

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
Tuesday, December 3, 2019												
12/3/2019	3923 Cleveland Ave., Groves, TX	6:56 AM	MiniRAE/ MultiRAE	0%	0 ppm			20.9%			0 ppm	No odor
12/3/2019	2213 Earle Street, Port Neches, Texas 77651	7:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	126 Orchard Avenue, Port Neches, Texas 77651	7:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/3/2019	404 E Port Neches Ave., Port Neches, TX	7:15 AM	MiniRAE/ MultiRAE	0%	0 ppm			20.9%			0 ppm	No odor
12/3/2019	400 Gist Drive, Port Neches, Texas 77651	7:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	6068 FM 366, Port Neches, TX	7:36 AM	MiniRAE/ MultiRAE	0%	0 ppm			20.9%			0 ppm	No odor
12/3/2019	2186 Merriman St., Port Neches, TX	7:38 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odor
12/3/2019	365 Orchard Street, Port Neches, Texas 77651	7:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/3/2019	FM 366/SH 136, Port Neches, TX	7:48 AM	MiniRAE/ MultiRAE	0%	0.8 ppm			20.9%			0 ppm	Butadiene (rubber), chemical waste water odor
12/3/2019	2001 Merriman St., Port Neches, TX	7:57 AM	MiniRAE/ MultiRAE	0%	0 ppm			20.9%			0 ppm	No odor
12/3/2019	2406 Saba Lane, Port Neches, Texas 77651	8:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	FM 366 near SH 136, Port Neches, Texas 77651	8:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/3/2019	410 Kings Row, Port Neches, Texas 77651	8:16 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Tuesday, December 3, 2019												
12/3/2019	3612 Hwy 365, Nederland, TX	8:21 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odor
12/3/2019	301 King Arthur Drive, Port Neches, Texas 77651	8:29 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Port Neches Middle School, 749 Central Drive, Port Neches, Texas 77651	8:35 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.2%		0.11 ppm		Slight odor detected
12/3/2019	1015 S 27th St., Nederland, TX	8:45 AM	MiniRAE/ MultiRAE	0%	0 ppm			20.9%			0 ppm	No odor
12/3/2019	310 Nugent Drive, Port Neches, Texas 77651	8:47 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	1619 Hwy 365, Port Arthur, TX	8:48 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odor
12/3/2019	Knights of Columbus, 700 Central Drive, Port Neches, Texas 77651	8:50 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor detected
12/3/2019	204 N 13th St., Nederland, TX	8:58 AM	MiniRAE/ MultiRAE	0%	0.1 ppm			20.9%			0 ppm	No odor
12/3/2019	202 Cambridge Drive, Port Neches, Texas 77651	9:03 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	220 N 17th St., Nederland, TX	9:09 AM	MiniRAE/ MultiRAE	0%	0.1 ppm			20.9%			0 ppm	No odor
12/3/2019	Between 6000 and 6074 block of FM 366, Port Neches, 77651	9:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%				No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Tuesday, December 3, 2019												
12/3/2019	702 North Cherokee Avenue, Port Neches, Texas 77651	9:17 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	State Prison, 3879 FM 3514, Nederland, TX	9:20 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odor
12/3/2019	2507 Helena Ave., Nederland, TX	9:21 AM	MiniRAE/ MultiRAE		0.1 ppm			20.9%				No odor
12/3/2019	792 North Cherokee Avenue, Port Neches, Texas 77651	9:25 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	2269 N 18th St., Nederland, TX	9:28 AM	MiniRAE/ MultiRAE	0%	0.1 ppm			20.9%			0 ppm	No odor
12/3/2019	2215 Nall Street, Port Neches, Texas 77651	9:34 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	SH 136 North of FM 366, Port Neches, Texas 77651	9:40 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%				No odor
12/3/2019	2143 US 69, Nederland, TX	9:40 AM	UltraRae		0 ppm							No odor
12/3/2019	2109 15th Street, Port Neches, Texas 77651	9:42 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	2425 Nall Street, Port Neches, Texas 77651	9:54 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Regional Airport, 4899 Hangar Dr., Beaumont, TX	9:55 AM	UltraRae		0 ppm							No odor
12/3/2019	4600 Jimmy Johnson Blvd., Port Arthur, TX	9:57 AM	MiniRAE/ MultiRAE	0%	0.2 ppm			20.9%			0 ppm	No odor
12/3/2019	306 Gist Dr., Port Neches, TX	10:05 AM	MiniRAE/ MultiRAE	0%	0.1 ppm			20.9%			0 ppm	No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Tuesday, December 3, 2019												
12/3/2019	820 Baker Avenue, Port Neches, Texas 77651	10:07 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Atlantic Road, near Port Neches, Texas 77651	10:10 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/3/2019	1st Baptist Church, 158 S 20th St., Nederland, TX	10:16 AM	UltraRae		0 ppm							No odor
12/3/2019	2413 Harms Circle, Port Neches, Texas 77651	10:21 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	2200 Jefferson Dr., Port Arthur, TX	10:25 AM	MiniRAE/ MultiRAE	0%	0.1 ppm			20.9%			0 ppm	No odor
12/3/2019	608 Thomas Haven Drive, Port Neches, Texas 77651	10:34 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	SH 136 North of FM 366, Port Neches, Texas 77651	10:35 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/3/2019	746 Nederland Ave., Nederland, TX	10:35 AM	UltraRae		0 ppm							No odor
12/3/2019	6760 Ninth Ave., Port Arthur, TX	10:40 AM	MiniRAE/ MultiRAE	0%	0.1 ppm			20.9%			0 ppm	No odor
12/3/2019	726 Magnolia Street, Port Neches, Texas 77651	10:48 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	2198 Main St., Port Neches, TX	11:00 AM	UltraRae		0 ppm							No odor
12/3/2019	1810 Dieu Street, Port Neches, Texas 77651	11:03 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	FM 366 due East of Park Street, Port Neches, Texas 77651	11:15 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Tuesday, December 3, 2019												
12/3/2019	1125 Eugene Street, Port Neches, Texas 77651	11:17 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	754 Central Drive Port Neches, Texas 77651	11:27 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	700 Central Drive, Port Neches, Texas 77651	11:38 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	FM 366 due East of Park Street, Port Neches, Texas 77651	11:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/3/2019	1826 Dieu Street, Port Neches, Texas 77651	11:47 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Between 333 and 338 Pine Stree, Port Neches, Texas 77651	12:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/3/2019	2500 Edgemont, Nederland, TX	12:34 PM	UltraRAE/VRAE	0%	0.000 ppm			20.4%	0.0 ppm		0 ppm	No odor
12/3/2019	SH-136 Spur/366, Port Neches, TX	12:38 PM	MultiRae		0 ppm	0 ppm		20.9%	0 ppm			No odor
12/3/2019	208 Sycamore, Port Neches, Texas 77651	12:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%				No odor
12/3/2019	2126 Nall Street, Port Neches, Texas 77651	1:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Meadow Green Dr./San Saba Ln., Port Neches, TX	1:04 PM	MultiRae		0 ppm	0 ppm		20.9%	0 ppm			No odor
12/3/2019	2117 Magnolia Ave., Port Neches, TX	1:06 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	No odor
12/3/2019	398-300 Canal Street, Port Neches, Texas 77651	1:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%				No odor
12/3/2019	2061 Oak Terrace, Port Neches, Texas 77651	1:17 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Earle St./Betty Dr., Port Neches, TX	1:21 PM	MultiRae		0 ppm	0 ppm		20.9%	0 ppm			No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Tuesday, December 3, 2019												
12/3/2019	801 Gulf, Port Neches, Texas 77651	1:26 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	1942 Gulf, Port Neches, Texas 77651	1:34 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Central Park (between Merriman and Park), Port Neches, TX	1:38 PM	MultiRae		0 ppm	0 ppm		20.9%	0 ppm			No odor
12/3/2019	1025 Port Neches Ave., Port Neches, TX	1:39 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	No odor
12/3/2019	Port Neches High School, Corner of 1600 Merriman and 700 New Avenue, Port Neches, Texas 77651	1:43 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	106 East Cypress, Port Neches, Texas 77651	1:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%				No odor
12/3/2019	Neches River Wheelhouse, Merriman St./Park St., Port Neches, TX	1:56 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	No odor
12/3/2019	Port Neches High School, 701 Holland Avenue, Port Neches, Texas 77651	1:57 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Dearing St./Ave. G, Port Neches, TX	2:05 PM	MultiRae		0 ppm	0 ppm		20.9%	0 ppm			No odor
12/3/2019	Port Neches High School, 432 Avenue D, Port Neches, Texas 77651	2:07 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	East Port Neches Avenue, Port Neches, Texas 77651	2:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%				
12/3/2019	Ave. E/Dearing, Port Neches, TX	2:17 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Tuesday, December 3, 2019												
12/3/2019	Port Neches High School, Corner of 1400 Park Street and 400 Avenue F, Port Neches, Texas 77651	2:19 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Grigsby Ave./Main St., Port Neches, TX	2:29 PM	MultiRae		0 ppm	0 ppm		21.3%	0 ppm			No odor
12/3/2019	423 Avenue I, Port Neches, Texas 77651	2:32 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	1606 Park St., Port Neches, TX	2:36 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	No odor
12/3/2019	Corner of 400 Avenue J and 1900 Dearing Street, Port Neches, Texas 77651	2:43 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	FM 366 at SH 136, Port Neches, Texas 77651	2:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%				No odor
12/3/2019	Port Neches Riverfront Park (Park Street near Merriman), Port Neches, TX	2:51 PM	MultiRae		0 ppm	0 ppm		21.2%	0 ppm			No odor
12/3/2019	Corner of 1500 Main Street and 300 Avenue F, Port Neches, Texas 77651	2:53 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	705 Hebert Woods, Port Neches, TX	2:56 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	No odor
12/3/2019	1106 Main Street, Port Neches, Texas 77651	3:02 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	2145 13th Street, Port Neches, Texas 77651	3:12 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	New Ave./Merriman St., Neches-Groves High School, Port Neches, TX	3:12 PM	MultiRae		0 ppm	0 ppm		21.1%	0 ppm			No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Tuesday, December 3, 2019												
12/3/2019	FM 366 due East of Park Street, Port Neches, Texas 77651	3:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%				No odor
12/3/2019	Central Park/Port Neches Little League and Youth Softball/Baseball fields, Port Neches, TX	3:17 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	No odor
12/3/2019	2025 12th Street, Port Neches, Texas 77651	3:19 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	1902 12th Street, Port Neches, Texas 77651	3:24 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Port Neches-Groves High School/Park St., Port Neches, TX	3:29 PM	MultiRae		0 ppm	0 ppm		21.2%	0 ppm			No odor
12/3/2019	1801 Live Oak, Port Neches, Texas 77651	3:40 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	2104-2198 Park Street, Port Neches, Texas 77651	3:45 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%				No odor
12/3/2019	Ridgewood Elementary School, 2820 Merriman St., Port Neches, TX	3:46 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	Light diesel/gasoline odors
12/3/2019	1414 Live Oak, Port Neches, Texas 77651	3:50 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Woodcrest Elementary School, 1522 Heisler St., Port Neches, TX	3:58 PM	MultiRae		0 ppm	0 ppm		20.9%	0 ppm			No odor
12/3/2019	1319 Port Neches Avenue, Port Neches, Texas 77651	4:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	2711 Mary Lane, Port Neches, TX	4:05 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Tuesday, December 3, 2019												
12/3/2019	1107 Port Neches Avenue, Port Neches, 77651	4:09 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	SH 136 Northeast of FM 366, Port Neches, Texas 77651	4:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.3%				Slight smoke odor
12/3/2019	913 Port Neches Avenue, Port Neches, Texas 77651	4:17 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	729 Port Neches Avenue, Port Neches, Texas 77651	4:25 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	Port Neches Middle School, 749 Central Dr., Port Neches, TX	4:27 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	No odor
12/3/2019	Llano St./Magnolia Ave., Port Neches Elementary, Port Neches, TX	4:28 PM	MultiRae		0 ppm	0 ppm		20.9%	0 ppm			No odor
12/3/2019	808 Hess Street, Port Neches, Texas 77651	4:36 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	2153-2151 SH 136, Port Neches, Texas 77651	4:40 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				Slight smoke odor
12/3/2019	1402 Llano St., Port Neches, TX	4:46 PM	UltraRAE/VRAE	0%	0.000 ppm				0.0 ppm		0 ppm	No odor
12/3/2019	702 Hess Street, Port Neches, Texas 77651	4:47 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	720 Lee Avenue, Port Neches, Texas 77651	4:54 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				
12/3/2019	804 Dearing Steet, Port Neches, Texas 77651	5:04 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				