# Louisiana Department of Environmental Quality

Office of Environmental Assessment Underground Storage Tank Division

#### **Overview of UST Remediation Process**





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# What is an Underground Storage Tank?

An underground storage tank (UST) is a tank and connected underground piping having at least 10 percent of their combined volume underground.





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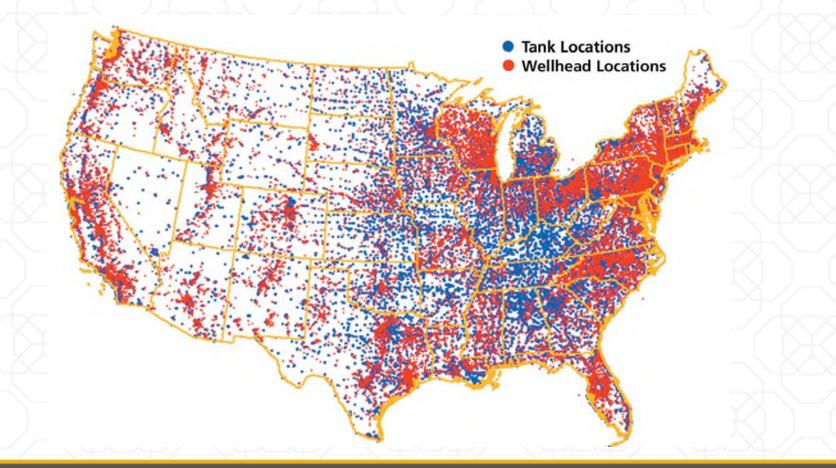
# Why a UST Program?







## Protect Groundwater

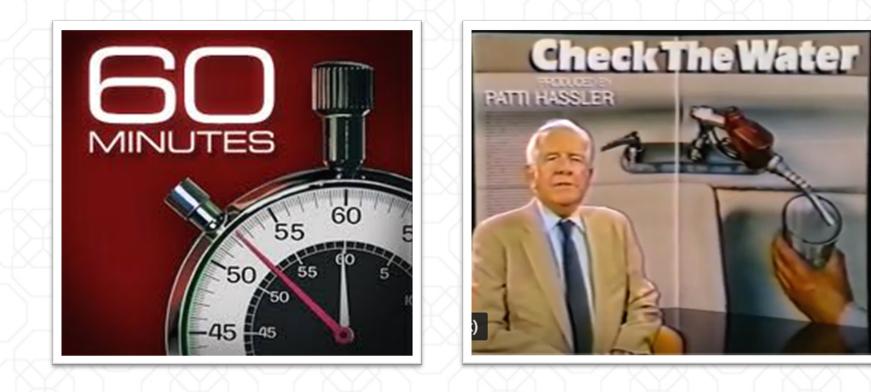




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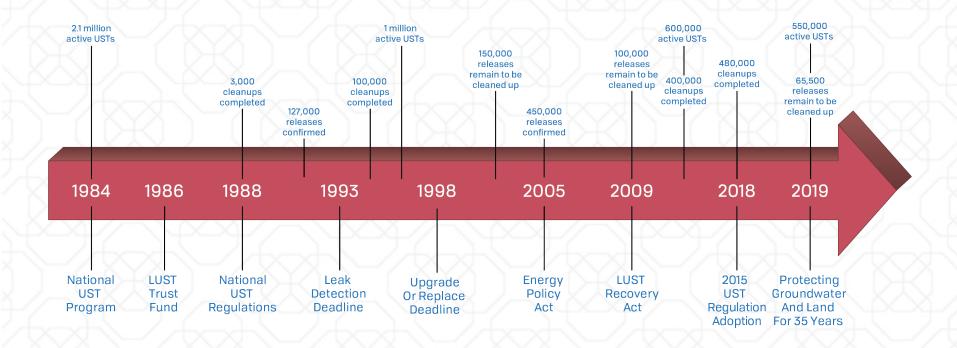
## Check the Water







## **Regulatory Timeline**

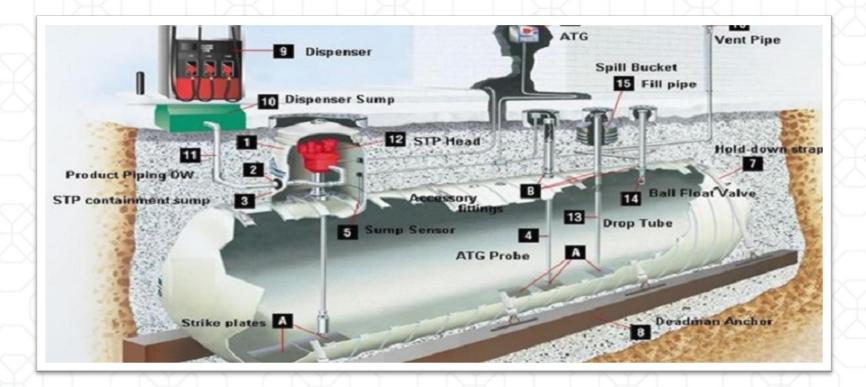




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# Modern UST System





# Louisiana UST Program

- Program Functions in three Offices
  - UST Division
    - Office of Environmental Assessment
  - UST Trust Fund
    - Office of Management and Finance
  - UST Enforcement
    - Office of Environmental Compliance

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# **UST** Division

- Underground Storage Tank Division (USTD)
  - Administrative
  - UST Prevention
  - UST Corrective Action
- Locations
  - Headquarters
  - 6 Main Regional offices
    - New Orleans, Monroe, and Shreveport

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Lafayette, Lake Charles, Baton Rouge





# **UST** Division

- Administrative
  - UST Reporting
  - UST Registration
  - UST CEI Processing
  - Energy Act of 2005 Compliance
  - UST Regulation Revisions
- Prevention
  - Compliance Evaluation Inspections (CEIs)
  - UST Certified Worker Program
  - Oversight and monitoring of UST installations, repairs, and testing of UST systems
  - Responding to UST-related incidents and complaints
  - Investigation, evaluation, and determination of causes of releases (confirmed release)
- Corrective Action
  - Corrective Action (Remediation) oversight
  - Review of work plans and reports for investigation, risk evaluation (RECAP), and corrective action

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- Direction and oversight of soil and groundwater assessment and remediation activities
- Determinations of No Further Action





# UST Corrective Action "Remediation"





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# **Release Confirmation**

- LDEQ SPOC Incident (Release) notification is received.
- LDEQ UST "Confirms Release"
- Incident is assigned a Team Leader to oversee Corrective Action.

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# What is a Confirmed Release?

Any contamination from a UST system to the environment that is evidenced by **free phase product** and/or concentrations above any **RECAP screening option standard** 

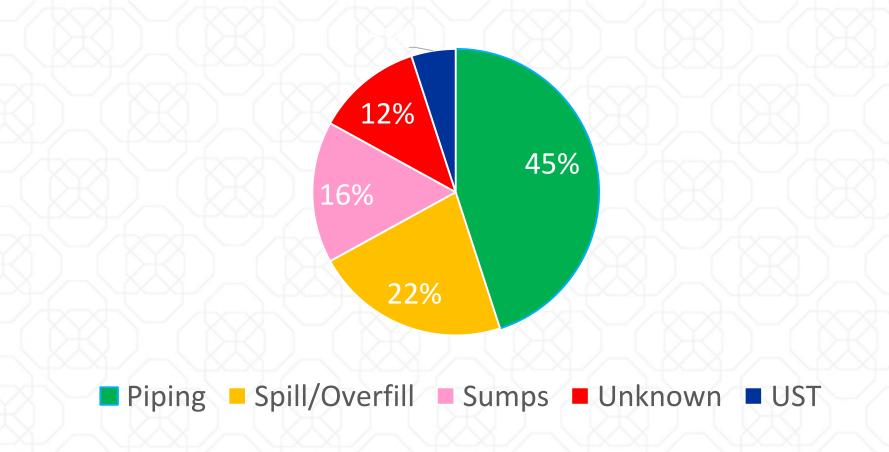






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### **Confirmed Releases Causes**







# **UST Remediation Process**

### Site Investigation/RECAP Evaluation

- RECAP, Appendix B. Site Investigation Requirements
- RECAP General Data and Format Requirements
- Site Specific Standards

### Corrective Action

- Presence of contamination at levels above the site-specific RECAP standards.
- viable and cost effective corrective action technologies are implemented to reduce concentration levels
- Remediation Oversight Group (ROG) approves most corrective action plans for sites that are eligible for the Motor Fuels Trust Fund.

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### Release Closure

 Contamination does not exceed or is reduced to the extent necessary to achieve the site-specific standards.





# **Technologies Used**

Investigation

- Direct push technology (DPT)
- Laser-Induced Fluorescence (LIF)
- Hollow stem augers well installation
- Peristaltic, bladder, and submersible pumps well purging and sampling
- Low-flow purging and sampling techniques

**Corrective Action** 

- Dual phase vapor extraction (DPVE)
- Ozone sparging
- Insitu Chemical Oxidation
- Groundwater Pump and Treat
- Excavation





# **UST Universe**

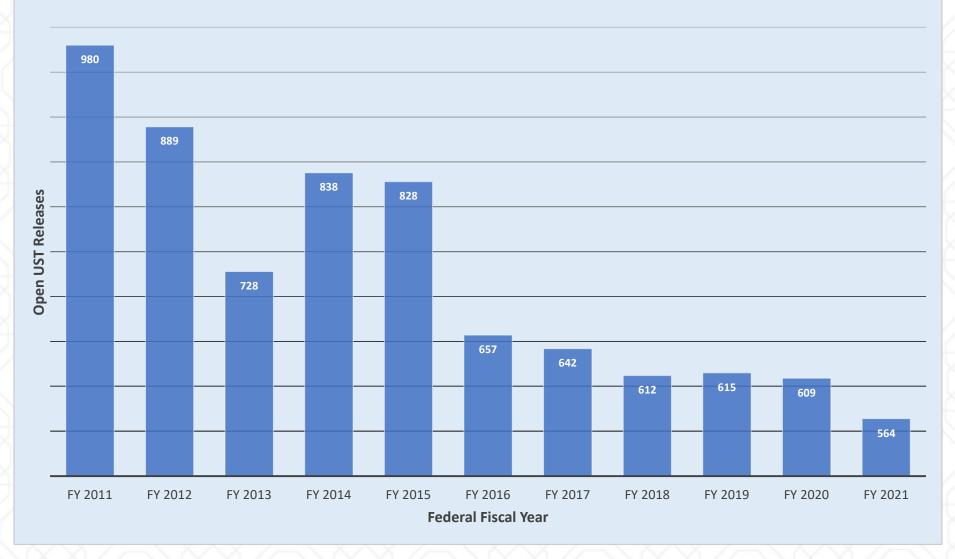
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- 10,117 Active USTs
- 37,261 Closed UST
- 3,824 Active Facilities
- 6,109 Confirmed releases
- 5,518 Cleanup completed
- 591 Active Confirmed releases
- 437 Facilities





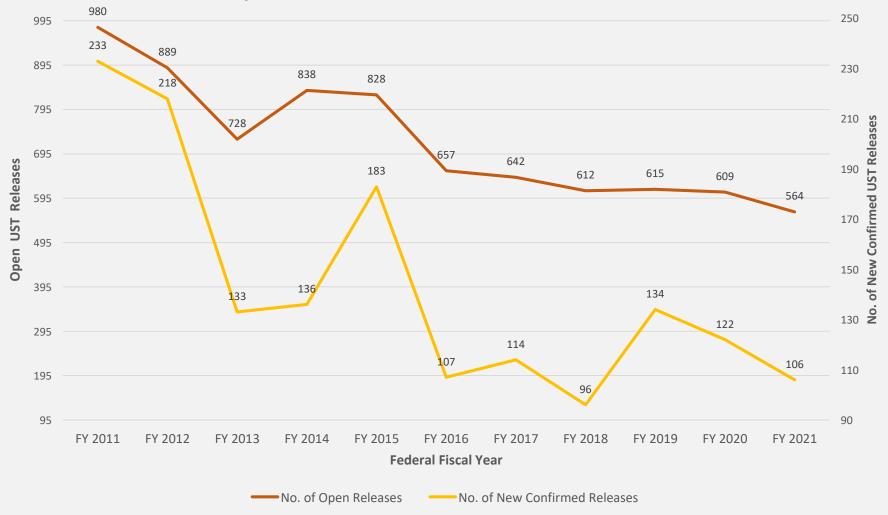
#### No. of Open Confirmed Releases in last 10 Federal Fiscal Years







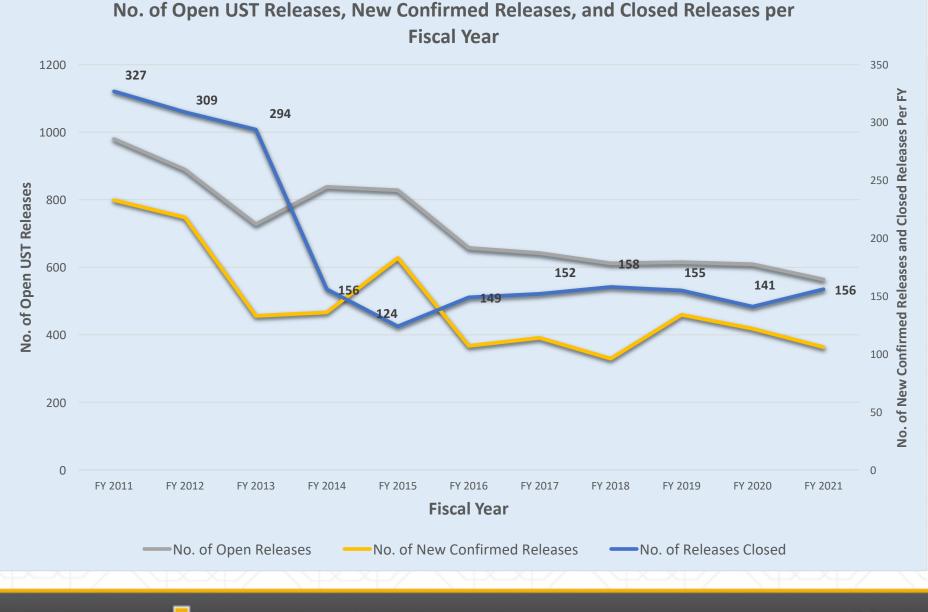
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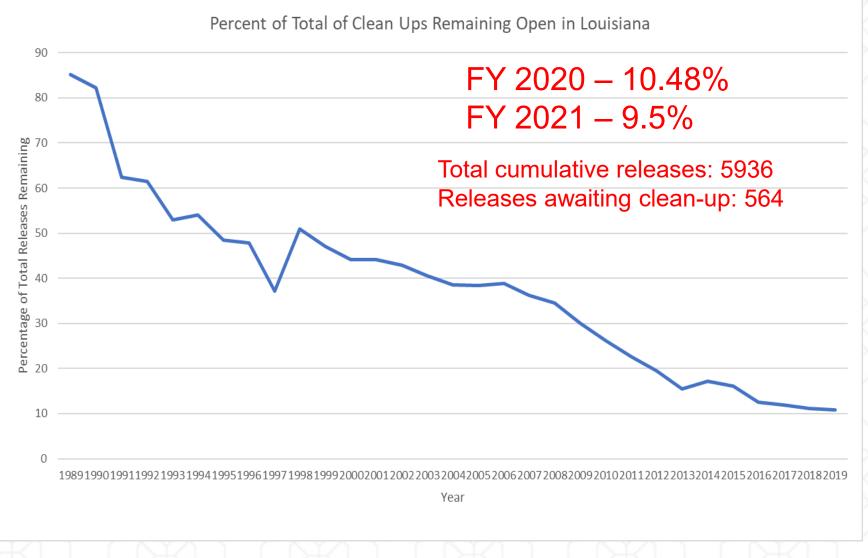
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Graph by Jessica Holland, LDEQ



# What are the costs?

- Average costs for site investigations \$90,000
- Estimated costs for sites with investigation and corrective action - \$400,000 – \$900,000







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# Who Pays?

- Financial Responsibilty (FR) Mechanisms:
  - Self-funded; Self-insured; Private Insurance
  - LA UST Motor Fuels Trust Fund (MFTF)
- EPA LUST Prevention Grant
- EPA LUST Corrective Action Grant
- Abandoned Tank Program (MFTF Ineligible)

   Interest monies from MFTF

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### Louisiana Motor Fuels Trust Fund

- Established by RS 30:2195 (Act 767) on July 15, 1988.
- Reimburses appropriate costs incurred during Corrective Action.

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Trust Fund pays up to \$1,500,000 per confirmed release





### Motor Fuels Trust Fund Funding Sources

New and Used Oil Storage tank fee

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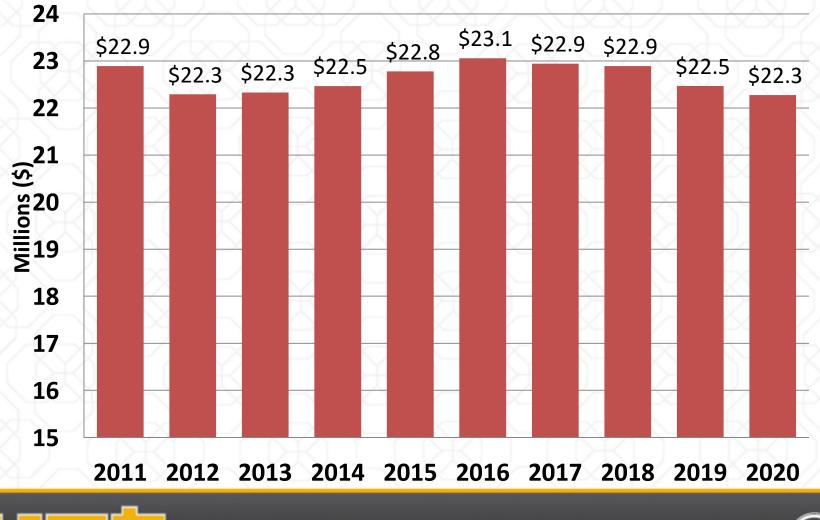
- Approximately \$ 27,000.00 per year fee of \$275.00 per year per tank
- Fuel Distribution Fee
  - Fee of \$72.00 for each delivery of 9,000 gallons of fuel (8/10 of 1 cent per gal.)

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#### **MFTF - Fee Collections**



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### Who is eligible for MFTF?

- "Eligible Participant" any owner/operator of an underground motor fuel storage tank who;
  - Has registered tanks prior to the date of a release,
  - Paid the annual tank registration fees,
  - Met the financial responsibility (deductible requirements).

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### **Eligibility Determination Process**

- Were the tanks registered at the time of the release?
- Have all annual UST registration fees been paid?
- Did the owner select Trust Fund as their Financial Responsibility Funding Mechanism on the UST Registration Form?

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- Has DEQ confirmed that a release has occurred?
- Has DEQ requested Further Investigation for the release?





### Compliant and Non-Compliant Financial Responsibility Deductible

- LDEQ Staff perform a compliance review
  - <u>Compliant</u> Site was 100% compliant
    - Compliant deductible- \$0 per release.
  - <u>Non-Compliant</u> Site was out of compliance (La. Revised Statute 30:2195.10.B)

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• Non-Compliant deductible- \$10,000 per release.





#### **Limitations to Trust Fund Reimbursements:**

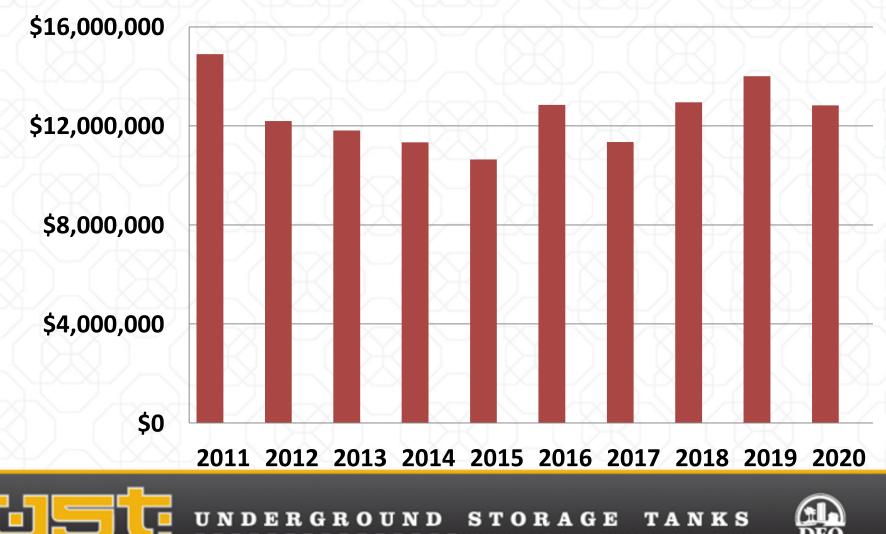
- Only reimburse to restore the site to the use and occupancy at the time of the release.
- Only reimburse Response Action Contractors (RACs).
- Cannot reimburse for activities older than two years.
- Only reimburse for USTs containing "Motor Fuels".

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#### **Motor Fuels TF – Reimbursed Amounts**





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# Abandoned Tank Program (ATP)

- The purpose of the program is to provide financial assistance to;
  - Conduct tank closures
  - Complete site investigation
  - Complete corrective action activities.

Requires that the state shall have a lien against immovable property for the costs incurred for the completed activities. (La. R.S. 30:2195.F.2)

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# **ATP Eligibility**

Under the provisions of La. R.S. 30:2195.F.3, a tank may be declared to be an abandoned UST by the secretary upon finding that <u>all of the following apply</u> to the site:

- Tank received motor fuels.
- Tank was not closed or the site was not assessed or remediated in accordance with regulatory requirements.
- Constitutes or may constitute a danger or potential danger to public health or the environment.
- No financially responsible owner who can be located or has failed or refused to undertake actions ordered by the secretary. (Unknown, Unwilling, or Unable owner)

• Release is not eligible for the Motor Fuels UST Trust Fund <u>OR</u> the secretary has determined that action by the department is the most timely and efficient way to address the conditions at the site.





# **Process for ATP**

#### Inspections

- 1. CEIs conducted every 3 years.
- 2. Document noncompliance.
- 3. \*Request further site investigation and/or corrective action.
- 4. Refer for further enforcement action.

#### Enforcement

- 1. Receives referral with documented violations.
- 2. Issues Compliance Order(s).
- 3. Requests financial information.
- 4. Determines financial status.

#### Eligibility

- 1. Demonstrates inability to pay.
- 2. Refuses to comply or unable to locate.
- 3. Site meets all criteria of R.S. 30:2195.F.3.
- 4. Committee approves site for inclusion.

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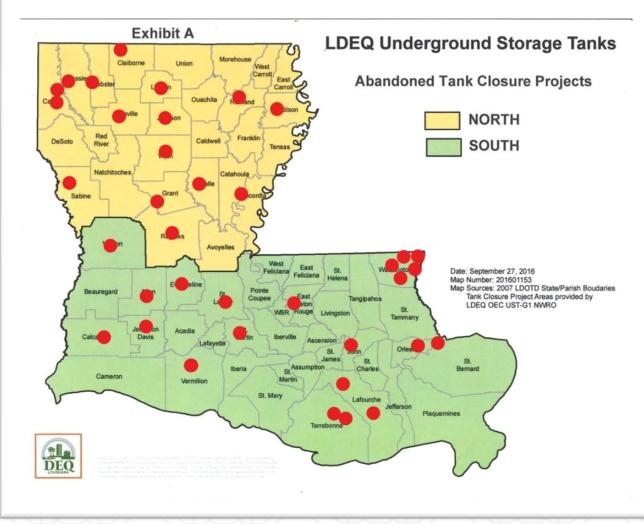
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#### Inclusion

- 1. Assign site to Team Leader.
- 2. Rank and prioritize site.
- 3. Issue Work Orders.
- 4. Complete closure or assessment.
- 5. File property lien.



### **Abandoned Tank Closure Projects**







# ATP Closures Summary Fiscal Years 2019-2021

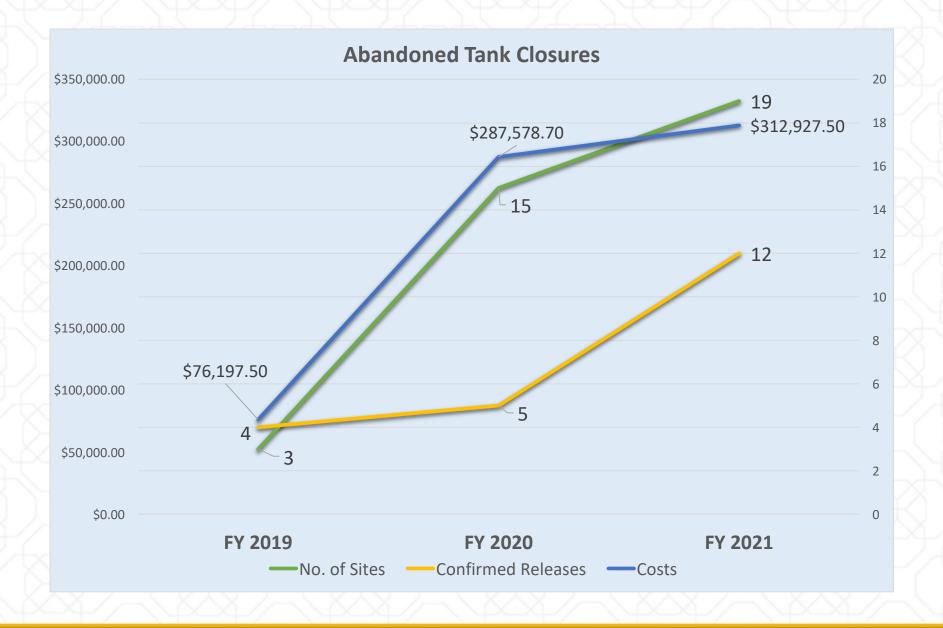
- No. of UST Sites Closed:
- No. of USTs Removed:
- Total Tank Capacity:
- Total Fluids Removed:
- Total Cost:
- Average Cost per Site:
- Confirmed Releases:
- Sites remaining on list:

37 105 363,600 gallons 127,079 gallons \$676,703.70 \$18,289.00 21 (4 require further investigation)



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# **ATP Remediation Projects**

- 20 remediation sites on the current priority list.
- Active Work Orders for 8 priority remediation sites throughout the state.
  - Free phase present; Groundwater 1/2 Classifications
- Approved budgets of \$428,869.00.
- 2 sites are funded by a 2017 EPA Hurricane Relief Grant.
- All activities, investigation and corrective action, are in accordance with the UST Remediation Process and RECAP.

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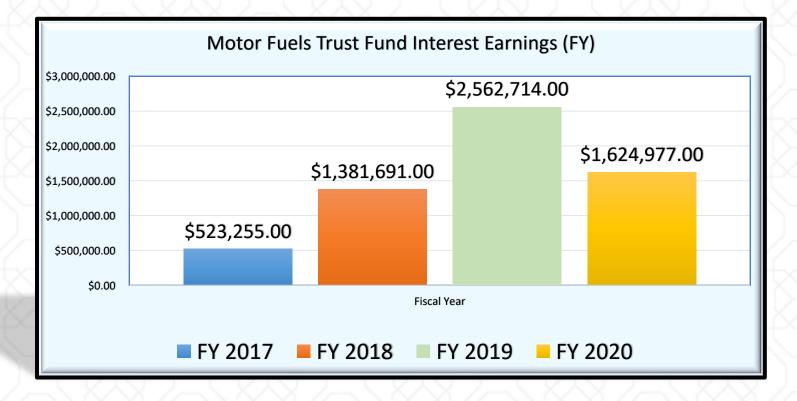




# **Financial Status of ATP Program**

• FY 2020-2021 Budget:

\$1,200,000





# **Grading Performance**

#### Legislative Reporting Indicators

- Number of sites evaluated and closed.
- Percentage of registered underground storage tank sites inspected.
- Percentage of soil and groundwater investigation work plans reviewed.
- Percentage of soil and groundwater corrective action work plans reviewed.

#### EPA Reporting Indicators

- LUST Prevention Grant
  - Establish target compliance rates for all UST Facilities meeting the Technical Compliance Rate in compliance TCR categories; Spill, Overfill, Corrosion Protection, and Release Detection.
- LUST Corrective Action Grant
  - Reduce the number of confirmed releases at UST facilities to five percent (5%) fewer than the prior year's target.
  - Number of confirmed releases awaiting cleanup at UST facilities.
  - Number of LUST Clean ups completed that meet risk-based standards for human exposure and groundwater migration.
  - Provide location information for cleanups completed during each semi-annual performance reporting period to meet the goals of the Environmental Justice 40 Initiative

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# **UST** Division

Underground Storage Tank Division P.O. Box 4314 Baton Rouge, LA 70821-4314

https://www.deq.louisiana.gov/page/underground-storage-tank

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225-219-LDEQ (5337) or Toll Free 1-866-896-LDEQ (5337)





## Questions?





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