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LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
ANNUAL REPORT 2018

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Message From The Secretary

Sometimes at LDEQ, it seems like we are trying to bury an elephant with a hand shovel. The big issues we tackle can grind on for months or even years. While we always give our best effort, sometimes it just seems that we reap few results. That can be discouraging if you let it get to you.

We don't. We don't give up. We take pride in doing what we do not because we expect to solve every problem, but because we want to do what is right. Our dedication – and stubbornness – eventually wins some battles. The air quality is improving in Louisiana. Water quality is improving. We are remediating properties that have been contaminated with pollutants. We are investigating environmental crimes. We are working permits to ensure compliance. We are helping the public every chance we get.

I see all this from my position as secretary, and I am proud of the work we have done and are doing. I am proud of the innovative thinking and good old-fashioned sweat equity we are bringing to our jobs. I hope everyone will take a moment to step back and look in the mirror that is this annual report. It reflects some of the things we have achieved in the last fiscal year.

In that time, we have installed an air quality monitor in St. Rose, a community where residents have expressed concerns about their air quality. LDEQ has been a partner in Brownfields program successes that range from the spectacular Rose Collaborative where a decommissioned New Orleans church and its outbuildings morphed into a theatre, school and business incubator, to an old galvanizing site that was cleaned up and became a viable business helping a Jefferson Parish community provide jobs for its citizens.

LDEQ is in the process of developing a water trading program that will allow entities that curtail runoff and reduce nutrients entering the lakes and bayous of our state to quantify that benefit and convert it into trading credits. LDEQ is the lead agency for the VW Settlement in Louisiana, where one automobile manufacturer's use of an emissions defeating computer program resulted in a payment of \$18 million to our state. We are using that money to buy alternative or high efficiency diesel school buses for participating school districts. Some of the settlement money will fund replacement equipment for DOTD, which is swapping out old, worn out and polluting diesel trucks and equipment for new, high efficiency diesel equipment.

We are expanding the use of unmanned aircraft. That buzzing you hear may be one of our unmanned aircraft out on a surveillance mission. We can use them to take video and still photos, including infrared footage – all of which can be used in our environmental protection and environmental emergency response mission. In time, they may be used in sampling and assessment missions as well.

We worked with EPA to get the Reid Vapor Pressure (RVP) requirement relaxed. In Louisiana, gas stations are no longer required to sell 7.8 RVP gasoline. The elimination of the summer "boutique" blends requirement has been a benefit to both consumers (lower pump prices) and producers (elimination of distribution complexities).

We are always looking to the future. We are in the process of acquiring the first electric vehicle (EV) for our agency, which will mark LDEQ as the first state agency to have one. Look for it to be rolling along the streets and highways of Louisiana soon, sporting the LDEQ logo.

So, while we haven't buried that elephant yet, you can see less of it every day. We are going to keep shoveling.

Sincerely,



Chuck Carr Brown, Ph.D.



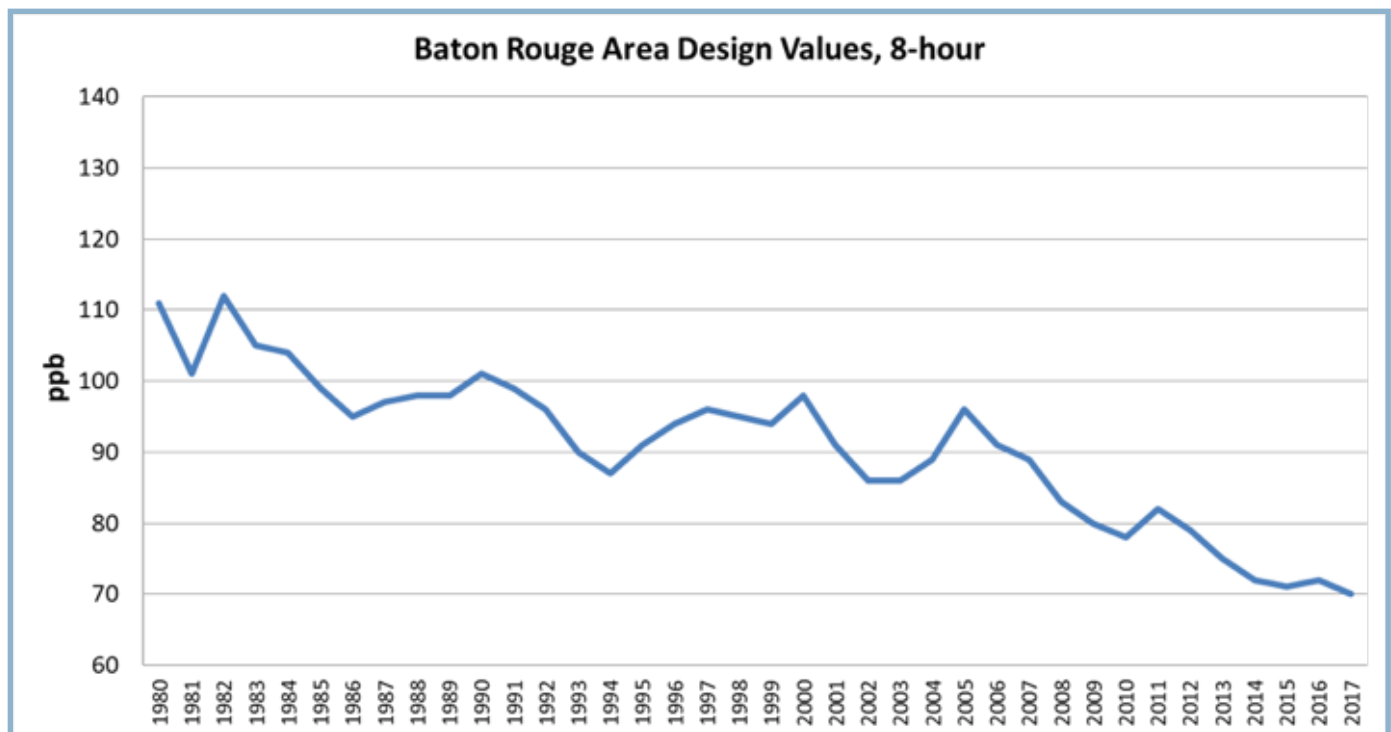
*DEQ Secretary
Chuck Carr Brown, Ph.D.*

The state of Louisiana's air – attainment

The Greater Baton Rouge area has been struggling with attainment for the pollutant ozone for years. In the late '80s, when 1990 Clean Air Act Amendments (CAAA) were crafted, the National Ambient Air Quality Standard (NAAQS) for ozone was an hourly average concentration of 120 parts per billion (ppb). At that time, the Baton Rouge area was experiencing approximately 14 days per year where ozone levels exceeded this standard. Some of the more severe ozone episodes presented multi-hour exceedances with ozone concentrations ranging upward to levels considered to be very unhealthy. As a result, the Baton Rouge area was classified as having a “serious” ozone problem following the 1990 CAAA criteria.

In accordance with the Clean Air Act, the Environmental Protection Agency (EPA), using the most recent scientific data available, reviewed and revised the NAAQS for ozone. In 1997, the ozone standard was revised from the maximum 1-hour concentration-based standard (120 ppb) to a daily maximum 8-hour average concentration of 80 ppb. In late 2008, the standard was once again revised – this time to an 8-hour average concentration of 75 ppb. On Oct. 1, 2015, the EPA announced a new NAAQS for ozone: 70 parts per billion (ppb).

Over the two decades since the 1990 CAAA were promulgated, the Baton Rouge area has shown remarkable progress in improving its air quality and working toward attainment of an increasingly stringent ozone NAAQS. During this period, the Baton Rouge area did achieve attainment of both the old 1-hour ozone standard and the 1997 8-hour ozone standard. It is also important to note that, during this same period, measured exceedances of Louisiana's air toxic standards for ambient air declined to zero for the Baton Rouge area.



The Greater Baton Rouge Area, which consists of East Baton Rouge, West Baton Rouge, Iberville, Ascension and Livingston parishes, was designated attainment by the Environmental Protection Agency on March 21. This time, the area met the more stringent 8-hour ozone standard again.

On Oct. 1, 2015, the EPA announced a new National Ambient Air Quality Standard (NAAQS) for ozone, setting the new standard at 70 parts per billion (ppb). Based on current information at the time (2013- 2015), the historical Baton Rouge Nonattainment Area was the only area in Louisiana that did not meet the standard. However, designations were not final. Areas went on to be designated based upon 2014-2016 monitoring data.

On May 2, 2018, Gov. Edwards announced that the entire state is in compliance with the NAAQS according to the EPA.

“All of our citizens deserve to have clean air to breathe, and this achievement is evidence of our commitment to make Louisiana an even better place to live,” Gov. Edwards said. “The public benefits from lowered ozone levels which can impact their quality of health. It can also benefit business and the health of our economy. My thanks to Secretary Chuck Carr Brown and his team at LDEQ, along with their partners statewide who are making great progress toward improving Louisiana’s environment.”

Louisiana gained total compliance thanks to improved ozone levels in the greater Baton Rouge area.

“We want to thank everyone, especially the environmental groups that have worked with us to reach this goal. And our work does not end here. We will continue working to maintain our attainment status,” said LDEQ Secretary Dr. Chuck Carr Brown. “Congratulations to all.”

Attainment is the result of cooperation from industry that developed Ozone Action Plans, implemented stricter regulations, responded to early action days and limited their activities to avoid emissions. Additional partners include environmental and governmental groups as well as individual citizens who heeded Ozone Action Days and curtailed their activities.

MAML Fiscal Year Activities

The Mobile Air Monitoring Lab is a very important tool to help LDEQ determine the air quality in remote areas and areas with no monitors. Here is where it was deployed:

7.6.17

Adsorbent Solutions,
St. Gabriel, LA

8.21.17

Reliable Landfill, Livonia, LA

8.25.17

Dalcour, LA

10.28.17

Dalcour, LA

1.25.18

Sulfur High School, Sulfur, LA

2.19.18

River Ridge/Harahan, LA

2.27.18

Ronaldson Landfill,
north Baton Rouge, LA

4.27.18

River Ridge/Harahan, LA

6.4.18

McFarland Cascade, Pineville, LA

6.11.18

Stella-Jones, Alexandria, LA

6.18.18

Bailey Bark, Shreveport, LA

The Brownfields Program – A Simple Idea

Sometimes a great notion is a simple one. That's true for the Brownfields Program at LDEQ. The idea is to find contaminated properties and return those properties to commerce by cleaning and remediating them.

"I try to focus on the end game," said Roger Gingles, LDEQ assistant secretary for Assessment. Brownfields is in the Remediation Division, part of Gingles' section. "The end game is redevelopment and reuse and revitalization."

The process has a snowball effect, Gingles said. "When you bring in one property, it helps stimulate further revitalization."

The main thing, LDEQ Dr. Secretary Chuck Carr Brown said, is to get these properties back in commerce. There are some properties that are not easily remediated, Brown said, but there are many more that have addressable contamination which can be remediated for a reasonable cost. It just takes patience and dedication to the job, he said.

"These things take a long time," Brown said in remarks at the dedication ceremony for the Rose Collaborative Brownfields Project in New Orleans. "But you should never lose track of the ultimate goal."

"There is not one of us in here who does not believe in reuse and remediation," he said. "We are all committed to this."

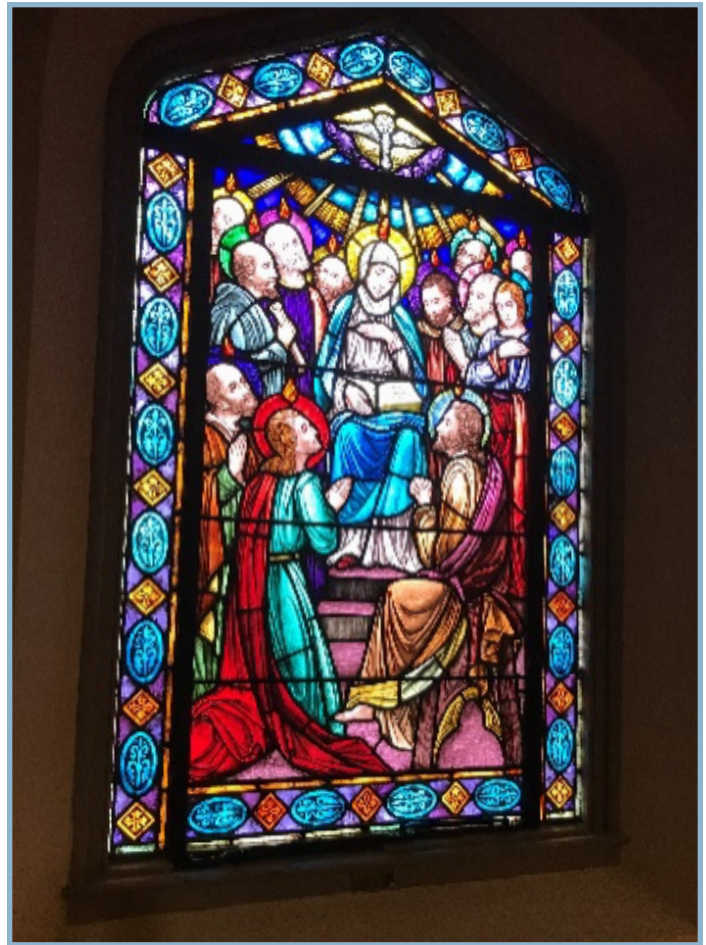
The Louisiana Voluntary Remediation Program (VRP) provides a mechanism by which property owners (or potential owners) or others can clean up contaminated properties and receive a release of liability for further cleanup of historical contamination at a site. This release of liability flows to future owners of the property as well. Through the Voluntary Remediation Program, LDEQ hopes to provide administrative, technical, and legal incentives in order to encourage the redevelopment and reuse of Brownfields properties.

Gingles outlined the process:

- The Voluntary Remedial Action Process (VRP) begins with a remedial investigation. If LDEQ approves the investigation, then an application and workplan for remedial action is submitted. LDEQ provides oversight and feedback throughout the process.
- LDEQ wants the plan to put the property back in commerce, but also to make improvements that ensure a smaller environmental footprint when activity resumes onsite.
- Those improvements can include a variety of things. At Gulf Coast Scrap & Salvage in Jefferson Parish, the Brownfields plan included a permeable parking area that not only helped reduce runoff but also diverted the water that soaks into the parking area to a bioswale where natural filtration helps remove contaminants.
- Once a project is approved, the next step is funding.
- Once sampling confirms the effectiveness of the remedial action, the completed project receives a certificate of completion from LDEQ that releases the property owner/potential owner from liability for further cleanup of historical contamination at the site.



The Rose Collaborative in New Orleans Brownfields Program



Preserved stained glass window at the Rose Collaborative

The Rose Collaborative is an impressive example of what a Brownfields Project can achieve. The two-acre property in the Esplanade Historic District includes a decommissioned church (St. Rose de Lima) on Bayou Road. The property had a couple of underground storage tanks and material impacted with lead, asbestos and avian fecal matter (bird droppings, a possible biohazard). Historical resources show that the site has been developed since 1861. The former church was built in 1915. The buildings on Columbus Street which formerly housed St. Rose de Lima School and served as a community center for the neighborhood were built in 1925 and 1938. The school closed in 1978; the church closed in 2006. The buildings were in a state of disrepair in 2005 after Hurricane Katrina.

But retired private equity investor and former charter school board president Hal Brown had a vision for the site as the Bayou Tremé Center for Arts & Education. He approached the New Orleans Regional Planning Commission (NORPC) in 2010 for assistance addressing the environmental issues at the site. NORPC enrolled the site in LDEQ's Brownfield Program and conducted a phase I assessment in 2011 and completed a phase II assessment under LDEQ's Voluntary Remediation Program in 2012 including the removal of an underground storage tank.

In September 2018, Brown was among the dignitaries who spoke at the dedication ceremony at the former church. Now the Rose Collaborative includes:

- Southern Rep Theatre
- Fund 17
- School facilities for New Orleans Career Center, New Harmony High and Operation Spark through 2019
- Starting in Fall 2019, the Waldorf School

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EPA Brownfields Funding totaled \$258,856, including \$158,856 from the Regional Planning Commission's Brownfield Program and \$100,000 from LDEQ's Brownfields Program. Including environmental work performed by the owner, volunteer hours, the site purchase and the funding to cleanup and redevelop the site, the Rose Collaborative leveraged over \$12.6 million in private investment, for a ratio of \$49 of private investment for every \$1 in Brownfields funding spent.

The project created approximately 10 jobs during the cleanup and 30 jobs during the redevelopment. Once the site is fully operational, the facilities will employ approximately 50 workers. One of the former school buildings will house career preparation programs including facilities for New Orleans Career Center, New Harmony High and Operation Spark through Fall 2019 when the Waldorf School will be ready to move in. The other school building is occupied by Fund 17, a nonprofit organization with "the mission to combat opportunity inequality in New Orleans by providing micro-entrepreneurs financial and educational tools for self-empowerment." The new home of Southern Rep Theatre will employ support production staff, actors and service personnel for events. All the redevelopments will support the surrounding businesses by bringing people and awareness to the neighborhood.

"It's a feel-good story," Brown said.

The soaring spires and stained-glass windows of Southern Rep Theatre's new home are not the norm for Brownfields projects, Gingles admits. Most Brownfields projects are not so high-profile. They may include vacant lots, old factory sites, railyards, etc. Pretty much anything, Gingles said, but all of the projects the agency completes are sources of pride, including Gulf Coast Scrap & Salvage in Harvey, the successful redevelopment of the Former Haywilk Galvanizing Brownfield Site.

The property is located in an industrial area along the Harvey Canal on Peters Road. Gulf Coast Scrap & Salvage addressed zinc contamination in soil and groundwater at the property under LDEQ's Voluntary Remediation Program with assistance from EPA's Targeted Brownfields Assessment Program, LDEQ's Brownfields Program and RPC's Brownfields Redevelopment Program, allowing the formerly abandoned property to be redeveloped and put back into commerce. As a group of dignitaries, local officials and Gulf Coast Scrap & Salvage workers gathered under the roof of the barn-like warehouse building, the Louisiana weather offered up an obligatory summer shower.

Carl Edlund, director of EPA Region 6 Superfund Division, said that early on, the federal agency was focused on closing and covering contaminated properties as Superfund sites. "I was in risk reduction for 25 years," he said. One day EPA officials realized that taking marginally contaminated properties out of commerce was not really doing anything to help localities. We realized we need to reuse and revitalize the land, not just clean it up. That's where Brownfields started.

"It was a changeover in perspective: not just clean up, but put back in use. One hundred and seventeen thousand dollars went into this project. That money was leveraged into \$1.5 million in total funding. It produced five jobs during the cleanup, and there are 26 workers now. It is contributing to the economy," Edlund said of the Gulf Coast Scrap & Salvage site.

The redevelopment includes sustainable reuse of materials including large warehouse doors and I-beams as well as permeable pavement and a bioswale. The new facility employs 26 workers in the fabrication industry.

YouTube videos give insight into various environmentally related topics

From home sewage system maintenance to open burning to how unmanned aerial vehicles operate, LDEQ's Communications Section strives to produce a video each month that showcases a different topic.

The videos are part of the latest component of LDEQ's outreach mission, with the goal of reaching a statewide – if not nationwide and global – audience by imparting brief information in an easily digestible, straightforward style.

The response has been overwhelmingly positive for the most part, and the videos serve as great educational tools for educational institutions, private and publicly owned businesses doing environmentally related work, and citizens seeking information on what LDEQ may be involved in.



LDEQ Environmental Scientist David Wagenecht hosts the video while Emily Barlett, LDEQ graphic designer and videographer, films.

While a few videos were produced and posted a few years ago on the department's YouTube channel, LDEQ's Communications Section fully ramped up its video output to the channel in early 2016 when Dr. Chuck Carr Brown took the helm as secretary of LDEQ.

"These videos serve as a convenient connection to the public in terms of showing what we do and what we support in terms of our environmental protection mission," said Brown. "Together with our other social media platforms, the YouTube channel is another resource we are actively using to provide information to the public in a clear and expedient fashion."

More than a dozen videos have been produced so far, with each being informational in nature, touching on a specific area LDEQ regulates or announcing or promoting a statewide program that's being undertaken by either LDEQ or another agency.

Aside from the popular video on the Unmanned Aerial Vehicles, other videos produced by the Communications Section this fiscal year have included Household Hazardous Materials Collections Day, an overview of LDEQ's handheld air monitoring equipment, Air Quality Awareness Month, an Introduction to Asbestos and an Introduction to Landfills. The goal is to capture the essence of the subject matter in a few minutes so that anyone – not just the scientific community – can understand the topic and receive information on where to look for further information.

To subscribe to LDEQ's YouTube channel and view the department's videos, please visit: <https://www.youtube.com/channel/UCP0mXFck7gdZRpyAJYxDIRw>.



Waste tires were illegally dumped near Gracie Street in Baton Rouge. The site was subsequently cleaned up.

Criminal Investigation Section enforces environmental laws in Louisiana

With investigations ongoing across the state, LDEQ's Criminal Investigation Section (LDEQ-CIS) works with local, parish and state law enforcement to investigate environmental crimes and move those toward prosecution to the fullest extent of the law.

While some of the cases investigated by LDEQ-CIS involve the filing of false public records or misrepresentation of credentials on official documents, illegal dumping – be it waste tires, hazardous chemicals or other hazardous materials – continues to be the greatest concern. Illegal dumping or discharging waste into the soil, air or waters of the state negatively impacts the environment.

In particular, the illegal dumping of waste tires is a chronic problem, and LDEQ needs the help of the public to put an end to this environmental blight, nuisance and health hazard.

“We are chipping away at this enormous problem,” said LDEQ Secretary Dr. Chuck Carr Brown. “Each arrest we make takes one more illegal tire dumper off the streets and out of the business. We are determined and will continue our efforts to apprehend everyone involved in illegal tire dumping.”

To that end, LDEQ strongly urges anyone to report any illegal dumping activity to the LDEQ hotline at 1-888-763-5424 or report it online (reports can remain anonymous) at <http://deq.louisiana.gov/page/file-a-complaint-report-an-incident>.

All inquiries will be investigated and appropriate legal action will be taken, if circumstances dictate.

Some of the cases investigated by LDEQ-CIS during this fiscal year:

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June 2018 – Caddo Parish suspect pleads guilty to illegally disposing of waste tires that subsequently caught on fire

In Caddo Parish, Antonio Demond Holliday, 37, committed the illegal disposal of substance in violation of Louisiana Revised Statute 30:2025(F)(2)(a).

The case began with a complaint received by the Caddo Parish Sheriff's Office (CPSO) which alleged that Holliday was illegally disposing of and burning tires on property owned by someone else on Wallace Lake Road, south of Shreveport. CPSO, Caddo Fire District 6, LDEQ civil inspectors and Donald Cowart, an LDEQ-CIS criminal investigator, responded to the complaint.



Caddo Parish Sheriff's Office took this photo of the waste tire fire.

During the initial investigation, it was discovered that the waste tire pile that was originally burning had re-ignited, with upwards of 2,000 tires involved. A vehicle was spotted leaving the site as Caddo Fire District 6 crews arrived to respond to a call regarding the re-ignition of the fire.

Metal debris among the burned tires, along with an unburned pile of waste tires, were at the scene as well as large piles of burned household garbage and plastic. Dozens of trash cans and marked recycle bins were adjacent to the burned garbage piles.

CPSO subsequently charged Holliday with violating La. R.S. 14:38 – the Illegal Use of a Moveable.

The investigation later found a pit measuring approximately 5 feet wide by 25 feet long by 5 feet deep. Black water and trash debris (including burned medical records and a pile of unburned tires) were in the pit. A misdemeanor summons was issued to Holliday for violating La. R.S. 30:2025(F)(2)(a).

In June 2018, Holliday pleaded guilty to illegally disposing of and burning the waste tires. The sentence entailed a suspended sentence of five months in the parish jail, replaced with six months of probation with a special condition that Holliday not be charged with anything additional. Holliday was also ordered to pay a fine, along with court costs and \$1,400 in restitution to LDEQ.

January 2018 – Illegal tire dumping suspect in East Baton Rouge Parish pleads guilty

In East Baton Rouge Parish, Jamie Donell Causey, 51, committed an illegal disposal of solid waste in violation of La. R.S. 30:2025 (F) (2) (a).

LDEQ-CIS received a complaint in April 2017 that Causey had dumped several tires from his pickup truck near Gracie Street in Baton Rouge. A CIS investigator visited with the complainant who provided camera footage of the incident. The pictures showed Causey dumping tires near 1600 Gracie St. between Frisco Alley and North 16th Street.



The property owner's surveillance footage captures Causey in the act of illegally discarding waste tires from his pickup.

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In April 2017, LDEQ-CIS interviewed Causey along with an officer from the Baton Rouge Police Department. Causey was issued a misdemeanor summons for the illegal disposal of a solid waste in violation of La. R.S. 30:2025(F)(2)(a).

Causey pleaded guilty in January 2018 and was sentenced to a year of probation, fines and community service. The site has since been cleaned up.

March 2018 – Lafayette Parish man arrested for knowingly violating environmental permit and submitting false reports



A poorly maintained sewage treatment plant operated by Savoy.

you falsify reports. When we do, the price you pay will be much larger price than it would have cost you to comply in the first place,” said LDEQ Secretary Dr. Chuck Carr Brown.

Under Louisiana’s Water Control Law, an owner or operator of sewage treatment plant which discharges to state waters is required to obtain a Louisiana Water Discharge Elimination System permit from LDEQ. Under the terms and conditions of these permits, operators are required to periodically sample the discharges and submit the sample results to LDEQ in the form of discharge monitoring reports.

Knowingly violating an LDEQ water discharge permit is a felony. Over the past few years, LDEQ Surveillance Division personnel became suspicious when they made multiple sampling inspections at the two sewage treatment plants run by Savoy and saw the poorly maintained conditions at each. During these inspections, the sewage treatment plants were filled with solids and lacked means of disinfection. Samples collected by LDEQ revealed permit exceedances for fecal coliform bacteria concentrations.

The investigation discovered that Savoy would submit Discharge Monitoring Reports during the same months that LDEQ personnel sampled the facilities. Savoy’s samples results showed that fecal coliform bacteria concentrations were well within permit limits even though the conditions at the plants made permit compliance virtually impossible. When questioned by LDEQ CIS personnel, Savoy admitted that he altered the fecal coliform samples in order to meet permit limits.

Violations of Louisiana Pollutant Discharge Elimination System, upon conviction, can result in a fine of not less than \$5,000, but no more than \$50,000 per day of violation, or imprisonment for not more than three years, with or without hard labor, or both per count. Violations for filing false public records can result in a fine of not more than \$5,000, or imprisonment for not more than five years, with or without hard labor, or both per count.

An arrest does not constitute guilt in a criminal case and all subjects are presumed innocent. All evidence compiled during the investigation is presented to the area prosecutors who determine if formal charges are warranted. As of this writing, the disposition of the case is ongoing.

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Feb. 2018 – Orleans Parish men arrested for illegal disposal of waste tires

Two men were charged with dumping illegal tires in separate but related incidents in New Orleans East.

In Feb. 2018, the New Orleans Police Department contacted criminal investigators with LDEQ-CIS and informed them that Bryant Ballard, 44, and an accomplice, Leonard Patterson, had been arrested for illegally disposing of waste tires in New Orleans East from a stolen U-Haul truck.

Investigators with the LDEQ CIS subsequently traveled to New Orleans and booked Ballard while he was being held in the Orleans Parish Justice Center on another charge. Ballard was booked with four additional counts of illegal waste tire disposal described in the outstanding warrant.

Ballard is alleged to have dumped hundreds of tires in the area over the past year utilizing U-Haul trucks. A task force of investigators from LDEQ CIS, the U.S. Fish and Wildlife Service, the Louisiana Department of Wildlife and Fisheries, the New Orleans Police Department, the New Orleans Sanitation Department and the Louisiana State Police conducted a monthslong criminal investigation regarding the epidemic illegal disposal of waste tires in New Orleans East.

As a result of the task force investigation and hours of covert surveillance, investigators with LDEQ CIS obtained an arrest warrant for Ballard in December 2017. The warrant outlined four counts of illegal disposal of waste tires in New Orleans.



Thousands of waste tires were illegally dumped in New Orleans East. The site was subsequently cleaned up.

The New Orleans Police Department issued Ballard a misdemeanor summons for the illegal disposal of waste tires in May 2017, stemming from a call made by employees of the Louisiana Department of Transportation and Development (DOTD), who witnessed Ballard dumping waste tires from a rented U-Haul truck off Old Gentilly Road.

This case is currently pending in New Orleans Municipal Court. Ballard failed to appear on July 20, 2017, and a \$500 attachment was issued.

In a related matter, Ballard's brother, Malcolm Ballard, was arrested on Sept. 27, 2017, by Louisiana Department Wildlife and Fisheries agents, NOPD Officers and LDEQ CIS investigators for the illegal disposal of waste tires from a rented U-Haul truck in New Orleans East.

Task force agents questioned Malcolm Ballard who admitted to dumping waste tires near McDonald's at I-10 and Read Boulevard in New Orleans East in March 2017. As a result, LDEQ criminal investigators added additional criminal charges to Malcolm Ballard's arrest for the illegal disposal of waste tires.

Malcolm Ballard pled guilty to the illegal disposal of waste tires in Orleans Parish Criminal Court.

An arrest does not constitute guilt in a criminal case and all subjects are presumed innocent. All evidence compiled during the investigation is presented to the area prosecutors who determine if formal charges are warranted. As of this writing, Ballard remains at large.

Unmanned Aerial Systems the latest resource in LDEQ's environmental protection mission

Unmanned Aircraft Vehicles, also known as drones or Unmanned Aerial Systems, are being used by LDEQ to provide a unique and highly valuable aerial perspective that supports the department's environmental protection effort. Piloted by Jason Smith, manager for LDEQ's Unmanned Aircraft Systems Program, the UAV can quickly give the department an aerial view of areas that are difficult to access on foot or by boat, car or all-terrain vehicle.

Now in the mainstream and quickly becoming more widespread, unmanned aircraft vehicles are finding their way into the governmental sector as agencies realize their value.

While their uses are varied, many businesses and organizations are starting to utilize the UAVs as another tool that serves their mission. In LDEQ's case, the three UAVs currently employed by the department have proven to be vital additions to environmental protection, allowing for a clearer picture of what's happening during an environmental threat or critical situation.

A recent video produced by LDEQ's Communications section covers the use of the UAV and demonstrates its capabilities and its role in protecting the environment.

While the department's uses for the UAV vary given the situation, its most obvious uses are to observe and document illegal dumping sites, oil/gas or chemical spills, floods and storm events and criminal investigations matters. Recently, a UAV flew over a portion of the Mississippi River near the French Quarter to document an oil spill that occurred there. A UAV was also flown over a flooded field at an oil well blowout in St. Landry Parish to track the extent of the flooding. In instances like these, the UAV can take photographs and video that can be used to support the subsequent investigation or as documentation of what occurred.

Given this newfound aerial advantage, LDEQ plans to maximize the use of its UAVs. Mission uses include surveillance, enforcement, illegal chemical or waste tire dumping locations, permit support documentation, waste and landfill inspections, and general emergency response functions such as trail derailments, truck accidents, facility accidents/upsets and discharges, unusual events and other investigations.

The success of the UAV so far means that additional UAVs are expected, with additional operators getting in line to be certified. Certification is conducted and granted via the Federal Aviation Administration criteria, as technicians operating the UAV for a governmental agency must have the proper credentials.

Future capabilities for the UAV are expected to include air monitoring and air sampling components, a multispectral camera, a thermal camera, optical gas imaging (for detection of leaks) and LIDAR (Light Detection and Ranging). View a video on the operation of the UAV by visiting LDEQ's YouTube channel: <https://www.youtube.com/watch?v=QtO-PaOz4q0>.



Jason Smith, manager for LDEQ's Unmanned Aircraft Systems Program, demonstrates the operation of a UAV in downtown Baton Rouge.

Environmental Leadership Awards presented at LDEQ

Being a good environmental steward and neighbor is the goal of the members of the Environmental Leadership Program at LDEQ. Members submit projects to be considered for Environmental Leadership Awards and they are judged by panels consisting of business, industry, agency and other personnel. This year, DEQ Secretary Dr. Chuck Carr Brown presented 11 awards to commend ELP members for their voluntary pollution prevention efforts and community environmental outreach initiatives that went above and beyond regulatory compliance to improve the environment.

LDEQ hosted the Environmental Leadership Program (ELP) Awards at the LDEQ headquarters in the Galvez building in downtown Baton Rouge, and large and small businesses, municipalities, universities and non-governmental organizations received ELP Awards. New ELP members, who joined in 2017-2018, were also recognized.

Award winners for 2018 are:

Achievement Awards:

- Fort Polk Environmental Division
- Diamond Green Diesel, LLC,
with Plaquemines Processing &
Recovery, LLC
- LafargeHolcim
- Jefferson Parish
- Louisiana State University – Campus
Sustainability
- Compost NOW (New Orleans Waste)

Recognition Awards:

- Alliance Compressors
- Composting Network
- City of West Monroe
- Port of New Orleans
- Sewerage and Water Board of New Orleans



Dr. Chuck Carr Brown presented the Recognition Award to the city of West Monroe.

“The Environmental Leadership Awards highlight the efforts of schools, industry and communities that take ownership of their environment,” Dr. Brown said. “These ELP projects go a long way toward improving our environment, setting a good example and raising awareness of how to protect the environment.”

The ELP began in 1995 as a cooperative effort between LDEQ and participating companies in Louisiana. Today, any company, federal entity, municipality, non-governmental organization, school or university committed to improving the quality of the state’s environment is eligible to join the program.

For more information about the ELP, call 225-219-0877, email at elp@la.gov or visit the LDEQ website at www.deq.louisiana.gov/elp.



2018 ELP Award Winners

Recognition Awards

Alliance Compressors: Natchitoches, LA ***Scroll TTP Hydraulic Oil Coolers***

Alliance Compressors is being awarded the ELP Large Business Recognition Award in Pollution Prevention. Alliance Compressors implemented this project with the goal of energy conservation and efficiency that would ultimately help reduce the plant's carbon footprint. Alliance Compressors upgraded the standard "S" mills utilizing the fan cooled hydraulic coolers with low pressure heat exchangers before being utilized by the machine. This allows the existing machine coolant that is flowing in the trough to be used to circulate through the TTP heat exchangers cooling the hydraulic oil that is in the machines. The project was a win for the plant and a win for the environment. The removal of the 83 electric fan motors produced \$11,318 per year in electrical cost savings for the plant and eliminated 154 tons of CO2 emissions.

The Composting Network: New Orleans, LA ***Reducing Pre and Post Consumed Food Resources from Urban Landfills by Encouraging Composting (Residential And Commercial)***

The Composting Network of New Orleans is being awarded the ELP Small Business Recognition Award in Pollution Prevention. The mission of the Composting Network is to build a compost awareness movement to reduce unnecessary dumping of food resources into urban landfills that harm our environment. The Composting Network LLC is developing Compost Network Partners throughout the New Orleans Metro area all the way to Walker, LA, who will become environmental leaders who foster transformational change inside and beyond the kitchen regarding food resource disposal. The Composting Network serves as a critical source of ambassadors who provide clients with standard compost education, service, and compost garden materials. The Composting Network also builds a pipeline of compost partners for education and environmental reform that influences system-wide restaurants, hotels, and schools through various meetings and workshops that showcase composting and encourage commitment. Last year in New Orleans—where 75 percent of waste is food waste—one-third of area hotel and tourism businesses were given a presentation about the value and need for food composting by someone within the network. Some of the compost partners to date are: Whole Foods, Hyatt Regency, Liberty's Kitchen, Sheraton Hotel, Convention Center, Peche, Cochon, Crocker Elementary School, Tulane, Loyola and Riley Foods, among others.

City of West Monroe: West Monroe, LA ***Wastewater Treatment Plant Solar Farm***

The city of West Monroe is being awarded the ELP Municipality Recognition Award in Pollution Prevention. The West Monroe Wastewater Treatment Plant Solar Farm consists of 880 solar panels located on 1.5-acres at the City's sewer plant. It supplies as much as 300 KW of electricity to the Wastewater Reuse Facility. This international-award-winning facility recycles wastewater and sends it to a nearby paper mill. This process replaces nearly 5 million gallons of water daily that was previously drawn from the Sparta Aquifer, north Louisiana's primary source of drinking water. Producing over 550 megawatt-hours of electricity per year, the solar farm will reduce the facility's electrical consumption by over 20 percent, thereby reducing CO2 emissions by over 400 metric tons per year. It is currently the largest municipal solar facility in the State. This project was made possible by a grant from LDEQ's Clean Water State Revolving Loan Fund.

Port of New Orleans: New Orleans, LA ***Port NOLA Clean TRIP (Truck Replacement Incentive Program)***

The Port of New Orleans is being awarded the ELP Municipality Recognition Award in Pollution Prevention. The Port of New Orleans' Clean Truck Replacement Incentive Program (Clean TRIP) used federal and state clean diesel grants to voluntarily improve air quality by replacing old diesel cargo trucks with new, cleaner-burning models. Eligible truck owners were able to receive up to \$35,000, or half the cost of a new truck (whichever was less) towards the

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replacement. Forty trucks were replaced with cleaner burning engines in newer model trucks, resulting in significant air quality improvements of 93 percent reduction in nitrogen oxides and 96 percent reduction in particulate emissions. These reductions are greater than the total estimated annual truck emissions on the Port's Clarence Henry Truckway. Clean TRIP has also supported local small businesses - over 90 percent of the participants in the program were single owner-operators and minority-owned businesses. The success of the program is also measured by the total investment - the cost-sharing by truck owners, leveraged resources, and Port administration of the program combine to over \$2.4 million invested in local air quality. The demand continues to grow - there is currently a waitlist of truck owners interested in converting to cleaner trucks. Port NOLA is seeking grant funding to continue this program to support the local trucking industry and further improve local air quality.

Sewerage and Water Board of New Orleans: New Orleans, LA
Enforcement Through Partnerships Program & Fats, Oil and Grease (FOG) Program

The Sewerage and Water Board of New Orleans is being awarded the ELP Municipality Recognition Award in Pollution Prevention & Environmental Ordinance. The Enforcement through Partnerships Program and the Fats, Oils and Grease (F.O.G.) Program are just two of the many ways that the Sewerage & Water Board of New Orleans is working to better serve customers and protect the environment. The Enforcement through Partnerships Program brings together an array of government agencies including LDEQ, LDH and the city of New Orleans, leading to more inclusive, robust, and ultimately more effective enforcement of water quality regulations at the state, regional, and local levels. The F.O.G. Program also works to increase the effectiveness of regulations by applying a proactive approach and by focusing on the largest sources of sewer-clogging grease: food service establishments. Through a combination of education, permitting, and enforcement, food service establishments are tracked and brought into greater compliance with the Sewerage & Water Board Plumbing Code. Both programs, via different approaches, are successful in decreasing illicit discharges and sanitary sewer overflows. In doing so, these two programs uphold local public health and ensure the effectiveness of New Orleans' crucial wastewater and drainage infrastructure.

Achievement Awards

Fort Polk Environmental Division: Fort Polk, LA
Net Zero Waste Program

The Fort Polk Environmental Division is being awarded the ELP Federal Facility Achievement Award in Pollution Prevention. The Joint Readiness Training Center and Fort Polk, located in Vernon Parish, provides state-of-the-art training facilities for Soldiers and has an annual economic impact of over \$1.4 billion dollars. The Fort Polk Net Zero Waste (NZW) program has made tremendous strides in pollution prevention and waste reduction, setting the direction as one of the US Army's six pilot Net Zero facilities. NZW aims to reduce waste through reduction of consumables, reuse, recycling, and energy recovery. The goal is to minimize the amount of material that goes to the landfill and other waste management facilities. Examples of Fort Polk achievements include a 94 percent decrease in the amount of hazardous waste generated over the last 15 years. Fort Polk currently diverts 50 percent of non-hazardous solid waste, meaning 50 percent of all waste generated is reused, recycled, or used for energy recovery purposes. Key components to the success of Fort Polk's NZW program have been its facilities and support staff. Various facilities are in operation across the installation to ready materials for recycle commodities and reuse supplies. A team is in place to ensure everything runs smoothly. This team works to provide education, outreach and support to the approximately 31,000 people who work on the installation. The team works to ensure processes are in place and that those processes are utilized and constantly improved.

Diamond Green Diesel, LLC, with Plaquemines Processing & Recovery, LLC: Norco, LA
Recycling of Gums Waste

Diamond Green Diesel is being awarded the ELP Large Business Achievement Award in Pollution Prevention. Diamond Green Diesel, LLC (Diamond) converts waste grease, animal fats, used cooking oils, and other plant and vegetable oils to produce green diesel, light ends gas, and LPG/naphtha. Gums waste is generated when raw materials are pretreated to remove contaminants that could foul the catalysts used to convert the raw materials to products. Diamond implemented a Pollution Prevention Program to decrease the amount of gums waste disposed of in landfills/landfills. In 2017, 46 percent of the gums waste produced at the Green Diesel Plant (13,832 tons) were sent to Plaquemines Processing and Recovery (PPR) for recycling. Via a 3-phase centrifuge process, PPR was able to recover approximately 90 percent of the gums waste they received from the Green Diesel Plant as recycled biofuel oil or clean water. The

remaining 10 percent of the gums waste was sent by PPR to landfill in solid cake form. Together, they reduced the amount of waste sent to landfarm or landfill by 12,444 tons in 2017. PPR is expanding the capacity of their upstream centrifuge process and wastewater treatment facility so that they can handle more gums waste from the Green Diesel Plant. Waste reduction quantities are expected to increase as both facilities expand. Furthermore, there is an added environmental benefit from reduced truck travel (larger trucks/fewer trips, and shorter distances per trip).

LafargeHolcim: Hammond, LA
Carbon Dioxide Water Treatment

LafargeHolcim is being awarded the ELP Large Business Achievement Award in Pollution Prevention. It is typical of concrete production plants for process water to contain high levels of Total Suspended Solids (TSS) and high pH due to the presence of cement powder. In 2016 LafargeHolcim discovered a new, safer water treatment system which injected carbon dioxide instead of sulfuric acid to not only lower pH, but also weigh solids down and allow them to drop out of suspension. LafargeHolcim reports that all water samples have exceeded discharge monitoring requirements, and have done so without using dangerous sulfuric acid. By using carbon dioxide instead of sulfuric acid, LafargeHolcim has reduced risk by eliminating the potential for spills to the environment and safety risks to employees who handle the acid. The carbon dioxide is filled by NuCO2 using a telemetric system which allows them to know exactly how much carbon dioxide is left in the system and when they need to refill the tank. Unlike the sulfuric acid tote which needs to be disposed of frequently to ensure integrity, the carbon dioxide tank is reused which helps keep material out of landfills.

The effectiveness of the project is measured through analytical analysis of total suspended solids and pH. A typical range of Total Suspended Solids in process water contained onsite would be greater than 100 mg/L and would have a pH near 11. No process water is allowed to discharge from the site unless the pH is between 6 and 9 standard units and the TSS is under 45 mg/L. By utilizing the Fortrans Carbon Dioxide water treatment system, LafargeHolcim has not exceeded any regulatory limits.

Jefferson Parish: Elmwood, LA
Sewer Science Educational Program

Jefferson Parish is being awarded the ELP Municipality Achievement Award in Community Environmental Outreach. The goal of the Educational Sewer Science Workshops Program is to educate area high school students about the water treatment process using an inter-disciplinary microbiology, chemistry, physics, and environmental curriculum designed to stress the importance of pollution prevention in high school students. Over the 5-7 days of the lab, students make wastewater, clean it through a series of physical, chemical, and biological treatment processes, and test it for various parameters. The success of the project is measured by an increased public awareness of the environmental consequences related to specific activities that contribute to storm water pollution. The project provides a fundamental understanding of critical water infrastructure to young people on the cusp of adulthood. The knowledge students gain through the program will stay with them when they enter college, begin voting, and start businesses. Given the identified need for more STEM programs in schools and an ongoing national dialogue about infrastructure, the High School Sewer Science program is particularly relevant for students in this region. Last year Jefferson Parish worked with four high schools including approximately 100 students and 5 science educators. The great part though is that we managed to get enough funding through a grant to produce both teacher and student manuals to last at least the next 15 years including outreach educational material for the entire community.

Louisiana State University Campus Sustainability: Baton Rouge, LA
LSU Bike Month, LSU Electronics Waste Recycling Event, and Spring Greening Day & Sustainability Expo

LSU Campus Sustainability is being awarded the ELP University Achievement Award in Pollution Prevention for three projects. LSU held its first-ever Bike Month in November 2017 to encourage alternative transportation and reduce greenhouse gas emissions. LSU Bike Month included a month-long competition for students who won prizes based on the total number of miles biked. Each student reported their biked miles on social media using the hashtag #LSUBikeMonth, and the Campus Sustainability office created a database of each student and all biked miles. Bike Month also included a photo scavenger hunt with prizes for students who biked to various locations; two bicycle safety/maintenance classes sponsored by the LSU Police Department and Bike Baton Rouge; a bike sale and auction in partnership with Student Government and LSU Parking and Transportation; and promotion of the annual Bike Baton Rouge “Cranksgiving” day ride, which challenges bikers to collect and deliver groceries to the Greater Baton Rouge Food Bank. LSU Bike Month was a great success with more than 100 students actively participating, resulting in over 2,000 biked miles in/around the University in the month of November. This resulted in the avoidance of 101,000 pounds of carbon dioxide, or 51 tons. This is the equivalent of taking 11 passenger vehicles off the road for a year, and the equivalent of burning 5,700 gallons of gasoline.

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LSU partnered with CACRC and LSU Property Management in February 2017 to divert 4.2 tons of electronic waste from the landfill. Examples of items collected include old computers, printers, fax machines, CDs, phones, servers, etc. LSU plans to hold one of these events each semester for the surrounding community to be able to conveniently recycle used electronics and to ensure they do not end up in the landfill. The 4.2 tons of materials collected in total for this event has a greenhouse gas emissions equivalent of removing nearly 17 passenger vehicles from the road for one year, and powering 25 homes for one year with electricity.

LSU held a Spring Greening Day & Sustainability Expo in April 2017. Students, staff and faculty volunteers planted more than 50,000 individual plants in various areas around campus. Plants, mulch and supplies were made possible by sponsors including BASF, LSU Student Government, and Landscape Services. This day provided students the unique opportunity to serve alongside staff and administrators and learn sound environmental practices, while allowing the university to maximize landscaping resources in a creative way. The Sustainability Expo featured organizations such as BREC Conservation, BASF, Bike Baton Rouge, Entergy, Republic Services, CACRC, Louisiana Green Schools, TULIPA, and various LSU student groups, all of whom shared information related to their programs as well as tips on how to live and work more sustainably.

Compost NOW (New Orleans Waste): New Orleans, LA
Compost NOW Food Waste Collection Program

Compost NOW is being awarded the ELP Non-Governmental Organization Achievement Award in Community Environmental Outreach. Compost NOW offers local residents a free and easy way to keep their food waste out of the landfills and turned into nutrient-rich compost used by local farmers to grow fresh, healthy food. Compost NOW partners with the New Orleans Public Library and several local farms. Compost NOW piloted the weekly project in January 2017 at just two libraries sites. By the end of the first year, Compost NOW was at five sites and had collected over 35,000 pounds of food waste from local residents. In their second year, Compost NOW has already expanded to seven library sites and added a partnering farm which has farm animals to feed. Compost NOW collects over three tons each month and their goal is to divert 100,000 pounds of food waste from the landfill this year.



Regional Offices

In addition to the headquarters office in downtown Baton Rouge, LDEQ maintains a regional office in each major metropolitan areas in Louisiana – all serving the complete environmental protection needs in each of the state’s 64 parishes.

Their duties include permit support assistance as well as environmental assessment (air, water, remediation and underground storage tanks) and environmental compliance (enforcement, surveillance and emergency response) functions.

Contact Information and Parishes Served



Acadiana Regional Office

111 New Center Drive, Lafayette, LA 70508 – (337) 262-5584

Parishes served: Acadia, Avoyelles, Catahoula, Concordia, Evangeline, Grant, Iberia, Lafayette, LaSalle, Rapides, St. Landry, St. Mary, Vermilion



Bayou Lafourche Office

110 Barataria Street, Lockport, LA. 70734 – (985) 532-6206

Services same parishes as Southeast Regional Office



Capital Regional Office

602 N. 5th St., Baton Rouge, LA 70802. – (225) 219-3600

Parishes served: Ascension, Assumption, East Baton Rouge, East Feliciana, Iberville, Livingston, Pointe Coupee, St. Helena, St. James, St. Martin, Tangipahoa, West Baton Rouge, West Feliciana



Kisatchie Central Office

2129 Rainbow Drive, Pineville, LA 71360 – (318) 487-5656

Services same parishes as Acadiana Regional Office

Environmental scientists based in the regional offices are tasked with wearing many hats as they may be called out to investigate a solid waste, air or water discharge incident on any given day. They must also be well-versed in conducting initial investigations on emergency response calls, including illegal dumping, open burning and assisting with criminal investigations.

Six regional offices and two substations (Pineville, outside Alexandria; and Bayou Lafourche in Lockport) serve Louisiana’s major metropolitan areas:



Northeast Regional Office

508 Downing Pines Road, West Monroe, LA 71292 – (318) 363-5439

Parishes served: Caldwell, East Carroll, Franklin, Jackson, Lincoln, Madison, Morehouse, Ouachita, Richland, Tensas, Union, West Carroll, Winn



Northwest Regional Office

1525 Fairfield, Room 520, Shreveport, LA 71101 – (318) 676-7476

Parishes served: Bienville, Bossier, Caddo, Claiborne, De Soto, Natchitoches, Red River, Sabine, Webster



Southeast Regional Office

201 Evans Road, Bldg 4, Ste 420, New Orleans, LA 70123 – (504) 736-7701

Parishes served: Jefferson, Lafourche, Orleans, Plaquemines, St. Bernard, St. John the Baptist, St. Charles, St. Tammany, Terrebonne, Washington



Southwest Regional Office

1301 Gadwall St., Lake Charles, LA 70615 – (337) 491-2667

Parishes served: Allen, Beauregard, Calcasieu, Cameron, Jefferson Davis, Vernon



LDEQ Throughout The Year



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Office Of The Secretary

COMMUNICATIONS	
Emergency Declarations	7
PRESS RELEASES	16
DISCOVER DEQ E-NEWSLETTERS	12
PRESS MENTIONS	4,322
ENVIROFLASH SUBSCRIBERS	2,889
SOCIAL MEDIA MENTIONS	1,436
TWITTER FOLLOWERS	463
FACEBOOK FOLLOWERS	709
VIDEOS PRODUCED	9
GRAPHICS	134
WEBSITE VIEWS	252,589

LEGAL AND REGULATION DEVELOPMENT	
COURT APPEARANCES	250
PLEADINGS PREPARED	65
LEGAL CONSULTATIONS	55,000
PUBLIC HEARINGS	21
COOPERATIVE AND SETTLEMENT AGREEMENTS NEGOTIATED	47
ETHICS CONSULTATIONS	150
REGULATION PACKAGES PREPARED AND REVIEWED	52
ENFORCEMENT ACTIONS REVIEWED	584
FEES AND PENALTIES COLLECTED	\$1,696,741.05

CRIMINAL INVESTIGATION DIVISION	
NUMBER OF LEADS RECEIVED	76
NUMBER OF CASES OPENED	23
NUMBER OF CRIMINAL/ADMINISTRATIVE ASSISTS	50 (124.75 HOURS)
NUMBER OF OUTREACH ACITIVITIES	62 (161 HOURS)
NUMBER OF CRIMINAL CASES REFERRED TO DA	13
NUMBER OF DEFENDANTS SENTENCED	8
JAIL TIME	0 MONTHS
PROBATION TIME	42 MONTHS
CRIMINAL FINES	\$1,680.00
RESTITUTION	\$3,560.00
COST OF INVESTIGATION	\$2,350.00

ENVIRONMENTAL LEADERSHIP PROGRAM MEMBERS	
BUSINESSES	119
FEDERAL FACILITIES	5
MUNICIPALITIES	55
ACADEMIA	45
NON-GOV'T ORGS	14
TOTAL MEMBERS	238

ENVIROSCHOOL	
NUMBER OF PARTICIPANTS	385
NUMBER OF SESSIONS	6
NUMBER OF TOPICS	6
NUMBER OF INSTRUCTORS	13

SMALL BUSINESS/SMALL COMMUNITY ASSISTANCE PROGRAM REGULATORY COMPLIANCE ASSISTANCE		
COMPLIANCE ASSISTANCE	1,819	PROVIDE ASSISTANCE TO LOCAL COMMUNITY, MUNICIPALITIES AND NEW AND EXISTING SMALL BUSINESSES TO UNDERSTAND THE REGULATORY PROCESS, ENSURE COMPLIANCE WITH ENVIRONMENTAL REGULATIONS AND REMAIN VIABLE AND PRODUCTIVE ECONOMIC DEVELOPMENT ENGINES THAT DRIVE LOUISIANA'S ECONOMY, DETERMINE REGULATORY COMPLIANCE, AND HOW REGULATIONS AFFECT A BUSINESS OR COMMUNITY, ASSIST WITH KNOWLEDGE AND COMPLIANCE OF MULTI-MEDIA REGULATIONS, PERMITS AND PLANS.
PERMITS ASSISTANCE	1,371	PROVIDE ASSISTANCE TO SMALL BUSINESSES AND COMMUNITIES WITH PREPARATION OF PERMIT APPLICATIONS, REPORTS, REGISTRATIONS, PLANS AND REGULATORY DOCUMENTS. CONTACT NEWLY PERMITTED FACILITIES TO PROVIDE ORIENTATION OF COMPLYING WITH PROVISIONS OF PERMIT.
CORRESPONDENCE SENT	1,189	PROVIDE THE INFORMATION ON ENVIRONMENTAL REGULATION TO SMALL BUSINESSES AND COMMUNITIES PER REQUEST.
WORKSHOPS/SEMINARS	86	PARTICIPATE IN OR ORGANIZE EDUCATIONAL WORKSHOPS/SEMINARS IN CONJUNCTION WITH LOCAL GOVERNMENT, ENVIRONMENTAL GROUPS, LDEQ OPERATIONAL GROUPS, AND SMALL BUSINESS ASSISTANCE PARTNERS (E.G., LRWA, LMA, LPJA, LSU).

Office Of Environmental Assessment

CLEAN WATER STATE REVOLVING FUND PERFORMANCE DATA	
VALUE OF LOANS SINCE INCEPTION (1990) TO FY2017	\$1,144,461,390.79
NUMBER OF LOANS SINCE INCEPTION (1990) TO FY2017	239
VALUE OF LOANS CLOSED IN FY2017	\$88,066,900
NUMBER OF LOANS CLOSED IN FY2017	14

NONPOINT SOURCE AND SURFACE WATER/AQUIFER PROTECTION	
SOURCE WATER ASSESSMENT	COLLECTED GPS DATA FOR APPROXIMATELY 111 WATER SYSTEMS WHICH INCLUDED LOCATIONS FOR 38 POTENTIAL SOURCES OF CONTAMINATION AND 24 WATER WELLS AND 1 INTAKE
SOURCE WATER/WELLHEAD PROTECTION	PROTECTION STRATEGIES AND CONTINGENCY PLANS IMPLEMENTED FOR 111 WATER SYSTEMS; APPROXIMATELY 2,000 PEOPLE EDUCATED ON DRINKING WATER SOURCE PROTECTION; DISTRIBUTED 80 DRINKING WATER PROTECTION HIGHWAY SIGNS; 103 POTENTIAL SOURCES OF CONTAMINATION EDUCATED ON BEST MANAGEMENT PRACTICES; 13 ORDINANCES WORKED ON; ESTABLISHED AND WORKED WITH 2 SOURCE WATER PROTECTION COMMITTEES WITH A TOTAL OF 35 VOLUNTEERS IN 2 PARISHES; 3 SOURCE WATER PROTECTION VIDEOS DISTRIBUTED; 15 AQUIFER RECHARGE MAPS DISTRIBUTED
AQUIFER SAMPLING AND ASSESSMENT PROGRAM	59 WATER WELLS SAMPLED THAT PRODUCE WATER FROM THE WILLIAMSON CREEK, CHICOT EQUIVALENT, EVANGELINE EQUIVALENT, AND JASPER EQUIVALENT AQUIFERS
LOUISIANA NONPOINT SOURCE (NPS) MANAGEMENT PROGRAM	MANAGED 23 PROJECTS ON AVERAGE, DEVELOPED 319 NPS WORK PLANS FOR 1.9 MILLION, SUPPORTED 11 ACTIVE CONTRACTS WITH WATERSHED COORDINATORS/WATERSHED SUPPORT GROUPS FOR STATE OF LOUISIANA. DEVELOPED/REVISED 7 WATERSHED IMPLEMENTATION PLANS AND PARTICIPATED IN 14 EDUCATION AND OUTREACH EVENTS AND REACHED APPROXIMATELY 2,600 PEOPLE.

WATER QUALITY	
TOTAL MAXIMUM DAILY LOAD (TMDL) AND WATER QUALITY MODELING	UPDATED THE FINAL RESTORATION PLAN FOR FECAL COLIFORM IN TUNICA BAYOU (070505) BASED ON COMMENTS FROM EPA. COMPLETED A SAMPLING PLAN FOR YELLOW WATER RIVER (040504) AND BEGAN SAMPLING ACTIVITIES. BEGAN DEVELOPMENT OF SAMPLING PLAN FOR NATALBANY RIVER (040503). CONTINUED EFFORTS TO REVISE DISSOLVED OXYGEN AND NUTRIENT TMDLS FOR SUBSEGMENT 040201 AND 040303. CONDUCTED 4 IMPACT EVALUATIONS FOR NEW OR EXPANDING DISCHARGES INTO OUTSTANDING NATURAL RESOURCE WATERS. EVALUATED AND PROVIDED RECOMMENDATIONS FOR 35 SURFACE WATER WITHDRAWAL APPLICATIONS ALONG WITH LDNR AND LDWF. PROVIDED RECEIVING STREAM CHARACTERISTICS FOR 95 WATER DISCHARGE PERMITS.

Office Of Environmental Assessment

AIR QUALITY ASSESSMENT	
AIR QUALITY MONITORING NETWORK	<p>DEQ OPERATES 42 AMBIENT (NEIGHBORHOOD) MONITORING SITES. THESE SITES EMPLOY A VARIETY OF CONTINUOUSLY OPERATING MONITORS WHICH SAMPLE 24 HOURS PER DAY, SEVEN DAYS PER WEEK.</p> <p>ON AVERAGE, 124 MONITORS ARE OPERATING AT ANY GIVEN TIME, 84 OF WHICH OPERATE CONTIOUSLY AND THE REMAINING 40 OPERATE ON SET SCHEDULES</p> <p>LOUISIANA ALSO HAS 4 SPECIAL MONITORING SITES – LIGHTHOUSE, MARRERO, ST. ROSE AND SOUTHERN UNIVERSITY. THESE SITES HOUSE 15 ADDITIONAL MONITORS THAT ARE USED FOR SPECIAL STUDIES AND PROJECTS</p>
VOLATILE ORGANIC COMPOUNDS (VOCs)	18 SITES COLLECT ABOUT 4,100 CANISTERS PER YEAR WITH 16 SITES SAMPLING WHEN CONTIOUS MONITORS DETECT A PRE-DETERMINED CONCENTRATION FOR A GIVEN PERIOD OF TIME FOR AN ADDITIONAL 200 CANISTERS PER YEAR. EACH CANISTER IS ANALYZED FOR ABOUT 60 INDIVIDUAL COMPOUNDS WITH MANY RECEIVING TWO SEPARATE ANALYSIS.
OXIDES OF NITROGEN (NOX)	9 MONITORS (6 IN THE BATON ROUGE AREA). NOX COMBINES WITH VOCs TO FORM OZONE.
OZONE	22 MONITORS (10 IN THE BATON ROUGE AREA)
SULFUR DIOXIDE (SO₂)	13 MONITORS (5 IN THE BATON ROUGE AREA)
CARBON MONOXIDE (CO)	2 MONITORS (1 IN THE BATON ROUGE AREA)
LEAD (PB)	3 MONITORS, SAMPLES COLLECTED AND ANALYZED EVERY SIX DAYS
PARTICULATE MATTER 10 (PM10)	5 MONITORS
PARTICULATE MATTER 2.5 (PM2.5)	28 MONITORS STATEWIDE. 10 OF WHICH OPERATE CONTIOUSLY AND 18 THAT COLLECT SAMPLES ON A TIMED SCHEDULE

REMEDIAL SERVICES	
PRELIMINARY EVALUATION ASSESSMENT (PEA)	4
INVESTIGATION WORK PLANS	109
INV AND CA IMPLEMENTATION REPORTS	59
CA WORK PLANS	86
MONITORING REPORTS	623
EVALUATED & CLOSED SITES	175
VRP COMPLETION	4
PERMIT APPLICATION REVIEWS	20
TECHNICAL ASSISTANCE REVIEWS	27
INSPECTIONS	501
OTHER TEMPO TASKS	229

UNDERGROUND STORAGE TANK	
INVESTIGATION WORK PLANS	119
INV AND CA IMPLEMENTATION REPORTS	40
CA WORK PLANS	78
UST COST ESTIMATES	15
MONITORING REPORTS	272
NO FURTHER ACTION	67
NO FURTHER INTEREST	63
VRP COMPLETION	0
INSPECTIONS	1,045
NON-TEMPO DEFINED TASKS	37
UST SUPPORT	
RECEIVED APPLICATION	617
ADMINISTRATIVELY/TECHNICALLY REVIEWED	521
ISSUE ANNUAL TANK CERTIFICATE	4,151
CREATE ASSESSMENT	69
ISSUE NOTICE OF DEFICIENCY	110
ISSUE CORRECTED DEFICIENCY	191
ISSUE DEFICIENCY CLEAR	234
ISSUE NOTICE OF POTENTIAL DELIVERY PROHIBITION	42
SUBMITTED FOR CIRCUIT RIDER REVIEW	57
FORWARD TO ENFORCEMENT	69

Office Of Environmental Compliance

SURVEILLANCE: INCIDENTS	
ACADIANA REGION	813
CAPITAL REGION	1,634
NORTHEAST REGION	454
NORTHWEST REGION	459
SOUTHEAST REGION	1,532
SOUTHWEST REGION	371
TOTAL	5,263

SURVEILLANCE: INSPECTIONS	
ACADIANA REGION	649
CAPITAL REGION	792
NORTHEAST REGION	263
NORTHWEST REGION	298
SOUTHEAST REGION	925
SOUTHWEST REGION	310
TOTAL	3,237

ENFORCEMENT: TOTAL ACTIONS ISSUED	
AIR	319
HAZARDOUS WASTE	114
MSE	0
RADIATION	264
SOLID	496
UST	227
WATER	437
TOTAL NUMBER OF ENFORCEMENT ACTIONS	1,857
PENALTY ASSESSMENTS	13
EXPEDITED PENALTY AGREEMENT AND NOTICE OF POTENTIAL PENALTY	218
TOTAL PENALTY AMOUNT ASSESSED	\$360,539.14
SETTLEMENTS/ AGREEMENTS	45
TOTAL SETTLEMENT AGREEMENTS	\$1,198,961.77
TOTAL BEP VALUE	\$992,136.28
UST COMPLIANCE SCHOOL	N/A
SWAT COMPLIANCE SCHOOL	41 ATTENDED

RADIATION SURVEILLANCE INSPECTIONS:	
X-RAY	1,048
RAM	315
MAMOMOGRAPHY	140

RADIATIONS LICENSE SERVICES	
RAM LICENSES	351
REGISTRATIONS	883
CERTIFICATIONS	766
INDUSTRIAL RADIOGRAPHY TESTS ADMINISTERED	636
TESTS PASSED	414
TESTS ORDERED AND PAID FOR	759

ENFORCEMENT: DISCHARGE MONITORING REPORTS (DMRS)		
DMRS RECEIVED	# DMRS	# PAGES
INDIVIDUAL PERMITS MAJORS	11,926	52,799
INDIVIDUAL PERMITS NON MAJORS	20,081	55,823
GENERAL-NON STORMWATER PERMITS	51,947	115,363
STORMWATER PERMITS (NON CONSTRUCTION)	538	1,708
STORMWATER PERMITS (CONSTRUCTION)	49	101
UNPERMITTED FACILITIES	94	282
TOTAL	84,635	226,076
DMRS RECEIVED VIA NETDMR	# DMRS	# PAGES
INDIVIDUAL PERMITS MAJORS	11,840	52,011
INDIVIDUAL PERMITS NON MAJORS	18,088	49,789
GENERAL-NON STORMWATER PERMITS	42,463	95,189
STORMWATER PERMITS (NON CONSTRUCTION)	278	768
STORMWATER PERMITS (CONSTRUCTION)	48	96
TOTAL	72,717	197,853

EMERGENCY RESPONSE (ER STAFF ONLY)	
SPILLS	924
COMPLAINTS	83

SINGLE POINT OF CONTACT (SPOC)	
SPILLS PROCESSED	3,867
COMPLAINTS PROCESSED	2,962
WRITTEN NOTIFICATION PROCESSED	1,710

Office Of Environmental Services

PUBLIC PARTICIPATION GROUP	
PUBLIC COMMENTS RECEIVED	211
PUBLIC HEARINGS CONDUCTED	12
PUBLIC NOTICES MAILED OUT (HARD COPIES)	80,651
PUBLIC NOTICES PUBLISHED	512
SUBSCRIBERS TO E-MAIL PUBLIC NOTICE SERVICE	2,318
SUBSCRIBERS TO MAIL-OUT PUBLIC NOTICE SERVICE	1,974

PERMIT APPLICATIONS ADMINISTRATIVE REVIEW	
TOTAL APPLICATIONS PROCESSED (AIR, WATER, SOLID WASTE, HAZARDOUS WASTE, BIOSOLIDS & NOCS)	4,537
- AIR	1,877
- WATER	1,858
- SOLID WASTE	161
- HAZARDOUS WASTE	93
- BIOSOLIDS	9
- NAME/OWNERSHIP/OPERATOR CHANGES (NOCS) PROCESSED FOR FINAL DECISION (MULTI-MEDIA)	539
EXPEDITED PERMIT REQUESTS PROCESSED	288

TEMPO SUPPORT GROUP	
CONDUCT CHANGE REQUESTS	6,465
CREATE NEW MASTER FILES (AIS)	9,037
REQUIREMENTS LOADED INTO TEMPO	917
SYSTEM SERVICE REQUESTS COMPLETED	178
TEMPO SECURITY REQUESTS COMPLETED	347

SOLID WASTE	
GENERATORS (INDUSTRIAL) REGISTERED (IN YEAR)	26
GENERATORS (INDUSTRIAL) REGISTERED (TOTAL)	2,040
LANDFILL OPERATORS CERTIFIED	127
SEWAGE SLUDGE HAULER APPLICATIONS PROCESSED	329
TRANSPORTERS REGISTERED (IN YEAR)	43
TRANSPORTERS REGISTERED (TOTAL)	2,503

LEAD	
ACCREDITATIONS ISSUED (FORM LPF-1)	466
LICENSED CONTRACTORS RECOGNIZED	108
PROJECT NOTIFICATIONS PROCESSED (FORM LPF-3)	57
TRAINERS RECOGNIZED	20
TRAINING PROVIDERS RECOGNIZED	8

LABORATORY ACCREDITATION	
IN-STATE LABORATORIES ACCREDITED (NEW)	1
IN-STATE LABORATORIES ACCREDITED (TOTAL)	49
IN-STATE LABORATORIES AUDITED	22
OUT-OF-STATE LABORATORIES ACCREDITED (NEW)	7
OUT-OF-STATE LABORATORIES ACCREDITED (TOTAL)	155
OUT-OF-STATE LABORATORIES AUDITED*	42
*PERFORMED BY CONTRACTORS	

HAZARDOUS WASTE	
ANNUAL REPORTING REPORTS PROCESSED	547
GENERATORS DELISTED	NA
GENERATORS REGISTERED (IN YEAR)	644
GENERATORS REGISTERED (TOTAL)	15,925
HAZARDOUS WASTE GENERATED BY LARGE QUANTITY GENERATORS (TONS)	5,323,161.9
TRANSPORTERS REGISTERED (IN YEAR)	14
TRANSPORTERS REGISTERED (TOTAL)	709
POLLUTION CONTROL EXEMPTION DETERMINATIONS COMPLETED (PER ACT 910)	0
No. of stack test reviews completed	209

Office Of Environmental Services

ASBESTOS	
ASBESTOS RENO/DEMO NOTIFICATION FORMS (FORM AAC-2)	1,426
ASBESTOS DISPOSAL VERIFICATION FORMS ISSUED (ADVFS)	2,614
REGULATED ASBESTOS DISPOSED IN LA LANDFILLS (CU YDS)	32,244.6
TOTAL ASBESTOS ACCREDITATION WORK PRODUCTS COMPLETED (FORMS AAC-1, AAC-3, & AAC-4)	2,902
-ACCREDITATION (FORM AAC-1)	2,757
-TRAINING PROVIDER RECOGNITION (FORM AAC-3)	31
-TRAINER RECOGNITION (FORM AAC-4)	114
ASBESTOS MANAGEMENT PLAN ACTIVITIES COMPLETED	53

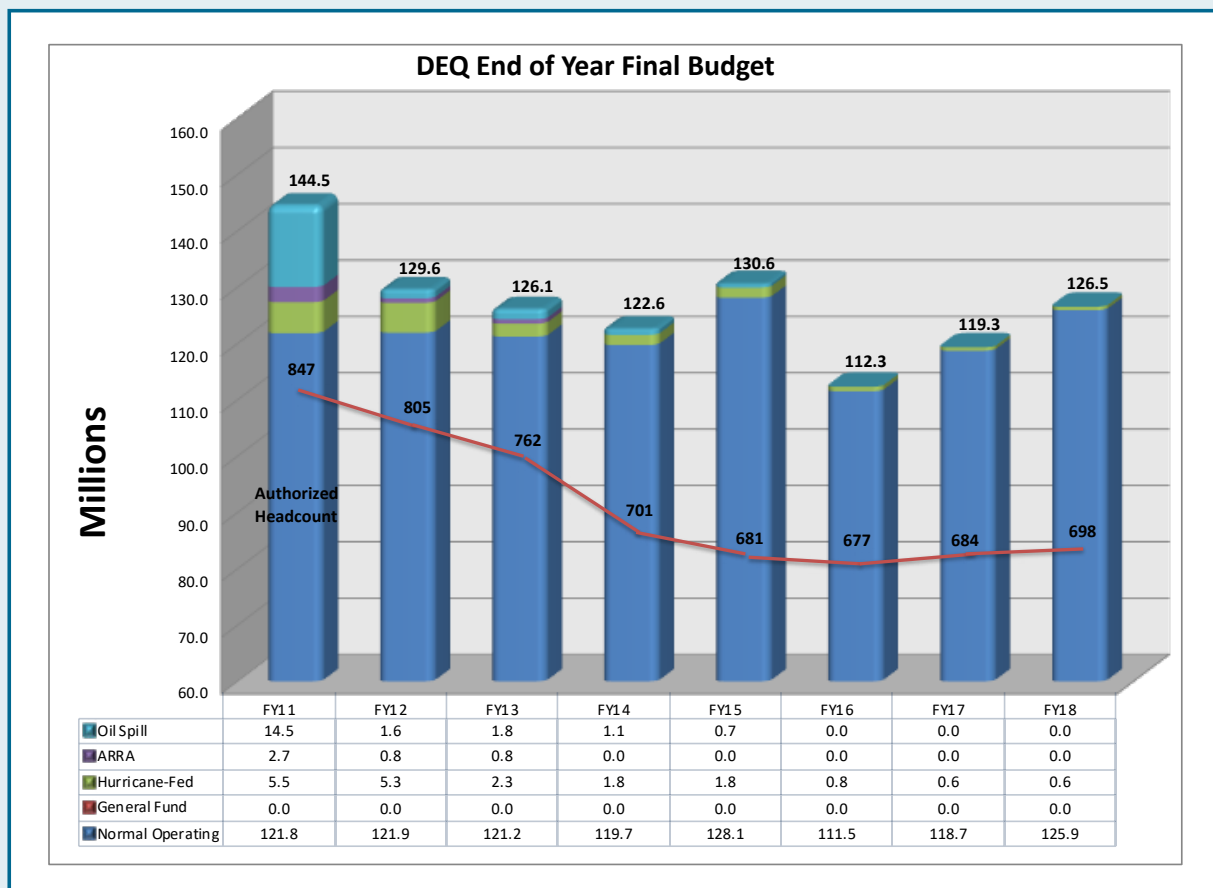
PERMIT DECISIONS ISSUED	
AIR QUALITY PERMITS DIVISION WORK PRODUCTS COMPLETED	2,046
SOLID WASTE WORK PRODUCTS COMPLETED	291
TREATMENT, STORAGE, & DISPOSAL (HAZARDOUS WASTE) WORK PRODUCTS COMPLETED	130
INDIVIDUAL WATER QUALITY PERMIT ACTIONS ISSUED, INCLUDING MASTER GENERALS	365
GENERAL WATER QUALITY PERMIT ACTIONS ISSUED, INCLUDING STORMWATER	6,261
NAME/OWNERSHIP/OPERATOR CHANGES COMPLETED (FINAL DECISION) (MULTI-MEDIA)	544



Office Of Management And Finance

RECORDS MANAGEMENT	
PUBLIC RECORD REQUEST FILLED PER YEAR	1,046
PAGES PROVIDED TO PUBLIC PER YEAR	4,438
COPY FEES COLLECTED PER YEAR	267.22
PAGES SCANNED PER YEAR	2,580,664
AVERAGE EDMS WEBSITE HITS PER MONTH	110,489
DOCUMENTS SUPPORTED BY EDMS	6,355,271

FY18 ACTUAL EXPENDITURES						
EXPENDITURE CATEGORY	OFFICE OF THE SECRETARY	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL SERVICES	MANAGEMENT AND FINANCE	ENVIRONMENTAL ASSESSMENT	DEQ TOTAL
SALARIES	4,693,350	12,447,428	9,465,615	2,845,128	10,056,401	39,507,922
OTHER COMPENSATION	30,378	151,136	6,667	394,009	19,617	601,807
RELATED BENEFITS	2,120,732	6,023,882	4,252,637	4,783,675	4,817,709	21,998,635
TRAVEL & TRAINING	58,845	121,654	41,256	10,823	78,211	310,789
OPERATING SERVICES	107,986	840,199	26,895	271,012	651,358	1,897,450
SUPPLIES	34,099	373,913	12,556	160,341	226,768	807,677
PROFESSIONAL SERVICES	4,910	1,129,601	0	1,536,598	338,818	3,009,927
OTHER CHARGES	0	138,260	115,712	24,521,069	4,027,713	28,802,754
ACQUISITIONS	24,812	729,119	24,812	0	1,308,787	2,087,530
IAT	137,746	89,370	45,929	10,310,089	457,429	11,040,563
TOTAL	7,212,858	22,044,562	13,992,079	44,832,744	21,982,811	110,065,054



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Small Business Assistance	P: 225.219.3954 F: 225.219.3971
Criminal Investigation Section	P: 225.219.3944 F: 225.219.3964
Emergency Response	P: 225.219.3640 F: 225.219.3695
Enforcement	P: 225.219.3715 F: 225.219.3708
Financial Services	P: 225.219.3863 F: 225.219.3868
Surveillance	P: 225.219.3505 F: 225.219.4083
Permit Support Services	P: 225.219.3241 F: 225-219-3309 F: 225-219-3310
Public Records	P: 225.219.5337 F: 225.219.3175
Radiological Services	P: 225.219.3634 F: 225.219.3154
Remediation Services	P: 225.219.3505 F: 225.219.3201
Underground Storage Tanks	P: 225.219.3201
Waste Permits	P: 225.219.3181 F: 225.219.3158
Water Permits	P: 225.219.3181 F: 225.219.3309
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Clean Water State Revolving Fund	P: 225.219.3956 F: 225.219.3971
Ombudsman	P: 225.219.3995
Communications/ Media Relations	P: 225.219.3964 F: 225.219.3971
Drinking Water Protection	P: 225.219.3510 F: 225.219.3971
Enviroschool	P: 225.219.0877 F: 225.219.3971
Louisiana Environmental Leadership Program	P: 225.219.0877 F: 225.219.3971
Mercury Initiative	P: 225.219.3189 F: 225.325.8104
Motor Vehicle Inspection & Maintenance	P: 225.219.3482 F: 225.325.8254
Nonpoint Source	P: 225.219.3510 F: 225.219.3971
Ozone Action Program	P: 225.219.3966 F: 225.219.3971
Public Participation	P: 225.219.3276 F: 225.219.3309
Radiological Services	P: 225.219.3634
Recycling	P: 225-219-3452 F: 225.219.3156
Small Business Assistance	P: 800.259.2890 P: 225.219.3954 F: 225.219.3971
Total Maximum Daily Load Program	P: 225.219.3217 F: 225.219.3582

Hotline Numbers

DEQ Customer Service Center	225.219.LDEQ(5337) Toll-Free 866.896.LDEQ
Single Point of Contact (SPOC)	225.219.3640 Toll-Free in Louisiana 888.763.5424
Beneficial Environmental Projects Hotline	225.219.3715
Illegal Dumping	225.219.3640 Toll-Free in Louisiana 888.763.5424
Mercury Information Hotline	800.305.6621
NiCad Battery Recycling Hotline	Toll-Free 800.822.8837 Toll-Free 800.BATTERY 225.219.3388
Recycling	Toll-Free (LA only) 800.305.6621
Used Oil Hotline	Toll-Free 800.305.6621

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