

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
Sunday, December 8, 2019												
12/8/2019	Central Park, south of Central Drive and east of Merriman Street, Port Neches, TX	6:10 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	Gathering Place Church, 1011 Grigsby Avenue, Port Neches, TX	6:28 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	1990 Llano St., Port Neches, Tx 77651	6:30 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Woodcrest Elementary, 1522 Heisler Street, Port Neches, TX	6:42 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	776 Magnolia Ave., Port Neches, Tx 77651	6:50 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	A Church of Jesus, 610 Victor Drive, Port Neches, TX	6:50 AM	MultiRAE Lite/ MultiRAE 3000	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	Bethel Methodist Church, 1125 Wilson Street, Port Neches, TX	6:55 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	1713 Park St., Port Neches, Tx 77651	7:00 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	773 Cherokee Ave., Port Neches, Tx 77651	7:10 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	South 5th Street Park, intersection of Avenue E and S 5th Street, Nederland, TX	7:12 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	Port Neches Middle School, 749 Central Drive, Port Neches, TX	7:20 AM	MultiRAE Lite/ MultiRAE 3000	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Central Middle School, 200 North 17th Street, Nederland, TX	7:26 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	637 Drawhorn Dr., Port Neches, Tx 77651	7:30 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	1745 Green Oaks Dr., Port Neches, Tx 77651	7:34 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Nederland Parks and Recreation Department, 2301 Avenue H, Nederland, TX	7:44 AM	MiniRAE/ MultiRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	310 Twin City Highway, Port Neches, TX	7:45 AM	MultiRAE Lite/ MultiRAE 3000	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	2020 Merriman St. Port Neches, Tx 77651	7:50 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	1735 Herbert Woods Dr., Port Neches, Tx 77651	8:07 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	4800B FM 365, Port Arthur, TX	8:10 AM	MultiRAE Lite/ MultiRAE 3000	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	706 Magnolia Ave., Port Neches, Tx 77651	8:10 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Port Neches-Groves High School, 1401 Merriman Street, Port Neches, TX	8:20 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	622 Saybrook Ln. Port Neches, Tx 77651	8:30 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	701 Hebert Dr., Port Neches, Tx 77651	8:40 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	3100 FM 365, Port Arthur, TX	8:40 AM	MultiRAE Lite/ MultiRAE 3000	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	712 Baker Ave., Port Neches, Tx 77651	8:50 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Port Arthur Public Library, 4619 9th Avenue, Port Arthur, TX	9:05 AM	MultiRAE Lite/ MultiRAE 3000	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	840 Baker Ave., Port Neches, Tx 77651	9:10 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	741 Gulf Ave., Port Neches, Tx 77651	9:13 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	864 Magnolia Ave., Port Neches, Tx 77651	9:30 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	2001 Merriman St., Port Neches, Tx 77651	9:34 AM	Multi Rae	0%	0	0	0	20.9%				No Odor

Date	Location	Time (Approx.)	Instrument	LEL	VOC	H2S	CO	O2	SO2	Butadiene	HCN	Other Notes/Observations
Sunday, December 8, 2019												
12/8/2019	2101 Llano St., Port Neches, Tx 77651	9:50 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	1926 Merriman St., Port Neches, Tx 77651	10:06 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	749 Central Dr. Port Neches, Tx 77651	10:10 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	2114 Merriman St., Port Neches, Tx 77651	10:30 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	2025 Merriman St., Port Neches, Tx 77651	10:37 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Port Neches-Groves ISD Baseball Field, 1401 Merriman Street, Port Neches, TX	10:50 AM	MultiRAE Lite/ MultiRAE 3000	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Port Neches Park, 601 Grigsby Avenue, Port Neches, TX	10:50 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	606 Magnolia Ave. Port Neches, Tx 77651	10:50 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Sunset Park, between Avenue B and Port Neches Avenue, Port Neches, TX	11:02 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	706 Magnolia Ave., Port Neches, Tx 77651	11:10 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	2258 Earle St., Port Neches, Tx 77651	11:10 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Nederland High School, 2108 N 18th Street, Nederland, TX	11:20 AM	MultiRAE Lite/ MultiRAE 3000	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Ridgewood Elementary School, 2820 Merriman Street, Port Neches, TX	11:22 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	526 Gist Dr., Port Neches, Tx 77651	11:30 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Meadowgreen Park, 393 Meadowgreen Drive, Port Neches, TX	11:32 AM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	5120 Twin City Hwy., Groves, Tx 77619	11:49 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	726 Magnolia Ave., Port Neches, Tx 77651	11:50 AM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	4999 Twin City Hwy., Port Arthur, Tx 77651	12:03 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	776 Magnolia Ave., Port Neches, Tx 77651	12:10 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	5700 Alabama Ave., Groves, Tx 77619	12:24 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	854 Magnolia Ave., Port Neches, Tx 77651	12:30 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Port Neches Park, 2111 Merriman Street, Port Neches, TX	12:47 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	700 Central Dr., Port Neches, Tx 77651	12:50 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	New Street High School, 1401 Merriman St., Port Neches, Tx 77651	1:00 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	5194 Hogaboom Road, Port Arthur, TX	1:03 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	510 Gloria Ct., Port Neches, Tx 77651	1:10 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Groves Middle School, 5363 Wilson Avenue, Groves, TX	1:15 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	1900 Park St., Port Neches, Tx 77651	1:25 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Taft Elementary School, 6934 Melody Drive, Port Arthur, TX	1:26 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	770 Cherokee Ave., Port Neches, Tx 77651	1:30 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Port Neches Middle School, 749 Central Drive, Port Neches, TX	1:30 PM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	Highway 73 at 39th Street and Atlantic Road, Bridge City, TX	1:40 PM	UltraRAE/ MultiRAE	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
Sunday, December 8, 2019												
12/8/2019	Port Neches Fire Department, 606 Magnolia Avenue, Port Neches, TX	1:48 PM	MiniRAE/ MultiRAE	0%	0 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	847 Cherokee Ave., Port Neches, Tx 77651	1:50 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	400 Ave L, Port Neches, Tx 77651	1:54 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Golden Triangle Veterans Memorial Park, 7634 Highway 73, Port Arthur, TX	1:55 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Port Neches-Groves High School, 1401 Merriman Street, Port Neches, TX	2:09 PM	MiniRAE/ MultiRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm			Intermittent light to very light smokey odor
12/8/2019	2104 Park St., Port Neches, Tx 77651	2:10 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	4730 9th Avenue, Port Arthur, TX	2:10 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	629 Drawhorn Dr., Port Neches, Tx 77651	2:10 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Memorial High School, 3633 61st Street, Port Arthur, TX	2:20 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	2043 Merriman St. Port Neches, Tx 77651	2:27 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	501 Drawhorn Dr., Port Neches, Tx 77651	2:30 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	8865 Viterbo Road, Beaumont, TX	2:36 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	Woodcrest Elementary, 1522 Heisler Street, Port Neches, TX	2:41 PM	MiniRAE/ MultiRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	2229 Patricia Ln., Port Neches, Tx 77651	2:50 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	C.O. Wilson Middle School, 1040 N 27th Street, Nederland, TX	2:52 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	900 Block of Neches Drive and 200 Block of Grigsby Avenue, Port Neches, TX	2:58 PM	MiniRAE/ MultiRAE	0%	0.4 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	2144 Park St., Port Neches, Tx 77651	3:02 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	2134 Merriman St., Port Neches, Tx 77651	3:10 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	2300 Block of 2nd Street, Port Neches, TX	3:22 PM	MiniRAE/ MultiRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	North Central Park, north end to east of Merriman Street, Port Neches, Tx 77651	3:30 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	776 Magnolia Ave., Port Neches, Tx 77651	3:30 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Effie and Wilton Hebert Public Library, 2025 Merriman Street, Port Neches, TX	3:41 PM	MiniRAE/ MultiRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	738 Central Dr., Port Neches, Tx 77651	3:50 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	1606 Park St., Port Neches, Tx 77651	3:50 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	1323 Port Neches Avenue, Port Neches, TX	4:03 PM	MiniRAE/ MultiRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	2032 Llano St., Port Neches, Tx 77651	4:10 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Hillcrest Elementary School, 2639 Avenue H, Nederland, TX	4:13 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	432 Ave O, Port Neches, Tx 77651	4:14 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	Nederland Alternative Education Campus, 332 S 12th Street, Nederland, TX	4:23 PM	UltraRAE/ MultiRAE	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
Sunday, December 8, 2019												
12/8/2019	801 Texas Ave., Port Neches, Tx 77651	4:30 PM	Multi Rae	0%	0	0	0	20.9%				No Odor
12/8/2019	2111 8th Street, Port Neches, TX	4:37 PM	MiniRAE/ MultiRAE	0%	0.2 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	Port Neches Water Tower #2, 2325 Armstrong Avenue, Port Neches, TX	4:38 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors
12/8/2019	103 Chicago Avenue, Nederland, TX	4:54 PM	MiniRAE/ MultiRAE	0%	0.1 ppm	0 ppm		20.9%	0 ppm			No odors
12/8/2019	601 Thomas Hover Drive, Port Neches, TX	4:56 PM	UltraRAE/ MultiRAE	0%	0 ppm	0 ppm	0 ppm	20.9%				No odors