

# **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	Benzene	HCN	Other Notes/Observations
<b>Thursday, December 5, 2019</b>													
12/5/2019	Church on the Rock, 6384 Highway 347, Beaumont, TX	6:15 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	2234 Nederland Avenue, Port Neches, TX	6:25 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	1241 North Highway 347, Nederland, TX	6:30 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	2400 Harms Circle, Port Neches, TX	6:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	391 North Highway 347, Nederland, TX	6:41 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	586-692 Pine St, Port Neches, TX	6:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor, restricted work zone
12/5/2019	504 Nederland Avenue, Nederland, TX	6:47 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	708 Baker Ave, Port Neches, TX	6:48 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	Central Middle School, 249 17th Street, Nederland, TX	6:50 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	City of Nederland Water Treatment, 431 Avenue D, Nederland, TX	6:59 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	C.O. Wilson Elementary, 2630 Helena Avenue, Nederland, TX	7:05 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	2401 Merriman St, Port Neches, TX	7:06 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	Dead end of 1 1/2 Street, Nederland, Texas	7:15 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	Langham Elementary, 681 North 12th Street, Nederland, TX	7:20 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	203 Canal St, Port Neches, TX	7:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	604 Thomas Haven Dr, Port Neches, TX	7:25 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	1608 Nederland Avenue, Nederland, TX	7:30 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	1519 Magnolia Avenue, Port Neches, TX	7:32 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	0 ppm	No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Benzene	HCN	Other Notes/Observations
<b>Thursday, December 5, 2019</b>													
12/5/2019	702 Cherokee Ave, Port Neches, TX	7:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	2512 Nall Street, Port Neches, TX	7:49 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	965 Nederland Avenue, Nederland, TX	7:50 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	FM 366, W of Pine St, Groves, TX	7:55 AM	MultiRAE/ UltraRAE	0%	2 ppm	0 ppm	0 ppm	20.9%		1.3 ppm			Slight, sustained odor, restricted work zone
12/5/2019	738 N Cherokee Ave, Port Neches, TX	7:57 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	813 N Cherokee Ave, Port Neches, TX	8:06 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	Ridgewood Elementary, 2820 Merriman, Port Neches, TX	8:09 AM	UltraRAE/QRAE	0%	0.025 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	2171 Llano St, Port Neches, TX	8:18 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	606 Magnolia Ave, Port Neches, TX	8:20 AM	MultiRAE/ UltraRAE	0%	5 ppm	0 ppm	0 ppm	20.9%		1.38 ppm			Strong butadiene odor, restricted work zone
12/5/2019	2101 Llano St, Port Neches, TX	8:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	Meadowgreen Park, Near 351 Windsor Creek, Port Neches	8:33 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	2241 Earle St, Port Neches, TX	8:35 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%					No odor
12/5/2019	1078 Colorado Street, Beaumont, TX	8:42 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	1937 Llano St, Port Neches, TX	8:47 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	2130 Merriman St, Port Neches, TX	8:50 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0.97 ppm			Slight butadiene odor
12/5/2019	5176 Cheek Street, Beaumont, TX	8:55 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	421-365 Meadowgreen Dr, Port Neches, TX	9:00 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	700 New Ave, Port Neches, TX	9:03 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	4705 Highland Avenue, Beaumont, TX	9:05 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Benzene	HCN	Other Notes/Observations
<b>Thursday, December 5, 2019</b>													
12/5/2019	FM 366, W of SH-136 Spur, TX	9:10 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor, restricted work zone
12/5/2019	2001 Merriman Ave, Port Neches, TX	9:21 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	302 Gage Street, Nederland, TX	9:27 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	2106-2114 SH-136 Spur, N of FM 366, Port Neches, TX	9:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor, restricted work zone
12/5/2019	Blessed Sacrament Church, 980 Porter Street, Beaumont, TX	9:35 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				Intermittent butadiene odor
12/5/2019	726 Central Dr, Port Neches, TX	9:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	1117 Port Neches Avenue, Port Neches, TX	9:45 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	21.2%	0 ppm	0 ppm	0 ppm	0 ppm	Grassy sweet solvent odor
12/5/2019	272-298 Port Neches Atlantic Rd, Port Neches, TX	9:50 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					No odor
12/5/2019	2122 Merriman St, Port Neches, TX	10:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	Port of Beaumont, 1266 Main Street, Beaumont, TX	10:06 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	720 Lee Ave, Port Neches, TX 77651	10:14 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	21.3%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	6116-6198 FM 366, Port Neches, TX	10:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%					No odor, restricted work zone
12/5/2019	716 Magnolia Ave, Port Neches, TX	10:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	3450 Eastex Freeway, Beaumont, TX	10:25 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	Effie and Wilton Hebert Public Library, 2025 Merriman St, Port Neches, TX 77651	10:32 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	21.1%	0 ppm	0 ppm	0 ppm	0 ppm	No odors
12/5/2019	2101 Llano St, Port Neches, TX	10:35 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%					No odor
12/5/2019	636 Victor Dr, Port Neches, TX	10:38 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	300 Landry Dr, Port Neches, TX	10:54 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	Benzene	HCN	Other Notes/Observations
<b>Thursday, December 5, 2019</b>													
12/5/2019	2066-2098 Merriman St, Port Neches, TX	11:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%					No odor
12/5/2019	2344 Earle St, Port Neches, TX	11:08 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	2213 Earle St, Port Neches, TX	11:19 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	700 Central Dr, Port Neches, TX	11:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%					No odor
12/5/2019	700 Central Dr, Port Neches, TX	11:38 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odor
12/5/2019	4800 B FM 365, Port Arthur, TX	12:25 PM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odors
12/5/2019	12160 Sam Rayburn, Orange, TX	12:31 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	864 Magnolia Avenue, Port Neches, TX	12:41 PM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	21.2%					No odors
12/5/2019	4th Avenue and Lee Street, Orange, TX	12:45 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	13th Street and Nederland Avenue, Nederland, TX	12:54 PM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	21.2%					No odors
12/5/2019	Orangefield Elementary School, Sandbar Road, Orange, TX	12:58 PM	MultiRAE		0 ppm	0 ppm		21.1%	0 ppm				No odors
12/5/2019	Common Ground Community Church, 1115 West Roundbunch Road, Bridge City, TX	1:30 PM	MultiRAE		0 ppm	0 ppm		21.1%	0 ppm				No odors
12/5/2019	Spurlock Road and Price Street, Nederland, TX	1:43 PM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					No odors
12/5/2019	150 West Roundbunch Road, Bridge City, TX	1:53 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	Lamar University, 4001 Highway 380, Beaumont, TX	2:05 PM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	21.1%					No odors
12/5/2019	5510 Hogaboom Road, Groves, TX	2:25 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	George R Brown Road and Highway 90, Rose City, TX	2:33 PM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Benzene	HCN	Other Notes/Observations
<b>Thursday, December 5, 2019</b>													
12/5/2019	Groves Middle School, 6400 Van Buren Blvd, Groves, TX	2:36 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	Ridgewood Elementary, 2820 Merriman, Port Neches, TX	3:02 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	14795 Duncan Woods Lane, Vidor, TX	3:05 PM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odors
12/5/2019	6223 West Roundbunch Road, Orange, TX	3:19 PM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odors
12/5/2019	485 Texas Avenue, Bridge City, TX	3:41 PM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odors
12/5/2019	Port Neches High School, 1606 Park Street, Port Neches, TX	3:46 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				Very light odor of burnt gas with water
12/5/2019	Port Neches Park, 601 Grigsby Avenue, Port Neches, TX	4:10 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	Lamar University, 4001 Highway 380, Beaumont, TX	4:35 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/5/2019	Port Neches-Groves High School, 1401 Merriman St, Port Neches, TX 77651	4:47 PM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odors
12/5/2019	2060 Irving Avenue, Beaumont, TX	4:53 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors