

# **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>Sunday, December 1, 2019</b>											
12/1/2019	1048 Gulfway Dr., Port Arthur, TX	6:42 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		Unpleasant sour odor.
12/1/2019	4000 Twin City Hwy Bldg. B, Groves, TX	6:55 AM	UltraRAE/ VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	1630 Houston Ave., Port Arthur, TX	7:11 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	Hwy. 366/Hogaboom Rd., Port Neches, TX	7:15 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.2%		0 ppm	No odors
12/1/2019	2948 Gulfway Dr., Port Arthur, TX	7:16 AM	UltraRAE/ VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	401 Houston Ave., Port Arthur, TX	7:24 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	7:30 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.2%		0 ppm	No odors
12/1/2019	82nd St./W. 7th St., Port Arthur, TX	7:36 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	4930 Gulfway Dr., Port Arthur, TX	7:36 AM	UltraRAE/ VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	2763 Saba Ln., Port Neches, TX	7:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	T. Bellison Pkwy./Pleasure Pier Blvd., Port Arthur, TX	7:50 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	U-turn at Hwy. 73 South of Old Ferry Rd., Groves, TX	7:54 AM	UltraRAE/ VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	302 King Arthur Dr., Port Neches, TX	7:59 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	100 East Port Neches Ave., Port Neches, TX	8:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	645 4th St., Port Arthur, TX	8:07 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	2900 Saba Ln., Port Neches, TX	8:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Sunday, December 1, 2019</b>											
12/1/2019	Sara Jane Rd./Orchard, Port Neches, TX	8:17 AM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	710 SH-87, Port Arthur, TX	8:18 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	3147 Nottingham Ln., Port Neches, TX	8:28 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	136/Grigsby Ave., Port Neches, TX	8:29 AM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	100 1/2 East Port Neches Ave., Port Neches, TX	8:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Stillwall Blvd./Procter St., Port Arthur, TX	8:32 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	3181 Saba Ln., Port Neches, TX	8:42 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	1201 Gulfway Dr., Port Arthur, TX	8:43 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	3911 39th St., Port Arthur, TX	8:46 AM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	SH-136 Spur, Groves, TX	8:53 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	103 Orchard Ave., Port Neches, TX	8:59 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Proctor St./Park Rd., Port Arthur, TX	9:00 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	6250 39th St., Groves, TX	9:01 AM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	5931 Alabama Ave., Groves, TX	9:09 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	2949 Gulfway Dr., Port Arthur, TX	9:12 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	3401 Cultural Center Dr., Port Arthur, TX	9:15 AM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	Hwy. 287/25th St., Port Arthur, TX	9:20 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Sunday, December 1, 2019</b>											
12/1/2019	511 Orchard Ave., Port Neches, TX	9:25 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	1948 Savannah Ave., Port Arthur, TX	9:29 AM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	6499 Carolina Ave., Groves, TX	9:31 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	42nd St./Rachel Ave., Port Arthur, TX	9:32 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	1601 Proctor, Port Arthur, TX	9:45 AM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	4401 9th Ave., Port Arthur, TX	9:47 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	5801 Carolina Ave., Groves, TX	9:53 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	25th St./9th St., Port Arthur, TX	9:58 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	326 9th St., Port Arthur, TX	9:58 AM	UltraRAE/VRAE	0%	0.025 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	Magnolia Ave./Hwy. 136, Port Neches, TX	10:00 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.2%		0.03 ppm	Smoke odor, within restricted area
12/1/2019	1600 9th Ave., Port Arthur, TX	10:10 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	Hwy. 366/west of Hwy. 136, Port Neches, TX	10:10 AM	MultiRAE/ UltraRAE	0%	4 ppm	0 ppm	0 ppm	21.1%		0 ppm	VOC going up and down. Highest was 4 ppm. Used full face respirator while in restricted area.
12/1/2019	5599 Whitaker Ave., Groves, TX	10:11 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	2200 Jefferson Dr., Port Arthur, TX	10:15 AM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	3700 Proctor St., Port Arthur, TX	10:20 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	10:22 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.1%		0.18 ppm	Smoke smell. Within restricted area.
12/1/2019	5100 Lawndale Ave., Groves, TX	10:23 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Sunday, December 1, 2019</b>											
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	10:29 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.1%		0.10 ppm	Smoke smell. Within restricted area.
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	10:32 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.1%		0.35 ppm	Smoke smell. Within restricted area.
12/1/2019	Hwy. 366/Park St., Port Neches, TX	10:35 AM	UltraRAE/ VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	5200 Hogaboom, Groves, TX	10:36 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	10:47 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.1%		0.12 ppm	Smoke smell. Within restricted area.
12/1/2019	5618 Carolina Ave., Groves, TX	10:51 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	5360 Twin City Hwy., Port Arthur, TX	11:01 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	4999 Twin City Hwy., Port Arthur, TX	11:10 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	11:11 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.2%		0 ppm	Very slight odor like smoke. Within restricted area
12/1/2019	2701 TX-136 Spur, Port Neches, TX	11:30 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.1%		0.35 ppm	Very slight odor like smoke. Within restricted area
12/1/2019	5200 Kent Ave., Groves, TX	11:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Near 2191-2155 TX-136 Spur, Port Neches, TX	11:45 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0.6 ppm	Smoke smell strong. Restricted area.
12/1/2019	6110 Hogaboom Rd., Groves, TX	11:51 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	5338 Beaumont Ave., Groves, TX	12:04 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Memorial Blvd./34th St., Port Arthur, TX	12:10 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	4826 Garfield Ave., Groves, TX	12:12 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Near 2191-2155 TX-136 Spur, Port Neches, TX	12:15 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0.35 ppm	Strong smoke odor. Restricted area.

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<b>Sunday, December 1, 2019</b>											
12/1/2019	Liberty Ave./Bluebonnet St., Port Arthur, TX	12:24 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	Thomas Blvd./Austin Ave., Port Arthur, TX	12:39 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	1948 Savannah Ave., Port Arthur, TX	12:40 PM	UltraRAE/ VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	12:45 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.2%		0 ppm	Slight smoke smell.
12/1/2019	Houston Ave./Fourth St., Port Arthur, TX	12:50 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	2305 Saybrook Ln., Port Neches, TX	12:54 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	1248 Proctor St., Port Arthur, TX	12:58 PM	UltraRAE/ VRAE	0%	0.025 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	Rose Hill Park, Port Arthur, TX	1:04 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	3700 Proctor St., Port Arthur, TX	1:11 PM	UltraRAE/ VRAE	0%	0 ppm		0 ppm	21.2%	0 ppm		No odors
12/1/2019	502 Donna Ct., Port Neches, TX	1:12 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	1:15 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.2%		0.18 ppm	Smoke smell. Within restricted area.
12/1/2019	Queen of Peace Shrine, Port Arthur, TX	1:17 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	5921 Proctor Ext., Port Arthur, TX	1:30 PM	UltraRAE/ VRAE	0%	0 ppm		0 ppm	21.2%	0 ppm		No odors
12/1/2019	501 Betty Ct., Port Neches, TX	1:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	347 TX Hwy./87 TX Hwy., Port Arthur, TX	1:31 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	Taft Elementary School, Groves, TX	1:43 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	2342 Earle St., Port Neches, TX	1:44 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Sunday, December 1, 2019</b>											
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	1:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			Smoke odor, within restricted area.
12/1/2019	Hwy. 87/Old Ferry Rd., Port Arthur, TX	1:48 PM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	Taft Ave./39th St., Groves, TX	1:54 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	401 Grist Dr., Port Neches, TX	2:01 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Hogaboom Rd./366 TX Hwy., Port Neches, TX	2:05 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	7413 39th St., Port Arthur, TX	2:07 PM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	Baird St./ Gulf Ave., Groves, TX	2:16 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	2529 Hampton Ln., Port Neches, TX	2:17 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	2:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	6076 FM 366, Port Neches, TX	2:22 PM	UltraRAE/VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		Odors were noted by investigators.
12/1/2019	6400 Van Buren Blvd., Groves, TX	2:46 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	2107-2115 SH-136 Spur, Port Neches, TX	2:50 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			Smoke smell. Restricted area.
12/1/2019	Port Neches Park, Port Neches, TX	2:52 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	5600 39th St., Groves, TX	2:57 PM	UltraRAE/VRAE	0%	0.025 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	Effie and Wilton Hebert Public Library, Port Neches, TX	3:03 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	5384 Wilson Ave., Groves, TX	3:07 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Park St./Magnolia Ave., Port Neches, TX	3:15 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	TX-136 Spur/FM 366, Port Neches, TX	3:18 PM	UltraRAE/VRAE	0%	1.6 ppm		3 ppm	20.9%	0.2 ppm		Odors were noted by investigators.

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/ Observations
<b>Sunday, December 1, 2019</b>											
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	3:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			Slight smoke smell.
12/1/2019	400 Canal St., Port Neches, TX	3:33 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Hwy. 87/173, Rainbow Bridge, Bridge City, TX	3:41 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors - marsh fire started
12/1/2019	100 Pecan St., Port Neches, TX	3:49 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	3:50 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	TX-136 Spur/FM 366, Port Neches, TX	3:54 PM	UltraRAE/ VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	Red Apple Day Care, 6286 32nd St, Groves, TX	3:56 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		Very light wood burning odor. Marsh fire in Orange County. No chemical odor.
12/1/2019	210 Canal St., Port Neches, TX	4:05 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	3185 Merriman St., Port Neches, TX	4:10 PM	UltraRAE/ VRAE	0%	0 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	Bruce's Market Basket, 6001 39th St, Groves, TX	4:18 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	106 Maple St., Port Neches, TX	4:18 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Orchard St./Hwy. 366, Port Neches, TX	4:25 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%			No odors
12/1/2019	2025 Merriman St., Port Neches, TX	4:28 PM	UltraRAE/ VRAE	0%	0.05 ppm		0 ppm	20.9%	0 ppm		No odors
12/1/2019	188 E. Port Neches Ave., Port Neches, TX	4:29 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Ridgewood Apartment Complex, 693 Ridgewood Dr, Port Neches, TX	4:32 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odors
12/1/2019	Pine St./FM Hwy. 366, Port Neches, TX	5:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/1/2019	Hwy. 366/Hwy. 136, Port Neches, TX	5:25 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors