

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	1004 Merriman St., Port Neches, TX	6:00 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	6400 Van Buren St., Groves, TX	6:30 PM	MultiRAE/MiniRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		0 ppm	No odor
12/3/2019	706 Magnolia Ave., Port Neches, TX	6:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	5201 Wilson St., Groves, TX	6:39 PM	MultiRAE/MiniRAE	0%	0 ppm	0 ppm		20.9%	0 ppm		0 ppm	No odor
12/3/2019	2820 Merriman St, Port Neches, TX	6:42 PM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	749 Central Dr., Port Neches, TX	6:50 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0 ppm		No odor
12/3/2019	3901 Cleveland Ave., Groves, TX	6:51 PM	MultiRAE/MiniRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm		0 ppm	Brush fire like odor, burger smell
12/3/2019	2101 Llano St., Port Neches, TX	6:58 PM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	1401 Merriman St., Port Neches, TX	7:07 PM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	Orchard Ave./366, Port Neches, TX	7:10 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	Magnolia / Earle, Port Neches, TX	7:17 PM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	2500 Taft Ave., Port Arthur, TX	7:22 PM	MultiRAE/MiniRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm		0 ppm	No odor
12/3/2019	101 Orchard Ave., Port Neches, TX	7:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	414 Ave. J, Port Neches, TX	7:30 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	319 Lancaster Ln., Port Neches, TX	7:40 PM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	1008 E. Port Neches Ave., Port Neches, TX	7:50 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%				No odor
12/3/2019	1029 West Round Bunch Rd., Bridge City, TX	7:51 PM	MultiRAE/MiniRAE	0%	0.1ppm	0 ppm		20.9%	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	140-198 Grigsby Ave., Port Neches, TX	8:01 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	21.3%		0 ppm		No odor
12/3/2019	6400 Van Buren St., Groves, TX	8:10 PM	MultiRAE/ UltraRAE	0%	0.025 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	2056 West Round Bunch Rd., Orange, TX	8:14 PM	MultiRAE/ MiniRAE	0%	0.1ppm	0 ppm		20.9%	0 ppm		0 ppm	No odor
12/3/2019	2195-2199 Park St., Port Neches, TX	8:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/3/2019	5201 Wilson St., Groves, TX	8:25 PM	MultiRAE/ UltraRAE	0%	0.200 ppm			20.9%	0 ppm		0 ppm	Gasoline-like odor detected, disappeared after 21 minutes
12/3/2019	10288 FM 105, Orange, TX	8:33 PM	MultiRAE/ MiniRAE	0%	0.2 ppm	0 ppm		20.9%	0 ppm		0 ppm	No odor
12/3/2019	2116-2124 SH 136 Spur, Port Neches, TX	8:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				Slight Butadiene odor in restricted work area.
12/3/2019	FM 366 / Hogaboom Rd., Port Neches, TX	8:38 PM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	14795 Duncan Woods Ln., Vidor, TX	8:54 PM	MultiRAE/ MiniRAE	0%	0.2 ppm	0 ppm		20.9%	0 ppm		0 ppm	No odor
12/3/2019	2107-2115 SH 136 Spur, Port Neches, TX	8:55 PM	MultiRAE/ UltraRAE	0%	2.83	0 ppm	0 ppm	21.2%		0.93 ppm		Strong Butadiene odor in restricted work area.
12/3/2019	301 Grigsby Ave., Port Neches, TX	9:00 PM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0 ppm		No odor
12/3/2019	2110 S. Main St., Vidor, TX	9:12 PM	MultiRAE/ MiniRAE	0%	0.2 ppm	0 ppm		20.9%	0 ppm		0 ppm	No odor
12/3/2019	101 E. Port Neches Ave., Port Neches, TX	9:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	749 Central Dr., Port Neches, TX	9:25 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	1035 West Round Bunch Rd., Bridge City, TX	9:29 PM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	101-121 E. Port Neches Ave., Port Neches, TX	9:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				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	100 Circle Dr., Bridge City, TX	9:48 PM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	128 Sycamore St., Port Neches, TX	9:55 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/3/2019	4837 SH 87, Orange, TX	10:04 PM	MultiRAE/ MiniRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm		0 ppm	No odor
12/3/2019	2101 Llano St., Port Neches, TX	10:10 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	SH-136 Spur/366, Port Neches, TX	10:15 PM	MultiRAE/ UltraRAE	0%	0.56 ppm	0 ppm	0 ppm	20.9%		0.39 ppm		Slight Butadiene odor in restricted work area.
12/3/2019	4234 FM 408, Orangefield, TX	10:19 PM	MultiRAE/ UltraRAE	0%	0.025 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	Old Ferry Rd. / Stapper St., Bridge City, TX	10:21 PM	MultiRAE/ MiniRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm		0 ppm	No odor
12/3/2019	2195-2199 Park St., Port Neches, TX	10:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	2040 Llano St., Port Neches, TX	10:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	2717 West Round Bunch Dr., Bridge City, TX	10:36 PM	MultiRAE/ UltraRAE	0%	0.025 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	7626 Gulfway Dr., Port Arthur, TX	10:38 PM	MultiRAE/ MiniRAE	0%	0.2 ppm	0 ppm		20.9%	0 ppm		0 ppm	Cooling tower water odor
12/3/2019	SH-136 Spur/366, Port Neches, TX	10:50 PM	MultiRAE/ UltraRAE	0%	8.0 ppm	0 ppm	0 ppm	20.9%		3.62 ppm		Strong Butadiene odor in restricted work area.
12/3/2019	706 Magnolia Ave., Port Neches, TX	11:05 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	1004 Merriman St., Port Neches, TX	11:13 PM	MultiRAE/ UltraRAE	0%	0.150 ppm			20.9%	0 ppm		0 ppm	No odor
12/3/2019	SH-136 Spur/366, Port Neches, TX	11:15 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/3/2019	302 E. First St., Port Neches, TX	11:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.0%				No odor
12/3/2019	749 Central Dr., Port Neches, TX	11:35 PM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Wednesday, December 4, 2019												
12/4/2019	202 Pine St., Port Neches, TX	12:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.1%				No odor
12/4/2019	1002 Johnson Ave., Port Neches, TX	12:01 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	516 Orchard St., Port Neches, TX	12:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	3501 S. Sgt. Lucian Adams Dr., Port Arthur, TX	12:31 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	910 Marion St., Port Neches, TX	12:35 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	6281 West Round Bunch Rd., Orange, TX	12:39 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odor
12/4/2019	Pine St./366, Port Neches, TX	12:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/4/2019	1048 SH 87, Port Arthur, TX	1:00 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	701 E. First St., Port Neches, TX	1:05 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/4/2019	902 Block St., Port Neches, TX	1:05 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	3600 Gates Blvd., Port Arthur, TX	1:20 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	149 E. Cypress St., Port Neches, TX	1:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	618 Block St., Port Neches, TX	1:35 AM	MultiRAE/ UltraRAE	0%	0 ppm	0 ppm	0 ppm	20.9%		0 ppm		No odor
12/4/2019	6001 39th St., Groves, TX	1:35 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	Spur 136 / Hwy 366, Port Neches, TX	1:36 AM	MiniRAE/ MultiRAE	0%	1.8 ppm	0 ppm		20.9%	0 ppm			Light chemical smell
12/4/2019	402 E. Port Neches, Port Neches, TX	1:50 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	7201 32nd St., Groves, TX	1:51 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor

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Wednesday, December 4, 2019												
12/4/2019	5201 Wilson Ave., Groves, TX	2:05 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	1324 Port Neches Ave., Port Neches, TX	2:10 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	701 Magnolia Ave., Port Neches, TX	2:10 AM	MiniRAE/ MultiRAE	0%	0.8 ppm	0 ppm		20.9%	0 ppm			No odor
12/4/2019	SH-136 Spur/366, Port Neches, TX	2:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	4900 Twin City Hwy, Groves, TX	2:20 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	2134 Park St., Port Neches, TX	2:33 AM	MiniRAE/ MultiRAE	0%	0.5 ppm	0 ppm		20.9%	0 ppm			No odor
12/4/2019	1722 Port Neches Ave., Port Neches, TX	2:35 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	Jack Brooks Regional Airport, Nederland, TX	2:37 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	120 Maple St., Port Neches, TX	2:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	2126 Nall St., Port Neches, TX	2:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	2620 Helena Ave., Nederland, TX	2:50 AM	MultiRAE/ UltraRAE	0%	0 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	2101 Llano St., Port Neches, TX	2:50 AM	MiniRAE/ MultiRAE	0%	0.6 ppm	0 ppm		20.9%	0 ppm			No odor
12/4/2019	1401 Merriman St., Port Neches, TX	3:01 AM	MiniRAE/ MultiRAE	0%	0.3 ppm	0 ppm		20.9%	0 ppm			No odor
12/4/2019	7500 N Twin City Hwy, Port Arthur, TX	3:15 AM	MultiRAE/ UltraRAE	0%	0.125 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	1600 Main St., Port Neches, TX	3:15 AM	MiniRAE/ MultiRAE	0%	0.4 ppm	0 ppm		20.9%	0 ppm			No odor
12/4/2019	124 Pecan St., Port Neches, TX	3:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/4/2019	1310 Welch Ave., Port Neches, TX	3:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	2820 Merriman St., Port Neches, TX	3:30 AM	MultiRAE/ UltraRAE	0%	0.200 ppm			20.9%	0 ppm		0 ppm	No odor

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Wednesday, December 4, 2019												
12/4/2019	706 Magnolia Ave., Port Neches, TX	3:38 AM	MultiRAE/ UltraRAE	0%	0.475 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	121 E. Cypress St., Port Neches, TX	3:45 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	1401 Merriman St., Port Neches, TX	3:52 AM	MultiRAE/ UltraRAE	0%	0.250 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	325 Ave. C, Port Neches, TX	4:00 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	2101 Llano St. Port Neches, TX 77651	4:02 AM	MultiRAE/ UltraRAE	0%	0.200 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	100 Port Neches Atlantic Rd., Port Neches, TX	4:11 AM	MiniRAE/ MultiRAE	0%	0.2 ppm	0 ppm		20.9%	0 ppm			No odor
12/4/2019	606 Magnolia Ave., Port Neches, TX	4:15 AM	MultiRAE/ UltraRAE	0%	0.350 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	SH-136 Spur/366, Port Neches, TX	4:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.2%				No odor
12/4/2019	329 Ave. D, Port Neches, TX	4:30 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	136 B Main St., Port Neches, TX	4:30 AM	MultiRAE/ UltraRAE	0%	0.850 ppm			20.9%	0 ppm		0 ppm	No odor
12/4/2019	Pine St./366, Port Neches, TX	4:50 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odor
12/4/2019	2210 Earle St., Port Neches, TX	4:52 AM	MiniRAE/ MultiRAE	0%	0.3 ppm	0 ppm		20.9%	0 ppm			No odor
12/4/2019	511 Orchard St., Port Neches, TX	5:20 AM	MultiRAE	0%	0 ppm	0 ppm	0 ppm	21.0%				No odor