

Solid Waste Planning

The S.C. Solid Waste Policy and Management Act of 1991 (Act) – S.C. Code of Laws § 44-96-60 – requires the S.C. Department of Health and Environmental Control (DHEC) to develop a state solid waste management plan (State Plan).

The Act (Section 44-96-80) also requires county governments or regions to develop plans that are consistent with the State Plan. This section outlines the planning and other responsibilities of state and county governments.

The State Plan is required to address a 20-year planning period and include:

- **An inventory of the amount and type of solid waste currently being disposed of;**
- **Solid waste disposal projections;**
- **An analysis of the types of facilities that will be needed to manage solid waste;**

SECTION



- **An estimate of the current capacity in the state to manage solid waste;**
- **An evaluation of current solid waste management practices;**
- **Recommendations on how the state can meet its waste reduction and recycling goals; and**
- **A description of public education programs developed in partnership with local governments, businesses, industry and other organizations to – among other objectives – promote waste reduction and recycling.**

The State Plan was adopted in 1992 and revised in 1999. In 2006, a revision established limits for facilities that use emerging technologies.

This annual report is an update to the State Plan as required by the Act.

Local Planning Responsibilities

COUNTY/REGIONAL SOLID WASTE MANAGEMENT PLANS

As outlined above, each county is required to have a comprehensive solid waste management plan to ensure adequate disposal capacity. Counties may create and implement regional solid waste management plans.

These local plans – which also are required to address a 20-year planning period – must be consistent with the State Plan and include:

- **The amount and type of solid waste projected to be disposed of within the county or region;**
- **An estimate of the current capacity within that county or region to manage its solid waste;**
- **An analysis of existing and new facilities that will be needed to manage the solid waste generated;**
- **A description of the recycling program** including material collected, type of public education/outreach initiatives offered to promote the program and the designation of a recycling coordinator;

- **An outline of how the county or region expects to meet the state’s recycling and disposal goals; and**
- **An estimate of the cost of implementing the plan.**

DHEC considers local plans when making consistency determinations for solid waste facilities. Because the local government is responsible for providing management of all solid waste, the local plan should address all solid waste streams, applicable facility types and methods of treatment.

DHEC encourages counties and regions to:

- **Review their solid waste management plan periodically** to assess the impact of regulatory changes, new permits, population changes and waste generation trends and update their plan as needed;
- **Provide opportunities for cities, towns, the public and other affected parties within the county or region to have input in the plan revisions; and**
- **Consult the most recent copy of the “South Carolina Solid Waste Management Annual Report”** for updated solid waste data.

State Planning Responsibilities

Beyond the State Plan, DHEC has additional responsibilities including:

- **Determining consistency with state and local or regional solid waste management plans;**
- **Determining consistency with local zoning and other local land-use ordinances;** and
- **Approving Demonstration of Need (DON) for certain solid waste management facilities.**

CONSISTENCY DETERMINATIONS

Before a solid waste management facility can be permitted, it must be determined to be consistent with the State Plan, the local county or regional solid waste management plan as well as local zoning and land-use requirements.

Although a county or region is responsible for developing the local solid waste management plan, zoning ordinances and/or other land-use ordinances, DHEC is responsible for making an independent consistency determination.

Non-commercial Facilities

In South Carolina, a facility is defined as “non-commercial” if it manages only the solid waste generated in the course of normal operations on property under the same ownership or control as the facility itself (i.e., “on site”). Non-commercial facilities are not required to demonstrate need.

DHEC looks at many factors when reviewing the county/regional plan and making its consistency decision. Chiefly, DHEC considers the amount of waste that the county or region is projected to generate during the 20-year planning period and reviews the county or region’s proposed means of managing that waste through a combination of transfer, disposal, incineration and/or recycling.

DEMONSTRATION OF NEED (DON)

DON refers to the criteria established for the geographical placement and allowable annual disposal rate of new and expanding solid waste management facilities. The original DON regulation was put into effect in June 2000. On June 26, 2009, a revision to Regulation 61-107.17 SWM: Demonstration-of-Need became effective.

The DON regulation addresses commercial Class 3 landfills, commercial Class 2 landfills, commercial solid waste incinerators that incinerate waste other than wood waste or yard trimmings and commercial solid waste processing facilities that process waste destined for disposal at Class 3 landfills. The DON regulation stipulates that where there are at least two commercial solid waste management facilities of the same type within a specified planning area, no new facility is allowed.

CLASS 2 LANDFILLS

Class 2 landfills accept land-clearing debris, certain construction and demolition debris, certain household furniture and under certain conditions, animal carcasses. Class 2 landfills have a 20-mile

TABLE 11.1: DON Requirements for New Solid Waste Management (SWM) Facilities

COMMERCIAL SWM FACILITY	PLANNING AREA AROUND FACILITY	NUMBER OF FACILITIES ALLOWED WITHIN PLANNING AREA	THROUGHPUT/ANNUAL TONNAGE CALCULATION FOR NEW FACILITIES
Class 2 Landfills	20 miles	2	100 percent of host county tonnage plus 30 percent of generation from other counties in planning area
Class 3 Landfills	75 miles	2	Total of 100 percent of host county tonnage and 50 percent of tonnage of counties in planning area without a Class 3 landfill; cannot exceed 30 percent of total state generation
Solid Waste Incinerators	75 miles	2	Based on the manufacturer’s design of the incinerator not to exceed 600 tons per day
Solid Waste Processing Facilities	75 miles	2	Total of 100 percent of host county tonnage and 50 percent of tonnage of other counties in planning area

planning radius. (See Pages 110-111 for a map detailing Class 2 landfill locations and planning radii.)

DHEC calculates allowable annual disposal at new Class 2 landfills using:

- **100 percent of the host county generation;** and
- **30 percent of the generation in other counties within the planning area.**

Tonnage increases for existing Class 2 facilities are allowed only if the facility is operating within 20 percent of its permitted amount, (i.e., the amount of waste disposed per year is 80 percent or more of the annual permitted capacity).

If a Class 2 landfill qualifies for an increase, it can receive the lesser of the amount that disposal in the planning area has increased since the facility last received a permitted increase or 50,000 tons.

Class 2 landfills operating on the effective date of the regulation are allowed variances from certain DON requirements with respect to replacement facilities, tonnage increases and expansions.

See Table 11.2 for Class 2 waste generated for disposal by county for use in DON.

CLASS 3 LANDFILLS

Class 3 landfills accept municipal solid waste (MSW), industrial solid waste, sewage sludge, non-hazardous MSW incinerator ash and other non-hazardous waste. For new commercial Class 3 landfills, allowable tonnage is calculated using:

- **100 percent of the host county generation;** and
- **50 percent of the waste generated in other counties within the planning area.** (None is counted from other counties that have an existing Class 3 landfill.)

Class 3 landfills have a 75-mile planning radius. (See Pages 112 and 113 for a map detailing Class 3 landfill locations and planning radii.)

The yearly disposal rate at an existing landfill is allowed to increase only if the facility is within 20 percent of its permitted disposal rate (i.e., the amount of waste disposed of per year is 80 percent or more of the annual permitted capacity). If a Class 3 landfill qualifies for an increase, it can receive the lesser of the amount that disposal in South Carolina has increased since the facility last received a permitted increase or 150,000 tons.

In addition, the allowable yearly disposal rate at any Class 3 landfill cannot exceed 30 percent of the total solid waste generated in South Carolina that is destined for disposal in Class 3 landfills. Class 3 landfills operating on the effective date of the regulation are allowed variances from certain DON requirements. See Table 11.3 for Class 3 waste generated for disposal by county for use in DON.

SOLID WASTE INCINERATORS

The yearly throughput for a solid waste incinerator is based on the manufacturer's design of the incinerator, but it cannot exceed 600 tons per day. The DON regulation does not apply to air curtain incinerators that receive only wood waste and yard trimmings. The planning area for a solid waste incinerator is 75 miles. There are no permitted MSW incinerators in the state.

SOLID WASTE PROCESSING FACILITIES

The maximum allowable yearly throughput of a solid waste processing facility that processes waste destined for disposal at a Class 3 landfill is equal to:

- **100 percent of the solid waste destined for disposal that is generated in the host county;** and
- **50 percent of the waste generated in each county other than the host county,** that falls wholly or partially within the 75-mile planning radius.

See Pages 114-115 for a map detailing Class 3 Solid Waste Processing Facility locations and planning radii.

TABLE 11.2: Class 2 Waste Generated for Disposal in Tons for Use in Demonstration of Need

COUNTY	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Abbeville	1,191	13,510	4,550	6,597	3,256	2,554	8,180	7,049	5,527	6,719	7,091	5,892	6,495
Aiken	88,655	88,717	79,529	90,100	102,927	22,443	81,575	78,348	76,801	81,383	89,518	99,419	93,335
Allendale	3,534	1,578	3,128	2,354	2,171	1,509	1,586	10,482	3,440	3,081	4,060	3,631	9,429
Anderson	52,417	37,316	35,817	51,311	70,823	63,670	48,079	45,256	64,807	72,508	67,203	72,422	56,114
Bamberg	5,788	4,883	4,811	6,175	6,381	126	18,871	5,357	13,693	5,609	5,730	5,446	7,339
Barnwell	12,749	8,329	10,411	10,921	10,700	11,686	11,868	9,481	6,604	7,539	7,588	9,934	8,407
Beaufort	102,287	121,464	139,916	141,752	130,391	86,288	67,541	60,050	61,081	65,464	68,058	61,195	53,698
Berkeley	58,137	66,023	73,228	101,411	98,516	121,267	54,266	33,890	34,347	51,025	42,724	46,897	61,378
Calhoun	4,067	4,139	3,554	4,474	3,176	3,057	3,501	3,932	3,109	2,369	3,288	2,818	2,047
Charleston	189,168	296,129	281,444	333,332	341,113	440,913	239,234	208,667	157,689	149,081	207,029	216,115	260,770
Cherokee	8,586	10,658	21,604	16,240	9,818	10,402	10,613	15,509	23,385	23,853	15,844	14,412	18,518
Chester	27,897	21,894	4,373	73,343	4,517	251,972	20,566	21,426	30,200	18,907	19,477	10,118	14,859
Chesterfield	15,192	12,805	16,194	14,738	12,181	0	11,855	11,946	11,373	15,453	24,320	16,920	12,180
Clarendon	4,605	5,500	9,296	8,951	10,288	7,352	10,194	9,491	10,086	10,086	9,800	9,764**	10,588
Colleton	13,295	13,157	13,823	17,439	20,900	23,668	19,522	21,577	16,966	15,501	17,066	19,598	13,344
Darlington	19,662	12,614	17,358	16,264	16,755	11,721	16,100	23,934	24,681	20,946	19,088	21,349	16,191
Dillon	10,096	11,412	40,344	8,352	10,549	11,233	11,310	8,342	10,263	9,817	7,729	9,105	12,151
Dorchester	10,044	0	63,910	77,295	82,099	94,641	57,612	24,130	33,078	36,249	38,540	31,931	44,030
Edgefield	3,972	3,442	3,244	13,116	12,479	6,119	9,644	5,145	2,919	6,015	8,693	3,671	7,561
Fairfield	311	126	209	399	284	780	343	859	1,510	614	1,103	1,801	605
Florence	68,534	93,715	34,114	27,002	54,069	323,917	96,557	121,928	70,964	70,274	94,574	108,384	129,379
Georgetown	22,114	33,680	30,087	51,581	34,270	49,886	27,765	26,558	22,886	17,431	24,573	11,082	5,512
Greenville	148,152	87,157	142,780	163,834	161,738	210,924	168,463	145,991	185,015	165,827	193,009	184,304	206,475

COUNTY	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Greenwood	12,283	8,908	14,696	20,174	26,714	21,063	28,908	13,838	29,587	9,221	8,843	22,847	21,212
Hampton	3,221	7,444	8,590	7,786	8,993	7,462	10,466	3,001	3,901	2,837	3,408	3,039	13,428
Horry	135,648	170,856	155,676	226,672	332,583	141,007	109,953	82,451	80,687	90,370	90,065	104,537	132,218
Jasper	1,028	812	176	3,681	4,907	5,837	3,137	3,047	3,885	3,500	4,321	4,339	4,486
Kershaw	30,452	33,277	41,925	52,688	42,346	41,652	41,026	95,973	38,343	34,417	41,415	28,500	27,184
Lancaster	34,499	34,009	31,067	26,798	27,344	65,801	29,834	47,791	46,699	57,214	55,438	42,678	27,852
Laurens	17,156	19,634	6,655	11,435	16,860	12,811	7,359	9,990	13,982	18,761	13,154	14,527	11,892
Lee	0	0	0	0	0	0	0	0	152	81	0	0	0
Lexington	263,041	239,924	246,785	237,178	217,465	223,503	153,665	141,975	139,902	130,366	166,322	158,043	161,370*
Marion	10,982	16,493	29,818	62,965	31,299	19,419	18,875	12,642	14,459	7,846	11,712	40,577	35,715
Marlboro	1,034	1,040	845	1,212	2,491	0	10,486	7,810	10,219	7,850	7,366	6,272	6,833
McCormick	820	957	1,335	4,409	1,669	1,009	1,023	1,616	349	572	820	652	1,169
Newberry	632	997	1,098	2,263	1,219	10,577	7,024	7,657	7,430	8,339	8,675	11,557	17,973
Oconee	23,577	29,279	19,867	23,838	26,385	24,337	22,577	20,181	19,753	72	16,109	18,361	22,234
Orangeburg	21,579	24,097	20,915	26,419	27,360	50,573	29,922	24,581	20,653	17,693	17,362	14,479	19,225
Pickens	30,323	23,880	34,754	17,951	20,807	21,867	19,806	15,726	17,229	18,417	15,547	17,166	18,785
Richland	220,088	206,332	216,945	216,246	196,701	198,115	199,056	123,076	217,915	199,102	225,910	266,021	290,518
Saluda	1,116	1,176	1,149	1,960	1,465	1,614	1,601	1,521	416	376	818	1,331	1,558
Spartanburg	39,812	71,553	71,917	71,047	72,161	80,217	65,229	60,479	91,667	94,359	89,547	74,514	92,602
Sumter	51,963	42,747	38,934	55,714	50,625	50,656	4,193	46,213	43,228	44,695	45,311	41,427	43,926
Union	2,928	1,018	1,236	8,421	2	6	3,082	3,790	5,273	7,416	2,595	27	41
Williamsburg	3,818	2,585	2,386	7,220	6,491	3,280	3,860	2,786	4,065	4,594	5,339	3,772	5,338
York	50,718	99,277	98,029	97,493	125,969	113,171	74,202	76,603	81,573	115,906	76,077	82,750	97,743
TOTAL	1,827,171	1,984,543	2,078,522	2,420,551	2,441,257	2,850,105	1,840,529	1,702,095	1,761,791	1,729,760	1,882,260	1,913,863	2,103,707*

NOTE: This data is used for calculating annual tonnage limits as related to R.61-107.17 – effective June 26, 2009. The historical data reported has been adjusted to reflect changes in the DON regulation.

*Rev. April 2016 **This tonnage was updated based on Clarendon County's Class 2 FY14 Landfill Report.

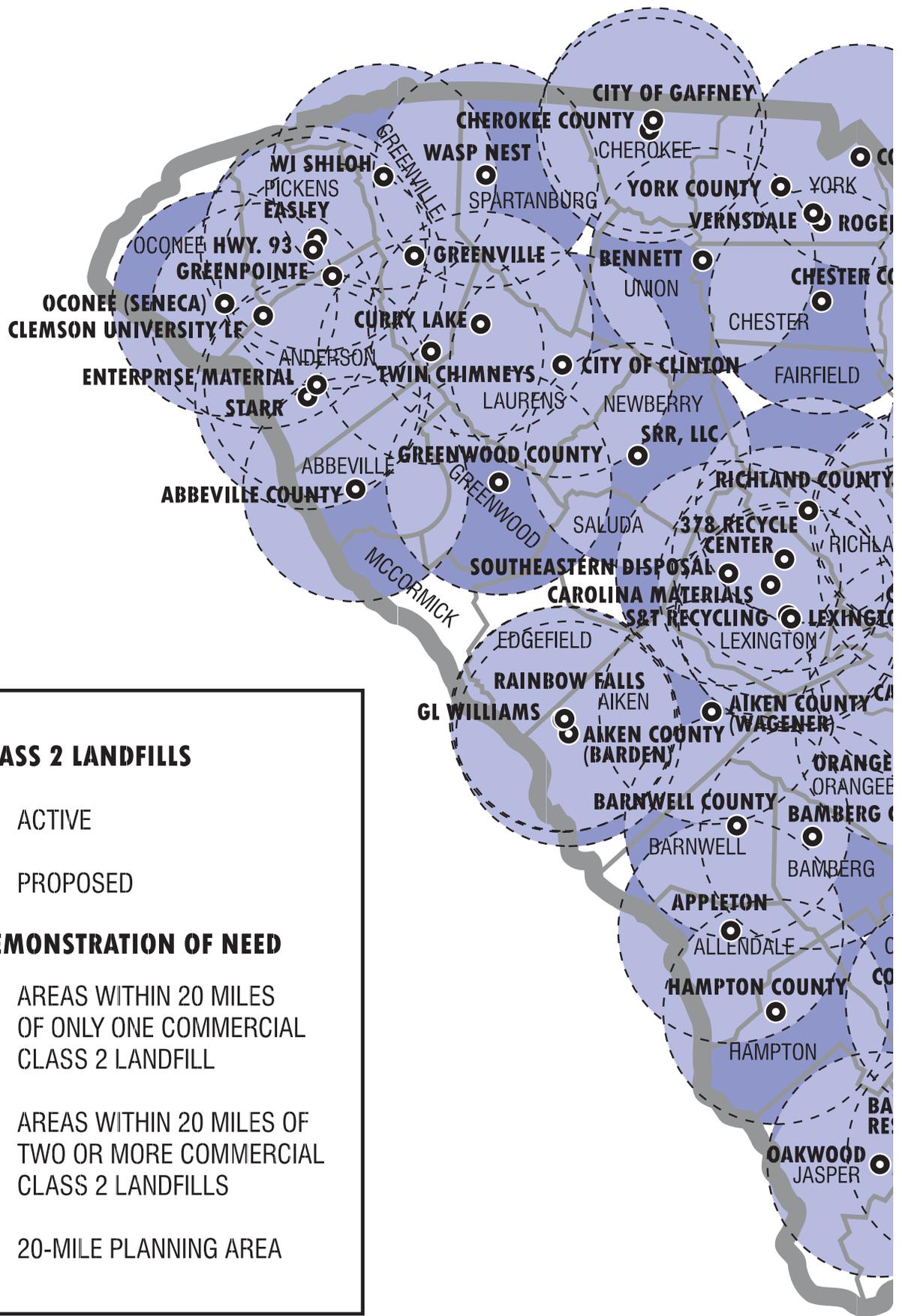
TABLE 11.3: Class 3 Waste Generated for Disposal in Tons for Use in Demonstration of Need

COUNTY	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Abbeville	25,909	18,817	15,836	17,219	17,959	15,611	13,987	13,874	15,844	15,874	17,416	20,811	14,533
Aiken	111,935	149,515	131,285	101,563	125,796	127,491	120,058	114,556	131,596	133,030	110,039	120,724	113,762
Allendale	6,540	5,903	6,990	5,813	10,990	7,932	7,209	6,522	6,268	6,593	5,344	7,833	8,987
Anderson	148,232	148,849	161,610	138,783	130,509	135,794	115,667	130,955	131,034	156,567	110,994	132,288	157,902
Bamberg	13,768	11,652	11,280	11,857	10,665	10,799	10,457	9,461	9,505	9,221	9,610	10,173	9,142
Barnwell	18,247	19,373	20,128	17,683	19,488	17,474	15,705	15,753	14,839	13,870	14,184	14,761	19,413
Beaufort	151,624	167,383	181,849	199,029	177,278	163,868	177,291	148,470	149,520	140,405	141,785	142,490	155,081
Berkeley	309,398	353,891	314,269	379,387	636,603	501,690	339,890	324,793	310,367	329,172	321,016	290,429	281,704
Calhoun	9,659	8,660	12,143	10,615	11,109	11,100	15,331	23,062	19,165	18,299	23,926	14,392	13,970
Charleston	191,932	391,841	285,117	256,089	281,938	270,676	274,636	325,997	497,192	646,461	416,222	415,193	624,004
Cherokee	73,943	71,332	71,145	69,106	88,008	52,137	77,652	85,767	143,803	97,121	86,507	81,073	79,813
Chester	44,435	37,070	37,847	43,496	33,323	63,758	30,115	26,297	23,799	27,785	20,945	24,378	33,673
Chesterfield	24,514	21,941	20,206	17,543	15,168	15,428	13,572	18,335	19,282	18,615	16,002	12,837	24,104
Clarendon	10,932	18,403	8,112	10,671	16,377	16,364	15,514	15,644	14,988	14,271	13,649	12,689	12,658
Colleton	31,938	35,071	38,826	39,014	39,358	44,683	38,032	100,137	35,435	32,485	32,421	32,486	35,471
Darlington	68,953	52,057	51,823	47,333	70,796	88,008	90,953	38,461	37,736	55,183	40,227	69,572	44,173
Dillon	49,694	26,970	34,416	31,492	38,616	35,317	25,246	24,321	20,698	26,619	20,006	29,507	19,797
Dorchester	97,934	163,930	139,405	149,202	121,366	125,826	123,105	98,774	89,423	80,904	81,370	108,820	116,592
Edgefield	14,870	13,969	13,406	13,371	14,473	15,531	15,158	13,119	12,096	14,532	12,431	17,978	18,631
Fairfield	23,076	22,546	21,981	20,721	22,041	21,306	22,927	21,214	20,804	21,438	24,338	103,560	24,248
Florence	151,123	152,909	154,874	149,919	135,663	139,811	165,766	132,582	237,630	143,999	140,552	62,977	135,703
Georgetown	70,531	49,736	50,709	54,719	51,870	42,675	43,011	48,446	58,651	54,806	61,184	74,359	99,517
Greenville	613,417	589,204	673,249	674,574	682,511	602,825	526,402	451,344	433,490	430,666	533,138	432,923	484,572

COUNTY	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Greenwood	91,719	109,407	120,320	117,341	112,858	102,693	84,863	98,963	79,053	82,206	95,435	77,371	88,275
Hampton	22,039	18,188	22,991	17,322	18,609	18,266	12,561	13,179	11,738	11,347	11,664	11,301	10,899
Horry	212,686	227,469	222,935	237,582	246,126	248,988	235,314	228,843	227,395	223,915	225,744	237,932	239,694
Jasper	17,692	27,039	22,100	22,050	32,139	32,966	30,904	18,928	13,508	19,992	19,706	21,405	15,765
Kershaw	45,597	40,162	44,233	43,368	41,904	37,705	37,240	43,691	33,342	45,040	36,894	36,612	43,669
Lancaster	35,088	35,623	31,561	33,842	30,489	34,114	30,054	28,506	30,619	30,151	27,494	27,532	40,664
Laurens	57,940	51,636	73,090	49,210	42,475	39,671	42,978	45,586	48,658	39,205	30,929	33,877	43,838
Lee	14,670	14,981	15,425	14,737	14,941	15,837	14,637	71,965	82,942	97,272	89,214	80,549	90,343
Lexington	221,323	256,226	171,692	193,268	190,583	188,295	171,124	169,820	160,941	184,188	207,563	174,850	188,227
Marion	4,796	21,673	14,380	21,683	26,141	30,454	21,241	18,733	17,015	8,879	16,576	11,645	19,932
Marlboro	15,289	21,815	12,004	13,276	12,332	10,314	12,063	14,913	15,547	14,653	17,082	28,715	15,322
McCormick	11,869	5,183	4,858	4,524	4,505	4,232	4,264	5,120	5,099	4,611	4,215	4,225	4,547
Newberry	47,893	48,591	50,420	49,951	48,603	39,330	40,574	41,072	38,657	37,991	40,422	40,731	45,919
Oconee	45,260	45,533	49,368	53,302	56,408	54,865	49,338	51,269	49,056	50,767	43,655	20,968	76,007
Orangeburg	98,350	92,969	94,382	100,988	89,386	79,245	75,717	70,448	72,983	90,870	114,552	82,593	85,572
Pickens	56,938	59,873	54,966	51,255	58,104	52,715	53,494	52,257	57,259	55,259	51,939	64,786	59,949
Richland	327,966	349,087	341,907	376,435	354,977	353,135	348,475	457,204	376,749	360,689	330,810	317,862	308,418
Saluda	9,197	9,684	14,687	11,870	11,116	11,025	9,680	12,673	22,074	42,534	8,052	8,507	8,707
Spartanburg	418,942	373,060	351,908	381,084	381,750	484,612	412,680	476,809	562,235	452,484	389,482	458,943	463,065
Sumter	119,698	135,220	156,345	163,056	108,801	101,854	94,452	86,824	84,673	78,304	76,653	60,930	101,659
Union	12,835	18,988	28,309	14,178	18,775	19,803	30,702	20,335	20,217	21,802	18,731	16,397	21,197
Williamsburg	26,100	25,582	28,259	39,045	45,506	79,698	52,614	34,282	17,842	9,620	11,176	7,914	7,181
York	147,720	152,150	166,059	161,476	167,139	160,675	172,941	148,718	141,161	143,618	215,786	144,308	220,219
TOTAL	4,324,211	4,671,161	4,548,705	4,630,042	4,865,572	4,726,596	4,315,594	4,398,022	4,601,925	4,593,310	4,337,078	4,202,204	4,726,520*

NOTE: This data is used for calculating annual tonnage limits as related to R.61-107.17 – effective June 26, 2009. The historical data reported has been adjusted to reflect changes in the DON regulation.

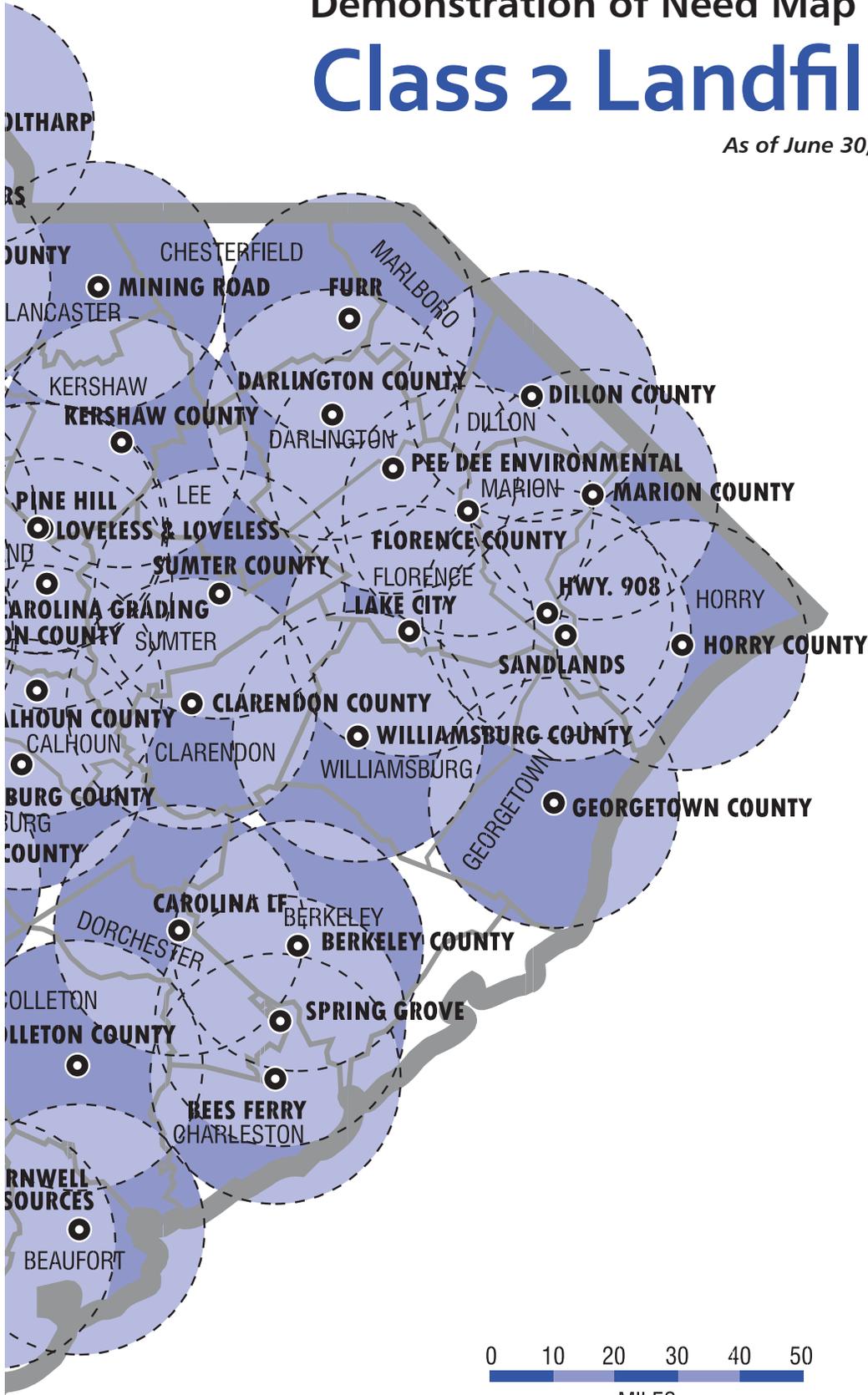
*This amount does not include 128 tons exported to Georgia that is not listed by county.



Demonstration of Need Map

Class 2 Landfills

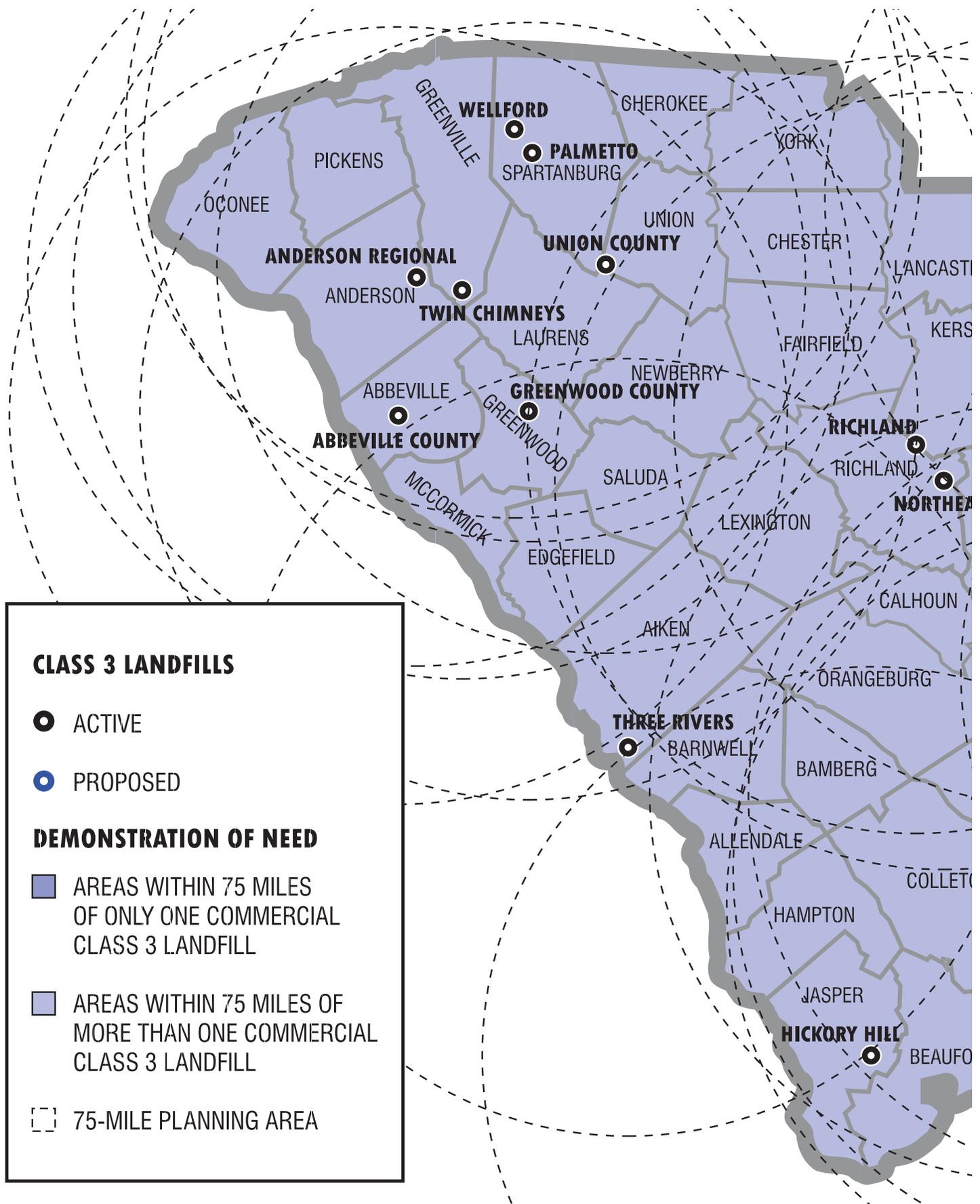
As of June 30, 2015



CLASS 2

- Limits waste streams as specified in Regulation 61-107.19 SWM: Solid Waste Landfills and Structural Fill
- Waste that is characterized as less than 10 times the maximum contaminant level (MCL) and approved by DHEC may be added to the permit for acceptance/disposal
- **Operational Criteria:**
 - Unauthorized waste may be stored at the facility for 30 days; except that putrescible waste must be removed within 72 hours
 - An annual survey to determine landfill capacity used and the remaining permitted capacity may be required on a case-by-case basis
 - Require scales – but exempts scales for facilities permitted for less than 10,000 tons per year and on-site landfills
- **Design Criteria:**
 - Require settlement calculations on the bottom elevation
 - Require DHEC to inspect the landfill prior to waste placement
 - Set cap requirements at 2 feet of soil
 - Establish certain buffers when “Notice of Intent to File a Permit Application” is published
 - Require groundwater monitoring and corrective action
 - Set post-closure (20 years)
 - Require closure and post-closure financial assurance

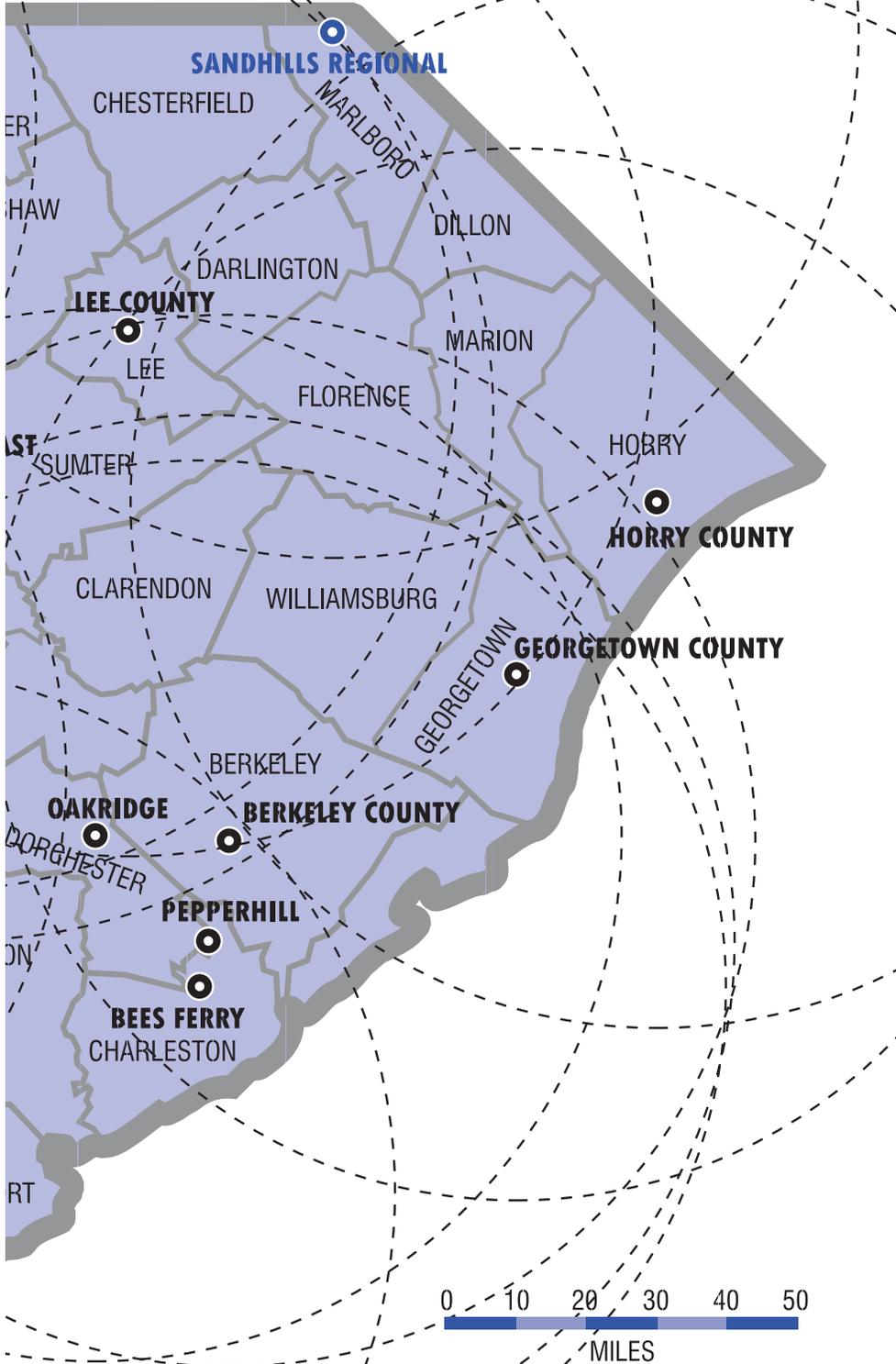
SOURCE: www.scdhec.gov/Agency/docs/lwm-regs/R61-107-19.pdf



Demonstration of Need Map

Class 3 Landfills

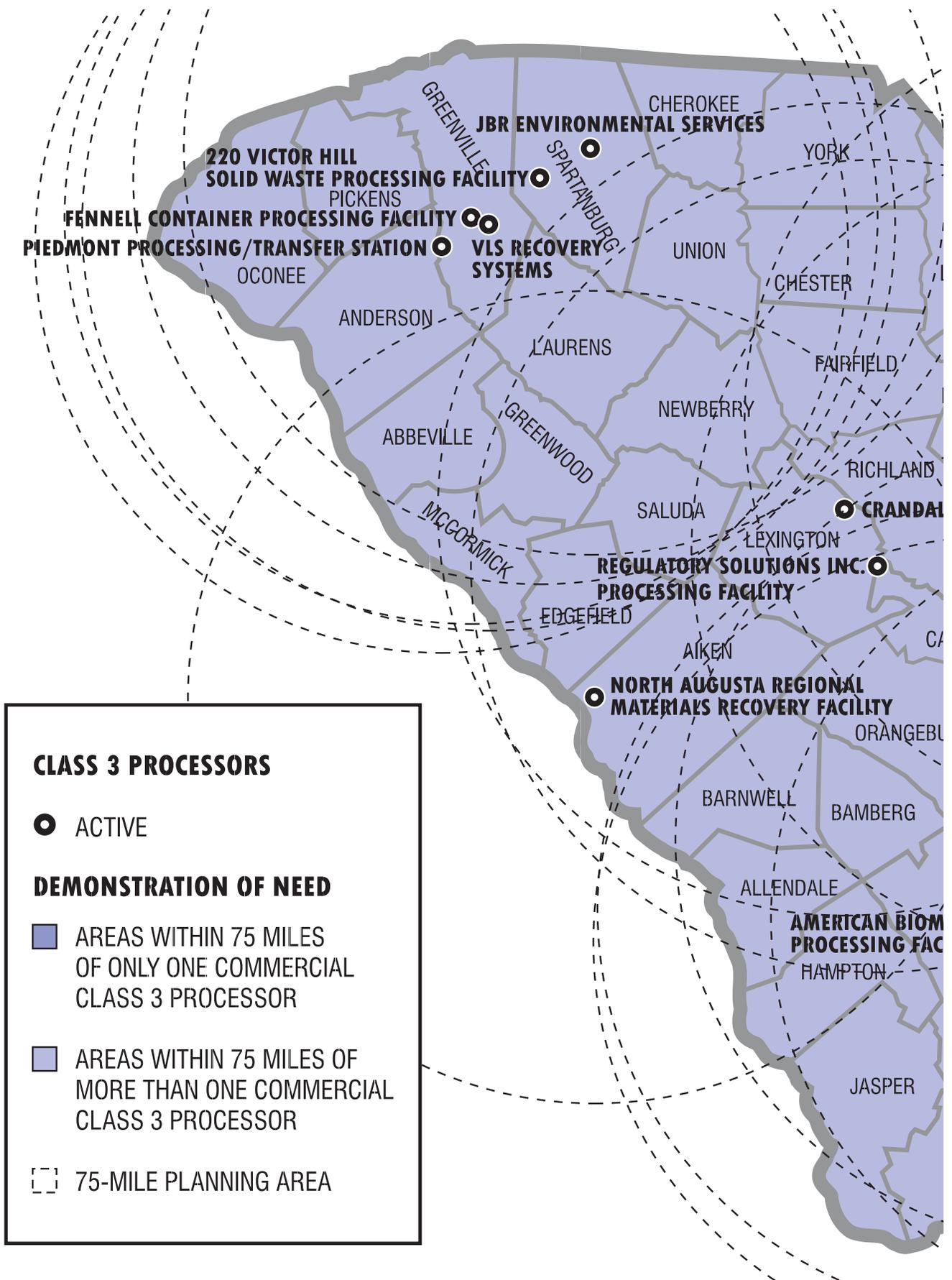
As of June 30, 2015



CLASS 3

- Requires waste characterization through the Special Waste Analysis and Implementation Plan
- Requirement to inspect 10 percent of incoming loads
- Landfills that were permitted as Industrial Solid Waste Landfills prior to the effective date of this regulation are exempt from design criteria provided the waste streams remain below 30 times the MCLs
- Leachate recirculation allowed under permit modification
- Buffers established when "Notice of Intent to File a Permit Application" is published
- Notification required within 72 hours of receipt of hazardous or PCB wastes
- Monofills that accept coal combustion by-products testing less than 10 times MCL can be constructed with a clay liner system
- Slope-stability requirements
- Certification testing of cap to include:
 - One permeability test per acre
 - Four density/thickness tests per acre

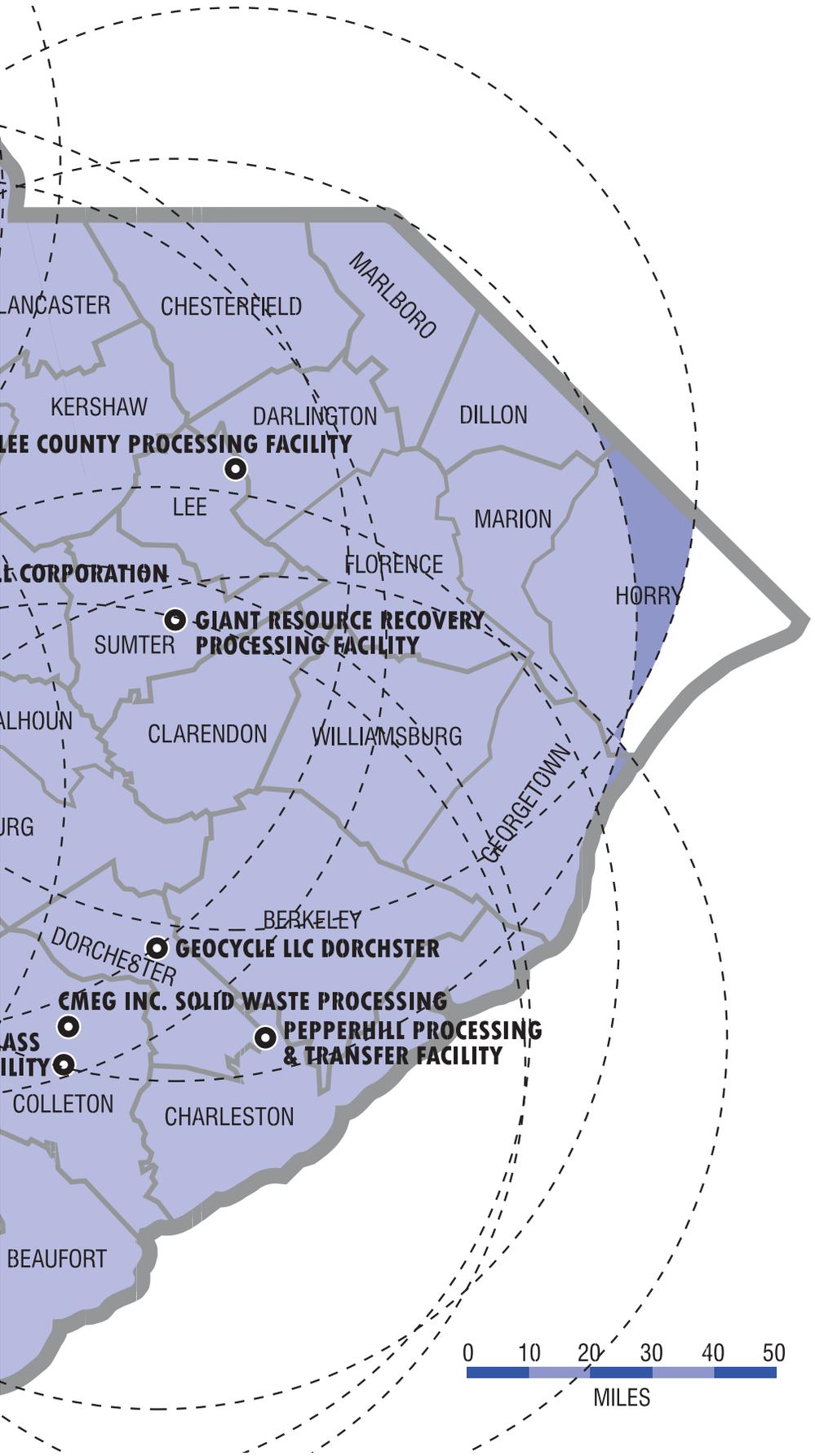
SOURCE: www.scdhec.gov/Agency/docs/lwm-regs/R61-107-19.pdf



Demonstration of Need Map

Class 3 Solid Waste Processing Facilities

As of June 30, 2015





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