

LDEQ - ST. ROSE – SHELL/IMTT OFFENSIVE ODOR EVENT AND RESPONSE

EPA REGION 6 ENVIRONMENTAL JUSTICE FORUM

June 2018



ST. ROSE ODOR EVENT & RESPONSE

- Introduction – EJ Community Liaison for Louisiana
- LDEQ
- Saint Rose, Louisiana, St. Charles Parish
- SHELL/IMTT
- EJ – A Chronology of Events & Collaborative Efforts
- Summary
- Conclusion
- Resources & Information

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LDEQ

- LDEQ – Mission & Vision
 - “Protecting human health and the environment”
 - “Deemed as organization that provides environmental stewardship that exceeds expectations”
- Environmental Justice

“

When a community is adjacent to a plant, the plant has an obligation to be a good corporate neighbor. Plant officials should ask themselves, ‘What can we do as an organization to enhance the quality of life of the surrounding community?’

”

*Dr. Chuck Carr Brown
LDEQ Secretary*

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LOCATION

St. Rose, St. Charles Parish



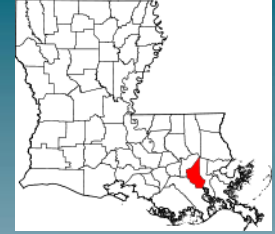
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LOCATION – ST. ROSE



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ENVIRONMENTAL
DESTINATION
ZERO

ST. ROSE, LA – Demographics*

- Population 8,870
 - Mean Ages, 33 years old
 - 39% or older adults/seniors (40-65)
 - 32% children (0-17)
 - 28% younger adults (18-39)
 - Race & Ethnicity
 - 49.6% Black
 - 45.4% White
 - 3.7% Hispanic

[*https://statisticalatlas.com/place/Louisiana/St-Rose/Employment-Status](https://statisticalatlas.com/place/Louisiana/St-Rose/Employment-Status)

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ST. ROSE, LA – Demographics *(cont'd)*

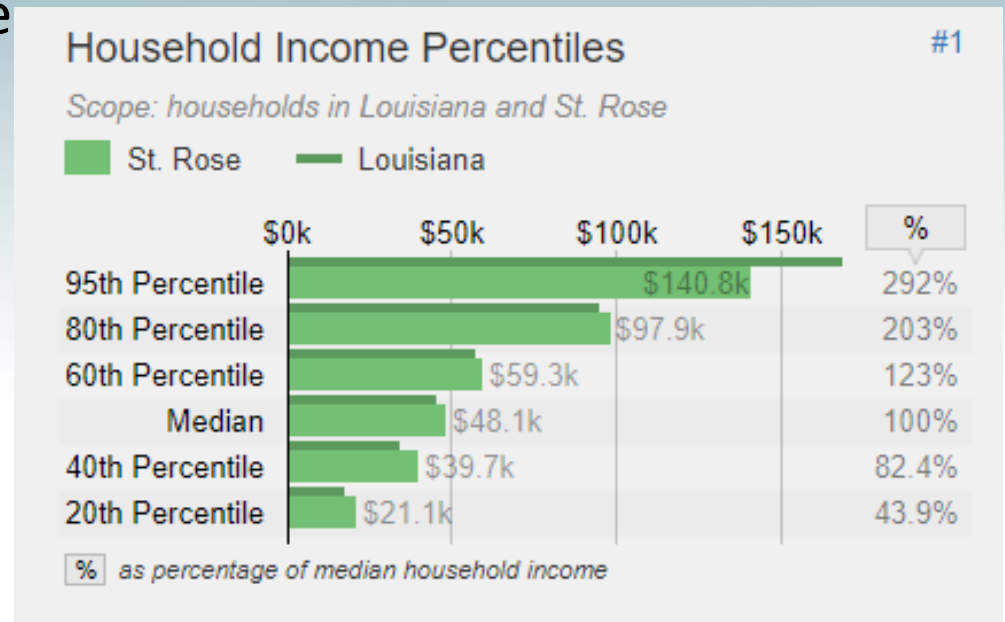
- Households & Income
 - Approximately 3,000 households
 - 47% of households with children under 18 are married
- 53% of households are single moms or dads, ~42% being single mothers
- Median income \$48,000

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ST. ROSE, LA – Demographics (cont'd)

- Households & Income
 - Income range: \$21K - \$140K
 - Median income \$48,000
 - Median income by race
 - Hispanics - \$64K
 - Whites - \$55K
 - Blacks - 39.3K



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ST. ROSE, LA – Demographics *(cont'd)*

- Employment (24-65 ages)
 - 7.6% unemployment
 - 70% Blacks are employed
 - 69% White
 - 49% Hispanic
- 17.5% of the residents of St. Rose live in poverty.
- 85.7% of the residents are high school graduates or higher.
- 13.7% of the residents hold a bachelor's degree or higher degree.



ST. ROSE – Tank Farm in 1927



ST. ROSE – SHELL/IMTT in 2018



ST. ROSE GROWTH

1927

2018



IMTT OVERVIEW

Geographic Footprint



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IMTT – LA PRESENCE

- Avondale, Gretna, and Geismar



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CHRONOLOGY & COLLABORATION ON OFFENSIVE ODOR

- June 2014 – Began receiving odor complaints

Month	Year	
	2013	2014
January		0
February		0
March		0
April		0
May		0
June		61
July	1	5
August	2	8
September		40
October	1	36
November		3
December		2
Total	4	155



CHRONOLOGY OF ODOR EVENTS

- Investigations pinpointed the IMTT/Shell site as the likely source of the odors.
- Joint asphalt manufacturing operation was identified as the suspected generator of the odors.
- LDEQ and Shell performed monitoring during and after the odor event.
- LDEQ deployed the agency's Mobile Air Monitoring Laboratory to the area.



CHRONOLOGY - MONITORING

Month	Sampler	Type of Sample
Jun-14	LDEQ	Canister (6/11 – 6/19)
	Shell (TES)	Hand-held (6/12 – 6/18)
	LDEQ	Hand-held (6/16)
	LDEQ	MAML (6/12 – 6/20)
Aug-14	LDEQ	Hand-held (8/12)
	Shell (TES)	Hand-held (8/12 – 8/13)
Oct-14	LDEQ	Hand-held (10/23 – 11/6)
	LDEQ	Canister (10/23 – 11/6)
	LDEQ	MAML (10/23-10/26, 10/28-10/30)
Nov-14	EPA	Hand-held (11/3 – 11/7)
Dec-14	LDEQ	MAML (12/3 – 12/5)
	LDEQ	Canister (12/4 – 12/5)
	LDEQ	MAML (12/20-12/22)
	LDEQ	Canister (12/20 – 12/22)
Jan-16	EPA	GMAP, Spod (1/25-1/27)

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CHRONOLOGY – MONITORING

(cont'd)

- *Capable of monitoring for*
 - *Criteria Pollutants*
 - *H₂S*
 - *VOC's*
 - *Mercury*



- *Captures Meteorological Data*
 - *wind speed, wind direction, temperature, barometric pressure and relative humidity*

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CHRONOLOGY – ACTIONS

- Actions Taken – 2014, 2015
 - LDEQ monitoring continued
 - SHELL discontinued a certain crude feedstock
 - Products produced from that crude was “worked off”
 - IMTT RTO bakeout conducted
 - Secondary controls installed (4 carbon beds)
 - IMTT Odor Patrols performed
 - EPA NEIC conducted multi-media inspection Nov 2015

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CHRONOLOGY – ACTIONS

- 2016
 - Secretary Visit
 - Community Monitor
 - IMTT implemented more stringent product vetting process
 - EPA NEIC Jan 2016 returned with GMAP van
 - Story documented in EDMS – See AI 4885

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CONCLUSION & IMPROVEMENTS

- Odors were significantly reduced

IMTT St. Rose Complaints						
Month	Year					
	2013	2014	2015	2016	2017	2018
January		0	6	0	0	0
February		0	2	0	1	0
March		0	7	1	3	2
April		0	11	0	1	0
May		0	1	0	1	1
June		61	3	0	0	1
July	1	5	0	0	2	-
August	2	8	0	1	5	-
September		40	0	1	0	-
October	1	36	0	3	1	-
November		3	0	4	0	-
December		2	0	12	0	-
Total	4	155	30	22	14	4

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CONCLUSION & IMPROVEMENTS

- No national ambient air quality standard (NAAQS) had been exceeded
- EPA Site Investigations yielded no significant findings
- Outreach, Education
 - Community Using LDEQ hotline & complaint form

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CONCLUSION & IMPROVEMENTS

- IMTT
 - Organized a Community Advisory Panel
 - Established 24/7 hotline
 - Imposed more stringent product vetting
 - Improved response time to odor complaints
 - Developed Odor Response Plan for refinery
 - With SHELL, installed secondary controls for asphalt storage and loading
- Community Monitoring

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RESOURCES

- Fixed Community Monitor
 - Air Monitoring Data & AQI
 - Monitor location & monitored constituents
 - <http://deq.louisiana.gov/page/st-rose>
 - See Data
 - <http://airquality.deq.louisiana.gov/Data>

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RESOURCES

- Community Voice
 - File a complaint or report an incident
 - <http://deq.louisiana.gov/page/file-a-complaint-report-an-incident>
 - SPOC (Single Point of Contact)
 - IMTT Community Advisory Panel (CAP)



SPOC
Single Point of Contact

SPOC HOTLINE

225-219-3640

M-F, 8AM-4:30PM

To leave a message, call

225-342-1234

1-888-763-5424

Toll Free in LA

DEQ CUSTOMER SERVICE

225-219-5337

1-866-896-5337

TO REPORT ENVIRONMENTAL CONCERNS

In the event of an environmental emergency, citizens are encouraged to first contact their local authorities – police, sheriff, fire department, etc. Citizens and the regulated community can also contact the SPOC hotline. SPOC concerns include spills, releases, odors, fish kills, open burning, waste tires and any other types of environmental incidents. Citizens can report the incident online at www.deq.louisiana.gov.

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WWW.LOUISIANA.GOV

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Q&A

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