

# **TCEQ Handheld Monitoring Equipment Data**

## **TPC Group Fire – November 2019**

Shortly after becoming aware of the fire at TPC Group Port Neches Operations that began on November 27, 2019, TCEQ Regional staff initiated handheld monitoring surveys in the area. MultiRAEs, QRAEs, AreaRAEs, MiniRAEs, UltraRAEs, VRAEs, and Toxic Vapor Analyzers with various sensors were used for all survey activities. These instruments provide instantaneous readings for various compounds that may include the lower explosive limit (LEL), volatile organic compounds (VOC), hydrogen sulfide (H<sub>2</sub>S), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), benzene, 1,3 butadiene, hydrogen cyanide (HCN), and oxygen.

Sample results from TCEQ's handheld monitoring equipment are listed below, including observations of odor. This incident is causing the release of chemicals called VOCs. Elevated levels of VOCs from this facility are odorous. Short-term exposure to high concentrations of VOCs can cause eye, nose, and throat irritation, shortness of breath, headaches, and nausea. If you experience these health effects leave the area until the situation has resolved.

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Monday, December 9, 2019</b>											
12/9/2019	Woodcrest Elementary School, 1522 Heisler St., Port Neches, TX	6:23 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Orchard Ave./Hwy. 366, Port Neches, TX	6:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/9/2019	Port Neches-Groves High School, Port Neches, TX	6:36 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	500 Grigsby Ave., Port Neches, TX	6:39 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	366/136, Port Neches, TX	6:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Port Neches Elementary School, 2101 Llano St., Port Neches, TX	6:50 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	511 Grigsby Ave., Port Neches, TX	7:00 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		Slight oil odors were detected.
12/9/2019	Port Neches Atlantic Rd./Orchard Ave., Port Neches, TX	7:10 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/9/2019	Main St./FM-366, Port Neches, TX	7:10 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odor
12/9/2019	401 Rachford Ave., Port Neches, TX	7:23 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	301 Grigsby Ave., Port Neches, TX	7:30 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	Dieu/Port Neches Ave., Port Neches, TX	7:30 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Park St./Ave. L, Port Neches, TX	7:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odor
12/9/2019	100 Grigsby Ave., Port Neches, TX	7:40 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	Port Neches Atlantic Rd./E. 2nd St., Port Neches, TX	7:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Monday, December 9, 2019</b>											
12/9/2019	1212 Dearing St., Port Neches, TX	7:58 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	Ave. L/Main St., Port Neches, TX	8:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odor
12/9/2019	Port Neches River Front Park, 702 Merriman St., Port Neches, TX	8:00 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Port Neches-Groves High School, Port Neches, TX	8:05 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		Slight rubber and oil odors were detected.
12/9/2019	Park St./Hwy. 366, Port Neches, TX	8:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/9/2019	2126 Nall St., Port Neches, TX	8:20 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	1901-1999 Dearing St., Port Neches, TX	8:25 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Central Park, Merriman St., Port Neches, TX	8:27 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	2927 Nall St., Port Neches, TX	8:30 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	310 Twin City Hwy., Port Neches, TX	8:43 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	302 Ave. D, Port Neches, TX	8:50 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Port Neches Middle School, Port Neches, TX	8:52 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	716 Magnolia Ave., Port Neches, TX	9:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/9/2019	Port Neches Little League, 2000 Merriman St., Port Neches, TX	9:00 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Port Neches City Hall, Port Neches, TX	9:08 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	210-298 Grigsby Dr., Port Neches, TX	9:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odor
12/9/2019	Woodcrest Elementary School, 1522 Heisler St., Port Neches, TX	9:19 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	2736 Nall St., Port Neches, TX	9:30 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Monday, December 9, 2019</b>											
12/9/2019	Central Park, Merriman St., Port Neches, TX	9:40 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/9/2019	136 Grigsby Ave., Port Neches, TX	9:40 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Gathering Place Church, 1011 Grigsby Ave., Port Neches, TX	9:42 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	Highland Park Elementary, 200 S. 6th St., Nederland, TX	9:43 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Hillcrest Elementary, 2611 Ave. H, Nederland, TX	10:00 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	910 Port Neches Ave., Port Neches, TX	10:02 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	101 E. Port Neches, Port Neches, TX	10:05 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Post Office, 1324 Port Neches Ave., Port Neches, TX	10:10 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	Knights of Columbus, 700 Central Dr., Port Neches, TX	10:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/9/2019	124 Pecan St., Port Neches, TX	10:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odor
12/9/2019	Port Neches-Groves High School, Port Neches, TX	10:31 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	First Methodist Church, 1826 Nall St., Port Neches, TX	10:33 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	706 Magnolia Ave., Port Neches, TX	10:54 PM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	Central Ave./Pine St., Port Neches, TX	10:55 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/9/2019	47 Ave. D, Nederland, TX	10:58 PM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/9/2019	Port Neches Elementary School, 2101 Llano St., Port Neches, TX	11:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			

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<b>Monday, December 9, 2019</b>											
12/9/2019	101 Orchard St., Port Neches, TX	11:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%			No odor
12/9/2019	366/136, Port Neches, TX	11:30 PM	MultiRAE/ UltraRAE	0%	0.2 ppm	0 ppm	0 ppm	20.9%		0.17 ppm	Slight chemical smell.
12/9/2019	366 Orchard St., Port Neches, TX	11:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%			No odor
<b>Tuesday, December 10, 2019</b>											
12/10/2019	366/136, Port Neches, TX	12:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0 ppm	
12/10/2019	432 Ave. D, Port Neches, TX	12:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	Port Neches Middle School, 2096 Merriman St., Port Neches, TX	12:18 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	Nederland High School, 2108 N. 18th St., Nederland, TX	12:25 AM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	Effie & Wilton Hebert Public Library, 2109 Merriman St., Port Neches, TX	12:28 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	Port Neches-Groves High School, Port Neches, TX	12:36 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	2401 Port Neches Ave., Port Neches, TX	12:40 AM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	Lillie St./Ave. D, Port Neches, TX	12:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	Port Neches Park, 719 Merriman St., Port Neches, TX	12:46 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor. Began to rain so stopped monitoring at 3 minutes.
12/10/2019	864 Magnolia Ave., Port Neches, TX	12:55 AM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	101 Walnut St., Port Neches, TX	1:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/10/2019	Ridgewood Elementary, 2762 Merriman St., Port Neches, TX	1:04 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Tuesday, December 10, 2019</b>											
12/10/2019	Earle St./Magnolia Ave., Port Neches, TX	1:08 AM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			Very light, maybe like ethanol , light chemical scent, but not from TPC. Unidentifiable.
12/10/2019	801-899 Dallas St., Port Neches, TX	1:10 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odor
12/10/2019	Huntsman Gate 29, 6587 Hogaboom Rd., Groves, TX	1:22 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	684 Pine St., Port Neches, TX	1:32 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	1101 Wilson St., Port Neches, TX	1:35 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odor
12/10/2019	Oak St./Port Neches Atlantic Rd., Port Neches, TX	1:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/10/2019	136/366, Port Neches, TX	1:46 AM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			Very light, almost like bleach
12/10/2019	492 Gist Dr., Port Neches, TX	2:04 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	2001 Ninth St., Port Neches, TX	2:10 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	The Feed Store, 301 Grigsby Ave., Port Neches, TX	2:14 AM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			Very light, insecticide, benzene
12/10/2019	Port Neches Elementary, 2147 Llano St., Port Neches, TX	2:17 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	FM 366 South of Spur 136, Port Neches, TX	2:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/10/2019	The Feed Store, 305 Grigsby Ave., Port Neches, TX	2:29 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	Port Neches Park, 601 Grigsby Ave., Port Neches, TX	2:34 AM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	2141 11th St., Port Neches, TX	2:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Tuesday, December 10, 2019</b>											
12/10/2019	195 Walnut St., Port Neches, TX	2:43 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	Port Neches-Central Park, 2116 Merriman St., Port Neches, TX	2:45 AM	AreaRAE	0%	0.2 ppm	0 ppm	0 ppm	20.9%			Smoke odor, light burning
12/10/2019	FM 366 North of Spur 136, Port Neches, TX	3:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/10/2019	Port Neches-Groves High School, Port Neches, TX	3:05 AM	AreaRAE	0%	0.2 ppm	0 ppm	0 ppm	20.9%			Smokey smell (light)
12/10/2019	800-898 Oak Bend, Port Neches, TX	3:05 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odor
12/10/2019	1194 Llano St., Port Neches, TX	3:20 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	Woodcrest Elementary School, 1522 Heisier St., Port Neches, TX	3:27 AM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			Smokey smell (light)
12/10/2019	2401 Earle St., Port Neches, TX	3:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	1331 Park St., Port Neches, TX	3:32 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	Port Neches Middle School, 749 Central Dr., Port Neches, TX	3:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/10/2019	392 Ave. J, Port Neches, TX	3:46 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	Port Neches Middle School, 749 Central Dr., Port Neches, TX	3:50 AM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	501-599 Sasser Ln., Port Neches, TX	3:55 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	Port Neches-Groves High School, Port Neches, TX	4:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			
12/10/2019	2370 Nall St., Port Neches, TX	4:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odor
12/10/2019	Ave. L/Main St., Port Neches, TX	4:30 AM	AreaRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor. Change in wind direction.

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Tuesday, December 10, 2019</b>											
12/10/2019	537 Ave. D, Port Neches, TX	4:32 AM	MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		No odor
12/10/2019	136/366, Port Neches, TX	4:45 AM	AreaRAE	0%	0.3 ppm	0 ppm	0 ppm	20.9%			No odor
12/10/2019	854 Magnolia Ave., Port Neches, TX	5:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			