

# **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>Wednesday, December 4, 2019</b>											
12/4/2019	2399 Saybrook Ln, Port Neches, TX	6:09 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	Nederland HS, 2101 N 18th St, Nederland, TX	6:15 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/4/2019	First Baptist Church of Port Neches, 1900 Magnolia Avenu, Port Neches, TX	6:28 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			Burning wood odor around 2 minutes
12/4/2019	2207 Earle St, Port Neches, TX	6:32 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	Hwy 366, between Hwy 136 and Main St, Port Arthur TX	6:46 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	Knights of Columbus Council 2461, Corner Merriman and Central, Port Neches, TX	6:47 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/4/2019	Port Neches PNGHS, corner of Park and New St., Port Neches, TX	6:55 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/4/2019	Joint Wastewater Treatment Plant, Hwy 136 & Huntsman	7:05 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	Corner of Magnolia and Earle, Port Neches, TX	7:10 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/4/2019	127-699 Orchard Ave, Port Neches, TX	7:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%			No odor, restricted work area
12/4/2019	864 Magnolia Ave, Port Neches, TX	7:24 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/4/2019	5546 Park Ave, Groves, TX	7:31 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		Very light tar-like odors
12/4/2019	Corner of East Kitchen Dr. and Circle Dr., Port Neches, TX	7:41 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/4/2019	SW intersection of SH 136 and FM 366, Port Neches, TX	7:45 AM	MultiRAE / UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.2%		0.00 ppm	Slight chemical odor, restricted work area

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/Observations
<b>Wednesday, December 4, 2019</b>											
12/4/2019	6049 46th St, Groves, TX	7:46 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	A Church of Jesus, 611 Victor Dr., Port Neches, TX	7:52 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			Industrial odor similar to exhaust
12/4/2019	Groves Elementary, 6428 39th St, Groves TX	7:58 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	Corner of Saba Ln. and Gist Dr., Port Neches, TX	8:14 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			Industrial / exhaust odor, sweet / sour odor (chemical odor).
12/4/2019	Port Neches Middle School, 749 Central Dr, Port Neches, TX	8:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor, school zone
12/4/2019	4758 N. Twin City Hwy, Groves, TX	8:27 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	SH 136 at Huntsman Gate, Port Neches	8:40 AM	UltraRAE / QRAE	0%	0.3 ppm	0 ppm	0 ppm	20.9%			Floral odors (chemical odor). Burnt rubber (butadiene odor).
12/4/2019	Gulf Coast Soccer Fields, 5914 Hwy 347, Port Arthur, TX	8:42 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	NW intersection of SH 136 and FM 366, Port Neches, TX	8:45 AM	MultiRAE / UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.3%		0.30 ppm	Strong chemical odor, restricted work area
12/4/2019	Magnolia and SH 136, Port Neches, TX	8:50 AM	UltraRAE / QRAE	0%	0.05 ppm	0 ppm	0 ppm	20.9%			Floral odors (chemical odor).
12/4/2019	6041 Georgia Ave, Groves, TX	8:58 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	SH 136 at Huntsman Gate, Port Neches	9:12 AM	UltraRAE / QRAE	0%	0.025 ppm	0 ppm	0 ppm	20.9%			Floral odors (chemical odor).
12/4/2019	NW intersection of SH 136 and FM 366, Port Neches, TX	9:15 AM	MultiRAE / UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.3%		0.28 ppm	Restricted work area
12/4/2019	3736 41st ST, Port Arthur, TX	9:16 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor

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<b>Wednesday, December 4, 2019</b>											
12/4/2019	First Christian Church, 5888 9th Ave, Port Arthur, TX	9:32 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	NW intersection of SH 136 and FM 366, Port Neches, TX	9:35 AM	MultiRAE / UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.3%		0.00 ppm	Chemical odor, restricted work area
12/4/2019	7142 Brazos Ave, Port Arthur, TX	9:46 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	2853 Reynolds Ln, Port Neches, TX	10:04 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	End of Georgia Avenue, Groves, TX (corner of Mockingbird and Georgia)	10:12 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/4/2019	298 - 200 Port Neches Atlantic Road, Port Neches, TX	10:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor
12/4/2019	2395 Earle St, Port Neches, TX	10:18 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	6001 9th Ave, Port Arthur, TX	10:30 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			Very light odors. Industrial butadiene odors.
12/4/2019	Hwy 136 and Hwy 347, Port Arthur TX	10:37 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	Port Neches Atlantic Road north of Walnut St, Port Neches, TX	10:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor, restricted work area
12/4/2019	3648 SSGT Lucian, Port Arthur, TX	10:47 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/4/2019	Hwy 136 Spur (Entrance to Huntsman Building)	10:51 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		Light burning odor
12/4/2019	Port Neches Atlantic Road north of Walnut St, Port Neches, TX	11:00:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor, restricted work area

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Other Notes/Observations
<b>Wednesday, December 4, 2019</b>											
12/4/2019	5801 Valley View Estate, Twin City Highway, Port Arthur, TX	11:05 AM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odors
12/4/2019	Hwy 366, between Hwy 136 and Main St, Port Arthur TX	11:06 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		Light burning odor
12/4/2019	350 Twin City Highway, Port Neches, TX	11:18 AM	UltraRAE / QRAE	0%	0.025 ppm	0 ppm	0 ppm	21.1%			Industrial odor. Butadiene odor.
12/4/2019	Twin City at Hogaboom Rd, Groves, TX	11:30 AM	MultiRAE / UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.4%		0.00 ppm	No odor detected, city highway
12/4/2019	SH 136 at FM 366, Port Neches, TX	11:55 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.5%			No odor, restricted work area
12/4/2019	FM 366 at SH 136, Port Neches, TX	12:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.4%			No odor, restricted work area
12/4/2019	272 S. Hwy 347, Nederland, TX	12:34 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	5390 Van Buren Blvd, Groves, TX	12:50 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	2199 - 2193 SH 136, Port Neches, TX	1:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor, restricted work area
12/4/2019	Port Neches River Park, corner of Merriman and Lee, Port Neches, TX	1:04 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/4/2019	Port Neches City Offices, corner of Merriman and Avenue C	1:18 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor
12/4/2019	Port Neches-Groves HS, corner of Merriman and Holland, Port Neches, TX	1:29 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	21.4%			No odor
12/4/2019	516 Orchard Ave, Port Neches, TX	1:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor
12/4/2019	Groves Elementary, 3861 Cleveland Ave, Groves, TX	1:40 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor

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<b>Wednesday, December 4, 2019</b>											
12/4/2019	Port Neches Little League Park, 2000 Merriman, Port Neches, TX	1:52 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor
12/4/2019	Port Neches Elementary, 2101 Llano, Port Neches, TX	2:02 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	21.5%			No odor
12/4/2019	4509 Wilson Ave, Groves, TX	2:05 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	Groves Middle School, 5361 Wilson Ave, Groves, TX	2:16 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	101-125 Orchard Ave, Port Neches, TX	2:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor, restricted work area
12/4/2019	Neches Federal Credit Union, 776 Magnolia, Port Neches, TX	2:21 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor
12/4/2019	402 Avenue E, Port Neches, TX	2:37 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			Intermittent, very light, not unpleasant solvent odor
12/4/2019	53rd St. & Hogaboom, Port Neches, TX	2:55 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	Port Neches HS, corner of Magnolia and New St, Port Neches, TX	2:59 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor
12/4/2019	2792 Miller St, Port Neches, TX	3:09 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	9110 Port Neches Atlantic Rd, Port Neches, TX	3:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor, restricted work area
12/4/2019	2215 Earle St, Port Neches, TX	3:24 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		Sour, moderate odor
12/4/2019	Port Neches Atlantic Road and East 1st St, Port Neches, TX	3:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%			No smell, restricted work area

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<b>Wednesday, December 4, 2019</b>											
12/4/2019	Corner Earle St and Magnolia Ave, Port Neches, TX	4:00 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/4/2019	Port Neches High School, 1704 Park St, Port Neches, TX	4:05 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	2401 Saba Ln, Port Neches, TX	4:12 PM	UltraRAE / QRAE	0%	0.975 ppm	0 ppm	0 ppm	21.2%			Very light unpleasant aromatic odor
12/4/2019	501 - 503 Central Ave, Port Neches, TX	4:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No smell, restricted work area
12/4/2019	302 Yorkshire Dr, Port Neches, TX	4:35 PM	UltraRAE / QRAE	0%	0.550 ppm	0 ppm	0 ppm	20.9%			Intermittent, very light, unpleasant aromatic odor
12/4/2019	2913 10th St, Port Neches, TX	4:38 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	101 - 199 Maple St, Port Neches, TX	4:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%			No odor, restricted work area
12/4/2019	SH 136 and HWY 347, Port Neches, TX	5:00 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor
12/4/2019	7617 Anchor Dr, Port Arthur, TX	5:00 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm		No odor
12/4/2019	HWY 347 and FM 365, Port Arthur, TX	5:14 PM	UltraRAE / QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%			No odor