



Municipal Solid Waste in Texas: *A Year in Review*

FY 2015 Data Summary and Analysis

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Prepared by
Waste Permits Division

AS-187/16
October 2016

www.tceq.texas.gov/assets/public/comm_exec/pubs/as/187-16.pdf



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Published and distributed
by the
Texas Commission on Environmental Quality
P.O. Box 13087
Austin TX 78711-3087

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General Information

Municipal Solid Waste in Texas: A Year in Review is prepared by the Municipal Solid Waste (MSW) Permits Section, Waste Permits Division. The summary includes data on the types and amounts of waste disposed and processed at permitted and registered MSW facilities. The report also includes an estimate of the state's remaining disposal capacity.

Reporting Period

Reports from MSW facilities are based on a fiscal year, which runs from September 1 through August 31. All references to 2015 in this annual summary are related to fiscal year 2015 (September 1, 2014 through August 31, 2015).

Reporting Requirements

In accordance with Title 30 of the Texas Administrative Code (30 TAC), Chapter 330 (Municipal Solid Waste), Subchapter P (relating to Fees and Reporting), MSW facility operators are required to submit an annual report to the Texas Commission on Environmental Quality (TCEQ) covering the types and amounts of waste processed or disposed at a facility.

Data Sources

The data in this summary are condensed from annual reports submitted by 199 active landfills and 200 active processing facilities. The MSW Permits Section reviewed the data and verified and/or reconciled discrepancies with facility representatives, quarterly report data, and agency records (MSW Records).

Facility reports included:

- operational information (e.g., which counties the facility serves),
- administrative information (e.g., who owns or operates the facility), and
- facility activities (e.g., types and amounts of waste accepted or processed at the facility).

Population data for this summary was obtained from the US Census Bureau's state population estimates¹ found at www.census.gov/popest/data/counties/totals/2015/CO-EST2015-01.html

¹ Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2015; Source: U.S. Census Bureau, Population Division; Release Date: March, 2016

Facility Information

Landfills

Type I facilities. A Type I landfill is the standard landfill for the disposal of MSW. For 2015, 98 of the active landfills (49%) were Type I facilities.

Type IV facilities. A Type IV landfill only accepts brush, construction and demolition (C&D) waste, and other similar waste that will not putrefy. For 2015, 22 of the active landfills (11%) were Type IV facilities. In addition, Type IV landfills accounted for almost 10% of the total waste disposed and for 3.6% of the total statewide remaining capacity. These landfills were not distributed evenly across the state; approximately 64% were located in the Houston-Galveston Area Council's region (HGAC-16).

Arid-exempt (AE) facilities. Type I and Type IV landfills in relatively dry parts of the state may be permitted as arid-exempt landfills. These landfills are limited in the amount of solid waste they may accept and are exempt from liner and groundwater monitoring requirements.ⁱⁱ In 2015, 71 active MSW landfills (36%) had an arid-exempt authorization. Arid-exempt landfills accounted for 1% of the total waste disposed and for 1% of the total statewide remaining capacity.

Monofills. Counties or municipalities with 12,000 or fewer people can obtain a permit by rule under 30 TAC §330.7(i) to dispose demolition waste from properties with nuisance or abandoned buildings into disposal facilities that are owned or controlled by the county/municipality. For 2015, 8 of the state's active MSW landfills (4%) were monofills.

Landfills Reporting

MSW Records indicated that in 2015 there were 199 permitted MSW landfills actively accepting and managing waste (Figure 1). Annual reports were submitted for all 199 active facilities.

Individual facility data for the 2015 active landfills is presented in the "Facility Data for MSW Landfills" section at the end of this report. In addition, the submitted annual reports are available on the TCEQ's Central Registry website at www15.tceq.texas.gov/crpub/index.cfm?fuseaction=addnid.IdSearch

(To access the online report, enter the Program ID (e.g., 1312A); select the **active** "Municipal Solid Waste" ID Number in the "Permits, Registrations, or Other Authorizations" table; select "Periodic Reports;" and select the annual report for the year of interest.)

ⁱⁱ Title 30, Texas Administrative Code, Chapter 330, §330.5(b).

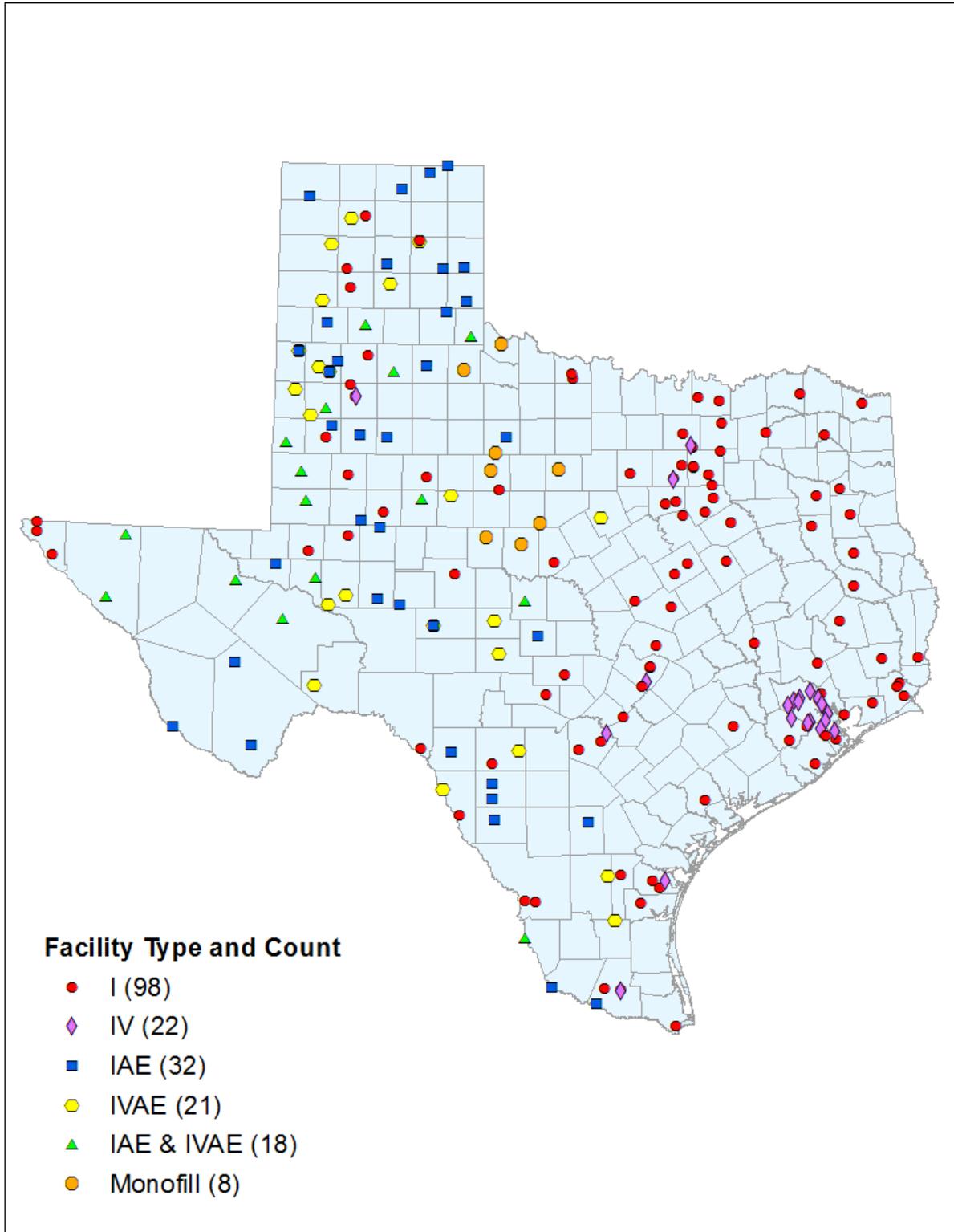


Figure 1. Active Texas MSW Landfills in 2015

Processing Facilities

Type V facilities. Type V facilities store or process MSW. Processing includes transfer, incineration, shredding, grinding, baling, composting, salvaging, separation, dewatering, or reclamation of MSW. Type V facilities may be authorized by permit. However, facilities may qualify for authorization by registration if they meet specific requirements identified by statute and rule. A transfer station that includes a material recovery operation, which recovers at least 10% by weight of the incoming waste stream for reuse or recycling, would qualify for a registration.

Type IX facilities. A Type IX facility is an energy, material, gas recovery for beneficial use or landfill mining facility located within or adjacent to a closed landfill, an inactive portion of a landfill, or an active landfill. These facilities are authorized by registration. While Type IX facilities do not process waste, as defined for Type V facilities, they are counted as processing facilities for the purpose of this annual summary.

Processing Facilities Reporting

MSW processing facilities are differentiated by sub-types in MSW Records (Table 1). For 2015, MSW Records indicated that there were 200 active permitted or registered MSW processing facilities. Annual reports were submitted for all 200 active facilities.

Table 1. Active MSW Processing Facilities in 2015

Facility Type	Permitted	Registered
Autoclave (5AC)	2	7
Liquid waste processor (5GG)	23	7
Medical waste processor (5MW)	1	2
Composting (5RC)	7	13
Recycling & Recovery (5RR)	1	1
Liquid waste transfer station (5TL)	0	4
Transfer station (5TS)	31	73
Waste incinerator (5WI)	2	0
Gas recovery (9GR)	2	24
Total	69	131

Note: In the agency database, facility sub-types are identified using Arabic numbers with abbreviations (e.g., 5GG).

The total reported amount of waste processed by Type V facilities in 2015 was 7.46 million tons. Individual facility data for the 2015 active processing facilities is presented in the “Facility Data for MSW Processing Facilities” section at the end of this report.

Facility Information

For the Type IX landfill gas recovery for beneficial use facilities, essentially 25 billion cubic feet of gas were processed with over 7.2 billion cubic feet distributed off-site. The amount of power generated and used on-site was approximately 275 million kilowatt hours (kWh). The amount of power generated and sold was almost 482 million kWh. Individual facility data for the 2015 active Type IX landfill gas recovery for beneficial use facilities is presented in the “Facility Data for MSW Facilities Recovering Landfill Gas for Beneficial Use” section at the end of this report.

The submitted annual reports for Type V and Type IX facilities are also available on the TCEQ’s Central Registry website at www15.tceq.texas.gov/crpub/index.cfm?fuseaction=addnid.IdSearch

(To access the online report, enter the Program ID (e.g., 1312A); select the **active** “Municipal Solid Waste” ID Number in the “Permits, Registrations, or Other Authorizations” table; select “Periodic Reports;” and select the annual report for the year of interest.)

Other Information

Use of scales. The majority of active MSW landfills (74%) and 51% of the MSW Type V processing facilities reported using scales to measure all or some of their accepted waste or feedstock material in 2015. Facilities without scales (as well as many facilities with scales) measured accepted waste or feedstock material by volume (i.e., cubic yards).

Texas municipal solid waste fee. In 2013, the state changed the MSW fees. As defined in Title 5 (Sanitation and Environmental Quality) Section 361.013(a) of the Texas Health and Safety Code:

“...the commission shall charge a fee on all solid waste that is disposed of within this state. The fee is 94 cents per ton received for disposal at a municipal solid waste landfill if the solid waste is measured by weight. If the solid waste is measured by volume, the fee for compacted solid waste is 30 cents per cubic yard and the fee for uncompacted solid waste is 19 cents per cubic yard received for disposal at a municipal solid waste landfill. The commission shall set the fee for sludge or similar waste applied to the land for beneficial use on a dry weight basis and for solid waste received at an incinerator or a shredding and composting facility at half the fee set for solid waste received for disposal at a landfill...”

MSW landfill and applicable processing facility operators collect this required fee as part of the tipping fee they charge their customers. This tipping fee is based on weight or volume, depending upon the type of waste and method of delivery to the facility.

Facility Information

For 2015, the statewide tipping fee rates charged by MSW landfills averaged

- \$33.96 per ton, with 142 facilities reporting;
- \$10.51 per cubic yard for compacted cubic yards, with 41 facilities reporting; and
- \$12.31 per cubic yard for uncompacted cubic yards, with 74 facilities reporting.

For 2015, the statewide tipping fee rates charged by MSW Type V processing facilities averaged

- \$49.17 per ton, with 57 facilities reporting;
- \$0.18 per gallon, with 37 facilities reporting;
- \$0.62 per pound, with 12 facilities reporting;
- \$17.24 per cubic yard for compacted cubic yards; with 17 facilities reporting; and
- \$17.13 per cubic yard for uncompacted cubic yards, with 36 facilities reporting.

Facility ownership. MSW facilities in Texas are typically owned by government entities such as cities and counties, or by corporations and other types of privately held companies. For 2015, MSW Records indicated that 132 of the 199 active landfills (66%) were publicly owned, but represented only 35% of the total reported amount of waste disposed. For the active Type V processing facilities, 82 facilities were publicly owned and 92 were owned by private companies. For Type IX landfill gas recovery for beneficial use facilities, 22 of the 26 active facilities were privately owned.

Waste Information

Waste Managed by MSW Facilities

MSW definitions. MSW is defined under 30 TAC, Chapter 330 (Municipal Solid Waste), Subchapter A (General Information) as “solid waste resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, dead animals, abandoned automobiles, and all other solid waste other than industrial solid waste.” Industrial solid waste is defined and regulated under 30 TAC, Chapter 335 (Industrial Solid Waste and Municipal Hazardous Waste).

The Texas definition of MSW refers to the source, rather than the constituents or properties of the waste. Retailers, repair services, and the general public are municipal generators; manufacturers are industrial solid waste generators.

It is worth noting that the Texas definition of MSW is more encompassing than that of the United States Environmental Protection Agency (USEPA) and several other states. While the USEPA definition does not include C&D waste and municipal sludge, the Texas definition does. Therefore, the per capita MSW disposal and generation rates for Texas may appear to be higher than those of other states.

Waste classifications. Texas defines industrial solid wastes as separate and distinct from MSW. Industrial waste may be defined as hazardous or non-hazardous. MSW facilities may not accept regulated hazardous waste. However, most MSW facilities may accept Class 2 and Class 3 non-hazardous industrial solid waste. Only facilities with dedicated Class 1 cells, which have more protective design requirements, may accept Class 1 non-hazardous waste. The non-hazardous industrial solid wastes are defined by classes.

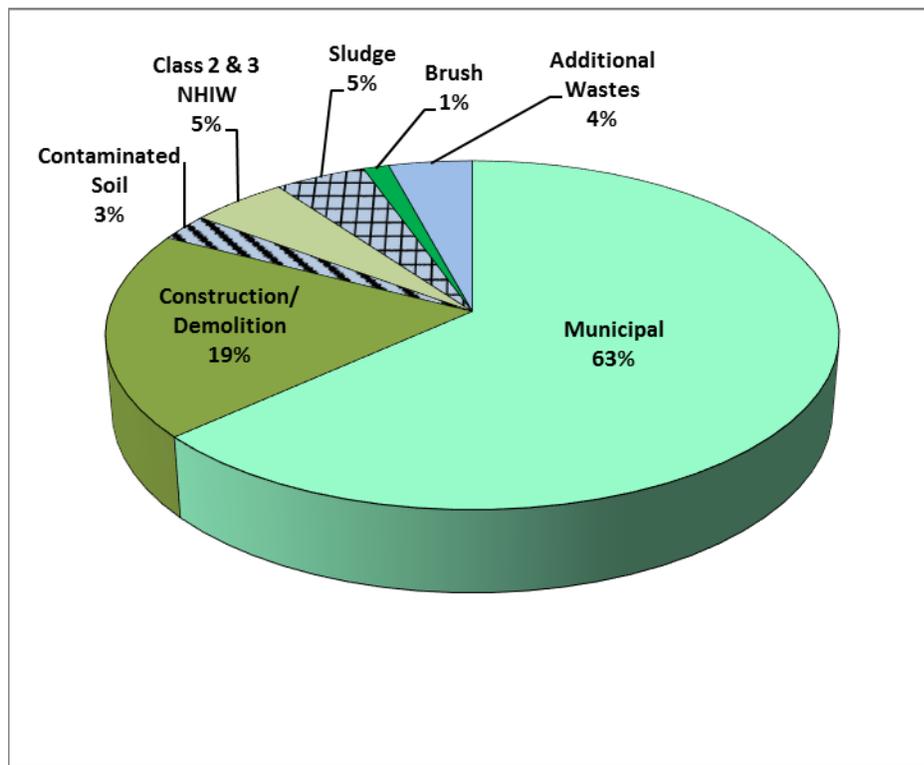
- **Class 1:** industrial non-hazardous waste that, based on its constituents and properties, may pose a substantial danger to human health or the environment if it is not properly managed. There are special handling requirements for Class 1 wastes at MSW landfills. An example of Class 1 waste could be industrial sludge containing metals or organics.
- **Class 2:** industrial solid waste that cannot be described as hazardous, Class 1 non-hazardous, or Class 3. Activated sludge from industrial biological wastewater treatment plants are typically Class 2 wastes.
- **Class 3:** inert and essentially insoluble industrial solid wastes that do not readily decompose, such as bricks or concrete from an industrial facility.

It should be noted that waste classified as hazardous by federal rules cannot become non-hazardous through dilution. The Texas classification of Class 1 non-hazardous industrial waste is based on the leachable concentrations of constituents of concern found in the waste.

Disposal Information

Waste types. While the majority of MSW disposed in Texas is residential and commercial waste, landfill operators have difficulty in estimating the amounts received for each waste type. For the purpose of this annual summary, residential and commercial waste are combined and defined as “municipal.” In 2015, municipal waste accounted for approximately 63% of the total waste disposed at MSW landfills. At 19%, construction and demolition waste was the second largest waste type disposed. The types and estimated amounts of waste disposed in Texas MSW landfills for 2015 are illustrated in Figure 2 and Table 2.

Waste sources. In 2015, 99.2% of MSW disposed in Texas was generated within the state. A total of 3,822 tons was received from Mexico, as reported by four landfills. In addition, a total of 264,584 tons was received from out-of-state, as reported by eleven landfills. States served included Arkansas, Kansas, Louisiana, New Mexico, and Oklahoma. There is no requirement for reporting the amount of MSW that is exported from Texas.



Note: Class 1 NHIW waste is included in “Contaminated Soil” and “Additional Wastes” categories.

Figure 2. Types and Amounts of MSW Landfilled in 2015

Waste Information

Table 2. Types and Amounts of MSW Landfilled in 2015

Waste Type	Number of Landfills Accepting Waste	Tons Disposed	% of Total Tons Disposed
Municipal	147	21,196,034	63.37
Brush	64	431,441	1.29
Construction/Demolition	158	6,410,338	19.16
Litter	11	3,919	0.01
Class 1 NHIW ¹	15	521,055	1.56
Classes 2 and 3 NHIW ¹	60	1,628,560	4.87
Incinerator ash	5	5,825	0.02
Medical waste	14	29,439	0.09
CESQG ²	2	8,677	0.03
RACM ³	29	56,254	0.17
Non-RACM ³	36	64,060	0.19
Dead animals	75	17,357	0.05
Sludge	87	1,533,455	4.58
Grease trap waste	15	16,128	0.05
Grit trap waste	22	11,142	0.03
Septage	8	237,734	0.71
Contaminated soil	47	846,182	2.53
Tires ⁴	24	51,666	0.15
Pesticides	0	0	0.00
Used oil filter	0	0	0.00
Other	32	380,294	1.14
	Total	33,449,560	100

1. NHIW (Non-Hazardous Industrial Waste)
2. CESQG (Municipal Hazardous Waste from Conditionally Exempt Small Quantity Generators)
3. RACM (Regulated Asbestos-Containing Material)
4. Tires - Only split, quartered, or shredded tires may be disposed in a landfill.

Note: Descriptions for several of the waste types listed in Table 2 are provided at the end of this report.

Capacity Information

Per capita rate. In 2015, total disposal of MSW in the state was approximately 33.45 million tons. Using the state population estimateⁱ of 27,469,114, the per capita landfill disposal rate in Texas was 6.67 pounds per person per day, which is slightly above the 2014 rate of 6.58 pounds. During this period, the state’s population increased 1.9%.

Figure 3 displays a graphic representation of disposal amounts and per capita rates over time. For more detailed information, please see the “Historical Data for Texas MSW Landfills” table on page 23 of this report.

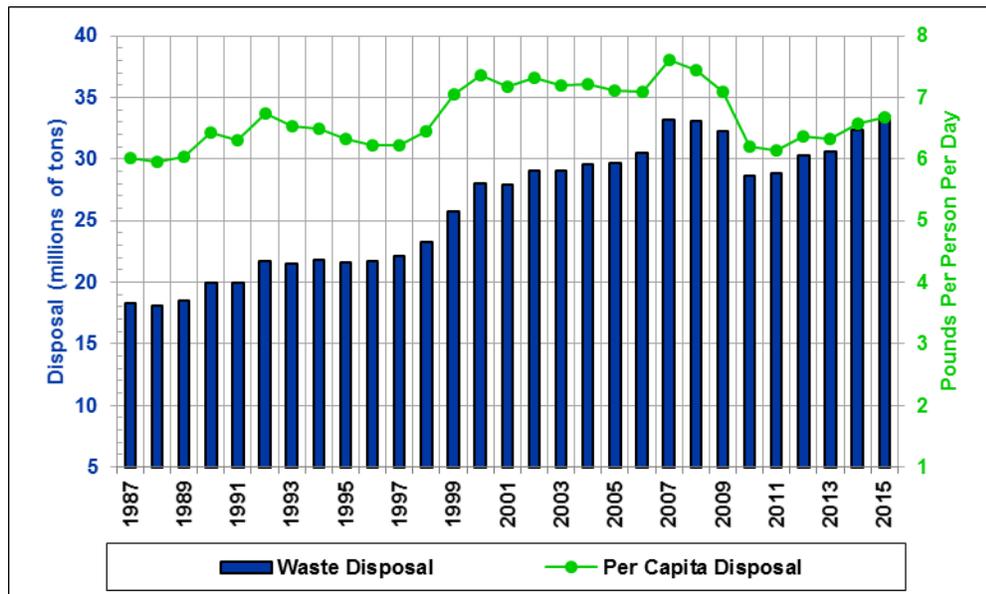


Figure 3. Total Tons and Per Capita Rate for MSW Disposal

ⁱ Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2015; Source: U.S. Census Bureau, Population Division; Release Date: March 2016; <www.census.gov/popest/data/counties/totals/2015/CO-EST2015-01.html>

Capacity Information

Landfill capacity. The total remaining MSW landfill capacity in the state at the end of 2015 was 2.79 billion cubic yards. Based on reported compaction rates, this volume would hold 1.87 billion tons of waste and serve for 56 years.

The remaining capacity for all active MSW landfills by facility type is summarized in Table 3. The analyses in this summary are based on the assumptions that no new landfill expansions or new permits will be issued and that the 2015 population and disposal amounts will remain constant.

Table 3. Disposal Amounts and Remaining Capacity by Facility Type in 2015

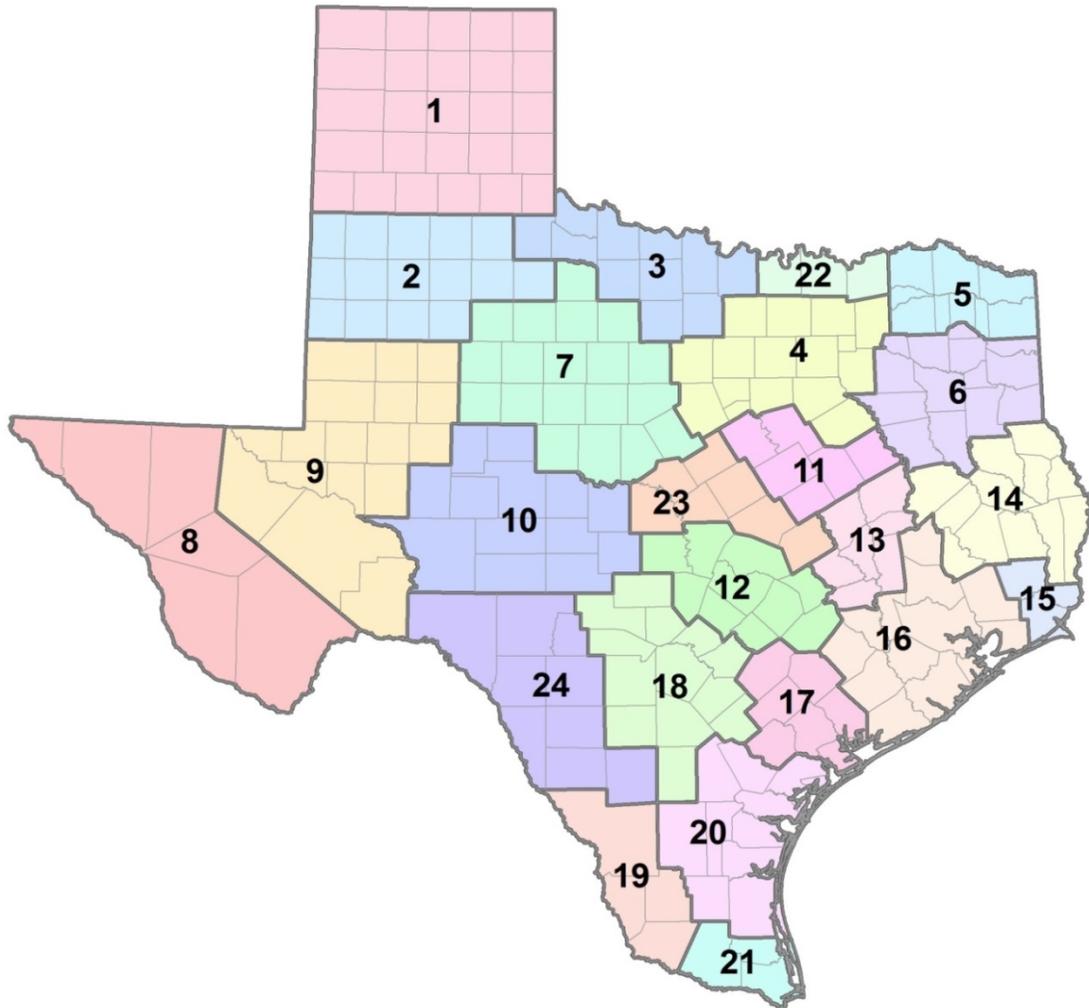
Facility Type	Number of Landfills	Disposal (Tons)	Remaining Capacity (Tons)	Remaining Capacity (Years)*
I	98	29,892,217	1,779,762,464	60
IV	22	3,217,075	66,408,231	21
IAE	32	167,441	8,417,471	50
IVAE	21	36,599	2,778,277	76
IAE and IVAE	18	130,897	8,242,498	63
Monofill	8	5,331	175,433	N/A
Totals	199	33,449,560	1,865,784,374	56

* Average, assuming the 2015 disposal rate of 33.45 million tons per year.
NA - Not applicable. These facilities are authorized through a renewable five-year permit by rule.

Growth and attrition. According to submitted data, statewide capacity decreased in 2015. The resulting net capacity decreased by approximately 73.6 million tons (roughly 77.3 million cubic yards) or 3.8% from the statewide 2014 capacity.

Statewide distribution. In Texas, there are 24 Regional Planning Commissions, also known as Councils of Governments (COGs), responsible for MSW management planning on a regional basis (Figure 4).ⁱⁱ Although remaining capacity was not evenly distributed, the state appeared to have an adequate reserve of landfill capacity in 2015 (Table 4). The Central Texas COG (CTCOG -23) indicated the least amount of remaining capacity with 16 years. In the South Plains Association of Governments region (SPAG -2), the City of Levelland began operations at a Type IAE & IVAE landfill (Permit 2369), increasing the COG's remaining capacity from 149 years to 155 years.

ⁱⁱ Texas Health and Safety Code, Section 363.0615.



No.	Abbrev.	COG Name	No.	Abbrev.	COG Name
1	PRPC	Panhandle Regional Planning Commission	13	BVCOG	Brazos Valley Council of Governments
2	SPAG	South Plains Association of Governments	14	DETCOG	Deep East Texas Council of Governments
3	NRPC	Nortex Regional Planning Commission	15	SETRPC	South East Texas Regional Planning Commission
4	NCTCOG	North Central Texas Council of Governments	16	HGAC	Houston-Galveston Area Council
5	ATCOG	Ark-Tex Council of Governments	17	GCRPC	Golden Crescent Regional Planning Commission
6	ETCOG	East Texas Council of Governments	18	AACOG	Alamo Area Council of Governments
7	WCTCOG	West Central Texas Council of Governments	19	STDC	South Texas Development Council
8	RGCOG	Rio Grande Council of Governments	20	CBCOG	Coastal Bend Council of Governments
9	PBRPC	Permian Basin Regional Planning Commission	21	LRGVDC	Lower Rio Grande Valley Development Council
10	CVCOG	Concho Valley Council of Governments	22	TCOG	Texoma Council of Governments
11	HOTCOG	Heart of Texas Council of Governments	23	CTCOG	Central Texas Council of Governments
12	CAPCOG	Capital Area Council of Governments	24	MRGDC	Middle Rio Grande Development Council

Figure 4. Texas Councils of Governments

Capacity Information

Table 4. Analysis of MSW Landfill Disposal by Texas COGs for 2015

COG	Active MSW Landfills		2015 Disposal				Remaining Capacity		
	Count	% of Total	Tons	% of Total	Population	Per Cap*	Tons	% of Total	Years **
1 PRPC	21	10.55	556,080	1.66	438,568	6.95	43,436,033	2.33	78
2 SPAG	20	10.05	535,190	1.60	429,732	6.82	82,825,600	4.44	155
3 NRPC	4	2.01	313,518	0.94	220,321	7.80	52,511,873	2.81	167
4 NCTCOG	21	10.55	9,626,620	28.78	7,220,136	7.31	367,937,249	19.72	38
5 ATCOG	3	1.51	376,523	1.13	282,827	7.29	49,610,546	2.66	132
6 ETCOG	4	2.01	632,205	1.89	850,802	4.07	117,404,050	6.29	186
7 WCTCOG	13	6.53	561,349	1.68	329,720	9.33	87,154,028	4.67	155
8 RGCOG	8	4.02	426,154	1.27	859,385	2.72	53,902,826	2.89	126
9 PBRPC	15	7.54	724,961	2.17	477,308	8.32	42,014,376	2.25	58
10 CVCOG	9	4.52	232,150	0.69	161,881	7.86	5,671,896	0.30	24
11 HOTCOG	4	2.01	652,827	1.95	358,570	9.98	46,581,877	2.50	71
12 CAPCOG	5	2.51	2,233,526	6.68	2,119,131	5.78	75,244,346	4.03	34
13 BVCOG	1	0.50	326,790	0.98	342,584	5.23	21,628,226	1.16	66
14 DETCOG	4	2.01	487,355	1.46	380,573	7.02	38,829,659	2.08	80
15 SETRPC	4	2.01	813,454	2.43	394,433	11.30	28,968,398	1.55	36
16 HGAC	26	13.07	8,820,636	26.37	6,826,772	7.08	296,399,632	15.89	34
17 GCRPC	1	0.50	154,878	0.46	197,830	4.29	6,642,759	0.36	43
18 AACOG	7	3.52	2,954,359	8.83	2,495,581	6.49	170,781,596	9.15	58
19 STDC	4	2.01	395,923	1.18	353,090	6.14	49,418,046	2.65	125
20 CBCOG	7	3.52	710,784	2.12	597,078	6.52	94,256,140	5.05	133
21 LRGVDC	5	2.51	1,164,025	3.48	1,286,363	4.96	104,173,870	5.58	89
22 TCOG	2	1.01	176,147	0.53	198,389	4.87	16,052,523	0.86	91
23 CTCOG	2	1.01	437,570	1.31	474,505	5.05	6,977,781	0.37	16
24 MRGDC	9	4.52	136,536	0.41	173,535	4.31	7,361,044	0.39	54
Totals	199	100	33,449,560	100	27,469,114	6.67	1,865,784,374	100	56

*Pounds per person per day

**Average, at 2015 statewide disposal rate

Trends

Landfill closures. In 1987, there were 763 authorized MSW landfills accepting waste. The reduction in the number of active landfills between the late 1980s and mid 1990s was primarily due to the stringent requirements of the Federal Resource Conservation and Recovery Act (RCRA) Subtitle D. However, since the late 1990s, this decreasing trend has stabilized, suggesting a continued move away from smaller community landfills and toward larger regional landfills.

Capacity reserve. From 1986 to the mid-1990s, the state's reserve capacity for MSW disposal was less than 22 years. Beginning in 2004, the capacity steadily increased with a maximum of 64 years reached in 2011. The current reserve capacity for disposal is approximately 56 years (Figure 5). Expansion in the available volume of permitted disposal capacity; improvements in compaction and diversion; and the state's economic activity are probable contributing factors affecting the reserve capacity trend. With regard to compaction rates, the average compaction rate in 1986 was approximately 650 pounds of waste per cubic yard, the 2000 average was approximately 1,000 pounds per cubic yard, and the 2015 average compaction rate was calculated as 1,090 pounds per cubic yard.

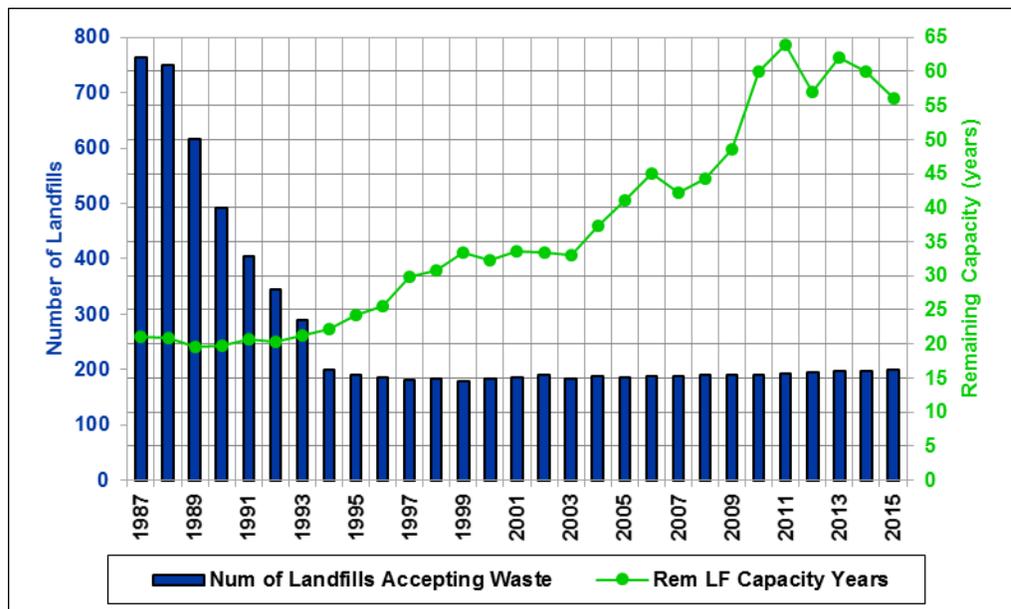


Figure 5. Number of MSW Landfills and Remaining Capacity

Landfill size. In addition to improvements in the operation of MSW landfills, size and service areas for landfills have continued to grow. In 1986, the statewide average landfill size was 50 acres with an average depth of 6.5 feet and an average height of 13 feet. In 2015, the statewide average landfill size was 241 acres with an average depth of 35 feet and an average height of 84 feet.

The breakdown of the permitted heights for MSW landfills in 2015 is presented in Table 5. Two landfills had a permitted height over 300 feet; Abilene Regional Landfill (Permit No. 1469A; WCTCOG-7) and Greenwood Farms (Permit No. 1972A; ETCOG-6).

Table 5. Permitted Heights for MSW Landfills in 2015

Permitted Height	Number of Landfills*	% of Landfills
<100 ft	120	63
100 ft - 200 ft	51	27
200 ft - 300 ft	18	9
>300 ft	2	1

* Permitted heights for monofills are not included.

Counties served. The 199 active MSW landfills in the state reported the number of counties they served in 2015 (Table 6). Service to more than one county was provided by 129 landfills (65%). The number of active landfills by county is shown in Table 7; counties with a change in the number of landfills are indicated.

Table 6. Number of Texas Counties Served by MSW Landfills in 2015

Number of Counties Served	Number of Landfills
1	70
2 - 5	62
6 - 10	46
11 - 15	7
16 - 20	9
>20	5

Table 7. Number of Active MSW Landfills by County in 2015

Anderson	0	Crane	1	Hartley	0	Madison	0	San Patricio	0
Andrews	1	Crockett	0	Haskell	2 ^M	Marion	0	San Saba	0
Angelina	1	Crosby	0	Hays	0	Martin	1	Schleicher	2
Aransas	0	Culberson	0	Hemphill	0	Mason	1	Scurry	1
Archer	0	Dallam	1	Henderson	0	Matagorda	0	Shackelford	0
Armstrong	1	Dallas	4	Hidalgo	4 ^{**}	Maverick	2	Shelby	0
Atascosa	0	Dawson	1	Hill	1	McCulloch	1	Sherman	0
Austin	0	Deaf Smith	1	Hockley	2 [*]	McLennan	2	Smith	1
Bailey	2	Delta	0	Hood	0	McMullen	1	Somervell	0
Bandera	0	Denton	4	Hopkins	0	Medina	0	Starr	1
Bastrop	0	DeWitt	0	Houston	0	Menard	1	Stephens	1 ^M
Baylor	0	Dickens	0	Howard	1	Midland	1	Sterling	0
Bee	0	Dimmit	1	Hudspeth	2	Milam	0	Stonewall	0
Bell	1	Donley	0	Hunt	1	Mills	0	Sutton	0
Bexar	2	Duval	1	Hutchinson	0	Mitchell	1	Swisher	1
Blanco	0	Eastland	0	Irion	1	Montague	0	Tarrant	3
Borden	0	Ector	1	Jack	0	Montgomery	1	Taylor	0
Bosque	0	Edwards	0	Jackson	0	Moore	2	Terrell	1
Bowie	1	El Paso	3	Jasper	0	Morris	0	Terry	2
Brazoria	2	Ellis	3	Jeff Davis	0	Motley	1	Throckmorton	0
Brazos	0	Erath	1	Jefferson	3	Nacogdoches	1	Titus	1
Brewster	2	Falls	0	Jim Hogg	0	Navarro	1	Tom Green	1
Briscoe	0	Fannin	0	Jim Wells	1	Newton	1	Travis	4
Brooks	1	Fayette	0	Johnson	2	Nolan	1	Trinity	0
Brown	1	Fisher	0	Jones	3 ^M	Nueces	3	Tyler	0
Burleson	0	Floyd	1	Karnes	0	Ochiltree	1	Upshur	0
Burnet	0	Foard	0	Kaufman	0	Oldham	1	Upton	2
Caldwell	0	Fort Bend	3	Kendall	0	Orange	0	Uvalde	2
Calhoun	0	Franklin	0	Kenedy	0	Palo Pinto	0	Val Verde	1
Callahan	1 ^{*M}	Freestone	0	Kent	0	Panola	0	Van Zandt	0
Cameron	1	Frio	0	Kerr	1	Parker	1	Victoria	1
Camp	0	Gaines	1	Kimble	1	Parmer	0	Walker	0
Carson	1	Galveston	3	King	0	Pecos	1	Waller	0
Cass	0	Garza	1	Kinney	1	Polk	1	Ward	1
Castro	1	Gillespie	1	Kleberg	1	Potter	1	Washington	0
Chambers	2	Glasscock	1	Knox	0	Presidio	1	Webb	2
Cherokee	1	Goliad	0	La Salle	0	Rains	0	Wharton	0
Childress	1	Gonzales	0	Lamar	1 ^{**}	Randall	1	Wheeler	1
Clay	0	Gray	3	Lamb	4	Reagan	1	Wichita	2
Cochran	1	Grayson	2	Lampasas	0	Real	0	Wilbarger	0
Coke	0	Gregg	1	Lavaca	0	Red River	0	Willacy	0
Coleman	1 ^{**M}	Grimes	1	Lee	0	Reeves	1	Williamson	1
Collin	1	Guadalupe	1	Leon	0	Refugio	0	Wilson	0
Collingsworth	1	Hale	1	Liberty	0	Roberts	0	Winkler	0
Colorado	1	Hall	1	Limestone	1	Robertson	0	Wise	0
Comal	1	Hamilton	0	Lipscomb	1	Rockwall	0	Wood	0
Comanche	0	Hansford	1	Live Oak	0	Runnels	1 ^{*M}	Yoakum	1
Concho	0	Hardeman	1 ^M	Llano	0	Rusk	1	Young	0
Cooke	0	Hardin	1	Loving	0	Sabine	0	Zapata	1
Coryell	1	Harris	14	Lubbock	3	San Augustine	0	Zavala	2
Cottle	1 ^{*M}	Harrison	0	Lynn	1	San Jacinto	0		

*Increase in number of active landfills

**Decrease in number of active landfills

^MIndicates existing Monofill

MSW Recycling

Public and private programs for reducing, reusing, and recycling assist in preserving disposal capacity in landfills. Throughout the state, paper, glass, aluminum cans, plastic, scrap metal, wood, electronics, scrap tires, and numerous other materials are recycled every day. Information on TCEQ's promotion of recycling programs can be found on the agency's website at <www.tceq.texas.gov/p2/recycle/recycling.html>.

Currently, the effect of recycling in Texas is difficult to measure. An effort to quantify the amount of recycled materials in the state was conducted in 2014 by industry stakeholders. The results of the study were published in the "Texas Recycling Data Initiative, A Collaborative Effort to Measure Recycling: Biennial Report (January 2015)," which can be found at <www.recyclingstar.org/wp-content/uploads/2015/02/TRDI_Report_print-0204.pdf>.

In 2015, the state legislature directed TCEQ to conduct a study on the current and potential economic impacts of recycling. The results of this study will be included in next year's annual summary, "Municipal Solid Waste in Texas: A Year in Review, 2016 Data Summary and Analysis." Additional information about the TCEQ study can be found at <www.tceq.texas.gov/p2/recycle/study-on-the-economic-impacts-of-recycling>

Electronics. Television (TV) recyclers are required to report the total weight or volume of covered television equipment received, recycled, and disposed of in the preceding calendar year (CY) on an annual basis. In CY 2015 (January 1, 2015 - December 31, 2015), approximately 30.5 million pounds were received, 21.5 million pounds were recycled, and zero (0.00) pounds were disposed of, as reported by 14 active TV recyclers.

TV and computer equipment manufacturers are also required to report the amount of equipment collected, recycled, and reused. Information about the TV and computer recycling programs, including amounts reported, can be found on the TCEQ's website at <TexasRecyclesTVs.org> and <TexasRecyclesComputers.org>, respectively.

Scrap Tires. Scrap tires can be a valuable commodity when properly managed and used to produce various products such as crumb rubber, mulch, and thermal insulators; utilized for civil engineering projects; or processed as a fuel source. In Texas, owners and/or operators of facilities that transport or process used and/or scrap tires are required to submit an annual report for the preceding calendar (CY) year. In CY 2015, approximately 32 million used and/or scrap tires were reported as managed by transporters and scrap tire processing facilities.

Information about the scrap tire management program, including the CY 2015 annual summary report, can be found on the TCEQ's website at <www.tceq.texas.gov/tires/>.

Composting. In Texas, composting is a method used for recycling organic materials. Permitted and registered MSW facilities are allowed to accept bulking agents and feedstock materials such as municipal sewage sludge, positively-sorted and source separated organic materials, disposable diapers, source-separated yard trimmings, clean wood material, vegetative material, paper, manure, source-separated meat, fish, dead animal carcasses, oils, greases, or dairy materials. In addition, permitted facilities are authorized to accept mixed municipal solid waste and grease trap waste. In 2015, a total

MSW Recycling

of 605,133 tons of organic material was composted, as reported by 9 permitted MSW landfills and 18 (7 permitted; 11 registered) composting facilities.

Diversion. Some waste accepted at permitted and registered MSW facilities is diverted from the solid waste stream as recyclable materials. In 2015, over 1.3 million tons of materials were reported as diverted from MSW facilities for recycling or reuse: a total of 816,580 tons, as reported by 111 landfills; and a total of 527,697 tons, as reported by 81 processing facilities, with transfer stations representing the majority.

The various material streams and estimated amounts reported as diverted by MSW facilities in 2015 are presented in Table 8. It is noted that data in the table represent only the amount of recyclable material leaving a disposal or processing facility and may or may not include the numbers reported by recycling facilities, such as composters, TV recyclers, and scrap tire processors.

Table 8. Types and Amounts of Diverted Materials in 2015

Material Type	Tons Diverted	% of Total Tons Diverted
Yard Waste or Brush	441,908	32.87
Metal	28,856	2.15
Glass	27,414	2.04
Plastics	23,797	1.77
Construction/Demolition Waste	335,152	26.42
Paper/Cardboard	221,149	16.45
Electronic Materials	470	0.03
White Goods	1,466	0.11
Tires	5,097	0.38
Automotive	10	0.01
Shingles	2,058	0.15
Used Oil	546	0.04
Unclassified Materials	236,354	17.58
Total	1,344,277	100

Note: Descriptions for several of the material types listed in Table 8 are provided at the end of this report.

Historical Data for Texas MSW Landfills

Year	Waste Disposal (Tons)	State Population	Per Capita Disposal Rate* (Pounds per person per day)	Number of Active Landfills	Remaining Capacity (Cubic Yards)	Remaining Capacity (Tons)	Remaining Capacity (Years)
1988	18,114,295	16,668,639	5.95	750	1,162,374,628	377,771,754	21
1989	18,531,001	16,806,521	6.04	616	1,111,902,033	361,368,161	20
1990	19,969,615	16,986,510	6.44	493	1,124,524,795	393,583,678	20
1991	19,973,622	17,349,000	6.31	405	1,183,699,041	414,294,664	21
1992	21,675,661	17,655,650	6.73	345	1,193,233,770	440,730,048	20
1993	21,517,063	18,031,484	6.54	289	1,205,635,627	456,161,796	21
1994	21,808,274	18,378,185	6.50	199	1,269,565,453	483,752,986	22
1995	21,639,678	18,723,991	6.33	191	1,071,520,039	523,633,365	24
1996	21,738,137	19,128,261	6.23	186	1,023,799,597	554,095,949	26
1997	22,094,777	19,439,337	6.23	181	1,169,628,669	659,694,441	30
1998	23,259,425	19,759,614	6.45	184	1,300,609,247	716,302,147	31
1999	25,791,066	20,044,141	7.05	179	1,557,349,331	862,778,821	33
2000	28,034,517	20,851,820	7.37	183	1,633,321,824	904,891,939	32
2001	27,938,751	21,235,018	7.18	186	1,710,713,869	939,383,633	34
2002	29,061,966	21,779,893	7.31	190	1,691,970,227	971,314,962	33
2003	29,073,315	22,118,509	7.20	184	1,506,807,849	963,972,887	33
2004	29,581,785	22,490,022	7.21	189	1,826,587,075	1,134,462,509	37
2005	29,671,151	22,859,968	7.11	186	1,870,868,394	1,217,845,562	41
2006	30,453,702	23,507,783	7.10	187	2,110,807,960	1,366,311,822	45
2007	33,183,488	23,904,380	7.61	188	2,158,501,232	1,403,592,411	42
2008	33,078,196	24,326,974	7.45	191	2,167,272,920	1,439,621,096	44
2009	32,264,262	24,782,302	7.13	190	2,351,154,567	1,567,806,257	49
2010	28,637,988	25,213,445	6.22	190	2,483,194,375	1,722,333,910	60
2011	28,817,066	25,674,681	6.15	193	2,636,321,089	1,830,882,782	64
2012	30,309,069	26,059,203	6.37	195	2,632,196,651	1,739,952,891	57
2013	30,569,741	26,448,193	6.33	197	2,786,237,795	1,880,790,197	62
2014	32,371,574	26,956,958	6.58	198	2,867,269,225	1,939,340,177	60
2015	33,449,560	27,469,114	6.67	199	2,789,966,234	1,865,784,374	56

*Using the Texas definition of MSW described on page 9 of this report

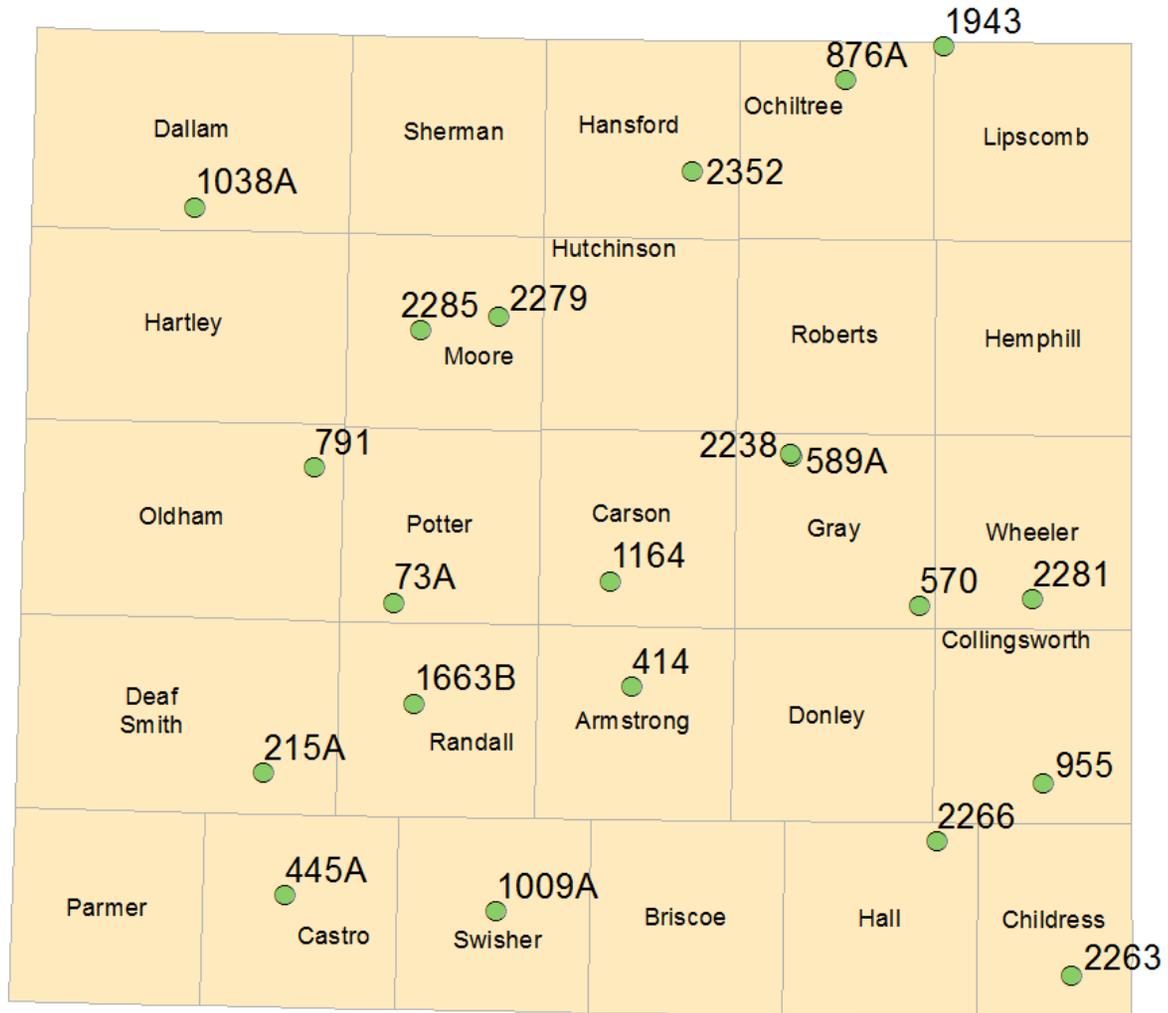
Facility Data for MSW Landfills

The maps and tables included in this section represent the active MSW landfill data reported for 2015. The maps and tables are organized by COG region and county. All values were rounded to the nearest whole number.

Key for Landfill Data Tables

Column Heading	Description
Type	Facility types are identified by Arabic numbers with applicable abbreviations (e.g., 1AE) in the agency database
2015 Tons	Total tons landfilled in fiscal year 2015
Rem Yds	Remaining landfill capacity in cubic yards
Rate	Reported compaction rate at the landfill in pounds per cubic yards
Rem Tons	Remaining landfill capacity in equivalent tons (based on reported landfill compaction rate)
Rem Yrs	Remaining landfill capacity in years (data provided in a facility's annual report that is an estimate based on the landfill's permitted volume for waste capacity and facility operations)
NA	Not applicable. Monofills are authorized through a renewable five-year permit by rule

COG 1: Panhandle Regional Planning Commission



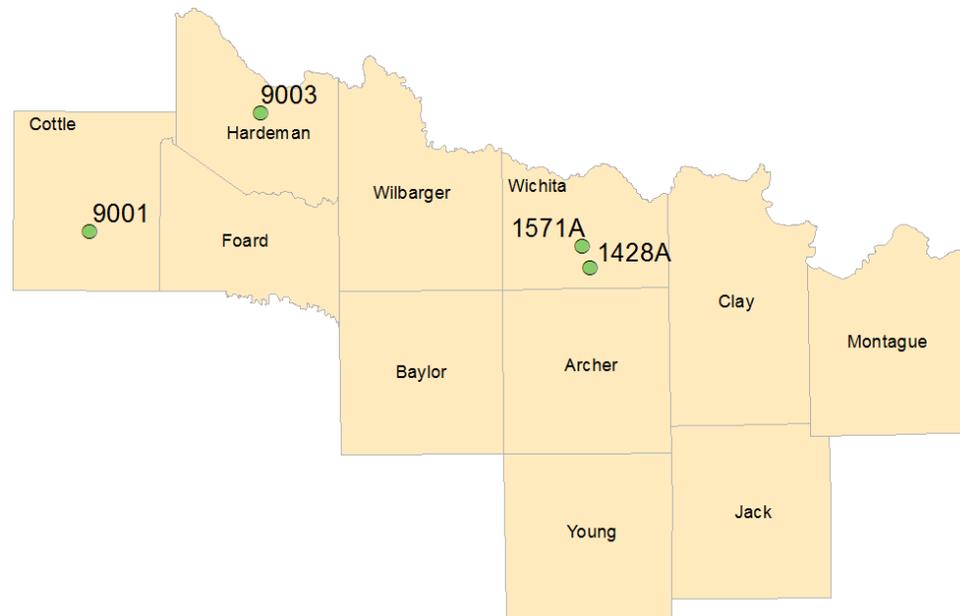
PANHANDLE REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
1	414	Claude Armstrong County Landfill	Armstrong	4AE	2,148	223,421	500	55,855	26
1	1164	City of Panhandle Landfill	Carson	1AE	2,601	710,696	750	266,511	102
1	445A	City of Dimmitt Landfill	Castro	1AE	4,692	1,170,376	750	438,891	94
1	2263	City of Childress Landfill	Childress	1AE&4AE	4,729	2,376,057	800	950,423	120
1	955	City of Wellington Landfill	Collingsworth	1AE	3,464	484,224	800	193,689	55
1	1038A	City of Dalhart Landfill	Dallam	1AE&4AE	9,907	1,263,509	785	495,927	50
1	215A	City of Hereford Landfill	Deaf Smith	4AE	3,478	282,196	850	119,933	24
1	570	City of McLean Landfill	Gray	1AE	849	545,943	800	218,377	12
1	589A	City of Pampa Landfill	Gray	4AE	1,566	449,646	1000	224,823	144
1	2238	City of Pampa Landfill	Gray	1	50,516	8,675,164	1320	5,725,608	113
1	2266	City of Memphis Landfill	Hall	1AE	7,023	963,180	800	385,272	54
1	2352	City of Spearman Landfill	Hansford	1AE	6,998	1,030,554	850	437,985	60
1	1943	City of Booker Landfill	Lipscomb	1AE	1,876	440,185	850	187,079	56
1	2279	City of Dumas Landfill	Moore	1	15,429	8,187,160	1000	4,093,580	115
1	2285	City of Dumas Landfill	Moore	4AE	2,283	253,220	800	101,288	3
1	876A	Perryton Landfill	Ochiltree	1AE	6,712	1,345,757	890	598,862	89
1	791	Cal Farleys Boys Ranch Landfill	Oldham	4AE	500	127,800	400	25,560	46
1	73A	City of Amarillo Landfill	Potter	1	244,575	65,349,237	800	26,139,695	111
1	1663B	Southwest Landfill TX	Randall	1	175,527	2,958,513	1581	2,338,705	13
1	1009A	City of Tulia Landfill	Swisher	1AE&4AE	6,227	762,053	850	323,873	52
1	2281	City of Shamrock Landfill	Wheeler	1AE	4,980	285,243	800	114,097	23

COG 2: South Plains Association of Governments



COG 3: Nortex Regional Planning Commission



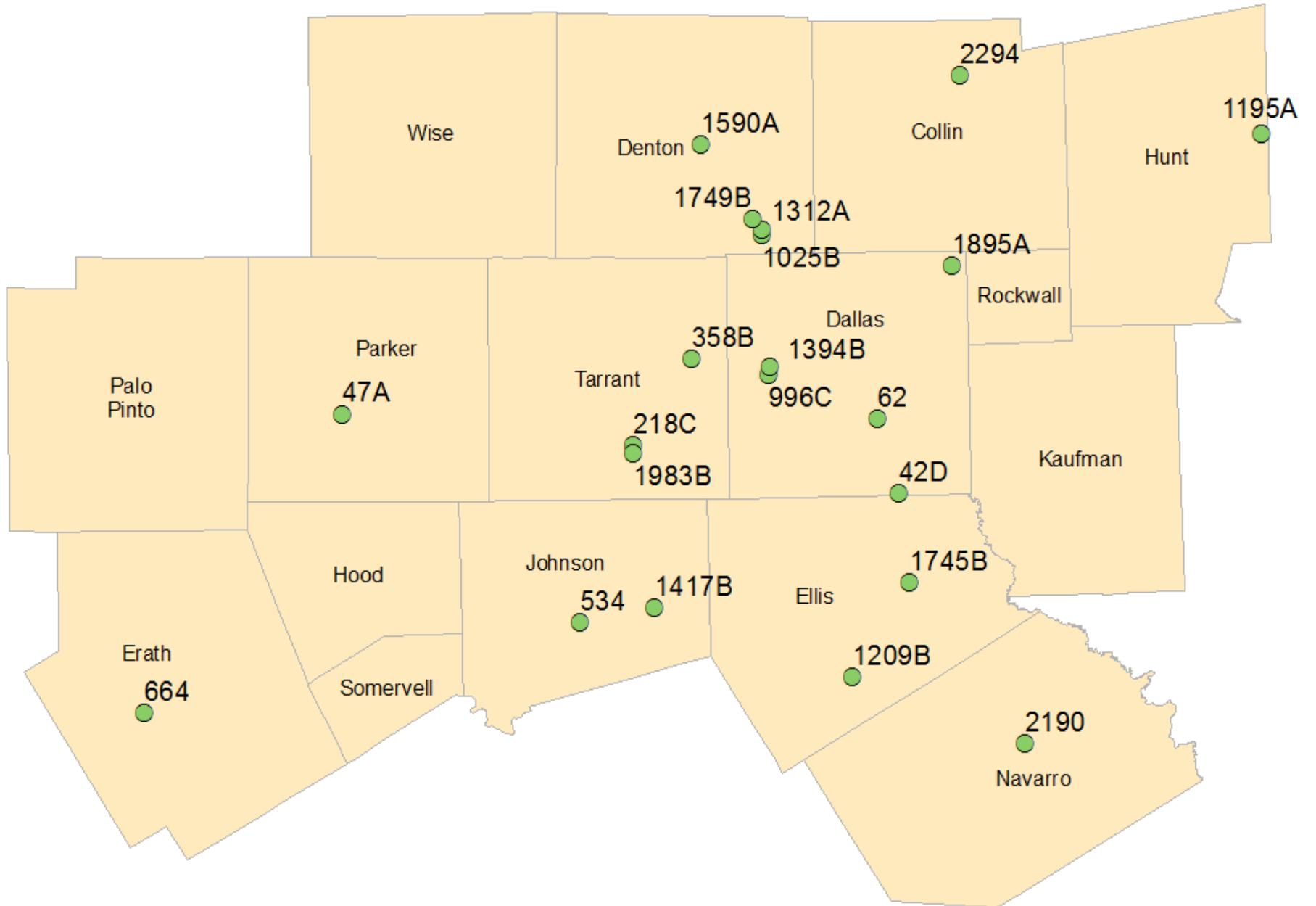
SOUTH PLAINS ASSOCIATION OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
2	564	City of Muleshoe Landfill	Bailey	4AE	2,879	159,419	800	63,768	22
2	2291	City of Muleshoe Landfill	Bailey	1AE	7,245	449,400	800	179,760	24
2	2268	Morton Landfill	Cochran	4AE	100	804,913	400	160,983	103
2	2207	City of Floydada Landfill	Floyd	1AE&4AE	7,195	838,531	830	347,990	67
2	2227	City of Post Landfill	Garza	1AE&4AE	4,560	160,749	650	52,243	12
2	2157	City of Plainview Landfill	Hale	1	24,556	9,974,808	691	3,446,296	140
2	1733	City of Sundown Landfill	Hockley	4AE	407	224,857	815	91,629	124
2	2369	City of Levelland Landfill	Hockley	1AE&4AE	793	2,637,833	800	1,055,133	100
2	363A	City of Amherst Landfill	Lamb	4AE	48	50,538	400	10,108	60
2	583A	City of Olton Landfill	Lamb	1AE	9,495	829,749	666	276,306	28
2	1298	City of Littlefield Landfill	Lamb	4AE	2,048	287,113	1400	200,979	19
2	2274	Littlefield Municipal Landfill	Lamb	1AE&4AE	5,859	1,269,242	1400	888,469	99
2	69	City of Lubbock Landfill	Lubbock	1	26,406	537,632	866	232,795	8
2	2252	City of Lubbock West Texas Regional Disposal Facility	Lubbock	1	306,871	106,342,954	1326	70,505,379	230
2	2323	C & D Waste Landfill	Lubbock	4	86,462	2,914,990	666	970,692	30
2	2328A	City of Tahoka Landfill	Lynn	1AE	10,826	870,760	850	370,073	52
2	549A	City of Matador Landfill	Motley	1AE	2,905	483,154	968	233,847	71
2	2170	City of Brownfield Landfill	Terry	1	13,266	4,392,274	1150	2,525,558	190
2	2293	City of Meadow Landfill	Terry	1AE	13,485	1,110,274	800	444,110	40
2	2217	Yoakum County Landfill	Yoakum	1AE&4AE	9,784	1,923,706	800	769,482	79

NORTEX REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
3	9001	City of Paducah Landfill	Cottle	Monofill	9	9,957	400	2,091	NA
3	9003	City of Quanah Landfill	Hardeman	Monofill	240	3,880	400	815	NA
3	1428A	City of Wichita Falls Landfill	Wichita	1	151,501	68,801,240	1040	35,776,645	236
3	1571A	IESI Buffalo Creek Landfill	Wichita	1	161,768	29,099,690	1150	16,732,322	103

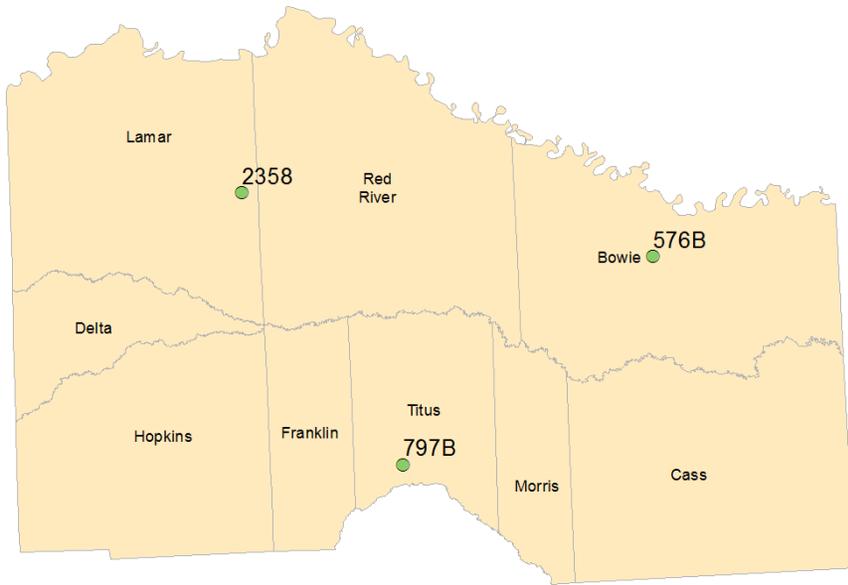
COG 4: North Central Texas Council of Governments



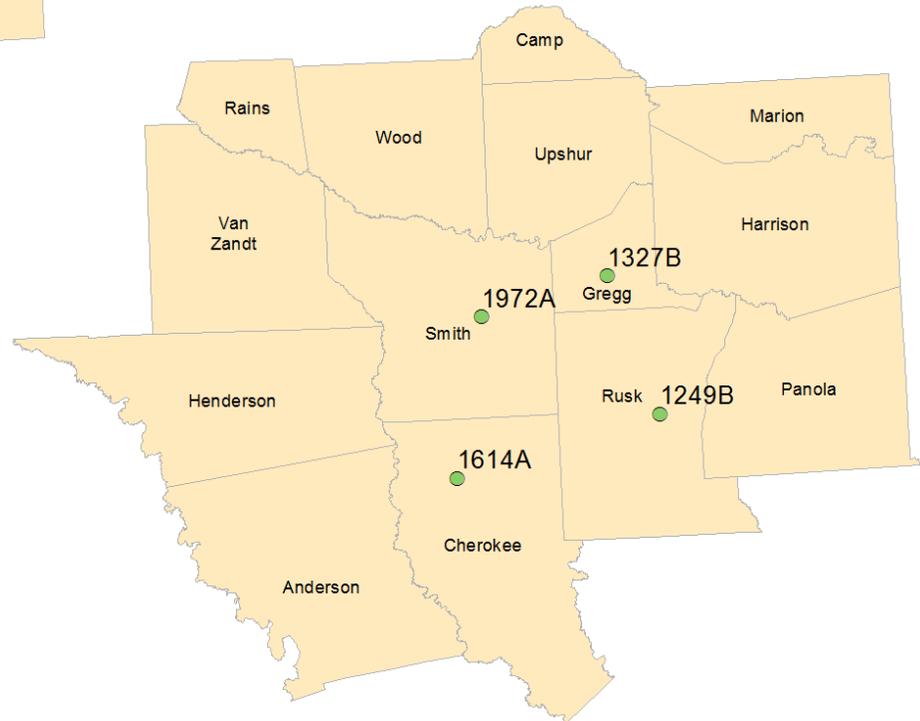
NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
4	2294	121 Regional Disposal Facility	Collin	1	876,665	120,664,966	1172	70,709,670	81
4	62	City of Dallas McCommas Bluff Landfill	Dallas	1	1,707,183	90,050,197	1648	74,201,362	44
4	996C	City of Grand Prairie Landfill	Dallas	1	180,989	12,015,112	1202	7,221,082	40
4	1394B	Hunter Ferrell Landfill	Dallas	1	162,236	14,004,631	1496	10,475,464	65
4	1895A	Charles M Hinton Jr Regional Landfill	Dallas	1	448,735	32,940,933	1200	19,764,560	47
4	1025B	DFW Recycling And Disposal Facility	Denton	1	1,371,269	10,671,960	1700	9,071,166	7
4	1312A	Camelot Landfill	Denton	1	265,710	5,915,040	1479	4,374,172	16
4	1590A	City of Denton Landfill	Denton	1	231,990	10,354,698	1000	5,177,349	22
4	1749B	Lewisville Landfill	Denton	4	216,331	21,060,443	1610	16,953,657	78
4	42D	Waste Management Skyline Landfill	Ellis	1	1,163,285	27,859,047	1500	20,894,285	30
4	1209B	CSC Disposal And Landfill	Ellis	1	5,865	30,964,103	1023	15,838,139	2700
4	1745B	Ellis County Landfill	Ellis	1	68,709	39,628,409	1193	23,638,346	344
4	664	City of Stephenville Landfill	Erath	4	16,368	890,247	1100	489,636	65
4	1195A	Republic Maloy Landfill	Hunt	1	109,490	5,753,969	1211	3,484,028	32
4	534	City of Cleburne Landfill	Johnson	1	704	20,731	1000	10,366	15
4	1417B	IESI Turkey Creek Landfill	Johnson	1	528,944	8,873,664	1600	7,098,931	13
4	2190	City of Corsicana Landfill	Navarro	1	90,600	23,507,666	1000	11,753,833	120
4	47A	IESI Weatherford Landfill	Parker	1	192,385	1,674,499	1250	1,046,562	5
4	218C	City of Fort Worth South East Landfill	Tarrant	1	637,034	25,089,947	1506	18,892,730	30
4	358B	City of Arlington Landfill	Tarrant	1	971,615	52,263,214	1707	44,606,653	46
4	1983B	IESI Fort Worth C And D Landfill	Tarrant	4	380,512	3,193,225	1400	2,235,258	6

COG 5: Ark-Tex Council of Governments



COG 6: East Texas Council of Governments



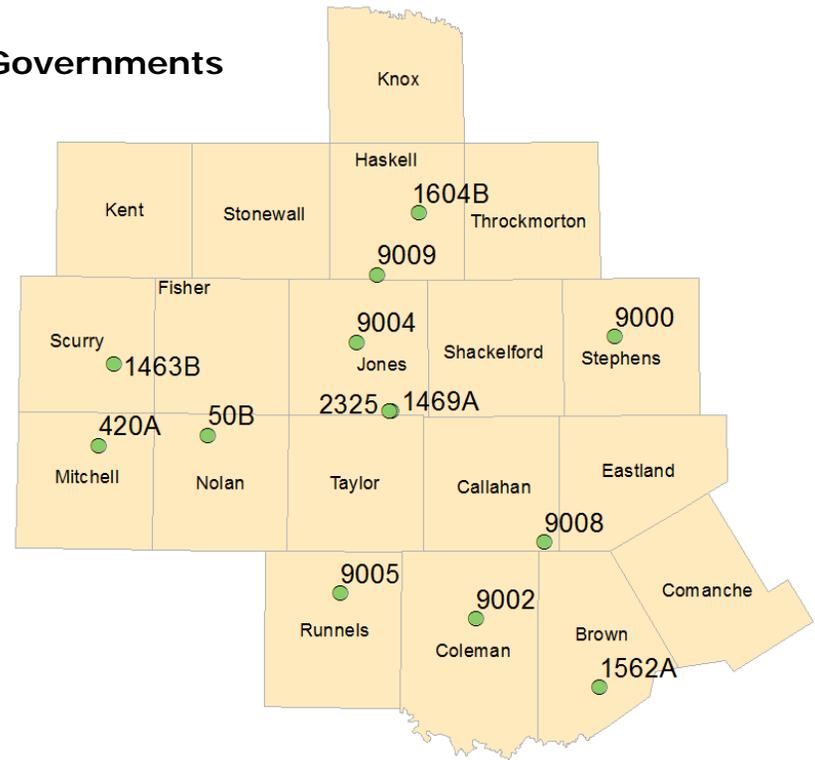
ARK-TEX COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
5	576B	New Boston Landfill	Bowie	1	122,013	838,551	1160	486,360	4
5	2358	Blossom Prairie Landfill	Lamar	1	183,695	76,233,511	826	31,484,440	171
5	797B	Pleasant Oaks Landfill	Titus	1	70,815	19,775,500	1784	17,639,746	249

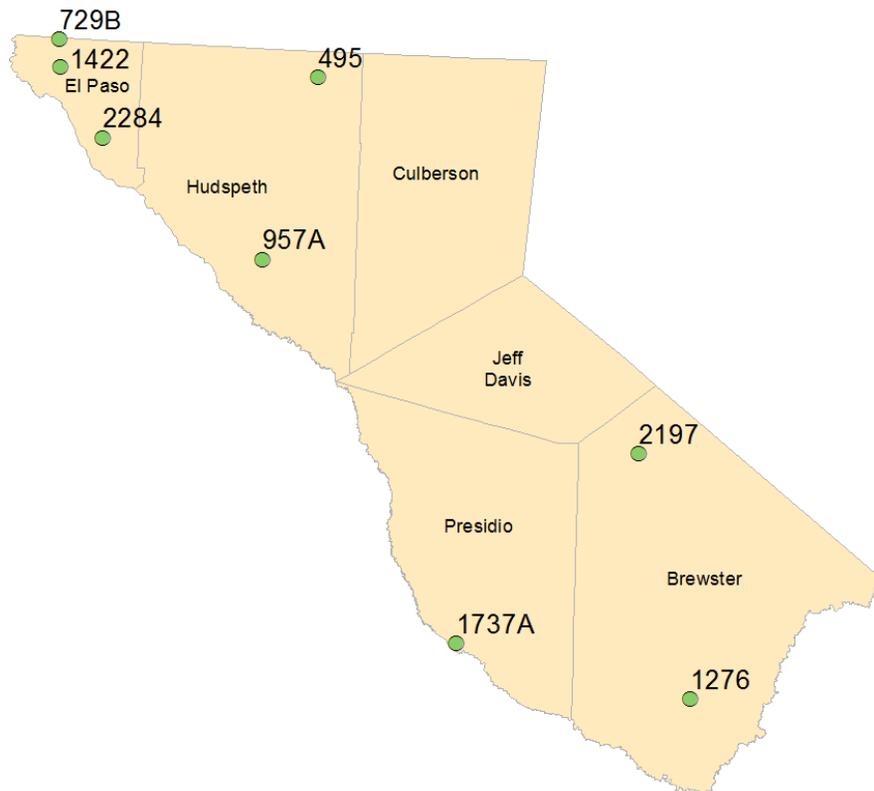
EAST TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
6	1614A	Royal Oaks Landfill	Cherokee	1	81,807	2,407,205	1849	2,225,461	27
6	1327B	Pinehill Landfill	Gregg	1	204,079	15,655,013	1837	14,379,129	70
6	1249B	IESI East Texas Regional Landfill	Rusk	1	129,891	9,710,402	1500	7,282,802	56
6	1972A	Greenwood Farms Landfill	Smith	1	216,428	105,608,874	1771	93,516,658	432

COG 7: West Central Texas Council of Governments



COG 8: Rio Grande Council of Governments



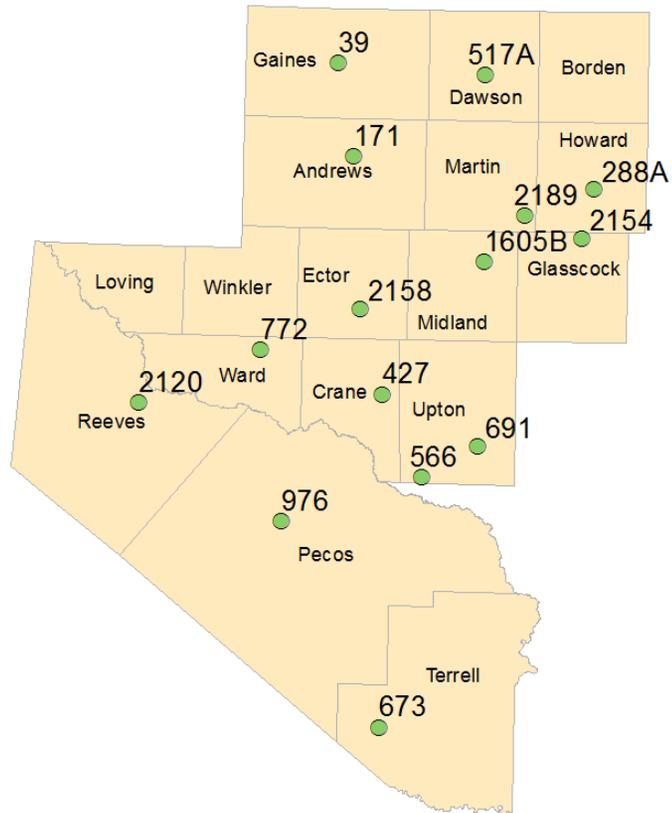
WEST CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
7	1562A	Brownwood Regional Landfill	Brown	1	89,493	17,778,276	1100	9,778,052	109
7	9008	City of Cross Plains	Callahan	Monofill	111	32,778	400	6,883	NA
7	9002	City of Coleman Disposal Site	Coleman	Monofill	432	106,408	400	22,346	NA
7	1604B	City of Haskell Landfill	Haskell	1AE	6,745	783,554	700	274,244	11
7	9009	City of Stamford Building Demolition Landfill	Haskell	Monofill	228	106,095	400	22,280	NA
7	1469A	Abilene Landfill	Jones	1	165,740	89,081,045	1270	56,566,464	341
7	2325	Abilene Environmental Landfill	Jones	1	245,866	18,737,222	1600	14,989,778	68
7	9004	City of Anson Abandoned And Nuisance Building Disposal Site	Jones	Monofill	1,240	366,085	400	76,878	NA
7	420A	Colorado City Municipal Landfill	Mitchell	1AE&4AE	1,577	255,652	700	89,478	8
7	50B	City of Sweetwater Landfill	Nolan	4AE	3,879	167,281	400	33,456	3
7	9005	City of Winters Landfill	Runnels	Monofill	711	0	400	0	NA
7	1463B	City of Snyder Landfill	Scurry	1	42,967	10,500,058	1000	5,250,029	122
7	9000	City of Breckenridge Monofill	Stephens	Monofill	2,360	210,191	400	44,140	NA

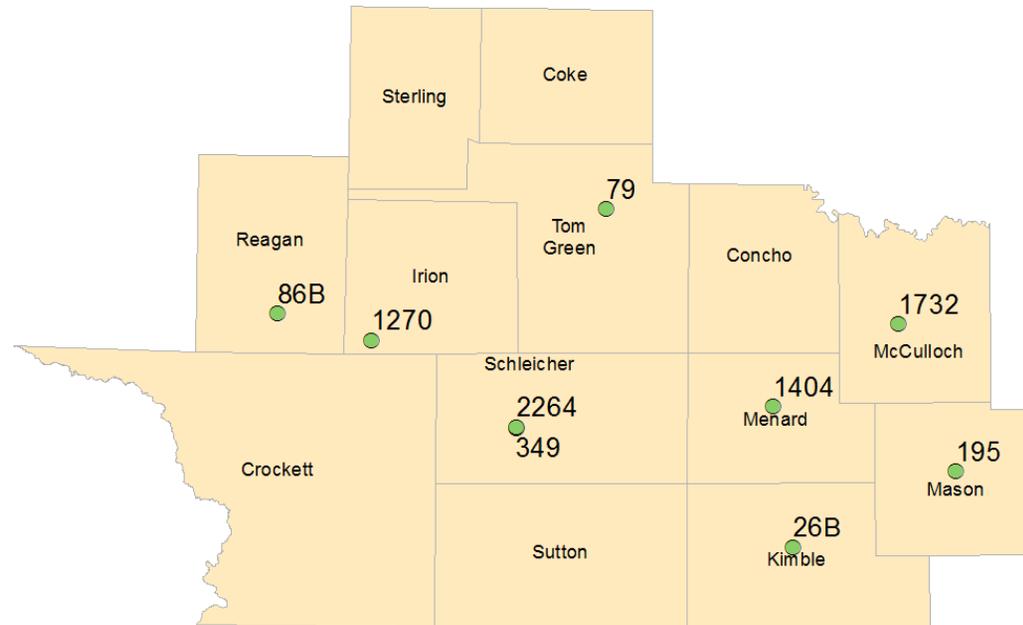
RIO GRANDE COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
8	1276	Panther Junction Landfill	Brewster	1AE	562	98,018	750	36,757	9
8	2197	City of Alpine Landfill	Brewster	1AE	12,512	3,153,481	329	518,748	39
8	729B	City of El Paso Landfill	El Paso	1	4	63,469,369	1274	40,429,988	25
8	1422	Fort Bliss Landfill	El Paso	1	72	35,385	80	1,415	18
8	2284	Greater El Paso Landfill	El Paso	1	401,058	19,086,744	1274	12,158,256	24
8	495	Hudspeth County Dell City Landfill	Hudspeth	1AE&4AE	1,349	196,487	850	83,507	18
8	957A	Hudspeth County Sierra Blanca	Hudspeth	1AE&4AE	4,535	1,281,691	850	544,719	62
8	1737A	City of Presidio Landfill	Presidio	1AE	6,062	647,178	400	129,436	30

COG 9: Permian Basin Regional Planning Commission



COG 10: Concho Valley Council of Governments



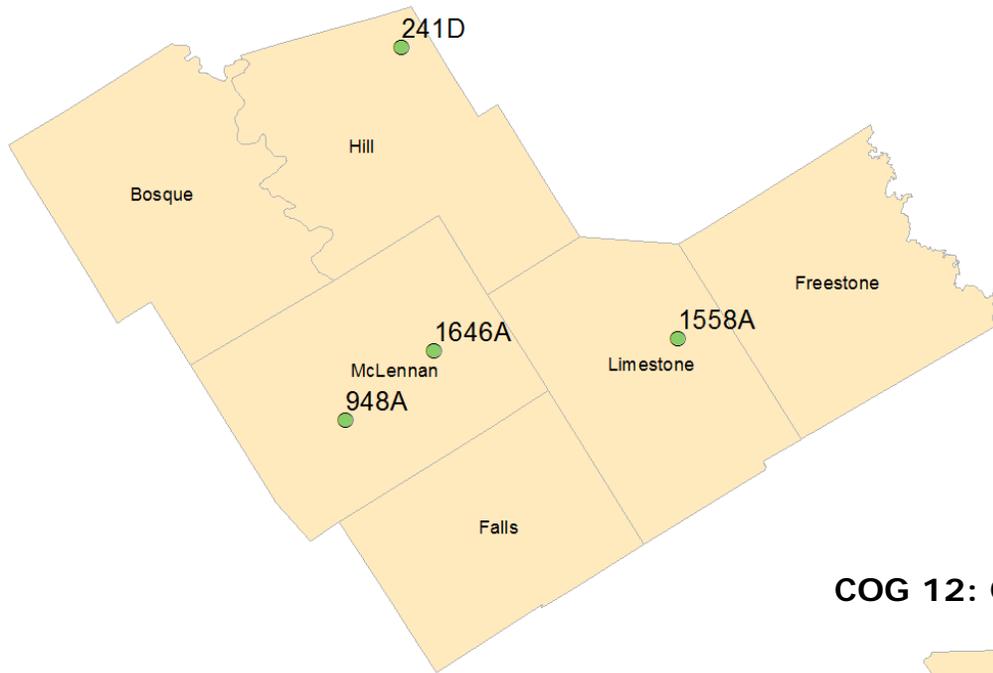
PERMIAN BASIN REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
9	171	City of Andrews Landfill	Andrews	1AE&4AE	11,371	943,904	707	333,670	29
9	427	City of Crane Landfill	Crane	1AE&4AE	4,012	346,022	700	121,108	30
9	517A	City of Lamesa Landfill	Dawson	1	17,024	1,462,249	1123	821,053	48
9	2158	Odessa Landfill	Ector	1	317,995	32,149,322	1149	18,469,785	58
9	39	City of Seminole Landfill	Gaines	1AE&4AE	13,509	1,619,329	750	607,248	50
9	2154	Glasscock County Landfill	Glasscock	1AE	828	53,829	250	6,729	8
9	288A	City of Big Spring Landfill	Howard	1	37,433	499,571	1192	297,744	7
9	2189	City of Stanton Landfill	Martin	1AE	6,264	540,655	1000	270,327	43
9	1605B	City of Midland Landfill	Midland	1	263,575	33,266,628	1189	19,777,010	46
9	976	City of Fort Stockton Landfill	Pecos	1AE&4AE	15,940	225,065	800	90,026	7
9	2120	City of Pecos Landfill	Reeves	1AE&4AE	17,641	769,522	850	327,047	24
9	673	Terrell County Landfill	Terrell	4AE	305	20,277	300	3,042	38
9	566	City of McCamey Landfill	Upton	4AE	2,573	1,226,294	750	459,860	6
9	691	Upton County Rankin Landfill	Upton	4AE	4,928	61,538	400	12,308	28
9	772	City of Monahans Landfill	Ward	1AE	11,563	982,163	850	417,419	31

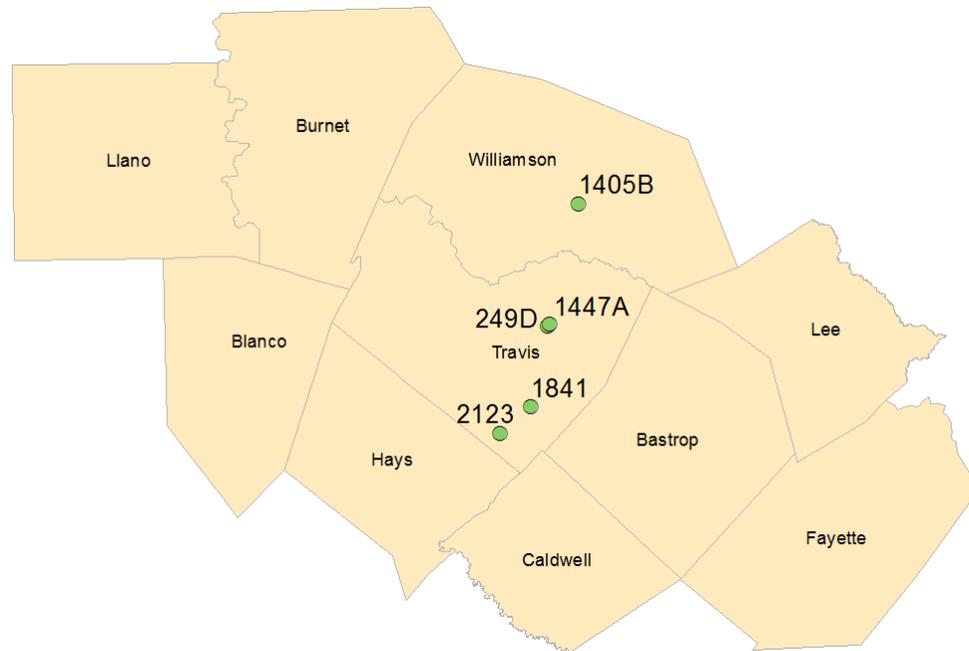
CONCHO VALLEY COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
10	1270	Barnhart Landfill	Irion	1AE	758	27,846	350	4,873	1
10	26B	City of Junction Landfill	Kimble	4AE	2,700	599,108	1000	299,554	202
10	195	City of Mason Landfill	Mason	1AE	2,359	73,284	1000	36,642	10
10	1732	City of Brady Landfill	McCulloch	1AE&4AE	9,852	2,259,747	900	1,016,886	58
10	1404	City of Menard Landfill	Menard	4AE	29	12,017	850	5,107	39
10	86B	City of Big Lake Landfill	Reagan	1AE	5,334	23,790	740	8,802	84
10	349	City of Eldorado Landfill	Schleicher	4AE	1,719	552,249	1500	414,187	196
10	2264	City of Eldorado Landfill	Schleicher	1AE	3,771	1,342,776	1500	1,007,082	77
10	79	San Angelo Landfill	Tom Green	1	205,628	4,181,210	1377	2,878,763	14

COG 11: Heart of Texas Council of Governments



COG 12: Capital Area Council of Governments



HEART OF TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
11	241D	Itasca Landfill	Hill	1	277,512	48,605,433	1553	37,742,119	136
11	1558A	BFI Mexia Landfill	Limestone	1	30,908	7,744,428	1386	5,366,889	174
11	948A	City of Waco Landfill	McLennan	1	262,196	5,130,357	1049	2,690,872	10
11	1646A	Lacy-Lakeview Recycling And Disposal Facility	McLennan	1	82,211	1,117,138	1400	781,997	8

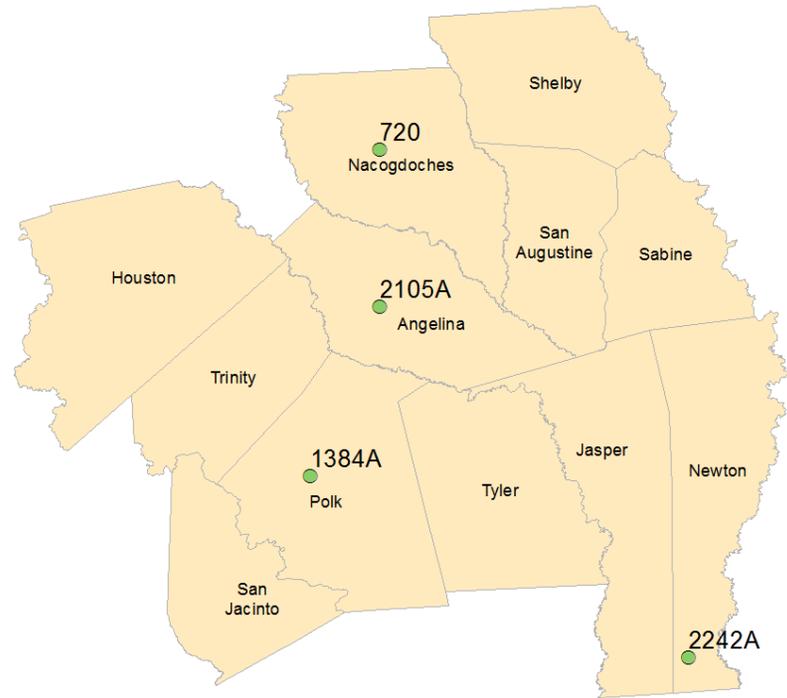
CAPITAL AREA COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	RemYds	Rate	RemTons	RemYrs
12	249D	Austin Community Recycling & Disposal Facility	Travis	1	295,858	12,805,654	1500	9,604,241	16
12	1447A	BFI Sunset Farms Landfill	Travis	1	663,485	5,453,651	1386	3,779,380	<1
12	1841	IESI Travis County Landfill	Travis	4	222,772	1,543,017	1300	1,002,961	5
12	2123	Texas Disposal Systems Landfill	Travis	1	747,129	22,805,998	1360	15,508,079	21
12	1405B	Williamson County Recycling And Disposal Facility	Williamson	1	304,282	60,466,246	1500	45,349,685	116

COG 13: Brazos Valley Council of Governments



COG 14: Deep East Texas Regional Planning Commission



COG 15: Southeast Texas Regional Planning Commission

BRAZOS VALLEY COUNCIL OF GOVERNMENTS

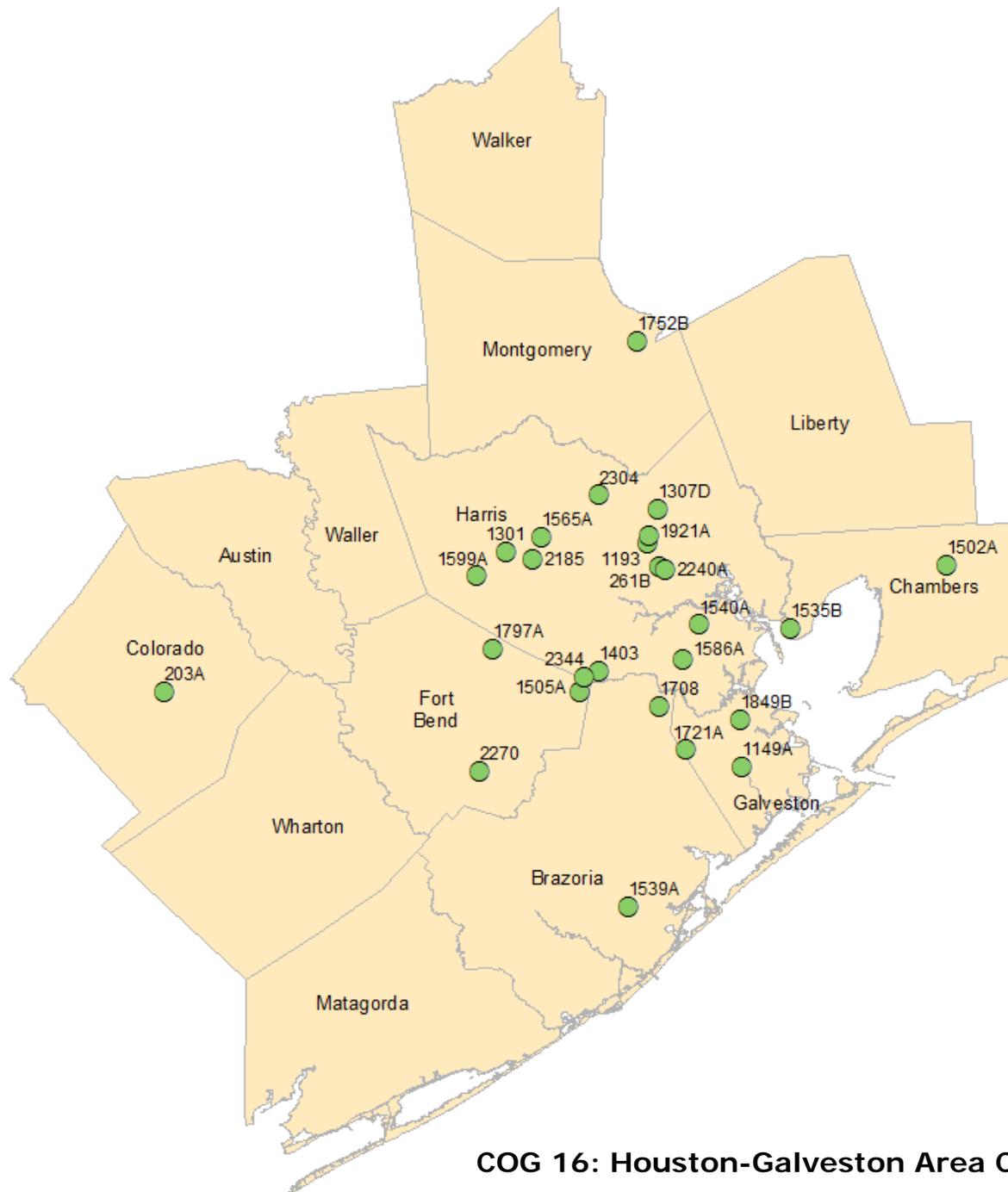
COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
13	2292	Twin Oaks Landfill	Grimes	1	326,790	35,139,278	1231	21,628,226	66

DEEP EAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
14	2105A	Angelina County Waste Management Center	Angelina	1	98,649	3,720,333	1200	2,232,200	23
14	720	City of Nacogdoches Landfill	Nacogdoches	1	67,017	3,087,008	1150	1,775,030	35
14	2242A	Western Waste of Texas Newton Complex	Newton	1	204,615	42,583,544	1360	28,956,810	135
14	1384A	Polk County Landfill	Polk	1	117,074	8,209,404	1429	5,865,619	50

SOUTHEAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
15	2214A	IESI Hardin County Landfill	Hardin	1	50,763	1,003,226	1200	601,936	12
15	1486B	City of Beaumont Landfill	Jefferson	1	255,756	18,565,344	1191	11,055,662	43
15	1815A	City of Port Arthur Landfill	Jefferson	1	136,413	15,581,963	1159	9,029,748	66
15	2027	BFI Golden Triangle Landfill	Jefferson	1	370,522	8,075,136	2051	8,281,052	22



COG 16: Houston-Galveston Area Council

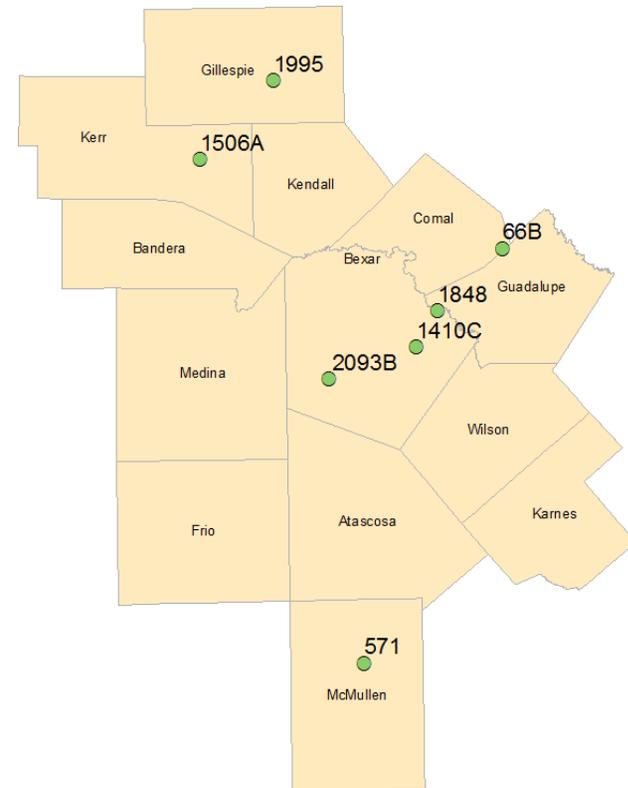
HOUSTON-GALVESTON AREA COUNCIL

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
16	1539A	Seabreeze Environmental Landfill	Brazoria	1	589,837	24,107,207	1791	21,588,004	22
16	1708	Dixie Farm Road Landfill	Brazoria	4	42,092	2,079,645	880	915,044	22
16	1502A	Chambers County Landfill	Chambers	1	22,692	17,625,309	1200	10,575,185	466
16	1535B	Baytown Landfill	Chambers	1	314,510	9,524,792	1320	6,286,363	25
16	203A	Altair Disposal Services Landfill	Colorado	1	34,708	682,901	1200	409,741	8
16	1505A	Blue Ridge Landfill	Fort Bend	1	1,060,899	146,734,412	1258	92,295,945	106
16	1797A	Sprint Fort Bend County Landfill	Fort Bend	4	333,444	14,908,965	972	7,245,757	22
16	2270	Fort Bend Regional Landfill	Fort Bend	1	1,012,929	38,446,737	1750	33,640,895	33
16	1149A	Galveston County Landfill	Galveston	1	403,514	15,868,808	1343	10,655,905	31
16	1721A	Coastal Plains Recycling And Disposal Facility	Galveston	1	495,363	12,994,698	1600	10,395,758	24
16	1849B	North County Landfill	Galveston	4	30	3,689,442	2130	3,929,256	50
16	261B	McCarty Road Landfill	Harris	1	1,426,088	23,714,739	2214	26,252,216	19
16	1193	Whispering Pines Landfill	Harris	1	30	10,902,343	2000	10,902,343	10
16	1301	Addicks Fairbanks Landfill	Harris	4	100,600	470,444	1360	319,902	2
16	1307D	Atascocita Recycling And Disposal Facility	Harris	1	1,242,928	41,325,341	1540	31,820,513	30
16	1403	Casco Hauling And Excavation Landfill	Harris	4	64,255	1,621,642	900	729,739	11
16	1540A	Greenshadows Landfill	Harris	4	108,350	2,807,774	1780	2,498,919	23
16	1565A	Fairbanks Landfill	Harris	4	16	50,080	1650	41,316	2
16	1586A	WCT Greenbelt Landfill	Harris	4	144,883	3,341,565	1500	2,506,174	17
16	1599A	Greenhouse Road Landfill	Harris	4	107,114	5,924,756	1000	2,962,378	18
16	1921A	Cougar Landfill	Harris	4	16	69,396	1650	57,252	1
16	2185	Hawthorn Park Landfill	Harris	4	201,177	201,024	1360	136,696	2
16	2240A	Ralston Road Landfill	Harris	4	119,002	768,062	1500	576,047	5
16	2304	Tall Pines Landfill	Harris	4	338,122	2,707,956	1500	2,030,967	6
16	2344	Lone Star Recycling & Disposal Facility	Harris	4	249,209	12,273,118	1300	7,977,527	25
16	1752B	Security Recycling & Disposal Facility	Montgomery	1	408,828	13,591,254	1420	9,649,790	21

COG 17: Golden Crescent Regional Planning Commission



COG 18: Alamo Area Council of Governments



COG 19: South Texas Development Council



GOLDEN CRESCENT REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
17	1522A	City of Victoria Landfill	Victoria	1	154,878	7,604,761	1747	6,642,759	30

ALAMO AREA COUNCIL OF GOVERNMENTS

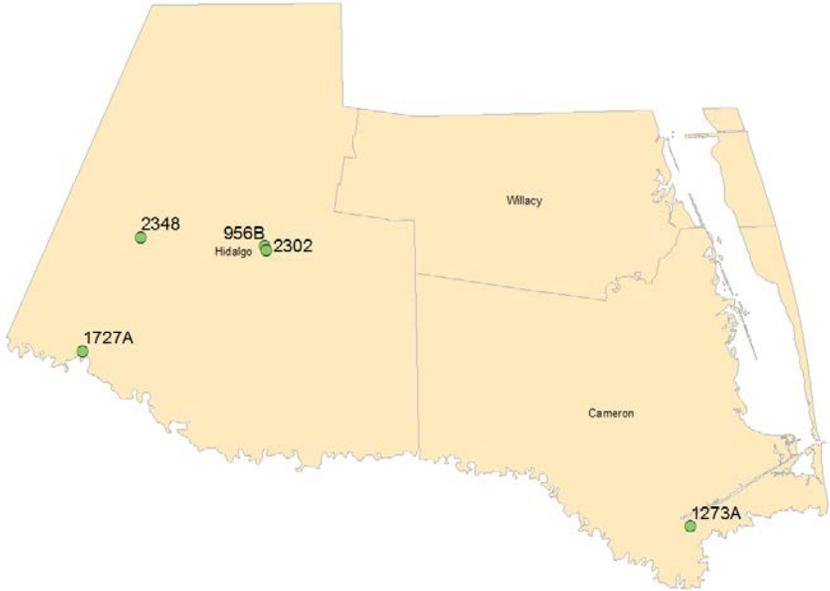
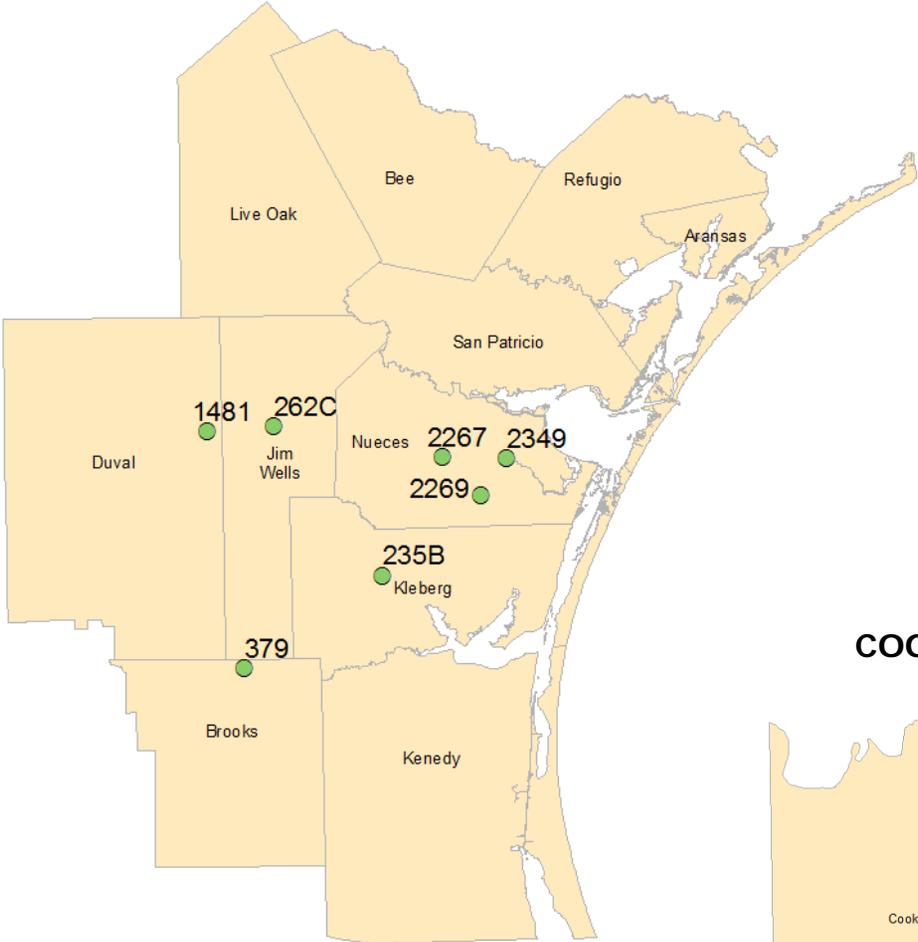
COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
18	1410C	BFI Waste Tessman Road Landfill	Bexar	1	784,013	72,871,975	1628	59,317,788	43
18	2093B	Covel Gardens Landfill	Bexar	1	1,372,164	105,895,703	1800	95,306,133	84
18	66B	Mesquite Creek Landfill	Comal	1	438,252	11,968,499	1750	10,472,437	22
18	1995	City of Fredericksburg Landfill	Gillespie	1	30,168	1,696,359	1180	1,000,852	33
18	1848	Beck Landfill	Guadalupe	4	321,065	5,583,594	1300	3,629,336	16
18	1506A	City of Kerrville Landfill	Kerr	1	8,197	700,866	3000	1,051,299	15
18	571	McMullen County	McMullen	1AE	500	10,002	750	3,751	8

SOUTH TEXAS DEVELOPMENT COUNCIL

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
19	954	City of Roma Landfill	Starr	1AE	4,491	38,334	850	16,292	3
19	1693A	City of Laredo Landfill	Webb	1	347,466	3,956,775	1296	2,563,990	7
19	2286	Ponderosa Regional Landfill	Webb	1	41,909	88,099,048	1060	46,692,495	94
19	783A	San Ygnacio Landfill	Zapata	1AE&4A E	2,057	290,537	1000	145,269	36

COG 21: Lower Rio Grande Valley Development Council

COG 20: Coastal Bend Council of Governments



COG 22: Texoma Council of Governments



COASTAL BEND COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
20	379	Brooks County	Brooks	4AE	284	295,235	400	59,047	28
20	1481	Duval County Landfill	Duval	4AE	2,633	24,023	800	9,609	10
20	262C	City of Alice Landfill	Jim Wells	1	37,458	808,071	1200	484,843	13
20	235B	City of Kingsville Landfill	Kleberg	1	33,997	3,191,937	827	1,319,866	45
20	2267	El Centro Landfill	Nueces	1	158,831	14,795,268	2031	15,024,595	51
20	2269	Cefe Valenzuela Landfill	Nueces	1	421,943	124,390,266	1175	73,079,281	100
20	2349	Gulley Hurst Landfill	Nueces	4	55,638	11,410,397	750	4,278,899	65

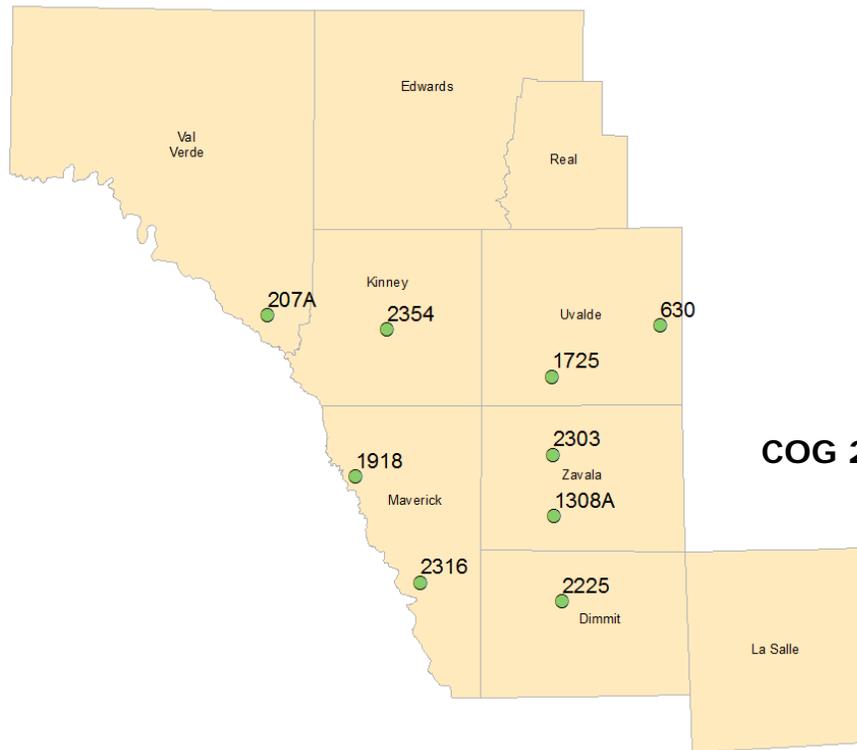
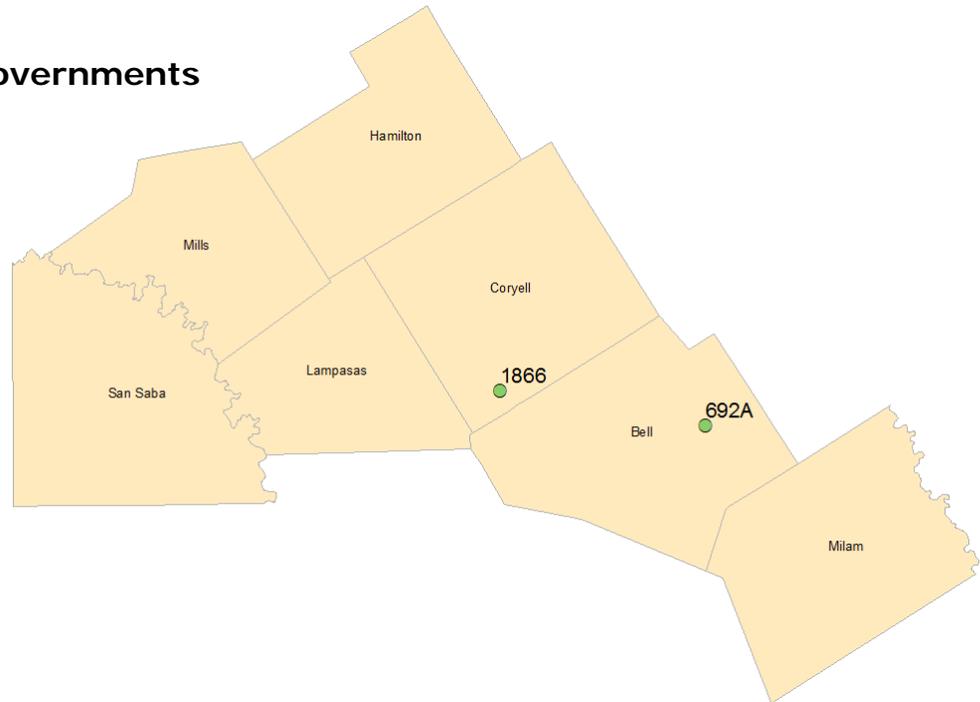
LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
21	1273A	City of Brownsville Municipal Landfill	Cameron	1	281,325	28,507,838	1486	21,181,324	45
21	956B	City of Edinburg Landfill	Hidalgo	1	488,412	6,552,386	1215	3,980,574	8
21	1727A	Penitas Landfill	Hidalgo	1AE	4,684	52,690	1000	26,345	1
21	2302	City of Edinburg Landfill	Hidalgo	4	109,617	10,697,431	920	4,920,818	32
21	2348	La Gloria Ranch Landfill	Hidalgo	1	279,987	110,051,722	1346	74,064,809	212

TEXOMA COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
22	523B	Hillside Landfill	Grayson	1	55,418	11,512,662	980	5,641,204	83
22	2290	TEXOMA Area Solid Waste Authority Disposal and Recycling Facility	Grayson	1	120,729	23,136,265	900	10,411,319	89

COG 23: Central Texas Council of Governments



COG 24: Middle Rio Grande Valley Development Council

CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
23	692A	Temple Recycling And Disposal Facility	Bell	1	417,833	7,802,175	1400	5,461,523	12
23	1866	Fort Hood Landfill	Coryell	1	19,737	2,756,833	1100	1,516,258	31

MIDDLE RIO GRANDE VALLEY DEVELOPMENT COUNCIL

COG	Permit	Site Name	County	Type	2015 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
24	2225	City of Carrizo Springs Landfill	Dimmit	1AE	7,319	1,599,090	600	479,727	60
24	2354	Fort Clark Springs Association Landfill	Kinney	1AE	468	464,817	800	185,927	147
24	1918	City of Eagle Pass And Maverick Landfill	Maverick	4AE	2,085	1,137,274	750	426,478	20
24	2316	Maverick County El Indio Landfill	Maverick	1	50,174	11,558,989	850	4,912,570	69
24	630	City of Sabinal Landfill	Uvalde	4AE	7	3,515	400	703	1
24	1725	City of Uvalde Landfill	Uvalde	1	21,705	432,185	1000	216,093	10
24	207A	City of Del Rio Landfill	Val Verde	1	44,708	1,400,101	700	490,035	11
24	1308A	City of Crystal City Landfill	Zavala	1AE	5,813	1,433,230	850	609,123	30
24	2303	Zavala County Landfill	Zavala	1AE	4,257	146,867	550	40,388	30

Facility Data for MSW Processing Facilities

The maps and tables included in this section represent the active MSW processing facilities data reported for 2015. The maps and tables are organized by COG Region and county. All values are rounded to the nearest whole number.

Key for Processing Facilities Data Tables

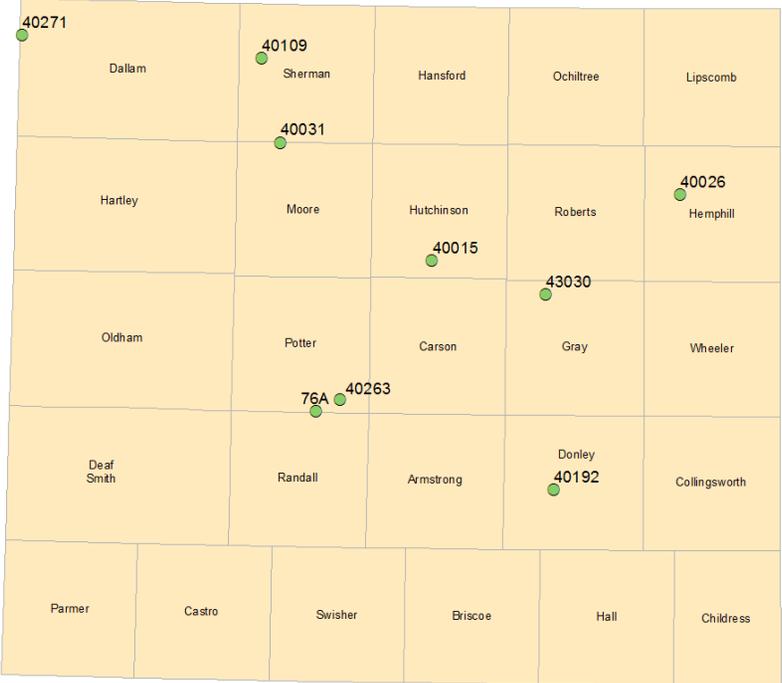
Type	Description
Type	Facility sub-types are identified by Arabic numbers with applicable abbreviations (e.g., 5TS) in the agency database
5AC	Medical waste autoclave facility
5GG	Liquid waste (i.e., grease trap waste, grit trap waste, sludge, septage) processing facility
5MW	Medical waste processor
5RC	Composting facility
5RR	Recycling & Recovery facility
5TL	Liquid waste transfer station
5TS	Transfer station
5WI	Incinerator (no electrical power generation)

2015 Tons - Total tons handled in fiscal year 2015 in terms of major permitted activity (e.g., for a transfer station, total tons transferred; for an incinerator, total tons incinerated).

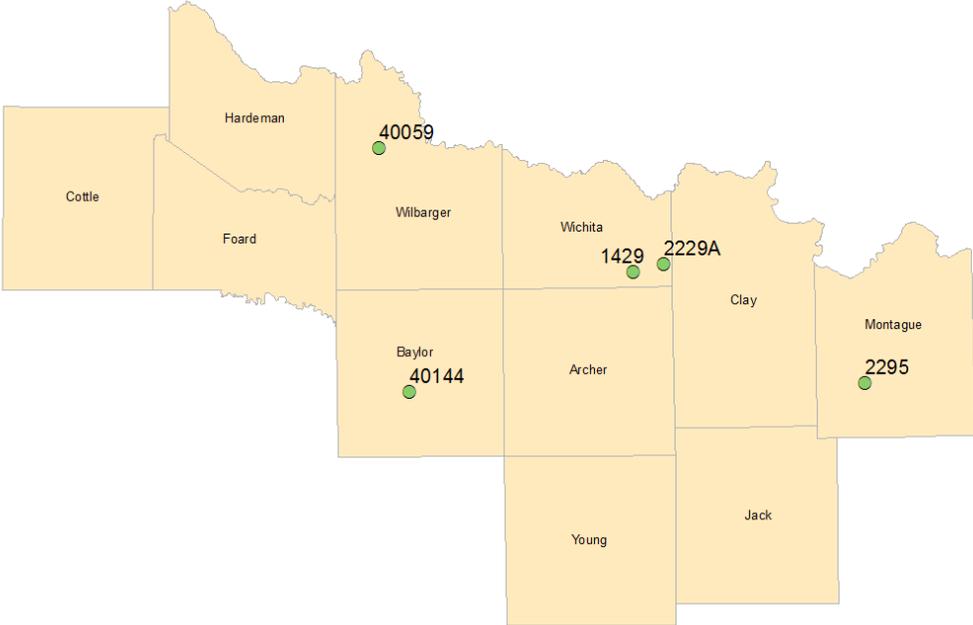
COG 2: South Plains Association of Governments



COG 1: Panhandle Regional Planning Commission



COG 3: Nortex Regional Planning Commission



PANHANDLE REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2015 Tons
1	40271	Tri-State Recycling	Dallam	5TS	10,472
1	40192	City of Clarendon Transfer Station	Donley	5TS	1,323
1	43030	City of Pampa Liquid Waste Processing Facility	Gray	5GG	1,085
1	40026	City of Canadian Transfer Station	Hemphill	5TS	5,024
1	40015	City of Borger Transfer Station	Hutchinson	5TS	15,431
1	40031	City of Cactus Transfer Station	Moore	5TS	1,355
1	76A	City of Amarillo Transfer Station	Potter	5TS	159,428
1	40263	Biocycle Medical Waste Processing Facility	Potter	5AC	1,940
1	40109	City of Stratford Transfer Station	Sherman	5TS	2,898

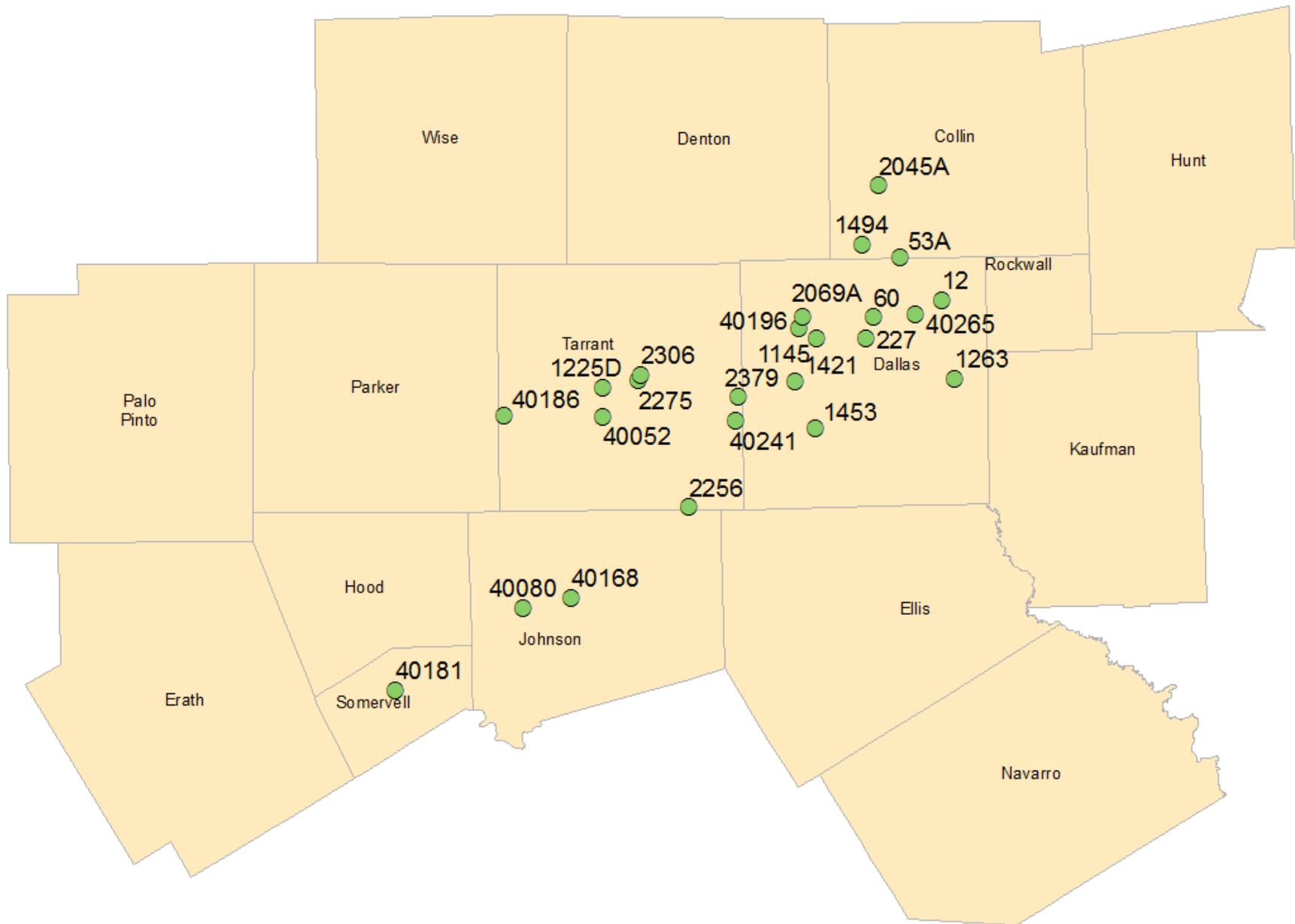
SOUTH PLAINS ASSOCIATION OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2015 Tons
2	40051	City of Levelland Transfer Station	Hockley	5TS	1,050
2	2231	Southwest Disposal South Plains Facility	Lubbock	5GG	6,157
2	40084/40279	Stericycle Lubbock Medical Waste Transfer Station	Lubbock	5TS	1,732
2	40176	Caliche Canyon Transfer Station	Lubbock	5TS	237

NORTEX REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2015 Tons
3	40144	City of Seymour Transfer Station	Baylor	5TS	490
3	2295	IESI Bowie Transfer Station	Montague	5TS	43,667
3	1429	City of Wichita Falls Transfer Station	Wichita	5TS	76,145
3	2229A	IMC Waste Disposal Liquid Waste Processing Facility	Wichita	5GG	20,170
3	40059	City of Vernon Transfer Station	Wilbarger	5TS	16,628

COG 4: North Central Texas Council of Governments

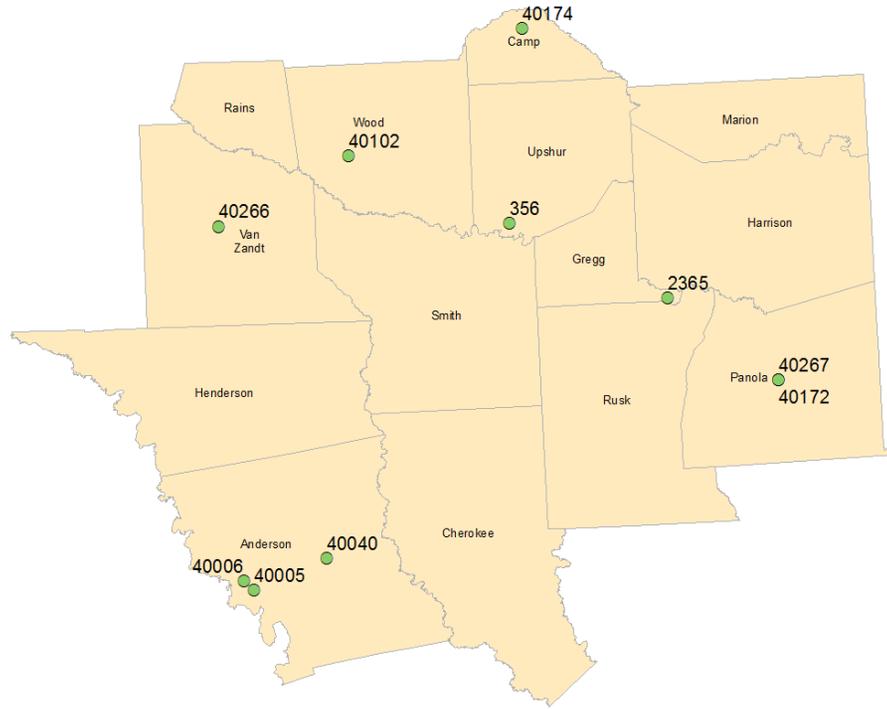


NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2015 Tons
4	53A	Lookout Drive Transfer Station	Collin	5TS	143,668
4	1494	Parkway Transfer Station	Collin	5TS	119,482
4	2045A	Custer Road Transfer Station	Collin	5TS	268,710
4	12	City of Garland Transfer Station	Dallas	5TS	116,246
4	60	City of Dallas Transfer Station - Fair Oaks Ave	Dallas	5TS	64,684
4	227	City of University Park Transfer Station	Dallas	5TS	12,711
4	1145	City of Dallas Transfer Station - Harry Hines Blvd	Dallas	5TS	278,262
4	1263	City of Mesquite Transfer Station	Dallas	5TS	49,048
4	1421	PSC Recovery Systems Liquid Waste Processing Facility	Dallas	5GG	48,175
4	1453	City of Dallas Transfer Station - Westmoreland Rd	Dallas	5TS	60,562
4	2069A	Liquid Environmental Solutions of Texas Dallas Facility	Dallas	5GG	129,026
4	40196	Community Waste Disposal Transfer Station	Dallas	5TS	64,261
4	40265	Stericycle Garland Facility	Dallas	5AC	13,925
4	40080	Harrington Environmental Liquid Transfer Station	Johnson	5TL	4,400
4	40168	Cleburne Transfer Station	Johnson	5TS	54,393
4	40181	Somervell County Transfer Station	Somervell	5TS	1,339
4	1225D	Cold Springs Liquid Waste Processing Facility	Tarrant	5GG	65,912
4	2256	Southwaste Disposal Dallas Facility	Tarrant	5GG	92,490
4	2275	North Texas Recycling Complex	Tarrant	5TS	27,453
4	2306	IESI Minnis Drive Transfer Station	Tarrant	5TS	29,420
4	2379	Liquitek Arlington Liquid Waste Processing Facility	Tarrant	5GG	57,990
4	40052	Southwest Paper Stock Transfer Station	Tarrant	5TS	8,406
4	40186	Westside Transfer Station	Tarrant	5TS	139,193
4	40241	Oncore Technology Facility	Tarrant	5MW	780

ARK-TEX COUNCIL OF GOVERNMENTS (COG 5) - NO DATA AVAILABLE

COG 6: East Texas Council of Governments



COG 8: Rio Grande Council of Governments



EAST TEXAS COUNCIL OF GOVERNMENTS

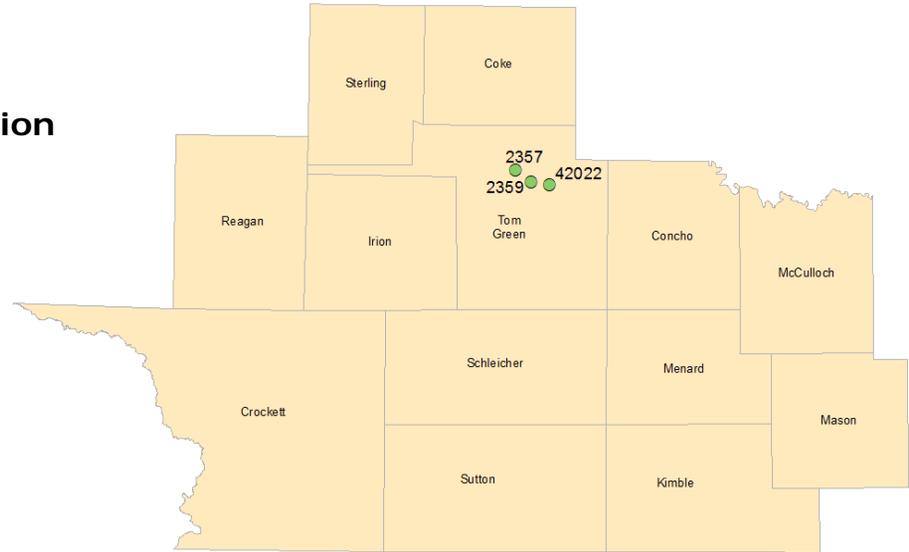
COG	Permit/Registration	Site Name	County	Type	2015 Tons
6	40005	TDCJ Beto Transfer Station	Anderson	5TS	971
6	40006	TDCJ Coffield Transfer Station	Anderson	5TS	1,230
6	40040	IESI Palestine Transfer Station	Anderson	5TS	47,775
6	40174	Pittsburgh Transfer Station	Camp	5TS	23,012
6	2365	Edwards Construction Facility	Gregg	5GG	6,345
6	40172	City of Carthage Transfer Station	Panola	5TS	12,235
6	40267	Sharps Environmental Services Facility	Panola	5MW	736
6	356	Vital Earth Resources Composting Facility	Upshur	5RC	2,425
6	40266	City of Canton Transfer Station	Van Zandt	5TS	7,180
6	40102	Upper Sabine Valley Solid Waste Municipal District Transfer Station	Wood	5TS	11,602

WEST CENTRAL TEXAS COUNCIL OF GOVERNMENTS (COG 7) - NO DATA AVAILABLE

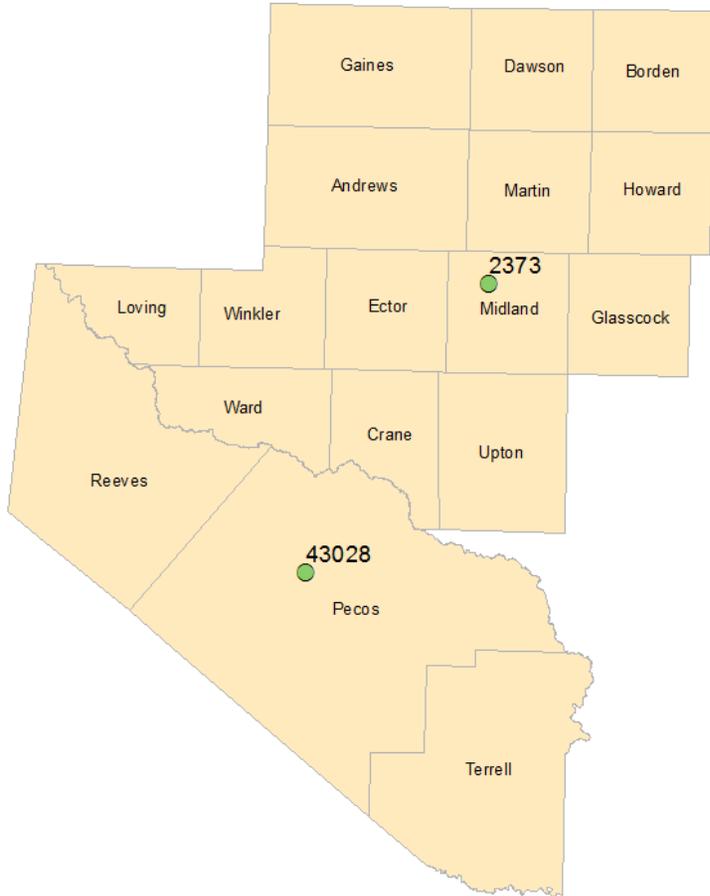
RIO GRANDE COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2015 Tons
8	2355	Liquid Environmental Solutions of Texas El Paso Facility	El Paso	5GG	16,782
8	40237	El Paso C&D Recycling Plant	El Paso	5RR	2,829
8	40261	Stericycle El Paso Medical Waste Transfer Station	El Paso	5TS	1,448
8	40262	Mediwaste Medical Waste Treatment Facility	El Paso	5AC	45
8	42038	Fort Bliss Bio Cell Facility	El Paso	5RC	308
8	42036	Cerro Alto Monofill Sludge	Hudspeth	5RC	158

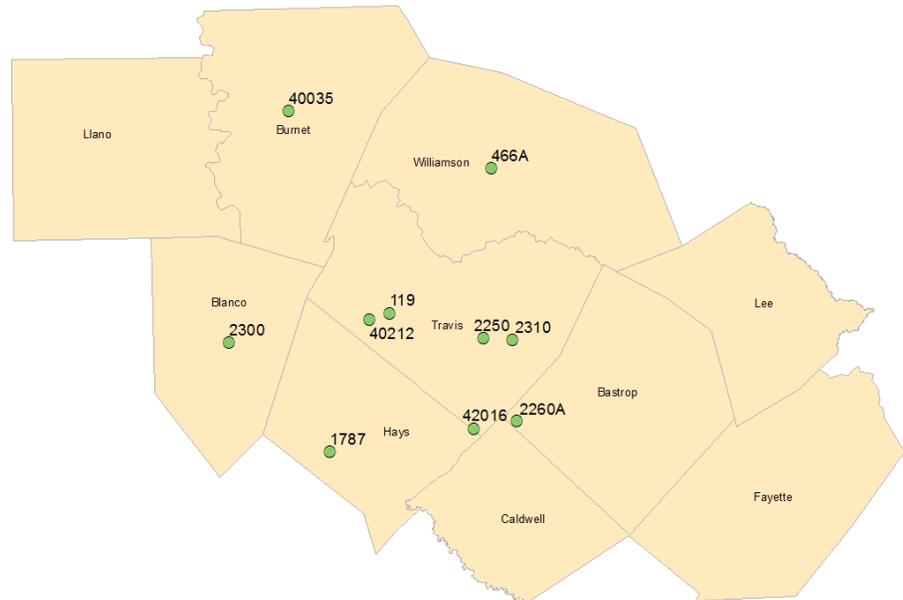
COG 10: Concho Valley Council of Governments



COG 9: Permian Basin Regional Planning Commission



COG 12: Capital Area Council of Governments



PERMIAN BASIN REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2015 Tons
9	2373	Affordable Dewatering Service	Midland	5GG	82,576
9	43028	City of Stockton Liquid Waste Processing Facility	Pecos	5GG	978

CONCHO VALLEY COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2015 Tons
10	2357	San Angelo Pro Pump Dewatering & Compost Facility	Tom Green	5RC	88
10	2359	D's Recycling Facility	Tom Green	5RC	958
10	42022	Kickapoo Composting Facility	Tom Green	5RC	1,532

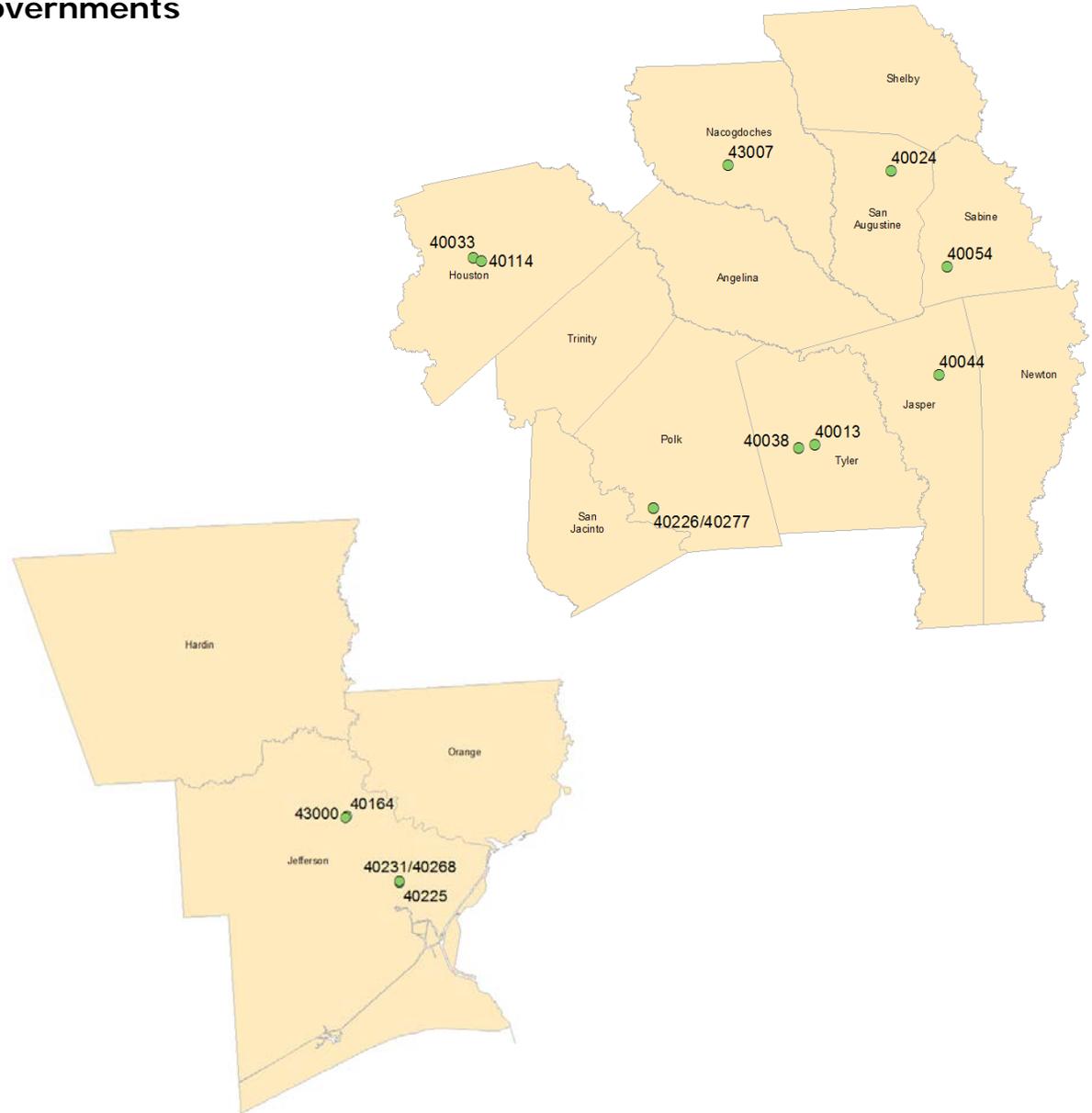
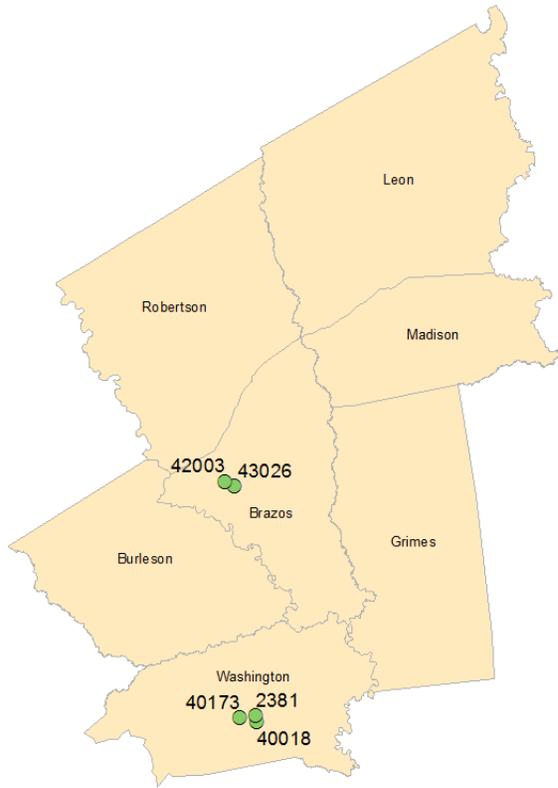
HEART OF TEXAS COUNCIL OF GOVERNMENTS (COG 11) - NO DATA AVAILABLE

CAPITAL AREA COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2015 Tons
12	2260A	Stericycle Medical Waste Processing Facility	Bastrop	5AC	7,703
12	2300	IESI Blanco County Transfer Station	Blanco	5TS	22,477
12	40035	BFI Burnet Transfer Station	Burnet	5TS	30,106
12	1787	Hays County Transfer Station	Hays	5TS	1,512
12	119	Texas Disposal System Eco Depot	Travis	5TS	4,965
12	2250	Liquid Environmental Solutions of Texas Austin Facility	Travis	5GG	48,730
12	2310	J-V Dirt + Loam Facility	Travis	5RC	193,912
12	40212	Tom Dye Liquid Waste Transfer Station	Travis	5TL	275
12	42016	Texas Organic Recovery Facility	Travis	5RC	10,864
12	466A	Georgetown Transfer Station	Williamson	5TS	58,372

COG 14: Deep East Texas Regional Planning Commission

COG 13: Brazos Valley Council of Governments



COG 15: Southeast Texas Regional Planning Commission

BRAZOS VALLEY COUNCIL OF GOVERNMENTS

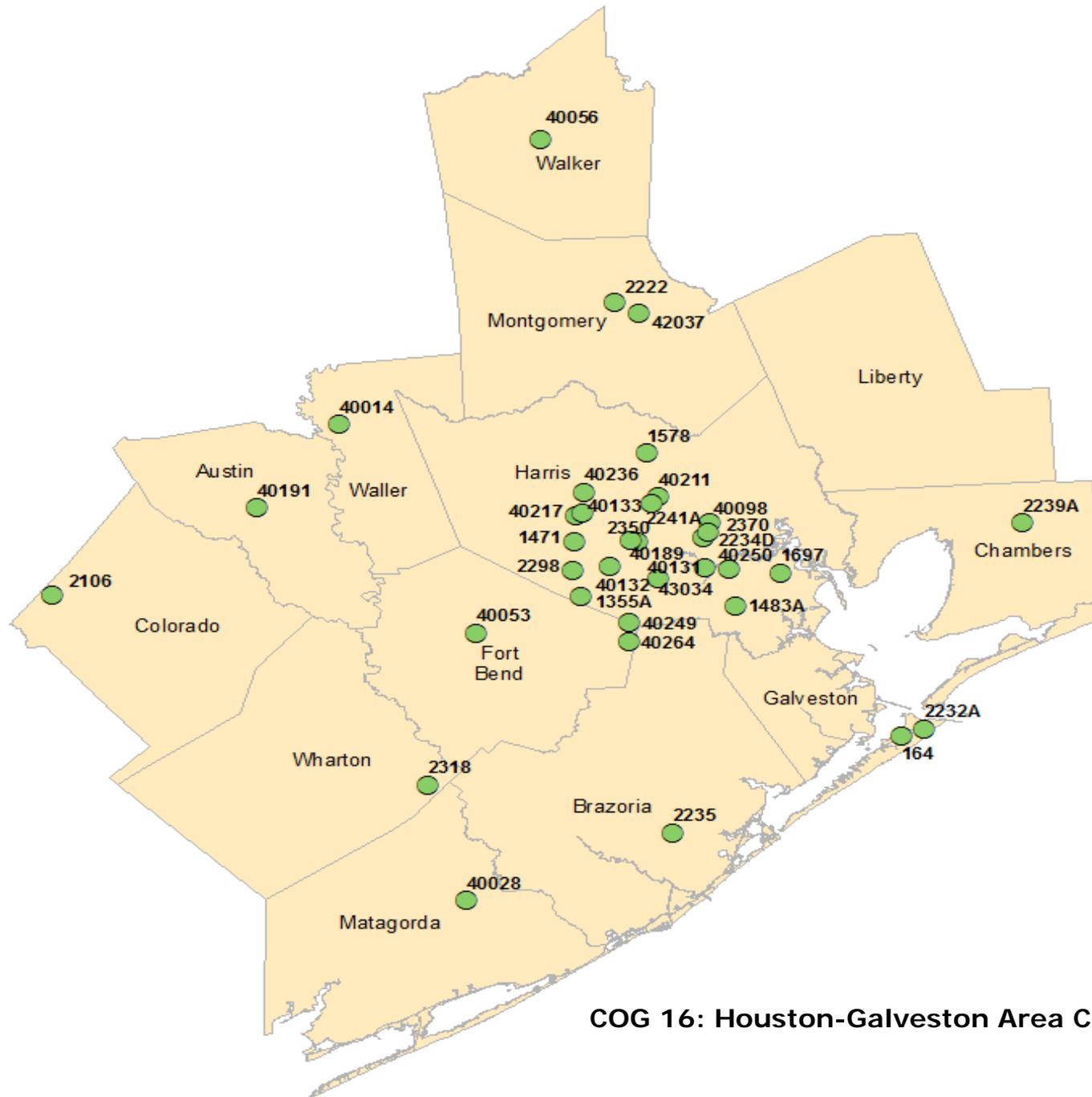
COG	Permit/Registration	Site Name	County	Type	2015 Tons
13	42003	Bryan Compost Facility	Brazos	5RC	11,477
13	43026	Still Creek Liquid Waste Processing Facility	Brazos	5GG	6,886
13	2381	L&G Environmental	Washington	5GG	2,349
13	40018	City of Brenham Transfer Station	Washington	5TS	31,527
13	40173	Washington County Transfer Station	Washington	5TS	39,851

DEEP EAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2015 Tons
14	40033	Hutto Garbage Service Transfer Station	Houston	5TS	870
14	40114	City of Crockett Transfer Station	Houston	5TS	5,779
14	40044	City of Jasper Transfer Station	Jasper	5TS	18,546
14	43007	City of Nacogdoches Grease Treatment Facility	Nacogdoches	5GG	2,634
14	40226/40277	Pro Star Waste Transfer Station	Polk	5TS	5,929
14	40054	Don General Services Transfer Station	Sabine	5TS	3,351
14	40024	City of San Augustine Transfer Station	San Augustine	5TS	1,785
14	40013	City of Woodville Transfer Station	Tyler	5TS	3,108
14	40038	Tyler County Transfer Station	Tyler	5TS	1,127

SOUTHEAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2015 Tons
15	40164	JTB Recycling Liquid Waste Transfer Station	Jefferson	5TL	757
15	40225	Triangle Waste Solutions Transfer Station	Jefferson	5TS	27,733
15	40231/40268	Biomedical Waste Solutions Medical Waste Processing Facility	Jefferson	5AC	2,863
15	43000	JTB Recycling Liquid Waste Processing Facility	Jefferson	5GG	4,301



COG 16: Houston-Galveston Area Council

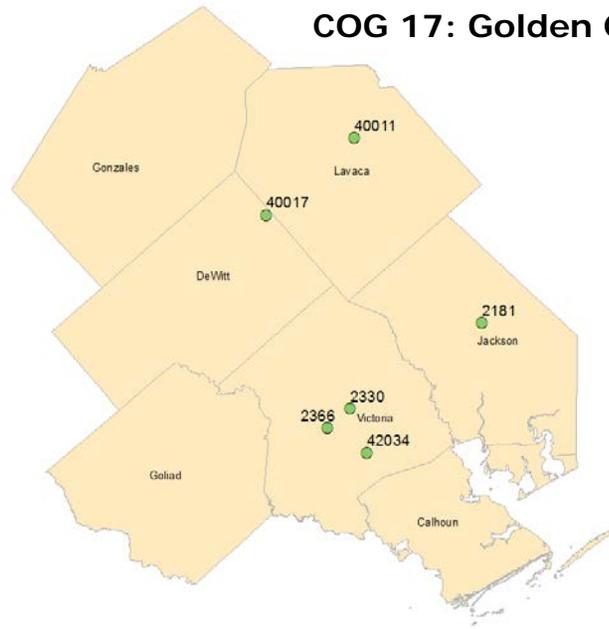
HOUSTON-GALVESTON AREA COUNCIL (*ALL INCOMING MATERIALS WERE REPORTED AS DIVERTED BY THE FACILITY)

COG	Permit/Registration	Site Name	County	Type	2015 Tons
16	40191	Country Waste Transfer Station	Austin	5TS	7,959
16	2235	Brazoria County Recycling Center	Brazoria	5RR	0*
16	2239A	Gulfwest Waste Solutions	Chambers	5WI	3,950
16	2106	City of Weimar Transfer Station	Colorado	5TS	35,889
16	40053	Best Septic Tank Cleaning Liquid Transfer Station	Fort Bend	5TL	1,267
16	40264	Stericycle Fresno Facility	Fort Bend	5TS	2,801
16	164	City of Galveston Transfer Station	Galveston	5TS	90,164
16	2232A	UTMB Galveston Solid Waste Incineration Facility	Galveston	5WI	492
16	1355A	Ruffino Hills Transfer Station	Harris	5TS	422,691
16	1471	Sam Houston Recycling Center	Harris	5TS	169,183
16	1483A	Koenig Street Transfer Station	Harris	5TS	157,777
16	1578	Hardy Road Transfer Station	Harris	5TS	405,600
16	1697	City of Deer Park Transfer Station	Harris	5TS	16,092
16	2234D	Liquid Environmental Solutions of Texas Houston Facility	Harris	5GG	291,590
16	2241A	Southwaste Disposal Hurst Facility	Harris	5GG	152,483
16	2298	B R Perrin Plant	Harris	5GG	9,332
16	2350	Big K Environmental Facility	Harris	5GG	104,328
16	2370	Wastewater Residuals Management	Harris	5GG	20,555
16	40098	BFI Houston Resource Renewal Complex Transfer Station	Harris	5TS	0*
16	40131	Houston Southeast Transfer Station	Harris	5TS	219,022
16	40132	Houston Southwest Transfer Station	Harris	5TS	292,856
16	40133	Houston Northwest Transfer Station	Harris	5TS	226,364
16	40189	Egbert Transfer Station	Harris	5TS	56,282
16	40211	Sprint Recycling Center - Northeast	Harris	5TS	128,800
16	40217	Tanner Road Facility	Harris	5TS	54,961
16	40236	Excell Disposal Waste Containers	Harris	5TS	17,516
16	40249	Lone Star Recycling & Disposal Facility Transfer Station	Harris	5TS	199,983
16	40250	Lone Star SRD Shredding Recycling Disposal Facility	Harris	5AC	185
16	43034	Liquid Environmental Solutions of Texas Houston Burkett Facility	Harris	5GG	44,014

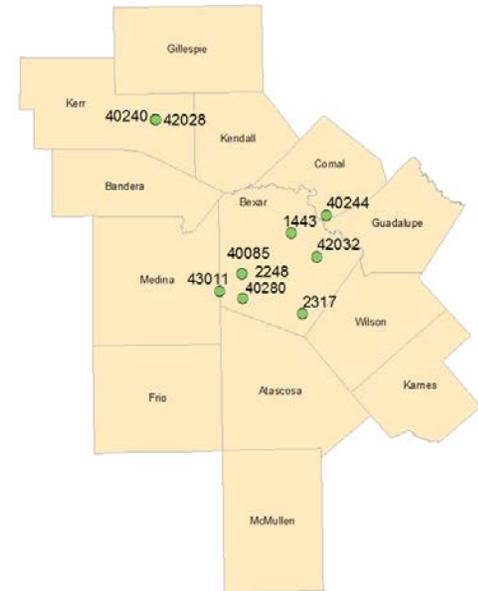
Houston-Galveston Area Council (Continued)

COG	Permit/Registration	Site Name	County	Type	2015 Tons
16	40028	Matagorda County Transfer Station	Matagorda	5TS	5,462
16	2222	Stericycle Conroe Facility	Montgomery	5AC	11,493
16	42037	New Earth Conroe Facility	Montgomery	5RC	116,728
16	40056	City of Huntsville Transfer Station	Walker	5TS	39,512
16	40014	City of Hempstead Transfer Station	Waller	5TS	127
16	2318	Don Tol Compost Facility	Wharton	5RC	2,175

COG 17: Golden Crescent Regional Planning Commission



COG 18: Alamo Area Council of Governments



COG 19: South Texas Development Council



GOLDEN CRESCENT REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2015 Tons
17	40017	City of Yoakum Transfer Station	Dewitt	5TS	59,539
17	2181	Jackson County Transfer Station	Jackson	5TS	4,687
17	40011	City of Hallettsville Transfer Station	Lavaca	5TS	492
17	2330	Victoria Environmental Liquid Processing Facility	Victoria	5GG	38,467
17	2366	Victoria Regional WWTP Grit Trap Waste Facility	Victoria	5GG	869
17	42034	Victoria Compost Facility	Victoria	5RC	20,518

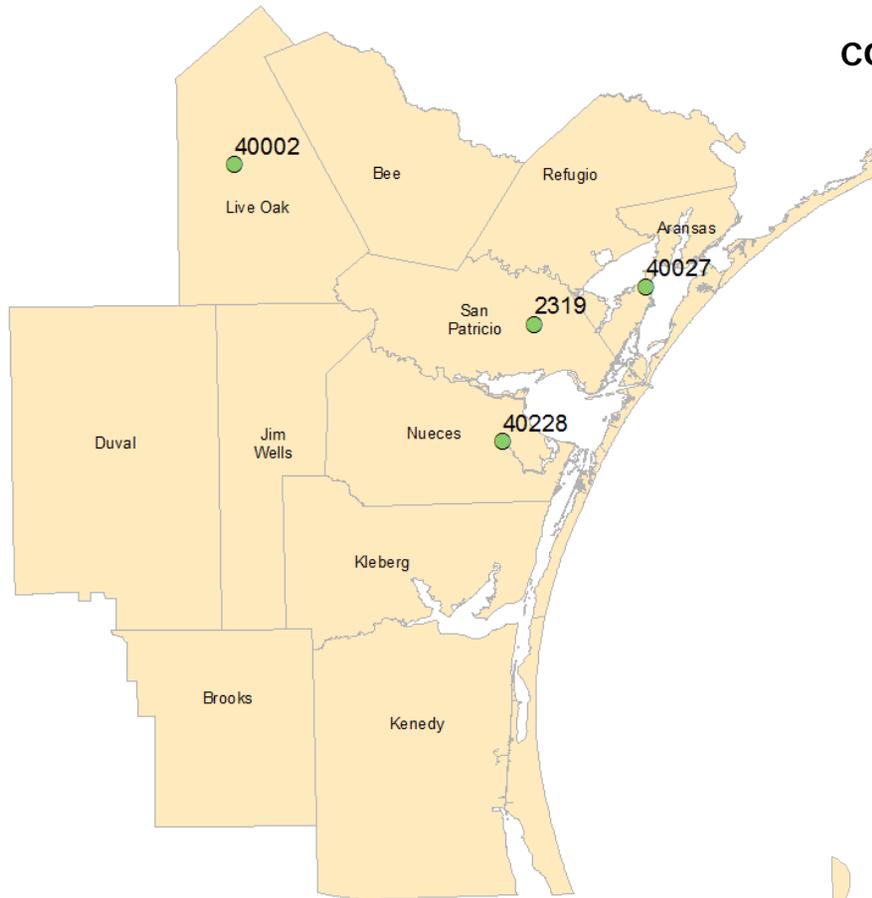
ALAMO AREA COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2015 Tons
18	1443	City of San Antonio Starcrest Transfer Station	Bexar	5TS	156,455
18	2248	Liquid Environmental Solutions of Texas San Antonio Facility	Bexar	5GG	49,232
18	2317	Southwaste Disposal San Antonio Facility	Bexar	5RC	51,120
18	40085	Liquid Environmental Solutions of Texas San Antonio Facility	Bexar	5TS	7,440
18	42032	New Earth San Antonio Facility	Bexar	5RC	76,961
18	40280	Stericycle San Antonio Facility	Bexar	5TS	3,406
18	40244	Medsharps Schertz Facility	Comal	5AC	3,132
18	40240	City of Kerrville Transfer Station	Kerr	5TS	54,569
18	42028	City of Kerrville Composting Facility	Kerr	5RC	7,066
18	43011	City of LaCoste Liquid Processing Facility	Medina	5GG	61,256

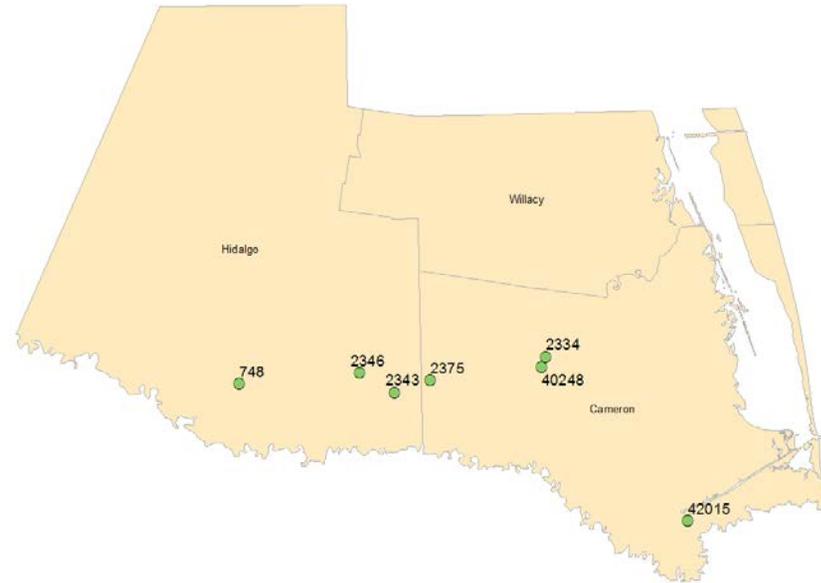
SOUTH TEXAS DEVELOPMENT COUNCIL

COG	Permit/Registration	Site Name	County	Type	2015 Tons
19	40103	Jim Hogg County Transfer Station	Jim Hogg	5TS	8,450
19	40238	Starr County Transfer Station	Starr	5TS	37,006

COG 20: Coastal Bend council of Governments



COG 21: Lower Rio Grande Valley Development Council



COG 22: Texoma Council of Governments



COASTAL BEND COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2015 Tons
20	40027	Aransas County Transfer Station	Aransas	5TS	5,473
20	40002	Live Oak County Transfer Station	Live Oak	5TS	1,220
20	40228	JC Elliott Transfer Station	Nueces	5TS	73,966
20	2319	Texas Sludge Disposal Composting Facility	San Patricio	5RC	12,217

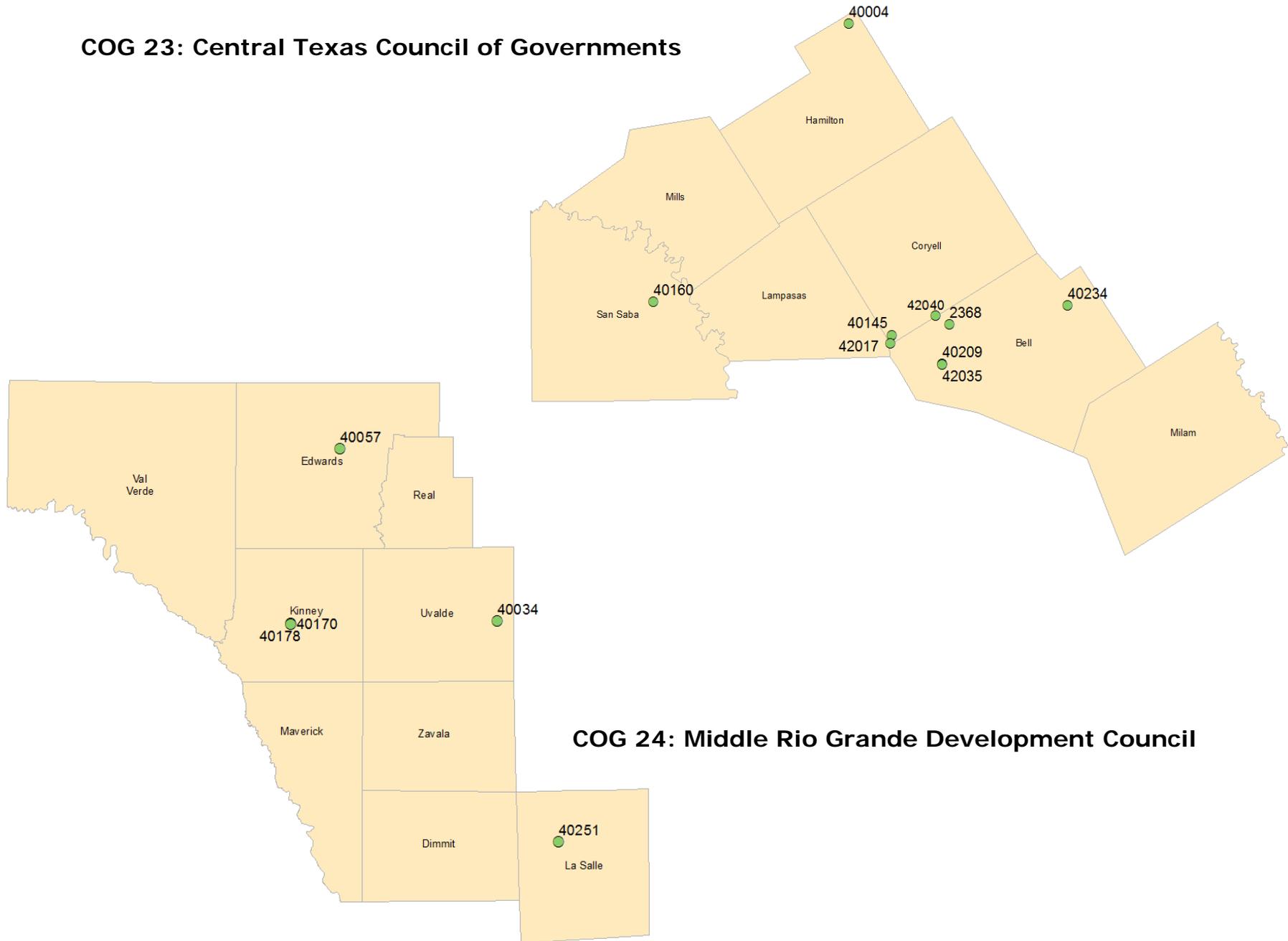
LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL

COG	Permit/Registration	Site Name	County	Type	2015 Tons
21	2334	Stericycle Harlingen Processing Facility	Cameron	5MW	2,704
21	2375	La Feria Transfer Station	Cameron	5TS	147,141
21	40248	City of Harlingen Transfer Station	Cameron	5TS	3,738
21	42015	City of Brownsville Composting Facility	Cameron	5RC	23,110
21	748	Pharr Transfer Station	Hidalgo	5TS	31,997
21	2343	Valley Dewatering Services	Hidalgo	5GG	19,424
21	2346	Liquid Environmental Solutions of Texas Weslaco Facility	Hidalgo	5GG	18,292

TEXOMA COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2015 Tons
22	1030	City of Gainesville Transfer Station	Cooke	5TS	26,207
22	1136	City of Sherman Transfer	Grayson	5TS	10,638

COG 23: Central Texas Council of Governments



COG 24: Middle Rio Grande Development Council

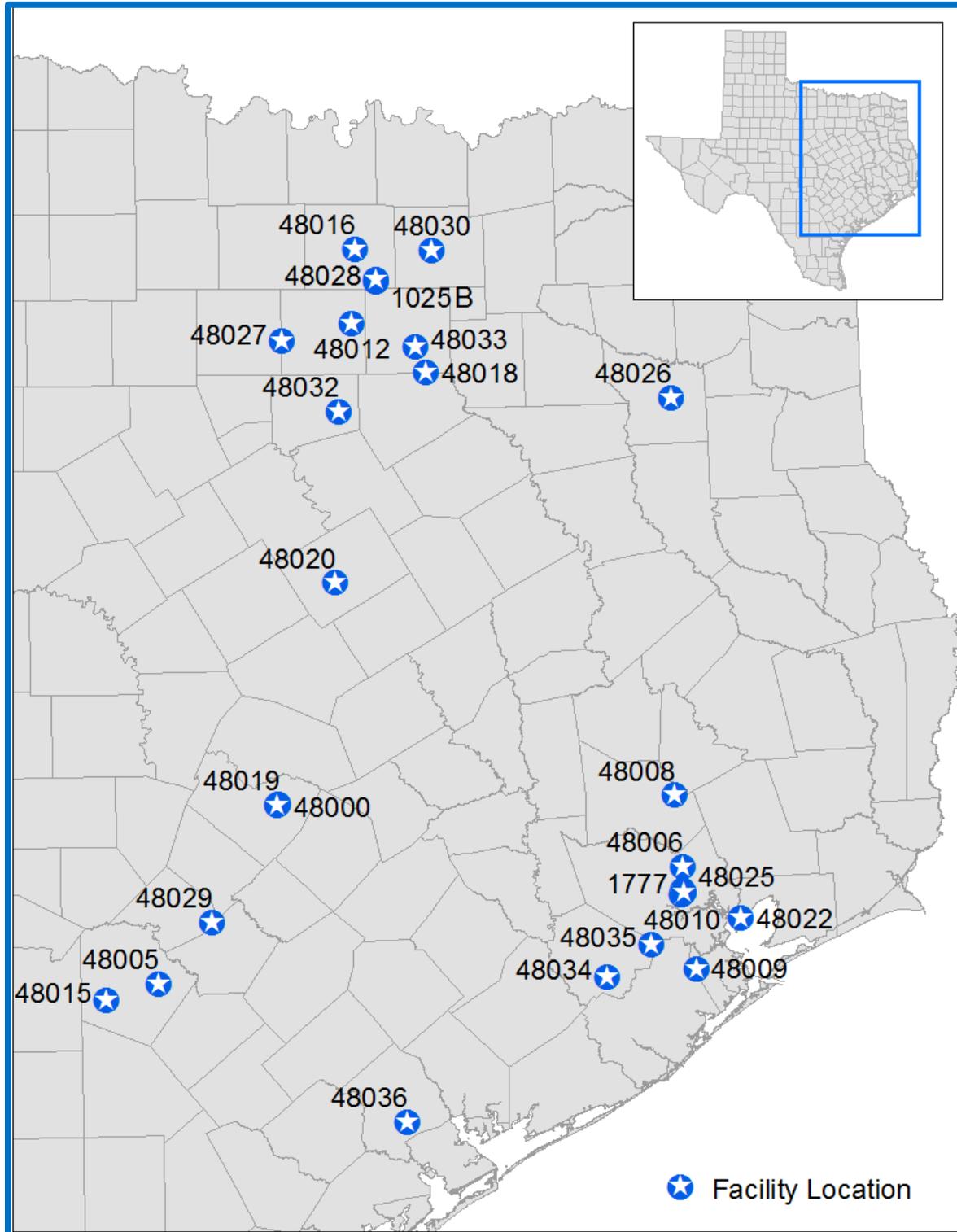
CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2015 Tons
23	2368	S & M Vacuum & Liquid Waste Processing Facility	Bell	5GG	4,129
23	40209	Killeen Transfer Station	Bell	5TS	100,510
23	40234	Stericycle Temple	Bell	5TS	417
23	42035	Bell County WCID 1 Regional Compost Facility	Bell	5RC	8,356
23	40145	City of Copperas Cove Transfer Station	Coryell	5TS	24,949
23	42017	City of Copperas Cove Compost Facility	Coryell	5RC	1,191
23	42040	Fort Hood Biotreatment Facility	Coryell	5RC	684
23	40004	City of Hico Transfer Station	Hamilton	5TS	55
23	40160	City of San Saba Transfer Station	San Saba	5TS	3,798

MIDDLE RIO GRANDE DEVELOPMENT COUNCIL

COG	Permit/Registration	Site Name	County	Type	2015 Tons
24	40057	City of Rock Springs Transfer Station	Edwards	5TS	845
24	40170	City of Brackettville Transfer Station	Kinney	5TS	4,160
24	40178	Fort Clark Springs Transfer Station	Kinney	5TS	109
24	40251	City of Cotulla Transfer Station	La Salle	5TS	42
24	40034	City of Sabinal Transfer Station	Uvalde	5TS	1,062

Facility Data for MSW Facilities Recovering Landfill Gas for Beneficial Use



The table included in this section represents the active gas recovery (Type 9GR) facilities data reported for 2015. The table is organized by COG Region and county. All values are rounded to the nearest whole number.

Key for Landfill Gas Recovery Facilities Data Table

Abbreviation/Column Heading	Description
LFG	Landfill Gas
LFGTE	Landfill Gas to Energy
Landfill	Permit number of the landfill from which the LFGTE facility recovers gas
Gas Processed	Estimated gas processed at the facility in fiscal year 2015
Gas Distributed Off-site	Estimated gas distributed off-site from the facility in fiscal year 2015
Power Generated & Sold	Estimated gas generated and sold by the facility in fiscal year 2015
Power Generated & Used	Estimated gas generated and used on-site by the facility in fiscal year 2015
ft ³	standard cubic feet
kWh	kilowatt hour

COG	Permit/Registration	Site Name	County	Landfill	Gas Processed (ft ³)	Gas Distributed Off-site (ft ³)	Power Generated & Sold (kWh)	Power Generated & Used On-Site (kWh)
4	48030	McKinney Landfill	Collin	568A	0	0	19,407,522	20,328,932
4	48018	Waste Management Skyline Landfill	Dallas/Ellis	42D	1,024,206,000	0	47,118,668	2,580,332
4	48033	McCommas Bluff LFG Processing Facility	Dallas	62	3,437,061,000	1,842,451,000	0	0
4	1025B	DFW Recycling And Disposal Facility	Denton	1025B	1,755,602,799	0	2,239,183	71,389,350
4	48016	City of Denton Landfill	Denton	1590A	256,299,959	0	12,019,804	18,486
4	48028	Camelot Landfill Gas To Energy Facility	Denton	1312A	0	0	25,316,653	665,546
4	48032	IESI Turkey Creek Landfill	Johnson	1417B	829,417,000	404,594,000	0	0
4	48012	Landfill Gas Processing Plant	Tarrant	358B	650,214	650,214	0	0
4	48027	Westside Landfill Gas To Electric Facility	Tarrant	1019A	568,006,000	0	23,690,425	4,046,779
6	48026	Greenwood Farms Landfill	Smith	1972A	806,271,000	393,303,000	0	0

COG	Permit/ Registration	Site Name	County	Landfill	Gas Processed (ft ³)	Gas Distributed Off-site (ft ³)	Power Generated & Sold (kWh)	Power Generated & Used On-Site (kWh)
11	48020	City of Waco Landfill	McLennan	948A	208,536,010	0	0	0
12	48000	Sunset Farms Gas Recovery Facility	Travis	1447A	498,447,290	0	17,742,341	1,533,854
12	48019	Austin Community Landfill Power Station	Travis	249D	1,166,904,000	0	38,793,713	2,027,287
16	48035	Blue Ridge Landfill Gas Compressor Station	Brazoria	1505A	1,263,392,845	1,263,392,845	0	0
16	48022	Baytown LFGTE Facility	Chambers	1535B	0	0	18,506,975	19,758,000
16	48034	Fort Bend Landfill Gas Treatment Facility	Fort Bend	2270	1,131,091,000	538,615,000	0	0
16	48009	Coastal Plains LFGTE Facility	Galveston	1721A	0	0	34,393,758	36,376,000
16	1777	McCarty Road Landfill Gas Recovery Facility	Harris	261B	2,330,695,251	1,275,574,000	0	0
16	48006	Atascocita LFGTE Facility	Harris	1307D	0	0	72,565,123	76,898,000
16	48010	Blue Bonnet LFGTE Facility	Harris	1279	0	0	5,129,178	5,536,000
16	48025	Ameresco McCarty Energy	Harris	261B	1,482,145,230	1,482,145,230	0	0
16	48008	Security Landfill RDF	Montgomery	1752B	0	0	24,657,462	25,786,000
17	48036	City of Victoria Landfill Gas Treatment Facility	Victoria	1522A	221,350	221,350	0	0
18	48005	Tessman Road Landfill Gas Power Station	Bexar	1410C	1,304,541,651	0	53,223,055	3,376,837
18	48015	Covel Gardens Landfill Gas Power Station	Bexar	2093B	1,759,658,486	0	62,832,888	3,875,151
18	48029	Mesquite Creek LFGTE Facility	Comal	66B	5,109,150,000	0	24,245,063	716,658

MSW Waste and Material Type Descriptions

Waste/Material Type	Description
Brush	Cuttings or trimmings from trees, shrubs, or lawns and similar materials.
CESQG	Conditionally exempt small-quantity generator - a person that generates no more than 220 pounds of hazardous waste in a calendar month.
Class 1 wastes	Any industrial solid waste or mixture of industrial solid wastes that because of its concentration, or physical or chemical characteristics is toxic, corrosive, flammable, a strong sensitizer or irritant, a generator of sudden pressure by decomposition, heat, or other means, or may pose a substantial present or potential danger to human health or the environment when improperly processed, stored, transported, or disposed of or otherwise managed, as further defined in §335.505 of this title (relating to Class 1 Waste Determination).
Class 2 wastes	Any individual solid waste or combination of industrial solid waste that are not described as Hazardous, Class 1, or Class 3 as defined in §335.506 of this title (relating to Class 2 Waste Determination).
Class 3 wastes	Inert and essentially insoluble industrial solid waste, usually including, but not limited to, materials such as rock, brick, glass, dirt, and certain plastics and rubber, etc., that are not readily decomposable, as further defined in §335.507 of this title (relating to Class 3 Waste Determination).
Commercial solid waste	All types of solid waste generated by stores, offices, restaurants, warehouses, and other nonmanufacturing activities, excluding residential and industrial wastes.
Construction/Demolition waste	Waste resulting from construction or demolition projects; includes all materials that are directly or indirectly the by-products of construction work or that result from demolition of buildings and other structures, including, but not limited to, paper, cartons, gypsum board, wood, excelsior, rubber, and plastics.
Covered television equipment	A direct view or projection television with a viewable screen of nine inches or larger whose display technology is based on cathode ray tube, plasma, liquid crystal, digital light processing, liquid crystal on silicon, crystal reflective technology, light-emitting diode, or similar technology. This definition also covers a display that is peripheral to a computer that contains a television tuner. This program applies to television equipment that is purchased primarily for personal or home-business use.
Grease trap waste	Material collected in and from a grease interceptor in the sanitary sewer service line of a commercial, institutional, or industrial food service or processing establishment, including the solids resulting from dewatering processes.
Grit trap waste	Grit trap waste includes waste from interceptors placed in the drains prior to entering the sewer system at maintenance and repair shops, automobile service stations, car washes, laundries, and other similar establishments.
Litter	Rubbish and putrescible waste.

Waste/Material Type	Description
Medical waste	Treated and untreated special waste from health care-related facilities that is comprised of animal waste, bulk blood, bulk human blood, bulk human body fluids, microbiological waste, pathological waste, and sharps as those terms are defined in 25 TAC §1.132 (relating to Definitions) from the sources specified in 25 TAC §1.134 (relating to Application), as well as regulated medical waste as defined in 49 Code of Federal Regulations §173.134(a)(5), except that the term does not include medical waste produced on a farm or ranch as defined in 34 TAC §3.296(f) (relating to Agriculture, Animal Life, Feed, Seed, Plants, and Fertilizer), nor does the term include artificial, nonhuman materials removed from a patient and requested by the patient, including, but not limited to, orthopedic devices and breast implants.
Monofill	A landfill that is granted a permit by rule, for a period of up to five years to a county or municipality with a population of 12,000 people or less to dispose of demolition waste from properties with nuisance or abandoned building.
Municipal solid waste	Solid waste, resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, dead animals, abandoned automobiles, and all other solid waste other than industrial solid waste.
NHIW	Non-Hazardous Industrial Waste. Includes Class 1 non-hazardous, Class 2 & Class 3 wastes.
Non-RACM	Non-regulated asbestos-containing material as defined in 40 Code of Federal Regulations Part 61. This is asbestos material in a form such that potential health risks resulting from exposure to it are minimal.
Paper	A material made from plant fibers (such as but not limited to wood pulp, rice hulls, and kenaf). The sludge byproduct resulting from the production of paper may be approved as a feedstock pursuant to §332.33(b) of this title (relating to Required Forms, Applications, Reports, and Request To Use the Sludge Byproduct of Paper Production).
RACM	Regulated asbestos-containing material as defined in 40 Code of Federal Regulations Part 61, as amended, includes: friable asbestos material, Category I nonfriable ACM that has become friable; Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading; or Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during demolition or renovation operations.
Residential waste (Household waste)	Any solid waste (including garbage, trash, and sanitary waste in septic tanks) derived from households (including single and multiple houses, hotels, and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas); does not include yard waste or brush that is completely free of any household wastes.

Waste/Material Type	Description
Septage	The liquid and solid material pumped from a septic tank, cesspool, or similar sewage treatment system.
Sludge	Any solid, semi-solid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water-supply treatment plant, or air pollution control facility, exclusive of the treated effluent from a wastewater treatment plant.
Tires (Scrap)	Any tire that can no longer be used for its original intended purpose. Only split, quartered, or shredded tires may be disposed of in a landfill.
Television recycler	A person who separates collected television equipment and refurbishes that equipment for reuse, or processes equipment to be returned to use in the form of raw materials or products. The term does not include an entity that solely collects or sorts television equipment prior to shipment for recycling.
Used oil	Any oil that has been refined from crude oil, has been used, and, as a result of such use, is contaminated by physical or chemical impurities.
White goods	Discarded large household appliances such as refrigerators, stoves, washing machines, or dishwashers.
Yard waste	Leaves, grass clippings, yard and garden debris, and brush, including clean woody vegetative material not greater than six inches in diameter that results from landscaping maintenance and land-clearing operations. The term does not include stumps, roots, or shrubs with intact root balls.