

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 (H₂S), carbon monoxide (CO), sulfur dioxide (SO₂), 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
Monday, December 2, 2019													
12/2/2019	2967 Cleveland, Groves TX	6:28 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	Gulf Ave. & Hogaboom Rd., Groves, TX	6:35 AM	VRAE/ UltraRAE	0%	0.150 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	Gulf Ave. & W. Washington Blvd, Groves, TX	6:51 AM	VRAE/ UltraRAE	0%	0.000 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	6065 39th St, Groves TX	6:57 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	39th Street, Twin City Hwy, Groves, TX	7:05 AM	VRAE/ UltraRAE	0%	0.0050 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	5011 E. Parkway St., Groves, TX	7:07 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	4823 39th St., Port Arthur, TX	7:18 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	Queen of Vietnam Church, 801 pth Ave, Port Arthur TX	7:18 AM	VRAE/ UltraRAE	0%	0.025 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	2701 TX-136 Spur, Port Neches, TX	7:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%					No odors
12/2/2019	Carpenter's Way Church, 5219 Monroe St., Groves, TX	7:35 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	Thomas Jefferson Middle School, 2200 Jefferson Dr, Port Arthur, TX	7:36 AM	VRAE/ UltraRAE	0%	0.050 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	Near 2104 and 2198 Park Street, Port Neches, TX	7:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%					No odors
12/2/2019	5338 Port Neches Rd, Groves, TX	7:45 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	3120 Labrador Lane, Port Neches, TX	7:50 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	Carla Parker Multi-Purpose Center, 1800 Lakeshore Dr, Port Arthur, TX	8:00 AM	VRAE/ UltraRAE	0%	0.025 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	203 Cambridge Circle, Port Neches, TX	8:05 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	West of TX-136 Spur on FM 366, Port Neches, TX	8:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odors
12/2/2019	200 Castle Circle, Port Neches, TX	8:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Benzene	HCN	Other Notes/Observations
Monday, December 2, 2019													
12/2/2019	6609 Hagaboom Rd, Groves TX	8:19 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	2827 Saba Lane, Port Neches, TX	8:25 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	864 Magnolia Ave, Port Neches, TX	8:35 AM	VRAE/ UltraRAE	0%	0.100 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	East of Park Street on FM 366, Port Neches, TX	8:45 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0.21 ppm			Slight smoke odor
12/2/2019	799 Orchard Ave, Port Neches, TX	8:50 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	Port Neches Park, 601 Grigsby Ave, Port Neches, TX	8:50 AM	VRAE/ UltraRAE	0%	0.000 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	2743 Saba Lane, Port Neches, TX	9:02 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	3528 Main Ave, Groves, TX	9:15 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	Boston Ave. & N. 15th St, Nederland, TX	9:15 AM	VRAE/ UltraRAE	0%	0.075 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	Nederland Swimming Pool, 2300 Avenue H, Nederland, TX	9:44 AM	VRAE/ UltraRAE	0%	0.050 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	2213 Earle Street, Port Neches, TX	9:50 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	3297 South Dr, Groves, TX	9:50 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	East Cypress Street at East Port Neches Avenue, Port Neches, TX	10:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					No odors
12/2/2019	5562 25th St., Groves, TX	10:04 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	YMCA of Port Arthur, 6760 9th Ave, Port Arthur, TX	10:06 AM	VRAE/ UltraRAE	0%	0.025 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	2734 Evergreen Dr, Port Arthur, TX	10:20 AM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	1127 Spurlock Rd, Nederland, TX	10:30 AM	VRAE/ UltraRAE	0%	0.150 ppm		0 ppm	20.9%	0 ppm			0 ppm	No odors
12/2/2019	SH-136 Spur, Groves, TX	10:35 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	4849 TX-73, Port Arthur, TX	10:40 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.2%		0.00 ppm			No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Benzene	HCN	Other Notes/Observations
Monday, December 2, 2019													
12/2/2019	286 Orchard Street, Port Neches, TX	11:12 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	West of TX-136 Spur on FM 366, Port Neches, TX	11:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					No odors
12/2/2019	365 Orchard Street, Port Neches, TX	11:19 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	Orchard Street, Port Neches, TX	11:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	West of TX-136 Spur on FM 366, Port Neches, TX	11:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					No odors
12/2/2019	6400 Van Buren Boulevard, Groves, TX	11:46 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	5411 Marion Avenue, Groves, TX	12:03 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	5311 Beaumont Avenue, Groves, TX	12:14 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	FM 366, Port Neches, TX	12:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					No odors
12/2/2019	Hwy 136 & 366, Port Neches, TX	12:28 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				Very light to moderate acrid/burnt odor
12/2/2019	5548 Garfield Avenue, Groves, TX	12:31 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	Church on the Rock, 6355 Hwy 69 S, Beaumont, TX	12:40 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0.5 ppm	No odors
12/2/2019	5411 Lincoln Avenue, Groves, TX	12:44 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	East of Park Street on FM 366, Port Neches, TX	12:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					No odors
12/2/2019	6201 Van Buren Boulevard, Groves, TX	1:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	1515 N Twin City Hwy, Nederland, TX	1:06 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors
12/2/2019	5535 Gulf Avenue, Groves, TX	1:12 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	East of Park Street on FM 366, Port Neches, TX	1:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					No odors
12/2/2019	343 N. Twin City Hwy, Nederland, TX	1:16 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%					No odors
12/2/2019	5700 Georgia Avenue, Groves, TX	1:24 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Benzene	HCN	Other Notes/Observations
Monday, December 2, 2019													
12/2/2019	4800 FM 365, Port Arthur, TX	1:28 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors
12/2/2019	5500 Mockingbird Lane, Groves, TX	1:34 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	Life Church, 4600 Jimmy Johnson Blvd, Port Arthur, TX	1:38 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors
12/2/2019	TX-136 Spur North of FM 366, Port Neches, TX	1:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					No odors
12/2/2019	Hwy 347 East of Spur 136, Port Arthur TX	1:56 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors
12/2/2019	2020 Merriman Street, Port Neches, TX	2:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	Central Park, 2116 Merriman St, Port Neches, TX	2:09 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors, OGIC detected VOC at southmost non-spherical tank
12/2/2019	2160 Merriman Street, Port Neches, TX	2:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	6414 Carolina Ave, Groves, TX	2:25 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	Very light to light wastewater treatment plant odors
12/2/2019	621 Saybrook Lane, Port Neches, TX	2:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	5931 Alabama Ave, Groves, TX	2:38 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors
12/2/2019	East of Park Street on FM 366, Port Neches, TX	2:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					Very slight smoke smell
12/2/2019	501 Drawhorn Drive, Port Neches, TX	2:52 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	5535 Gulf Ave, Groves, TX	2:52 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors
12/2/2019	5535 Main St, Groves, TX	3:03 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors detected, light black smoke
12/2/2019	Near 2199-2105 Park Street, Port Neches, TX	3:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					No odors
12/2/2019	Groves Middle School, 5201 Wilson Ave, Groves, TX	3:21 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Benzene	HCN	Other Notes/Observations
Monday, December 2, 2019													
12/2/2019	Van Buren Elementary, 6400 Van Buren Blvd, Groves, TX	3:33 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors detected, light black plume
12/2/2019	Groves Elementary, 3901 Cleveland Ave, Groves, TX	3:33 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors
12/2/2019	1600 Main St., Port Neches, TX	3:40 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	East of Park Street on FM 366, Port Neches, TX	3:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					No odors
12/2/2019	Magnolia Ave and Park St, Port Neches, TX	3:56 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	430 Gist Drive, Port Neches, TX	4:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	413 Lofton, Port Neches, TX	4:04 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	Taft Elementary, 2500 Taft Ave, Port Arthur TX	4:05 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	No odors
12/2/2019	2502 Saba Lane, Port Neches, TX	4:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	3181 Saba Ln, Port Neches, TX	4:15 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	West of TX-136 Spur on FM 366, Port Neches, TX	4:20 PM	MultiRAE/ UltraRAE	0%	5 ppm	0 ppm	0 ppm	21.3%		0.85 ppm			Strong chemical odor
12/2/2019	Corner of Pine and Hwy 366, Port Neches TX	4:26 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	Light metallic odor, light brown smoke.
12/2/2019	352 Windsor Creek, Port Neches, TX	4:29 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	Intersection of 365 and 347, Port Neches TX	4:32 PM	MultiRAE		0 ppm	0 ppm		20.9%	0 ppm				No odors
12/2/2019	300 Castle Drive, Port Neches, TX	4:40 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	TX-136 Spur North of FM 366, Port Neches, TX	4:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					Slight burning odor
12/2/2019	Hwy 366, 0.4 mile East of Spur 136, Port Neches TX	4:47 PM	UltraRAE/ MultiRAE	0%	0.000 ppm			20.9%	0 ppm			0 ppm	Moderate metallic odor, light brown smoke
12/2/2019	Hwy 366 and Spur 136, Port Neches TX	5:02 PM	UltraRAE/ MultiRAE	0%	0.5000 ppm			20.9%	0 ppm		0.100 ppm	0.5 ppm	Moderate to strong metallic odor, light brown smoke

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	Benzene	HCN	Other Notes/ Observations
Monday, December 2, 2019													
12/2/2019	7335 Indian River Drive, Port Arthur, TX	5:04 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					
12/2/2019	FM 366 East of TX-136 Spur, Port Neches, TX	5:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%					Smoke odor
12/2/2019	350 Twin City Highway, Port Neches, TX	5:26 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%					