

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	HCN	Other Notes/ Observations
Friday, December 6, 2019												
12/6/2019	Texas Department of Public Safety, 711 Edgar Brown Dr, Orange, TX	6:34 AM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	199 Highway 73, Bridge City, TX	6:35 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	128 East Round Bunch Road, Bridge City, TX	6:55 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	Orangefield High School, 9974 Orangefield Road, Orange, TX	6:56 AM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	999 Carolina Drive, Bridge City, TX	7:15 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	995 West Round Bunch, Bridge City, TX	7:26 AM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	319 Linda Street, Bridge City, TX	7:37 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	895 Sudduth Drive, Bridge City, TX	7:50 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	Port Neches Effie and Wilton Hebert Public Library, 2025 Merriman Street, Port Neches, TX	8:30 AM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	Highway 366 Northwest of Highway 73, Port Neches, TX	8:32 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	7687 39th Street, Port Arthur, TX	8:45 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	brief firewood smell
12/6/2019	720 Lee Avenue, Port Neches, TX	8:52 AM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	2152 Merriman St, Port Neches, TX	9:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Pure Atlantic Road Northwest of Pinetop Road, Groves, TX	9:03 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	876 Magnolia Avenue, Port Neches, TX	9:11 AM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	718 N Cherokee Ave, Port Neches, TX	9:28 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Intersection of Orchard at Port Neches Avenue, Port Neches, TX	9:28 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	810 N Cherokee Ave, Port Neches, TX	9:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	18905 I-10 Frontage, Vidor, TX	9:54 AM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	Port Neches Atlantic Road North of City of Groves Public Works Department, Port Neches, TX	9:56 AM	UltraRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	792 Texas Ave, Port Neches, TX	10:05 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	701 Texas Ave, Port Neches, TX	10:22 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	11475 FM 1442, Orange, TX	10:29 AM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/ Observations
Friday, December 6, 2019												
12/6/2019	Intersection of Hogaboom and Main Avenue, Groves, TX	10:40 AM	UltraRAE/QRAE	0%	0.025 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	Very light to light burnt hydrocarbon smell
12/6/2019	2300 Saybrook Lane, Port Neches, TX	10:41 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Claiborne Park, Enchanted Lane and North Street, Vidor, TX	10:51 AM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	633 Drawhorn Drive, Port Neches, TX	11:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	517 Drawhorn Drive, Port Neches, TX	11:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	2309 Patricia Lane, Port Neches, TX	11:37 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	2213 Earle St, Port Neches, TX	11:55 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	854 Magnolia Ave, Port Neches, TX	12:16 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Golden Triangle Church on the Rock, 6355 Highway 69, Beaumont, TX	12:25 PM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	320 South Twin Cities Highway, Nederland, TX	12:26 PM	UltraRAE/QRAE	0%	0.1 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	2101 Llano St, Port Neches, TX	12:34 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	9th Avenue west of Jimmy Johnson Boulevard, Port Arthur, TX	12:42 PM	UltraRAE/QRAE	0%	0.075 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	Meadowgreen Park, Meadowgreen Drive and Canterbury Lane, Port Neches, TX	12:48 PM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	4600 Jimmy Johnson Boulevard, Port Arthur, TX	1:01 PM	UltraRAE/QRAE	0%	0.05 ppm	0 ppm	0 ppm	21.3%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	423 Avenue I, Port Neches, TX	1:03 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Gulf Coast Youth Soccer Club, 5601 Twin City Highway, Port Arthur, TX	1:15 PM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	1713 Park Street, Port Neches, TX	1:20 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Groves Middle School, 5201 Wilson, Groves, TX	1:23 PM	UltraRAE/QRAE	0%	0.05 ppm	0 ppm	0 ppm	21.4%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	1798 Park Street, Port Neches, TX	1:37 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Valverde Baptist Church, 39th Street and Cleveland Avenue, Groves, TX	1:45 PM	MiniRAE/QRAE	0%	0.1 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	136 Spur Near Highway 347 Intersection, Port Neches, TX	1:53 PM	UltraRAE/QRAE	0%	0.05 ppm	0 ppm	0 ppm	21.3%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	421 Avenue F, Port Neches, TX	1:55 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	7610 Twin Cities Highway, Port Arthur, TX	2:08 PM	UltraRAE/QRAE	0%	0.075 ppm	0 ppm	0 ppm	21.3%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	1606 Park Street, Port Neches, TX	2:12 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Fairlea Park, 39th Street and Grandview Avenue, Port Arthur, TX	2:20 PM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors

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Friday, December 6, 2019												
12/6/2019	Ridgewood Elementary, 2820 Merriman Street, Port Neches, TX	2:22 PM	UltraRAE/QRAE	0%	0.075 ppm	0 ppm	0 ppm	21.4%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	413 Avenue D, Port Neches, TX	2:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Port Neches Effie and Wilton Hebert Public Library, 2025 Merriman Street, Port Neches	2:40 PM	UltraRAE/QRAE	0%	0.1 ppm	0 ppm	0 ppm	21.3%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	Lion's Park, Grant Avenue and Van Buren Street, Port Arthur, TX	2:45 PM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor to very light odor detected
12/6/2019	409 Avenue D, Port Neches, TX	2:48 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Port Neches Park, 601 Grigsby Avenue, Port Neches, TX	3:00 PM	UltraRAE/QRAE	0%	0.1 ppm	0 ppm	0 ppm	21.2%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	1106 Main Street, Port Neches, TX	3:08 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	1720 Magnolia Avenue, Port Neches, TX	3:26 PM	UltraRAE/QRAE	0%	0.075 ppm	0 ppm	0 ppm	21.3%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	431 Avenue B, Port Neches, TX	3:27 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	1st Street and Port Neches Avenue, Port Neches, TX	3:40 PM	UltraRAE/QRAE	0%	0.075 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	2222 Earle St, Port Neches, TX	3:52 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Highland Park Elementary, South 6th Street, Nederland, TX	3:57 PM	UltraRAE/QRAE	0%	0.1 ppm	0 ppm	0 ppm	21.2%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	Intersection of Orchard at Port Neches Avenue, Port Neches, TX	4:05 PM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	2217 Earle St, Port Neches, TX	4:11 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/6/2019	Nederland Avenue north of N 27th Street, Nederland, TX	4:13 PM	UltraRAE/QRAE	0%	0.125 ppm	0 ppm	0 ppm	21.2%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	Nederland Recreation Center, 2301 Avenue H, Nederland, TX	4:30 PM	UltraRAE/QRAE	0%	0.075 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	Intersection of Highway 357 and 60th Street, Port Arthur, TX	4:35 PM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/6/2019	Nederland Alternative Education School, 300 South 12th Street, Nederland, TX	4:46 PM	UltraRAE/QRAE	0%	0.125 ppm	0 ppm	0 ppm	20.9%	0 ppm	0 ppm	0 ppm	No odors
12/6/2019	Corner of Saba Lane and Gist Drive, Port Neches, TX	5:07 PM	MiniRAE/QRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors