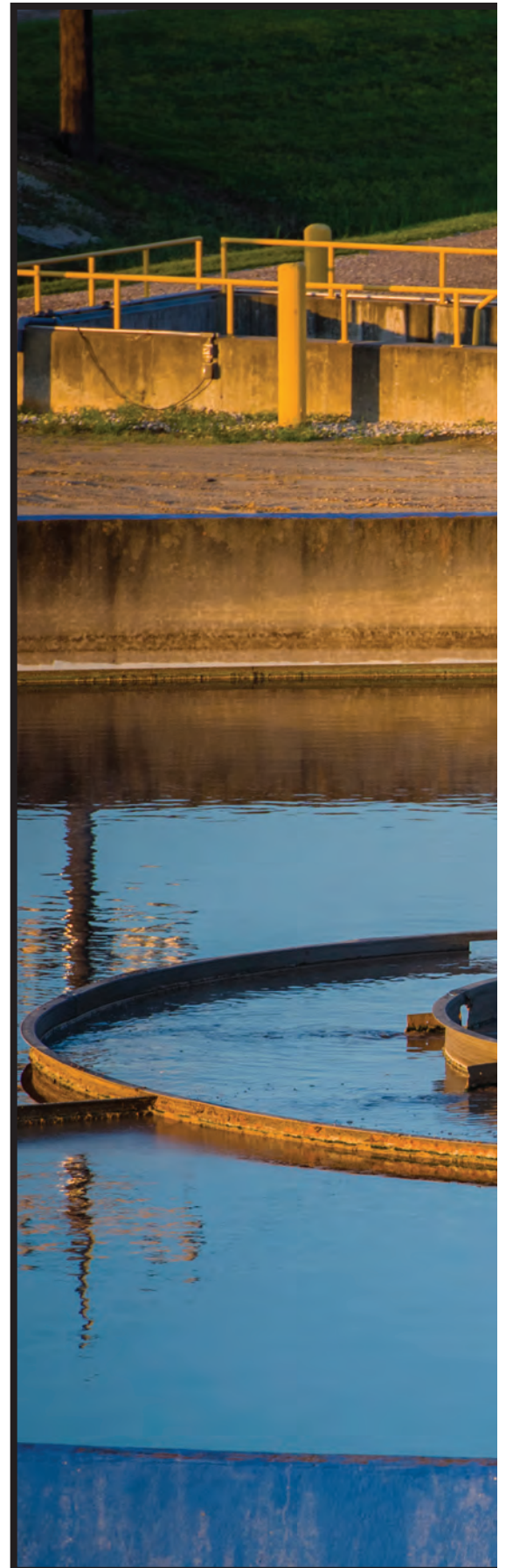
U.S. Rep. Randy Weber Tours Bayport Facility

GCA's Bayport Facility was honored to host a visit by U.S. Rep. Randy Weber on August 24. Weber was interested in learning more about the services that GCA provides both to industry and municipalities. Weber represents the 14th Congressional District of Texas, which runs generally along the Texas Gulf Coast from Lake Jackson to Beaumont-Port Arthur. He succeeded Rep. Ron Paul in 2013. The owner of a heating and air conditioning company previously served in the Texas House of Representatives representing the 29th District. Weber's public service also includes six years as a city councilman in Pearland and stints as Brazos County Grand Jury Commissioner, Brazoria County Redistricting Committee Member and the Brazoria County Cities Association. In the U.S. House of Representatives, Weber serves on the Committee on Foreign

Affairs and the Committee on Science, Space and Technology.

Participating in the tour representing GCA were Board Member Mark Schultz, General Manager Ricky Clifton, Operations Manager Lori Traweek and Bayport Facility Manager Scott Harris. Also joining the tour group was Jim Griffin, Managing Director of Dianal America, Inc., a longtime Bayport customer.

"GCA conducts site tours for many different groups, from school children, to local businesses to political leaders, because we believe it is vital that our leaders and fellow citizens understand the job we are doing to keep Texas waters clean and safe," said Clifton. "These tours also provide an appreciation for the balance that can be achieved between industrial growth and environmental protection when government and business work together."





Inset photo, left to right: GCA Board Member Mark Schultz, Bayport Facility Manager Scott Harris, U.S. Rep. Randy Weber, GCA Operations Manager Lori Traweck and General Manager Ricky Clifton.





Texas Water Development Board Member Visits Bayport Facility

Kathleen Jackson, one of the three members of the Texas Water Development Board (TWDB), visited GCA's Bayport Facility on September 23. The well-known water resource expert understands the importance of regional wastewater treatment and wanted an update on GCA's capabilities. She toured the facility with GCA Operations Manager Lori Traweek and Bayport Facility Manager Scott Harris.

The TWDB was created in 1957. Its responsibilities include:

- Providing loans to local governments for water supply projects; water quality projects including wastewater treatment, municipal solid waste management and nonpoint source pollution control; flood control projects; agricultural water conservation projects; and groundwater district creation expenses.
- Providing grants and loans for the water and wastewater needs of the state's economically distressed areas.
- Providing agricultural water conservation funding and water-related research and planning grants.
- Supporting regions in developing regional water plans that will be incorporated into a statewide water plan for the orderly development, management and conservation of the state's water resources by studying Texas's surface and groundwater resources.
- Collecting data and conducting studies concerning the fresh-water needs of the state's bays and estuaries.

- Administering the Texas Water Bank, which facilitates the transfer, sale or lease of water and water rights throughout the state, and administers the Texas Water Trust, where water rights are held for environmental flow maintenance purposes.
- Maintaining a centralized data bank of information on the state's natural resources called the Texas Natural Resources Information System and managing the Strategic Mapping Program, a Texas-based, public- and private-sector cost-sharing program to develop consistent, large-scale computerized base maps describing basic geographic features of Texas.

Jackson has a diverse background representing agricultural, environmental, industrial, and whole-sale-supply interests, which includes developing and implementing water management strategies for

southeast Texas. As a registered professional engineer, Jackson served as public affairs manager for one of the world's largest petroleum and petrochemical producers.

Additionally, she was involved in production agriculture, served as a past member of the Lower Neches Valley Authority Board of Directors, the Texas Water Conservation Association, and participated on the Sabine and Neches Rivers Bay and Estuary Environmental Flows Assessment Program Stakeholders Committee.

"Kathleen Jackson is one of the top water resource experts in Texas. It was an honor and a pleasure for us to host a person of such commitment and stature at one of our facilities," said Lori Traweek, GCA manager of operations.

Left to right:
**GCA Operations
 Manager Lori
 Traweek, Texas
 Water Development
 Board Member
 Kathleen Jackson
 and Bayport
 Facility Manager
 Scott Harris.**







U.S. Congressman Conaway Visits GCA'S Odessa South Facility

U.S. Rep. Mike Conaway and two aides toured the Authority's Odessa South Facility on Sept. 22, accompanied by GCA General Manager Ricky Clifton and Manager of Facility Services Gordon Pederson. Clifton and Pederson explained how the industrial wastewater treatment process works as the congressman toured the facility, ending up at Odessa South's new Water Reuse Facility which will provide treated effluent to oil and gas





Inset photo, left to right: GCA General Manager Ricky Clifton, U.S. Rep. Mike Conaway and GCA Manager of Facility Services Gordon Pederson.

drilling operations in West Texas. The development of reuse facilities such as GCA's helps to conserve other sources of water for potable and agricultural needs.

Conaway since 2005 has represented Texas's 11th Congressional District, which encompasses Midland, Odessa, San Angelo, Brownwood and Brady. He chairs the House Committee on Agriculture and serves on the Committee

on Armed Services and the Permanent Select Committee on Intelligence. He is a member of the CPA Caucus, the International Conservation Caucus, the Reliable Energy Caucus and the Sportsmen's Caucus. A U.S. Army veteran, Conaway is a Certified Public Accountant and served as Chief Financial Officer of a bank and of Arbusto Energy, Inc., an oil and gas company run by President George W. Bush

before he became Governor of Texas. Conaway then served as a volunteer on the state's Board of Public Accountancy for seven years, the last five as chairman. "Rep. Conaway's visit underscores the importance of wastewater treatment and reuse throughout the state, but especially in West Texas where water resources are critical and oil and gas operations so prevalent," said Pederson.

WASHBURN TUNNEL FACILITY CONSTRUCTION CONTINUES IN 2015





The Washburn Tunnel Facility (WT), GCA's second largest, has undergone a tank rehabilitation program to extend the service life of its caustic tanks and enhance overall reliability.

The facility uses sulfuric acid and caustic in the wastewater treatment process. For several years, WT has utilized spent caustic instead of virgin caustic for pH control. This practice provides a cost savings and an environmental benefit of using a material that otherwise would be considered waste.

WT is equipped with four belt presses used for dewatering biological solids before they are sent to landfill. In October 2015, the facility completed a multiyear effort to rehabilitate each of the presses. To maintain continuity of service, the presses were removed one at a time and sent to the manufacturer for refurbishment. Upon completion of the rehabilitation, GCA reinstalled each press and updated their computer control systems.

After completion of detailed design work on WT's new chemical disinfection system, groundbreaking occurred in the fall of 2014 and construction continues. The new system utilizes peracetic acid, an emerging wastewater disinfection technology in the United States that has been used widely in the food industry. After an extensive technology evaluation process including pilot testing in 2013,





GCA selected peracetic acid technology because it eliminates undesirable disinfection by-products and requires a smaller disinfection basin—a very important consideration at the facility, where space is very limited.

Work on the new disinfection system has not been without its challenges: coordinating construction activity with ongoing GCA operations; concrete shortages; and technically difficult construction. But the GCA team pulled together to successfully manage the situation through a combination of good communication, flexibility and innovation. For example, the construction boom in the greater Houston area posed logistical challenges that required creative scheduling, such as arranging nighttime concrete pours. Safety was a major consideration as construction activity occurred immediately

adjacent to areas operations personnel enter on a daily basis. And at times, construction equipment has to be positioned in locations that required cessation of sludge hauling during daytime hours. The new disinfection system is expected to be completed by February 2016.

Acquired by GCA in 1973, WT provides wastewater treatment service to refineries, chemical plants and terminals located along the Houston Ship Channel as well as to the City of Pasadena. Facility clients comprise 26 percent of the refining capacity of Harris County and provide over 26 billion barrels of bulk liquid storage capacity for shipment through the Port of Houston. The facility receives most of its wastewater by pipeline, but some is transported by barge or is trucked to GCA's nearby Vince Bayou Receiving Station.

2015 BAYPORT FACILITY IMPROVEMENTS INCREASE RELIABILITY, ADD CAPACITY

GCA's Bayport Regional Industrial Wastewater Treatment Facility continues to work on projects that will provide additional reliability to existing users while preparing the facility for continued growth. The largest Authority facility, Bayport serves more than 65 petrochemical companies and two municipalities.







A new fourth main clarifier is under construction and nearing completion at the Bayport Facility.

A large project currently under construction is the addition of a fourth main clarifier. The Bayport Facility cannot currently perform an extended turnaround on its three existing clarifiers due to the sustained volume increase from the continued growth of facility users. This fourth main clarifier not only will improve reliability of service but also will help meet future customer growth. The new clarifier is undergoing construction on a portion of one of the facility's existing polishing ponds.

A second project under way at Bayport is the replacement and upgrading of in-plant piping. Most of this piping has been in service

for more than 20 years and is rapidly approaching the end of its useful life. The line from the first-step covered treatment tanks to the second-step treatment tanks is being replaced with larger diameter pipe to accommodate growth needs. The pipe supports are under construction; once completed GCA will replace the pipe at yearend. Similar to the main lift station project described in the last edition of *Clarifier*, this project also will require a very intricate transition to the new pipeline so that user service will not be interrupted. The transition team is meeting to develop a plan for mitigating any impact on customers. The second part of the in-plant piping project

involves replacing and upgrading the effluent line from second-step treatment basins to the facility's main clarifiers. Most of the main pipe supports have been installed and new pipe will be arriving soon. A third component of the project, scheduled for next year,



Bayport's old belt presses are being replaced.



will address the facility's aging return activated-sludge pumps and piping associated with that system.

The final part of this project cycle will address two belt presses that have reached the end of their life cycle. The belt presses are used to squeeze moisture out of solids generated by the treatment process for disposal. The presses have been in service for more than 17 years and Bayport's maintenance group has done a great job maintaining the equipment, but the presses now need to be replaced. One of the presses is expected to be replaced by yearend; the other will be addressed in the first quarter of 2016.

The Bayport Industrial Complex continues to see strong growth headed into 2016. The Bayport Facility continues to receive applications to increase discharge and other inquiries from existing and potential users on a weekly basis. We are excited about the continued growth in the complex and believe that GCA's reputation for reliable regionalized industrial wastewater treatment services has helped entice many companies to the complex. The Authority will be ready to continue to meet these challenges through detailed planning and ongoing efforts to stay ahead of market conditions.



Larger diameter piping will replace existing pipe.



New piping supports under construction.



GCA's SCRIPT Awards Recognize Employee Commitment to Core Values

Successful organizations have at least two things in common:

- A clearly stated, unambiguous Mission that defines what the organization does; and
- Core Values, which define how that organization conducts its business.



At the Gulf Coast Waste Disposal Authority (GCA), our mission is simple and direct: Protecting the waters of the state of Texas through environmentally sound and economically feasible regional waste management practices. Our Core Values guide every aspect of operations, and are easily remembered by the acronym SCRIPT:

- *Stewardship* of the environment and of the health and safety of employees, customers and neighbors;
- *Communication*—openly, honestly, frequently with all stakeholders;
- *Reliability* of our operations and services that are safe, compliant and cost effective;
- *Integrity* of our staff who operate in a simple, clear, transparent and honest manner;
- *Planning* to ensure continuity of service, innovation, sustainability and financial responsibility; and
- *Teamwork* to foster trust, commitment, enthusiasm and innovation.



Our Core Values are principles that define our culture and our identity as an organization. They represent who we are and what we stand for and all GCA employees are expected to know and embrace them in their work every day.



In September 2014 GCA launched an initiative to promote top-of-mind awareness of our Core Values by recognizing those managers and employees who exemplify these values in their attitude and performance. Awards will be presented no more than quarterly at each facility and at GCA's Central Office. All active employees are eligible. Nominations may be submitted by any employee or member of management at a particular facility, with final selections made by senior management. Award recipients at each facility during each award period will receive a \$100 gift card and winners are ineligible to receive awards in consecutive periods.

Award recipients thus far are:

4Q 2014 Anita Higgins – Central Office
JoAnne MacDougall – Bayport
John Mletzko – Washburn Tunnel

1Q 2015 Lisa Brasher – Central Office
Kenny Gasaway – Washburn Tunnel

2Q 2015 Carl T. Hennigar – Bayport

3Q 2015 April Malone – Washburn Tunnel
Jesse Williams – 40-Acre
Henry Chiu – Central Lab
Brad Peck – Central Office
Andy Pinson – Blackhawk
Carol Venegas – Odessa

GCA Director of Human Resources & Staff Services Keith S. Hardcastle had this to say about the program: "SCRIPT awards exemplify the best-of-the-best. While GCA is blessed to have the finest employees, winners and nominees of SCRIPT awards are of special significance because the honor comes from being nominated by co-workers, those who work side-by-side the recipients every day. It is special because it is peer recognition and acknowledgement of genuine SCRIPT values being exhibited and practiced as a way of everyday work-life at GCA."



(Left column, top to bottom) GCA General Manager Ricky Clifton and Lisa Brasher; Kenny Gasaway, Clifton and WT Manager Phyllis Frank; Clifton, Brad Peck and GCA Facility Services Manager Gordon Pederson; John Mletzko and Clifton. (Right column, top to bottom) JoAnne MacDougall and Clifton; Anita Higgins and Clifton; Clifton, Carl Hennigar and Bayport Facility Manager Scott Harris.



GCA RECEIVES TWCA'S EXCELLENCE IN RISK MANAGEMENT AWARD

GCA Board Chairman Frank Jones (back row, second from left) and Board Treasurer Dr. Irvin Osborne-Lee (front, left) join other TCWA members with their awards.

In mid-October GCA was recognized for Excellence in Risk Management by the Texas Water Conservation Association's (TWCA) Risk Management Fund. The award "recognizes the member achieving excellent experience in both employee safety as well as incidents affecting the general public over the past four years."

The 28-year-old Fund "puts TWCA members in control of their insurance and risk management future. In fact, the Fund not only provides stability in coverage and rates, but works with members to develop quality safety and loss prevention programs that control risks as well



as support member operations,” according to the safety award announcement issued by TWCA.

The Fund recognized GCA for our effective safety and loss control programs and recognized the Authority as a leader in providing safe work environments for employees and its attention to issues that also affect the general public.

This is the first year for this specific award, which recognizes employee safety and liability issues (third-party incidents).



TCWA Member Kathy Jones (right) congratulates GCA Board Treasurer Dr. Irvin Osborne-Lee.

GCA FACILITIES RECEIVE NACWA AWARDS

The National Association of Clean Water Agencies (NACWA) at its July 14, 2015, meeting recognized four GCA facilities with Gold and Silver Peak Performance Awards for consistently outstanding work. The Gold Awards represent 100 percent compliance with a facility's permit limits in 2014 while the Silver Awards celebrate facilities for achieving no more than five violations within a calendar year.

GCA's 40-Acre and Washburn Tunnel facilities received Gold Peak Performance Awards in recognition of their complete and consistent National Pollutant Discharge Elimination System (NPDES) permit compliance during 2014.

The Odessa South Regional Wastewater Treatment Facility and the Bayport Facility each received Silver Peak Performance Awards in recognition of their consistent National Pollutant Discharge Elimination System permit compliance last year.

A total of 76 facilities owned by 35 NACWA Member Agencies in Texas received Peak Performance recognition awards at the July meeting. This outstanding accomplishment signifies NACWA members' commitment to environmental protection and represents the diligence and hard work of each agency's employees. GCA was honored to be a part of this level of excellence in environmental protection for which all NACWA members strive.



TRASH BASH® WINS THREE ENVIRONMENTAL AWARDS

The annual River, Lakes, Bays 'N Bayous Trash Bash® has received three prestigious awards this year. The event marked its 21st year on March 28th.

Trash Bash was recognized with a Keep Houston Beautiful Mayor's Proud Partners Award in 2015 for the eighth time. GCA's Lori Traweck (center) received the award from Houston's Mayor Annise Parker (right) and Lori Carper (left), Chairman of the Houston Clean City Commission, at an awards luncheon on October 26th.

Trash Bash also was a finalist this year in the the Governor's

Texas Environmental Excellence Awards in the Civic/Community category. The Texas Commission on Environmental Quality (TCEQ) established the annual Texas Environmental Excellence Awards in 1993 with the goal of encouraging citizens to implement similar projects and reinforce a spirit of environmental stewardship in the state. This is the seventh time Trash Bash has been awarded this honor.

The cleanup effort also took third place in the Environmental Protection Agency's Gulf Guardian Awards competition. The awards were presented at a ceremony on July 30 at the Texas

State Aquarium in Corpus Christi. The EPA has supported the Gulf of Mexico Program since "1988 to protect, restore, and maintain the health and productivity of the Gulf of Mexico ecosystem in economically sustainable ways." This is the third Gulf Guardian Award Trash Bash has received.

GCA is a longtime sponsor of the waterway cleanup effort, coordinating two sites, volunteering for the trash pickup, administering Trash Bash as an approved Supplemental Environmental Project by TCEQ and serving in leadership roles for the organization.



GCA HONORS TWCA'S LEROY GOODSON



(Left to right) GCA General Manager Ricky Clifton, Vice Chairman Rita Standridge, Operations Manager Lori Traweek, Chairman Frank Jones, Leroy Goodson, GCA Board Members Mark Schultz, Lamont Meaux and Stan Cromartie, and Board Treasurer Dr. Irvin Osborne-Lee.

GCA will lose a good friend when Texas Water Conservation Association (TWCA) General Manager Leroy Goodson retires in December. Goodson was honored at the fall TWCA conference with a party and reception in October, where a lineup of speakers roasted him. Approximately 400 people attended the event, including members of the Goodson family.



In early October, GCA Board Chairman

Franklin Jones and GM Ricky Clifton signed a resolution adopted by the board congratulating Goodson on his upcoming retirement after 34 years leading the TWCA and thanking him for his guidance and support.

GCA is a member of the TWCA, which encompasses the full spectrum of water use or interests in the state of Texas: groundwater users, irrigators, municipalities, river authorities, navigation and flood control districts, industrial users, drainage districts, utility districts, and general/environmental interests. The organization is affiliated with the National Water Resources Association.

GCA EXECUTIVES SERVE ON BOARDS & COMMUNITY COUNCILS

In addition to their responsibilities as protectors of Texas water resources, GCA executives and employees have a strong commitment to public service. That commitment is reflected in the service of GCA leaders on a number of governing boards and business-community organizations.

General Manager Ricky Clifton has been reappointed to the Board of Directors of the National Association of Clean Water Agencies (NACWA). The organization is a nationally recognized leader in environmental policy and a resource on water quality and ecosystem protection. It was established in 1970 by a group representing 22

large municipal sewerage agencies. GCA is a member in good standing.

Operations Manager Lori Traweek has been appointed to the Galveston Bay Foundation Board, which has been preserving, protecting and enhancing Galveston Bay for more than 25 years. The non-profit organization was established in 1987 under the laws of the State of Texas. The foundation promotes advocacy, conservation, education and research.

"We believe it is important to our mission and to the agencies and communities with which we work that GCA personnel are actively involved beyond

our day-to-day careers," said Traweek. "We are honored to have the opportunity to work so closely with industry, environmental, citizen, and governmental organizations."

Bayport Facility Manager Scott Harris has been elected Vice President of the Board of the Association of Bayport Companies, which is based in La Porte. The non-profit association's mission is to promote the common business interests of industrial companies with manufacturing, terminal, pipeline, or similar operating facilities in the Bayport Industrial Complex.

Phyllis Frank, new Facility Manager at GCA's Washburn Tunnel and Vince Bayou facilities, is treasurer of the Pasadena Citizens' Advisory Council (PCAC). The PCAC, a partnership between industry and community in the town of Pasadena, meets nine times a year to discuss issues of concern or interest to the community. Topics of discussion include environment, safety, health, security, emergency response and communications, and hazardous materials transportation. The council also discusses other quality-of-life issues impacting the area such as the economy and education needs.



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Elizabeth Free
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Gordon Pederson
Manager of Facility Services



Protecting the waters of the State of Texas
through environmentally sound and economically
feasible regional waste management practices

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