

Appendix D

Sulfur Dioxide Monitoring Information

**Texas Commission on Environmental Quality
2018 Annual Monitoring Network Plan**



Appendix D: Sulfur Dioxide Monitoring Information

Table 1: Sulfur Dioxide Monitoring Requirements

Core Based Statistical Area	County	2017 Population Estimates*	2014 Point Source (tpy)	2014 NEI Data (tpy)	2016 Point Source Data (tpy)	2014 NEI Non-Point Source Data with 2016 Point Source Data (tpy)	PWEI	Required SO ₂ PWEI Monitors	Required SO ₂ DRR Monitors in CBSAs	Required High Sensitivity SO ₂ NCore Monitors	Total Required SO ₂ Monitors	Existing Monitors**
Dallas-Fort Worth-Arlington		7,399,662				4,544.03	33,624	1	0	1	2	3
	Collin	969,603	21.24	171.38	19.94	170.08						
	Dallas	2,618,148	321.70	1,103.05	319.02	1,100.37						
	Denton	836,210	344.98	438.95	356.81	450.78						
	Ellis	173,620	2,193.63	2,267.02	2,018.71	2,092.10						
	Hunt	93,872	0.19	63.43	0.09	63.33						
	Kaufman	122,883	63.01	119.75	100.85	157.59						
	Rockwall	96,788	0.03	11.16	0.03	11.16						
	Johnson	167,301	84.45	133.46	98.43	147.44						
	Parker	133,463	180.02	211.12	252.77	283.87						
	Tarrant	2,054,475	25.71	41.65	0.57	16.51						
	Wise	66,181	109.41	127.71	11.73	30.03						
	Hood	58,273	9.05	16.26	9.81	17.02						
	Somervell	8,845	0.00	3.74	0.00	3.74						
Houston-The Woodlands-Sugar Land		6,892,427				48,139.99	331,801	2	0	1	3	5
	Austin	29,786	74.43	144.24	33.78	103.59						
	Brazoria	362,457	554.39	702.59	589.22	737.42						
	Chambers	41,441	392.40	437.17	220.08	264.85						
	Fort Bend	764,828	42,700.08	42,799.13	34,165.97	34,265.02						
	Galveston	335,036	1,326.04	2,790.68	1,895.21	3,359.85						
	Harris	4,652,980	7,238.30	9,129.88	7,341.58	9,233.16						
	Liberty	83,658	15.91	41.80	12.98	38.87						
	Montgomery	570,934	13.45	106.42	20.68	113.65						
	Waller	51,307	0.31	22.12	1.78	23.59						
San Antonio-New Braunfels		2,473,974				18,656.48	46,156	1	1	0	2	2
	Atascosa	48,981	5,596.43	7,209.73	6,837.35	8,450.65						
	Bandera	22,351	0.18	3.76	0.17	3.75						
	Bexar	1,958,578	10,947.85	11,350.51	8,755.90	9,158.56						
	Comal	141,009	420.01	451.89	389.97	421.85						
	Guadalupe	159,659	109.94	159.23	107.89	157.18						
	Kendall	44,026	0.01	10.05	1.11	11.15						
	Medina	50,066	0.00	11.84	0.00	11.84						
	Wilson	49,304	321.38	516.39	246.49	441.50						
Austin-Round Rock		2,115,827				2,214.46	4,685	0	0	0	0	1
	Bastrop	84,761	296.48	313.48	257.20	274.20						
	Caldwell	42,338	322.52	335.86	386.06	399.40						
	Hays	214,485	1,103.60	1,138.38	1,132.88	1,167.66						
	Travis	1,226,698	62.65	367.31	0.50	305.16						
	Williamson	547,545	3.49	67.03	4.49	68.03						

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McAllen-Edinburg-Mission		860,661				158.11	136	0	0	0	0	0
	Hidalgo	860,661	57.79	176.65	39.25	158.11						
El Paso		844,818				425.51	359	0	0	1	1	1
	El Paso	840,410	295.14	437.72	274.53	417.11						
	Hudspeth	4,408	6.02	7.65	6.77	8.40						
Corpus Christi		454,008				964.28	438	0	0	0	0	3
	Aransas	25,572	0.00	75.69	0.00	75.69						
	Nueces	361,221	694.49	785.67	697.76	788.94						
	San Patricio	67,215	27.86	106.16	21.35	99.65						
Brownsville-Harlingen		423,725				86.30	37	0	0	0	0	0
	Cameron	423,725	0.25	86.21	0.34	86.30						
Beaumont-Port Arthur		412,437				19,825.25	8,177	1	2	0	3	4
	Hardin	57,139	1.00	16.98	0.78	16.76						
	Jefferson	256,299	12,054.62	12,382.53	13,467.74	13,795.65						
	Orange	85,047	5,225.23	5,279.43	5,944.69	5,998.89						
	Newton	13,952	15.39	18.89	10.45	13.95						
Waco		268,696				2,131.27	573	0	0	0	0	1
	McLennan	251,259	1,786.72	1,910.11	1,996.45	2,119.84						
	Falls	17,437	0.00	11.43	0.00	11.43						
Amarillo		264,925				14,554.44	3,856	0	1	0	1	2
	Armstrong	1,879	0.05	2.75	0.00	2.70						
	Carson	6,032	0.16	4.24	0.24	4.32						
	Potter	120,458	15,187.40	15,267.79	14,338.94	14,419.33						
	Randall	134,442	100.30	119.14	101.11	119.95						
	Oldham	2,114	0.00	8.14	0.00	8.14						
College Station-Bryan		258,044				10,409.56	2,686	0	1	0	1	1
	Brazos	222,830	11.59	97.85	14.01	100.27						
	Burleson	18,011	0.00	19.65	0.00	19.65						
	Robertson	17,203	9,096.62	9,139.15	10,247.10	10,289.63						
Longview		217,481				26,056.40	5,667	1	0	0	1	2
	Gregg	123,367	39.87	282.09	18.87	261.09						
	Rusk	52,833	23,175.02	23,223.79	25,733.52	25,782.29						
	Upshur	41,281	36.22	47.15	2.10	13.03						
Midland		170,675				2,917.46	498	0	0	0	0	0
	Midland	165,049	110.56	1,000.12	156.06	1,045.62						
	Martin	5,626	16.97	1,872.60	16.21	1,871.84						

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Abilene		170,219				77.00	13	0	0	0	0	0
	Callahan	13,946	0.00	3.36	0.00	3.36						
	Jones	19,983	0.00	6.52	0.00	6.52						
	Taylor	136,290	0.02	41.65	25.49	67.12						
Marshall¹		66,661				4,828.29	322	0	1	0	1	1
	Harrison	66,661	3,440.74	3,510.69	4,758.34	4,828.29						
Corsicana¹		48,701				3,758.69	183	0	1	0	1	1
	Navarro	48,701	3,748.08	3,787.27	3,719.50	3,758.69						
Big Spring¹		37,388				8,008.42	299	0	1	0	1	1
	Glasscock	1,348	778.53	1,137.68	326.93	686.0836						
	Howard	36040	7,593.99	7,898.73	7,017.60	7,322.3386						
Mount Pleasant¹		32,904				36,043.7962	1,186	0	1	0	1	1
	Titus	32,904	32,648.51	32,684.48	36,007.83	36,043.7962						
Borger¹		21,375				9,465.5572	202	0	1	0	1	1
	Hutchinson	21,375	9,144.60	9,162.95	9,447.21	9,465.5572						
None							N / A	N / A	N / A	0	1	2
	Freestone ²	19,625	50,019.61	50,029.76	42,484.24	42,494.39			0			
	Milam ²	25,053	22,720.12	22,733.35	14,371.64	14,384.87			1			
Total Monitors								6	11	3	20	32

*United States Census Bureau population estimates as of July 1, 2017.

** Individual monitors may fulfill more than one monitoring requirement but are only counted once.

¹Micropolitan statistical area

²County is not in a Metropolitan or Micropolitan Statistical Area

DRR - Data Requirements Rule

N/A - not applicable

NCore - National Core Multipollutant Monitoring Stations

NEI - National Emissions Inventory

PWEI - population weighted emission index (Population * [2014 NEI non-point source data and 2015 point source data]/1,000,000)

SO₂ - sulfur dioxide

tpy - tons per year

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Table 2: Sulfur Dioxide Emissions Inventory Evaluation

Regulated Entity Number (RN)	Facility Name	County	2016 SO ₂ Emissions (tons per year)	Characterization Method
RN101198059	Big Brown Steam Electric Station	Freestone	42,469.94	Modeling
RN100888312	WA Parish Electric Generating Station	Fort Bend	34,137.14	Modeling
RN102583093	Martin Lake Electrical Station	Rusk	25,472.22	Modeling
RN102285921	Monticello Steam Electric Station*	Titus	24,960.83	Modeling
RN100542927	Limestone Electric Generation Station	Limestone	20,829.73	Modeling
RN100224534	Tolk Station	Lamb	14,968.25	Modeling
RN100224849	Harrington Station Power Plant	Potter	14,248.28	Monitoring
RN102147881	Sandow Steam Electric Station*	Milam	12,108.26	Monitoring
RN100209287	Oxbow Calcining	Jefferson	11,182.65	Monitoring
RN100213370	Welsh Power Plant	Titus	11,047.00	Monitoring
RN100217975	Calaveras Plant	Bexar	8,243.74	Monitoring
RN100226919	Coletto Creek Power Station	Goliad	8,231.20	Modeling
RN100216191	Oak Grove Steam Electric Station	Robertson	7,060.56	Monitoring
RN100226539	San Miguel Electric Plant	Atascosa	6,814.70	Modeling
RN100226026	Big Spring Carbon Black	Howard	6,042.90	Monitoring
RN100222413	Borger Carbon Black Plant (Sid Richardson)	Hutchinson	5,184.13	Monitoring
RN100214287	AEP Pirkey Power Plant	Harrison	4,441.00	Monitoring
RN100209386	Echo Carbon Black Plant	Orange	3,911.91	Monitoring
RN100211283	Streetman Plant	Navarro	3,422.48	Monitoring
RN100209659	Borger Carbon Black Plant (Orion)	Hutchinson	3,290.02	Monitoring
RN100226570	Twin Oaks	Robertson	3,186.50	Modeling
RN105369805	Sandow 5 Generating Plant*	Milam	2,263.38	Monitoring

SO₂ - sulfur dioxide

*site retired February 2018