



# EECBG Program Grant Proposal

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Reconfiguring County Recycling Container  
Collection to Reduce Transportation  
Greenhouse Gases

Grantee: Greenville County Solid Waste Division

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# 1 Energy Efficiency and Conservation Strategy

## 1.1 Grant Program Background

The Infrastructure Investment and Jobs Act (IIJA), Section 40552 provides \$550 million for the Energy Efficiency and Conservation Block Grant Program (EECBG Program). The United States Department of Energy's (DOE) Office of State and Community Energy Programs (SCEP) will distribute \$430 million in formula and competitive EECBG Program funding to eligible units of local government, states, and Indian tribes.<sup>1</sup>

The EECBG Program is designed to assist states, local governments, and Indian tribes in implementing strategies to reduce energy use, to reduce fossil fuel emissions, and to improve energy efficiency.<sup>2</sup> Local government entity County of Greenville, South Carolina (County) is eligible to receive \$393,510 in grant funding from the EECBG Program.<sup>3</sup> Local government applications for the EECBG Program are due by April 30, 2024. The Greenville County Solid Waste Division submitted the EECBG Program Pre-Award Information Sheet by the July 31, 2023 deadline, stating its intent and becoming eligible to apply for the EECBG Program grant funding.

## 1.2 Energy Efficiency and Conservation Strategy Selection

The County does not have an existing, published goal but is selecting the following goal as part of its strategy:

- Carbon neutrality by 2050 or sooner

To accomplish this, the Greenville County Solid Waste Division would use the EECBG Program grant funds to purchase new containers and compactor units for installation and use in its recycling collection services. The purpose of this project would be to increase the County's capacity to collect recyclable materials and decrease the frequency of hauling trips. This project would reduce fossil fuel emissions associated with the transportation of these containers by reducing the number of hauling trips. This would result in a reduction of 164 metric tons of carbon dioxide equivalent (MTCO<sub>2e</sub>) per year.

The following sections include detailed information on the County's Energy Efficiency and Conservation Strategy in compliance with 42 U.S.C. 17155(b). This proposed strategy contains a description of the County's goals for increased energy efficiency and conservation in the County, and the County's plan for the use of the grant to assist the County in achieving these goals.

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<sup>1</sup> [Energy Efficiency and Conservation Block Grant Program | Department of Energy](#)

<sup>2</sup> [EECBG Program Formula Grant Application Hub | Department of Energy](#)

<sup>3</sup> [IIJA \(40552\) EECBG Program Attachment 1a. Local Govt. Allocations FINAL.pdf \(energy.gov\)](#)



## 2 Current County Recycling System

### 2.1 County Recycling Collection Sites and Centers

The Greenville County Solid Waste Division provides recycling collection services to the residents of unincorporated areas of the County where curbside recycling collection services are not offered. Unstaffed recycling roll-off containers are available for public use 24 hours a day, seven days a week and located throughout the County, mostly stationed in parking lots of retail facilities, schools, and churches. There are eight sites for these parking lot containers and each site has anywhere from two to six recycling containers. The County also operates seven staffed Residential Waste and Recycling Centers (RW&RC) that provide identical recycling roll-off containers. Each RW&RC maintains anywhere from two to five recycling containers and can be accessed by residents during open hours of operation (7:00 a.m. - 6:00 p.m. Tuesday – Saturday). The parking lot containers and RW&RC sites are available for use by all approximately 211,000 households in the County. These containers are collected by the County and hauled to the Pratt Industries Materials Recovery Facility (MRF), located at 255 Morley Ct in Duncan, SC, for further processing.

The current recycling containers only provide for a dual-stream collection system. In other words, each 30-cubic yard container is dual-sided with space allotted for fiber collection (i.e., 60 percent of the container’s volumetric capacity is reserved for the collection of cardboard and paper), and a separate space allotted for commingle collection (i.e., 40 percent of the container’s volumetric capacity is reserved for the collection of plastic bottles and jugs and aluminum and steel cans).

County-led audits conducted in 2023 found that when the dual-stream containers were pulled, while the fiber side of the system was at 100 percent capacity, the commingle side was only at 35-percent to 50-percent full. Therefore, it was determined these recycling containers were being transported to the MRF for processing at approximately 25 percent below total capacity.

### 2.2 Greater Greenville Sanitation Recycling Program Changes

In March 2023, Greater Greenville Sanitation District (GGSD) ended curbside collection of recyclables from County homeowners due to the increasing costs associated with the purchase and maintenance of equipment, fuel and personnel.<sup>4</sup> Since this decision, the County has seen up to an approximate 40 percent increase in the use of the Greenville County Solid Waste Division’s parking lot and RW&RC recycling containers by County residents. This is shown in Table 2-1 below by comparing the County’s monthly recycling collection tonnage totals at some of its drop-off sites pre- and post- GGSD service reduction.

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<sup>4</sup> [RECYCLING INFORMATION – Greater Greenville Sanitation \(ggsc.gov\)](https://www.ggsc.gov)



**Table 2-1. GGSD Service Reduction Impact on County Recycling Tonnage**

<b>Recycling Container Site</b>	<b>Feb 23*</b> <b>Tons</b>	<b>May 23</b> <b>Tons</b>
Bi-Lo	46.54	66.35
Blackberry Valley RW&RC	7.76	9.99
Conestee Park	9.74	15.4
Trailblazer Park	17.03	25.3
Piedmont RW&RC	4.92	5.8
<b>TOTAL</b>	<b>85.99</b>	<b>122.84</b>
<b>% Increase</b>		<b>43%</b>

*\*GGSD ended curbside collection of recyclables in March 2023*

## 2.3 Pilot Study

Based on the 2023 waste audit results and anticipated increase in usage due to GGSD ending curbside collection, the County began a pilot study of a revised recycling collection system at the Simpsonville RW&RC on March 1, 2023. As part of the initial phases of this pilot study, the County replaced four of its dual-stream recycling containers with three all-fiber containers and one all-commingle container.

Prior to the start of the pilot, the County was transporting 16 containers per week from the Simpsonville RW&RC. After replacing those containers with the new reconfigured single-stream (SS) containers, the County transported only 13 containers per week, saving on three container trips weekly. As time has gone on, the County has consistently maintained this reduction since pilot implementation. Therefore, the implemented container system changes at this site resulted in an annual reduction of roughly 156 trips.

Based on the success at the Simpsonville RW&RC, the County expanded its pilot program to include installation of a leased 40-cubic yard compactor compatible unit for fiber collection at the O’Neal RW&RC. A compactor compatible fiber container is able to increase fiber capacity by compacting it to a 3:1 ratio. By reducing the fiber volume by roughly 67-percent, this significantly reduces the number of fiber container trips needed on a weekly basis.

# 3 Proposed Use of Grant Funding

If awarded, the EECBG Program grant funding would be utilized to continue and expand this pilot program through the purchase of single-stream recycling containers (fiber only and commingle only) for use in the parking lot collection areas and the RW&RC, partially replacing existing and inefficient dual-stream containers. The funding would also be utilized to buy fiber compactor units for use at select RW&RC sites to increase the efficiency of fiber collection and hauling. The grant funding would also be used for the associated concrete pad and electrical installation costs for each proposed compactor unit.

## 3.1 Parking Lot Containers

The following descriptions are to detail the single-stream recycling container reconfigurations at the parking lot collection areas.



### 3.1.1 Pre-Pilot Number of Trips

The dual-stream containers at the parking lot locations in Table 3-1 currently result in a total of 67 trips per week, or 3,484 total trips per year.

**Table 3-1. Pre-Pilot Number of Trips at Parking Lots**

Site ID #	Parking Lot Container Site	Number of Trips per Week	Number of Trips per Year
1	Bi-Lo E. North	27	1,404
2	Blue Ridge High School	4	208
3	Conestee Park	6	312
4	Fountain Inn Elementary School	4	208
5	Trailblazer Park	10	520
6	Simpsonville Woodside Park	16	832
<b>TOTAL</b>		<b>67</b>	<b>3,484</b>

### 3.1.2 Proposed Reconfigurations

The following table indicates the proposed single-stream (SS) container reconfiguration at each of the parking lot collection locations. None of the parking lot sites would receive fiber compactor units as these sites are unstaffed by trained operators and the County wants to maintain public safety. As indicated in Table 3-2, the EECBG Program grant funding would be used to purchase 11 single-stream fiber containers and seven (7) single-stream commingle containers.

**Table 3-2. Proposed Parking Lot Container Reconfigurations**

Site ID #	Parking Lot Container Site	# of SS Fiber Containers	# of SS Commingle Containers	Fiber Compactor
1	Bi-Lo E. North	4	2	N/A
2	Blue Ridge High School	1	1	N/A
3	Conestee Park	2	1	N/A
4	Fountain Inn Elementary School	1	1	N/A
5	Trailblazer Park	1	1	N/A
6	Simpsonville Woodside Park	2	1	N/A
<b>TOTAL</b>		<b>11</b>	<b>7</b>	<b>N/A</b>

### 3.1.3 Summary of Trip Reductions

The reconfigured parking lots to include separate single-stream containers purchased through grant funding are anticipated to result in 47 total trips per week, or 2,444 total trips per year (see Table 3-3). A copy of the proposed hauling schedule to accommodate the reconfigurations is provided in Appendix A.





**Table 3-3. Revised Number of Trips for Parking Lot Containers**

Site ID #	Parking Lot Container Site	# of Trips per Week	# of Trips per Year
1	Bi-Lo E. North	21	1,092
2	Blue Ridge High School*	1	52
3	Conestee Park	7	364
4	Fountain Inn Elementary School	3	156
5	Trailblazer Park	9	468
6	Simpsonville Woodside Park	6	312
<b>TOTAL</b>		<b>47</b>	<b>2,444</b>

\*Each container would be picked up every alternating week at Blue Ridge High School.

This equates to a savings of 20 total trips per week, or 1,040 total trips per year (see Table 3-4).

**Table 3-4. Parking Lot Container Trip Savings**

Site ID #	Parking Lot Container Site	Weekly Trip Savings	Yearly Trip Savings
1	Bi-Lo E. North	6	312
2	Blue Ridge High School*	3	156
3	Conestee Park**	(1)	(52)
4	Fountain Inn Elementary School	1	52
5	Trailblazer Park	1	52
6	Simpsonville Woodside Park	10	520
<b>TOTAL</b>		<b>20</b>	<b>1,040</b>

\*Each container would be picked up every alternating week at Blue Ridge High School.

\*\*Conestee Park parking lot reconfiguration would result in an added trip due to influx of individuals impacted by GGSD ending curbside collection of recyclables.

## 3.2 Residential Waste and Recycling Centers (RW&RC)

The following analysis is for the reconfiguring of single-stream containers and/or addition of fiber compactor units at the select RW&RC.

### 3.2.1 Pre-Pilot Number of Trips

The dual-stream containers at the indicated RW&RC locations in Table 3-5 currently result in 59 total trips per week, or 3,068 total trips per year.

**Table 3-5. Pre-Pilot Number of Trips at RW&RC**

Site ID #	RW&RC Site	# of Trips per Week	# of Trips per Year
7	Enoree	20	1,040
8	O'Neal	9	468
9	Simpsonville	17	884
10	Piedmont	2	104
11	Echo Valley	4	208
12	Blackberry Valley	4	208
13	Twin Chimneys Landfill	3	156
<b>TOTAL</b>		<b>59</b>	<b>3,068</b>



### 3.2.2 Proposed Reconfigurations

The following table indicates the proposed single-stream (SS) container reconfiguration at each of the RW&RC locations. As indicated in Table 3-6, the EECBG Program grant funding would be used to purchase three (3) single-stream fiber containers, eight (8) single-stream commingle containers, and five (5) fiber compactor units (with concrete pad and electrical installations).

**Table 3-6. Proposed RW&RC Reconfigurations**

Site ID #	RW&RC Site	# of SS Fiber Containers	# of SS Commingle Containers	Fiber Compactor
7	Enoree	-	2	2
8	O'Neal	-	1	-
9	Simpsonville	-	1	2
10	Piedmont	1	1	-
11	Echo Valley	1	1	-
12	Blackberry Valley	-	1	1
13	Twin Chimneys Landfill	1	1	-
<b>TOTAL</b>		<b>3</b>	<b>8</b>	<b>5</b>

### 3.2.3 Summary of Trip Reductions

The reconfigured RW&RC to include separate single-stream containers and fiber compactor units purchased through grant funding are anticipated to result in 25 total trips per week, or 1,300 total trips per year (see Table 3-7). A copy of the proposed hauling schedule to accommodate the reconfigurations is provided in Appendix A.

**Table 3-7. Revised Number of Trips for RW&RC**

Site ID #	RW&RC Site	# of Trips per Week	# of Trips per Year
7	Enoree	8	416
8	O'Neal	2	104
9	Simpsonville	6	312
10	Piedmont	2	104
11	Echo Valley	3	156
12	Blackberry Valley	3	156
13	Twin Chimneys Landfill*	1	52
<b>TOTAL</b>		<b>25</b>	<b>1,300</b>

\*Each container would be picked up every alternating week at Twin Chimneys Landfill.

This equates to a savings of 34 total trips per week, or 1,768 total trips per year (see Table 3-8).



**Table 3-8. RW&RC Trip Savings**

Site ID #	RW&RC Site	Weekly Trip Savings	Yearly Trip Savings
7	Enoree	12	624
8	O'Neal	7	364
9	Simpsonville	11	572
10	Piedmont	0	0
11	Echo Valley	1	52
12	Blackberry Valley	1	52
13	Twin Chimneys Landfill*	2	104
<b>TOTAL</b>		<b>34</b>	<b>1,768</b>

\*Each container would be picked up every alternating week at Twin Chimneys Landfill.

### 3.3 Total Trip Savings

As indicated above, the total number of trips saved for the parking lot reconfigurations is anticipated to be 1,040 total trips per year (see Table 3-4) and the total number of trips saved for the RW&RC reconfigurations is anticipated to be 1,768 total trips per year (see Table 3-8).

This equates to a grand total of 2,808 total trips saved on an annual basis (or 54 total trips/week) for the entire pilot.

## 4 Energy Efficiency Goals

### 4.1 Fossil Fuel Emissions Reduction

The reconfiguration of these County recycling sites, and therefore, savings in transportation trips, through the EECBG Program grant funding would aide in the County's efforts to help towards achieving the U.S.'s goal of carbon neutrality by 2050 or sooner.<sup>5</sup>

#### 4.1.1 Mileage Savings

All recycling containers and compactors are transported from each collection site by County truck to the Pratt Industries Materials Recovery Facility (MRF), located at 255 Morley Ct in Duncan, SC, for further processing.

Table 4-1 indicates the number of one way and roundtrip miles from each of the 13 aforementioned collection locations to (and from) the destination MRF.

<sup>5</sup> [FACT SHEET: President Biden Signs Executive Order Catalyzing America's Clean Energy Economy Through Federal Sustainability | The White House](#)



**Table 4-1. Mileage To/From Destination MRF**

Site ID #	Collection Site	One Way Mileage	Roundtrip Mileage
1	Bi-Lo E. North 3715 E. North St., Greenville 29615	15.4	30.8
2	Blue Ridge High School 2151 Fews Chapel Rd., Greer SC 29651	14.7	29.4
3	Conestee Park 840 Mauldin Road, Mauldin, SC 29607	16.8	33.6
4	Fountain Inn Elementary School 608 Fairview St, Fountain Inn, SC 29644	24.3	48.6
5	Trailblazer Park 235 Trailblazer Dr., Travelers Rest, SC 29690	25.5	51.0
6	Simpsonville Woodside Park 110 Woodside Park Dr., Simpsonville 29681	19.6	39.2
7	Enoree RW&RC 1311 Anderson Ridge Rd., Greer 29651	9.8	19.6
8	O'Neal RW&RC 3778 Camp Rd., Greer 29651	13.0	26.0
9	Simpsonville RW&RC 517 Hipps Rd., Simpsonville 29680	23.6	47.2
10	Piedmont RW&RC 200 Owens Rd., Piedmont 29673	28.8	57.6
11	Echo Valley RW&RC 3705 Geer Highway, Marietta 29690	28.0	56.0
12	Blackberry Valley RW&RC 409 Blackberry Valley Rd. Greenville, 29617	24.8	49.6
13	Twin Chimneys Landfill (RW&RC) 11075 Augusta Rd., Honea Path 29654	38.9	77.8

*\*Destination is Pratt Industries MRF located at 255 Morley Ct, Duncan, SC 29334.*

Applying the roundtrip mileage to the number of trips per week for each site, it is estimated the pre-pilot configuration results in trucks traveling approximately 243,454 total miles per year to and from the Pratt Industries MRF (see Table 4-2).

**Table 4-2. Pre-Pilot Annual Mileage**

Site ID #	Collection Site	Pre-Pilot # of Trips/Week	Pre-Pilot # of Miles/Week	Pre-Pilot # of Miles/Year
1	Bi-Lo E. North	27	832	43,243
2	Blue Ridge High School	4	118	6,115
3	Conestee Park	6	202	10,483
4	Fountain Inn Elementary School	4	194	10,109
5	Trailblazer Park	10	510	26,520



Site ID #	Collection Site	Pre-Pilot # of Trips/Week	Pre-Pilot # of Miles/Week	Pre-Pilot # of Miles/Year
6	Simpsonville Woodside Park	16	627	32,614
7	Enoree RW&RC	20	392	20,384
8	O'Neal RW&RC	9	234	12,168
9	Simpsonville RW&RC	17	802	41,725
10	Piedmont RW&RC	2	115	5,990
11	Echo Valley RW&RC	4	224	11,648
12	Blackberry Valley RW&RC	4	198	10,317
13	Twin Chimneys Landfill (RW&RC)	3	233	12,137
<b>TOTAL</b>		<b>126</b>	<b>4,682</b>	<b>243,454</b>

Comparatively, after applying the roundtrip mileage to the revised number of trips per week for each site based on the reconfigured system, it is estimated the reconfiguration would result in trucks only traveling approximately 143,166 total miles per year to and from the Pratt Industries MRF. This equates to approximately 100,287 miles saved on an annual basis (see Table 4-3).

**Table 4-3. Reconfigured Annual Mileage and Savings**

Site ID #	Collection Site	Revised # of Trips/Week	Revised # of Miles/Week	Revised # of Miles/Year	Saved Mileage/Year
1	Bi-Lo E. North	21	647	33,634	9,610
2	Blue Ridge High School*	1	29	1,529	4,586
3	Conestee Park	7	235	12,230	(1,747)
4	Fountain Inn Elementary School	3	146	7,582	2,527
5	Trailblazer Park	9	459	23,868	2,652
6	Simpsonville Woodside Park	6	235	12,230	20,384
7	Enoree RW&RC	8	157	8,154	12,230
8	O'Neal RW&RC	2	52	2,704	9,464
9	Simpsonville RW&RC	6	283	14,726	26,998
10	Piedmont RW&RC	2	115	5,990	-
11	Echo Valley RW&RC	3	168	8,736	2,912
12	Blackberry Valley RW&RC	3	149	7,738	2,579
13	Twin Chimneys Landfill (RW&RC)*	1	78	4,046	8,091
<b>TOTAL</b>		<b>72</b>	<b>2,753</b>	<b>143,166</b>	<b>100,287</b>

\*Each container would be picked up every alternating week at Blue Ridge High School and Twin Chimneys Landfill.

#### 4.1.2 Greenhouse Gas (GHG) Reductions

Based on the pre-pilot system, the number of annual truck miles (243,454 miles) equates to an emissions production rate of approximately 397 total metric tons of carbon dioxide equivalent (MTCO<sub>2e</sub>) per year, or approximately 875,000 total pounds (lb) of carbon dioxide equivalent (CO<sub>2e</sub>) per year.



Comparatively, based on the reconfigured system, the reduced number of annual truck miles (143,166 miles) equates to an emissions production rate of approximately 233 total metric tons of MTCO<sub>2</sub>e per year, or approximately 514,547 total lb of CO<sub>2</sub>e per year.

This equates to a total GHG emissions reduction of approximately 164 MTCO<sub>2</sub>e per year, or approximately 360,431 lb of CO<sub>2</sub>e per year in annual emissions production (see Table 4-4).

**Table 4-4. Summary of GHG Emissions Reductions**

Site ID #	Collection Site	Pre-Pilot Emissions/Year MTCO <sub>2</sub> e	Revised Emissions/Year MTCO <sub>2</sub> e	Reduced Emissions/Year MTCO <sub>2</sub> e
1	Bi-Lo E. North	70.5	54.8	15.7
2	Blue Ridge High School	10.0	2.5	7.5
3	Conestee Park	17.1	19.9	(2.8)
4	Fountain Inn Elementary School	16.5	12.4	4.1
5	Trailblazer Park	43.2	38.9	4.3
6	Simpsonville Woodside Park	53.2	19.9	33.2
7	Enoree RW&RC	33.2	13.3	19.9
8	O'Neal RW&RC	19.8	4.4	15.4
9	Simpsonville RW&RC	68.0	24.0	44.0
10	Piedmont RW&RC	9.8	9.8	0.0
11	Echo Valley RW&RC	19.0	14.2	4.7
12	Blackberry Valley RW&RC	16.8	12.6	4.2
13	Twin Chimneys Landfill (RW&RC)	19.8	6.6	13.2
<b>TOTAL</b>		<b>397.0</b>	<b>233.0</b>	<b>164.0</b>

For comparison, since a typical passenger car emits approximately 4.60 MTCO<sub>2</sub> per year, a savings of 164 MTCO<sub>2</sub> per year equates to taking about 35 passenger cars off the road.

For a full calculation of emissions savings, please refer to Appendix B.

## 4.2 Justice40 Initiative

The EECBG Program is a Justice40-covered program, which indicates that it contributes to the President's goal that 40 percent of the overall benefits of Federal investments in clean energy and climate solutions flow to Disadvantaged Communities that for too long have faced disinvestment and underinvestment.<sup>6</sup>

The following collection sites in Table 4-5 were identified as being located in Disadvantaged Communities through the Energy Justice Dashboard<sup>7</sup> and/or the White House Council of

<sup>6</sup> [Energy Efficiency and Conservation Block Grant \(EECBG\) Program Formula Grant Application Instructions](#)

<sup>7</sup> [Energy Justice Dashboard \(anl.gov\)](#)



Environmental Quality’s Climate and Economic Justice Screening Tool (CEJST)<sup>8</sup>. Refer to Appendix C for maps indicating these sites are located in Disadvantaged Communities.

**Table 4-5. Collection Sites in Disadvantaged Communities**

Site ID #	Collection Site in a Disadvantaged Community	Address	Tract
4	Fountain Inn Elementary School	608 Fairview St, Fountain Inn, SC 29644	45045003101
6	Simpsonville Woodside Park	110 Woodside Park Dr., Simpsonville 29681	45045003005
10	Piedmont RW&RC	200 Owens Rd., Piedmont 29673	45045003301
11	Echo Valley RW&RC	3705 Geer Highway, Marietta 29690	45045004101

The reduced GHG emissions in these areas from trip savings, with the exception of Piedmont RW&RC, will promote create the following positive benefits as identified by the DOE and EECBG Program (see Table 4-6).<sup>6</sup>

**Table 4-6. Benefit of Pilot Program to Identified Disadvantaged Communities**

Site ID #	Collection Site in a Disadvantaged Community	Policy Priority Identified	Benefit Metric and Units
4	Fountain Inn Elementary School	Decrease environmental exposure and burdens for Disadvantaged Communities	Avoided air pollutants (CO2 equivalents, NOx, SO2, and/or PM2.5) in Disadvantaged Communities through 4.10 MTCO2e in annual emissions savings.
6	Simpsonville Woodside Park	Decrease environmental exposure and burdens for Disadvantaged Communities	Avoided air pollutants (CO2 equivalents, NOx, SO2, and/or PM2.5) in Disadvantaged Communities through 33.2 MTCO2e in annual emissions savings.
11	Echo Valley RW&RC	Decrease environmental exposure and burdens for Disadvantaged Communities	Avoided air pollutants (CO2 equivalents, NOx, SO2, and/or PM2.5) in Disadvantaged Communities through 4.70 MTCO2e in annual emissions savings.

While the Piedmont RW&RC location reconfiguration does not generate emissions savings, the placement of new single-stream containers in these areas will promote less contamination through more easily identifiable materials placement for the user (i.e., fiber container versus commingle container) and be more aesthetically pleasing than the older and more worn dual-stream containers currently present.

<sup>8</sup> [Explore the map - Climate & Economic Justice Screening Tool \(geoplatform.gov\)](https://geoplatform.gov)



## 5 Budget

As mentioned previously, local government entity County of Greenville, SC is eligible to receive \$393,510 in grant funding from the EECBG Program.

Table 5-1 indicates the estimated unit cost for each equipment/installation type needed based on received for vendor quotes (refer to Appendix D for copies of these quotes).

**Table 5-1. Estimated Equipment/Installation Unit Costs**

<b>Equipment/Installation Type</b>	<b>Estimated Cost</b>
Fiber Container	\$6,243.00
Commingle Container	\$6,675.00
Fiber Compactor Unit	\$23,739.00
Concrete Pad Installation for Fiber Compactor Unit	\$8,780.00
Electrical Installation for Fiber Compactor Unit	\$3,800.00

Based on the above itemized unit costs and the proposed reconfigurations of the collection sites as well as the purchasing of two (2) extra single-stream (SS) fiber containers and one (1) extra single-stream (SS) commingle container, the total estimated cost for the continuation of this pilot program is estimated to be \$388,283.00. This amount is within the eligible grant amount. Refer to Table 5-2 for the estimated cost of reconfiguration at each collection site.

**Table 5-2. Estimated Pilot Reconfiguration Costs**

<b>Site ID #</b>	<b>Collection Site</b>	<b>Number of SS Fiber Containers</b>	<b>Number of SS Commingle Containers</b>	<b>Fiber Compactor</b>	<b>Estimated Cost \$</b>	
1	Bi-Lo E. North	4	2		\$38,322.00	
2	Blue Ridge High School	1	1		\$12,918.00	
3	Conestee Park	2	1		\$19,161.00	
4	Fountain Inn Elementary School	1	1		\$12,918.00	
5	Trailblazer Park	1	1		\$12,918.00	
6	Simpsonville Woodside Park	2	1		\$19,161.00	
7	Enoree RW&RC		2	2	\$85,988.00	
8	O'Neal RW&RC		1		\$6,675.00	
9	Simpsonville RW&RC		1	2	\$79,313.00	
10	Piedmont RW&RC	1	1		\$12,918.00	
11	Echo Valley RW&RC	1	1		\$12,918.00	
12	Blackberry Valley RW&RC		1	1	\$42,994.00	
13	Twin Chimneys Landfill (RW&RC)	1	1		\$12,918.00	
	Extra	2	1		\$19,161.00	
<b>TOTAL</b>		<b>16</b>	<b>16</b>	<b>5</b>	<b>\$388,283.00</b>	
					<i>Eligible Grant Amount (\$)</i>	<i>\$393,510.00</i>





## 6 Schedule

Local government applications for the EECBG Program are due by April 30, 2024.

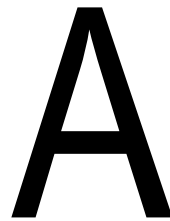
## 7 Grant Reporting

The County will coordinate and share information with the State of South Carolina regarding all activities carried out using the grant funds. The County will provide an annual report to the State describing the status of development and implementation of the project, and, as practicable, as assessment of energy efficiency gains within the County.

The County commits to satisfying any additional reporting requirements as identified on the Financial Assistance Reporting Checklist (FARC), DOE EERE 335, that would be attached to the award agreement.



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Appendix A – Proposed  
Hauling Schedule



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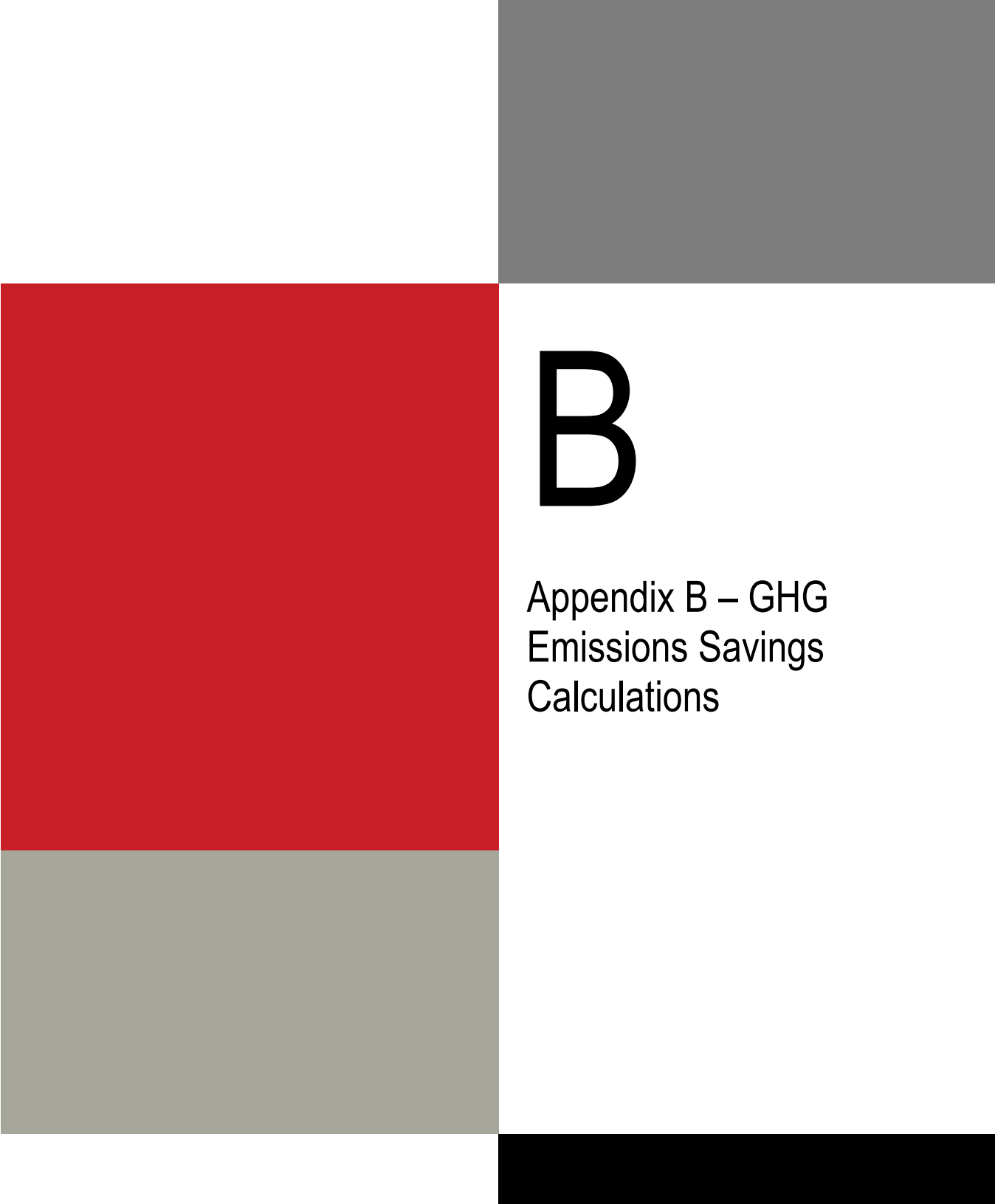
# APPENDIX A

		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	No. of Pulls Per Week
1	Bi-Lo E. North	Fiber: 3 Com: 2	Fiber: 2	Fiber: 3 Com: 2	Fiber: 1	Fiber: 2 Com: 1	Fiber: 4 Com: 1	21
2	Blue Ridge High School						Fiber: 1 (EOW: A) Com: 1 (EOW B)	1
3	Conestee Park	Fiber: 2 Com: 1			Fiber: 2	Com: 1	Fiber: 1	7
4	Fountain Inn Elementary School	Fiber: 1 Com: 1				Fiber: 1		3
5	Trailblazer Park	Fiber: 2 Com: 1		Fiber: 2	Com: 1	Fiber: 1	Fiber: 2	9
6	Simpsonville Woodside Park	Fiber: 2 Com: 1				Fiber: 2 Com: 1		6
7	Enoree Residential Waste and Recycling Center		Fiber: 2 Com: 2			Fiber: 2 Com: 2		8
8	O'Neal Residential Waste and Recycling Center		Com: 1			Com: 1		2
9	Simpsonville Residential Waste and Recycling Center		Fiber: 1 Com: 1		Fiber: 1 Com: 1		Fiber: 1 Com: 1	6
10	Piedmont Residential Waste and Recycling Center		Fiber: 1 Com: 1					2
11	Echo Valley Residential Waste and Recycling Center	Com: 1		Fiber: 1			Fiber: 1	3
12	Blackberry Residential Waste and Recycling Center	Com: 1	Fiber: 1			Com: 1		3
13	Twin Chimneys Landfill		Fiber: 1 (EOW A) Com: 1 (EOW B)					1

EOW = Every Other Week

\*Visit Twin Chimneys and Blue Ridge HS each once a week but only take one box per week, alternate between commingle and fiber\*

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# B

## Appendix B – GHG Emissions Savings Calculations



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# APPENDIX B

Heavy-Duty, Diesel, 2007-2020

CH4 Factor (g/mile) 0.0095  
 N2O Factor (g/mile) 0.0431  
 CO2 EF (g/mile) 1619

## CURRENT

Hauling												
Location	Miles/Year	CH4			N2O			CO2			MTCO2e/year(total)	lbs CO2e/year
		EF (g/mile)	g/year	MTCO2e/year	EF (g/mile)	g/year	MTCO2e/year	EF (g/mile)	g/year	MTCO2e/year		
1	43,243	0.0095	410.8085	0.01150	0.0431	1863.7733	0.493899925	1619	70010417	70.010417	70.51582	155416.87
2	6,115	0.0095	58.0925	0.00163	0.0431	263.5565	0.069842473	1619	9900185	9.900185	9.97165	21977.53
3	10,483	0.0095	99.5885	0.00279	0.0431	451.8173	0.119731585	1619	16971977	16.971977	17.09450	37676.27
4	10,109	0.0095	96.0355	0.00269	0.0431	435.6979	0.115459944	1619	16366471	16.366471	16.48462	36332.10
5	26,520	0.0095	251.94	0.00705	0.0431	1143.012	0.30289818	1619	42935880	42.93588	43.24583	95313.81
6	32,614	0.0095	309.833	0.00868	0.0431	1405.6634	0.372500801	1619	52802066	52.802066	53.18324	117215.87
7	20,384	0.0095	193.648	0.00542	0.0431	878.5504	0.232815856	1619	33001696	33.001696	33.23993	73260.81
8	12,168	0.0095	115.596	0.00324	0.0431	524.4408	0.138976812	1619	19699992	19.699992	19.84221	43732.22
9	41,725	0.0095	396.3875	0.01110	0.0431	1798.3475	0.476562088	1619	67552775	67.552775	68.04044	149961.12
10	5,990	0.0095	56.905	0.00159	0.0431	258.169	0.068414785	1619	9697810	9.69781	9.76782	21528.27
11	11,648	0.0095	110.656	0.00310	0.0431	502.0288	0.133037632	1619	18858112	18.858112	18.99425	41863.32
12	10,317	0.0095	98.0115	0.00274	0.0431	444.6627	0.117835616	1619	16703223	16.703223	16.82380	37079.66
13	12,137	0.0095	115.3015	0.00323	0.0431	523.1047	0.138622746	1619	19649803	19.649803	19.79165	43620.81
Total/Year											396.99576	874,978.66

## PROPOSED

Hauling												
Location	Miles/Year	CH4			N2O			CO2			MTCO2e/year(total)	lbs CO2e/year
		EF (g/mile)	g/year	MTCO2e/year	EF (g/mile)	g/year	MTCO2e/year	EF (g/mile)	g/year	MTCO2e/year		
1	33,634	0.0095	319.523	0.00895	0.0431	1449.6254	0.384150731	1619	54453446	54.453446	54.84654	120881.78
2	1,529	0.0095	14.5255	0.00041	0.0431	65.8999	0.017463474	1619	2475451	2.475451	2.49332	5495.28
3	12,230	0.0095	116.185	0.00325	0.0431	527.113	0.139684945	1619	19800370	19.80037	19.94331	43955.05
4	7,582	0.0095	72.029	0.00202	0.0431	326.7842	0.086597813	1619	12275258	12.275258	12.36387	27249.98
5	23,868	0.0095	226.746	0.00635	0.0431	1028.7108	0.272608362	1619	38642292	38.642292	38.92125	85782.43
6	12,230	0.0095	116.185	0.00325	0.0431	527.113	0.139684945	1619	19800370	19.80037	19.94331	43955.05
7	8,154	0.0095	77.463	0.00217	0.0431	351.4374	0.093130911	1619	13201326	13.201326	13.29663	29305.76
8	2,704	0.0095	25.688	0.00072	0.0431	116.5424	0.030883736	1619	4377776	4.377776	4.40938	9718.27
9	14,726	0.0095	139.897	0.00392	0.0431	634.6906	0.168193009	1619	23841394	23.841394	24.01350	52925.76
10	5,990	0.0095	56.905	0.00159	0.0431	258.169	0.068414785	1619	9697810	9.69781	9.76782	21528.27
11	8,736	0.0095	82.992	0.00232	0.0431	376.5216	0.099778224	1619	14143584	14.143584	14.24569	31397.49
12	7,738	0.0095	73.511	0.00206	0.0431	333.5078	0.088379567	1619	12527822	12.527822	12.61826	27810.64
13	4,046	0.0095	38.437	0.00108	0.0431	174.3826	0.046211389	1619	6550474	6.550474	6.59776	14541.47
Total/Year											233.46064	514,547.24

## GHG Reduction

**163.53513 MTCO2e per year**  
**360,431.42 lbs CO2e per year**

Typical car emits 4.6 MTCO2e per year  
 # of cars reduced equiv. 35.6 PCE per year reduced

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Appendix C – Disadvantaged  
Community Maps



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# APPENDIX C

## White House Council of Environmental Quality's Climate and Economic Justice Screening Tool (CEJST)<sup>1</sup>

### #4 - Fountain Inn Elementary School (608 Fairview St, Fountain Inn, SC 29644)

**Climate and Economic Justice Screening Tool**

Explore the map | Methodology & data | About | Contact

## Explore the map

Share data sources with CEJST

Census tracts that are overburdened and underserved are highlighted as being disadvantaged on the map. Federally Recognized Tribes, including Alaska Native Villages, are also considered disadvantaged communities.

Zooming in and selecting shows information about each census tract.

**Get the data** ↓  
Download the data with documentation and shapefile from the [downloads](#) page.

608 Fairview St, Fountain Inn, SC 29644

**Tract information**  
Number: 45045003101  
County: Greenville County  
State: South Carolina  
Population: 8,625

**Tract demographics**  
Race / Ethnicity (Show) | Age (Show)

Identified as disadvantaged?  
**YES**

This tract is considered disadvantaged because it meets 1 burden threshold **AND** the associated socioeconomic threshold.


Send feedback

<sup>1</sup> [Explore the map - Climate & Economic Justice Screening Tool \(geoplatform.gov\)](https://geoplatform.gov)

# APPENDIX C

## White House Council of Environmental Quality's Climate and Economic Justice Screening Tool (CEJST)<sup>1</sup>

### #6 - Simpsonville Woodside Park (110 Woodside Park Dr., Simpsonville, SC 29681)



Climate and Economic Justice Screening Tool

[Explore the map](#) [Methodology & data](#) [About](#) [Contact](#)

## Explore the map

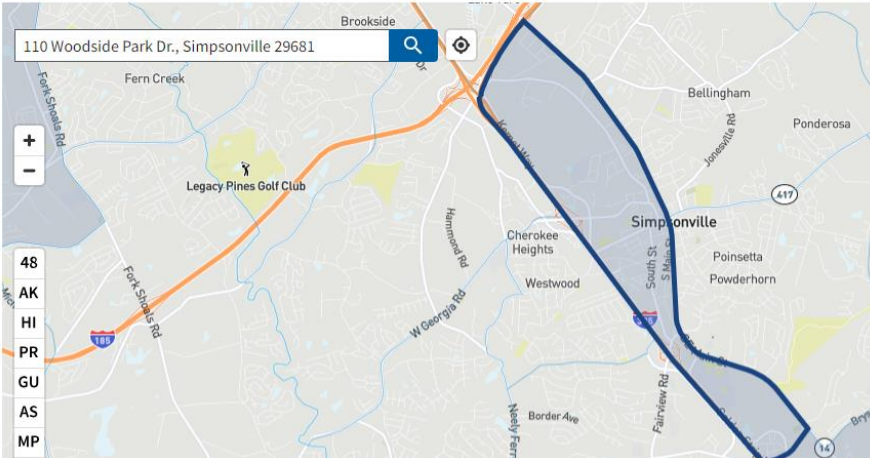
[Share data sources with CEQ](#)

Census tracts that are overburdened and underserved are highlighted as being disadvantaged on the map. Federally Recognized Tribes, including Alaska Native Villages, are also considered disadvantaged communities.

Zooming in and selecting shows information about each census tract.

**Get the data** [↓](#)

Download the data with documentation and shapefile from the [downloads](#) page.



**Tract information**  
Number: 45045003005  
County: Greenville County  
State: South Carolina  
Population: 2,801

**Tract demographics**  
Race / Ethnicity ([Show](#))  
Age ([Show](#))

Identified as disadvantaged?  
**YES**


This tract is considered disadvantaged because it meets 1 burden threshold **AND** the associated socioeconomic threshold.

[Send feedback](#)

# APPENDIX C

## White House Council of Environmental Quality's Climate and Economic Justice Screening Tool (CEJST)<sup>1</sup>

### #10 - Piedmont RW&RC (200 Owens Rd., Piedmont, SC 29673)



Climate and Economic Justice  
Screening Tool


[Explore the map](#) [Methodology & data](#) [About](#) [Contact](#)

## Explore the map

[Share data sources with CEQ](#)

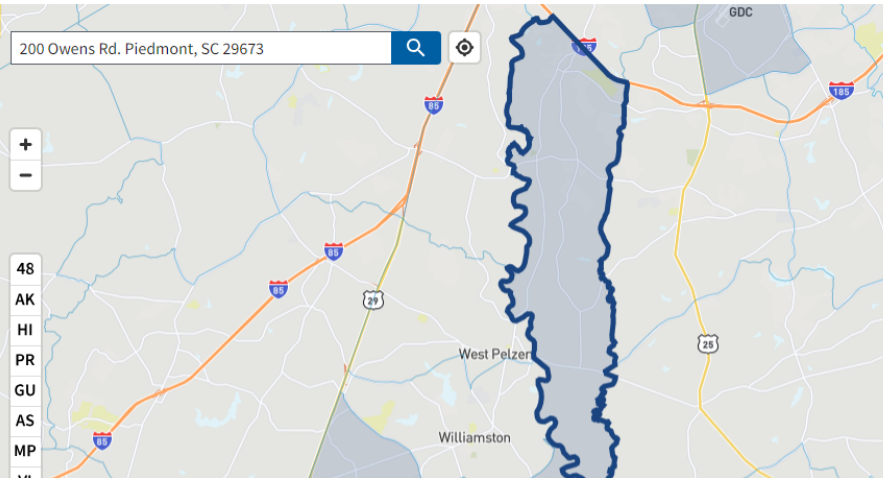
Census tracts that are overburdened and underserved are highlighted as being disadvantaged on the map. Federally Recognized Tribes, including Alaska Native Villages, are also considered disadvantaged communities.

Zooming in and selecting shows information about each census tract.

**Get the data** 

Download the data with documentation and shapefile from the [downloads](#) page.

200 Owens Rd. Piedmont, SC 29673



48  
AK  
HI  
PR  
GU  
AS  
MP

West Pelzer  
Williamston

**Tract information**  
Number: 45045003301  
County: Greenville County  
State: South Carolina  
Population: 7,464

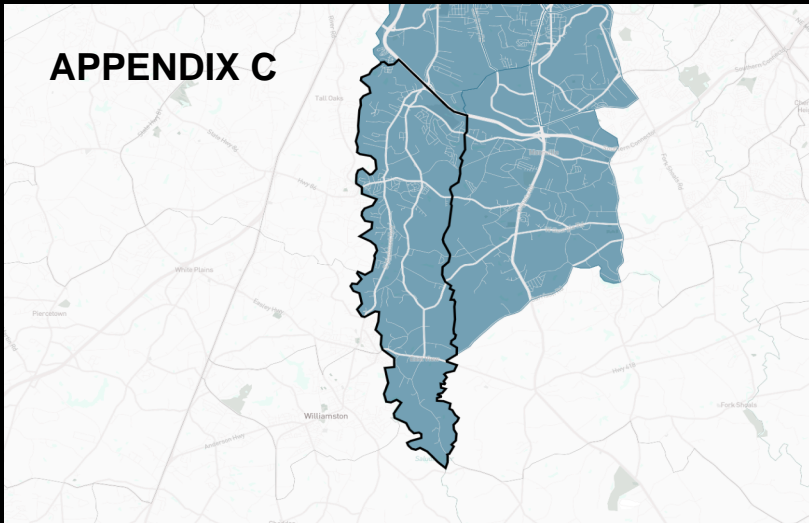
**Tract demographics**  
Race / Ethnicity [\(Show\)](#)  
Age [\(Show\)](#)

Identified as disadvantaged?  
**YES**

This tract is considered disadvantaged because it meets 1 burden threshold **AND** the associated socioeconomic threshold.

[Send feedback](#)

# APPENDIX C



**TRACT**

**45045003301**

- City: Golden Grove
- County: Greenville
- State: SC
- Population: 7,464
- DAC Status: **Disadvantaged**

National Ranking:  
**83%**

State Ranking:  
**86%**

DAC Score:  
**20**


Indicator	National Percentile	Value	Indicator	National Percentile	Value
Mobile Home	93%	23%	Non-grid-connected heating fuel	63%	8%
PM25	91%	10.05	RMP Proximity	60%	0.55
Water Discharge	91%	0.3	Uninsured Renters	57%	8%
Less HS Education	89%	26%	Coal employment	47%	28.47%
Cancer Risk	89%	41.65	NPL Proximity	46%	0.04%
No Vehicle	84%	15%	Diesel	45%	0.36
Disabled population	83%	19%	Linguistic Isolation	45%	1.02%
>30 min commute	82%	54%	Climate Hazards Loss of Life estimates	42%	41.86
Transportation Costs	81%	30%	Population 65 and older	42%	14%
Low Income Population	81%	42%	Parks	41%	0
Incomplete Plumbing	79%	1%	Homelessness	40%	0.07%
Low Income Population	75%	45%	Homes Built Before 1960	38%	15%
No Internet Access	72%	19.47%	Housing Costs	15%	22.3%
Job Access	71%	-2.8	Traffic Proximity	14%	22.28
Single Parent	67%	42%	Unemployed	8%	2%
Energy Burden	65%	4%	Outage Events	0%	0
TSDP Proximity	64%	1.12	Outage Duration	0%	0
Fossil energy employment	64%	0.06%			



# APPENDIX C

## White House Council of Environmental Quality's Climate and Economic Justice Screening Tool (CEJST)<sup>1</sup>

### #11 – Echo Valley RW&RC (3705 Geer Highway, Marietta, SC 29690)



Climate and Economic Justice  
Screening Tool

[Explore the map](#) [Methodology & data](#) [About](#) [Contact](#)

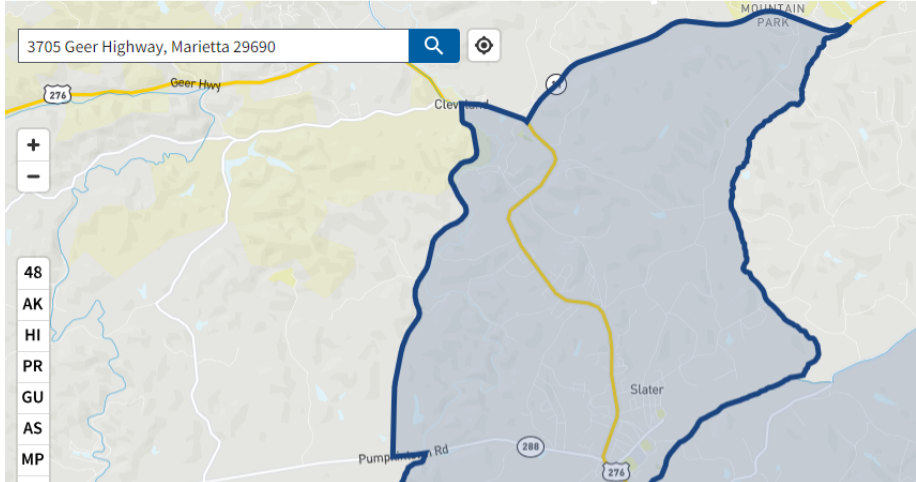
## Explore the map

[Share data sources with CEQ](#)

Census tracts that are overburdened and underserved are highlighted as being disadvantaged on the map. Federally Recognized Tribes, including Alaska Native Villages, are also considered disadvantaged communities.

Zooming in and selecting shows information about each census tract.

**Get the data** ↓  
Download the data with documentation and shapefile from the [downloads](#) page.



**Tract information**  
Number: 45045004101  
County: Greenville County  
State: South Carolina  
Population: 3,803


**Tract demographics**  
Race / Ethnicity ([Show](#))  
Age ([Show](#))

Identified as disadvantaged?  
**YES**

This tract is considered disadvantaged because it meets more than 1 burden threshold **AND** the associated socioeconomic threshold.

[Send feedback](#)

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# D

## Appendix D – Vendor Quotes

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**APPENDIX D**

<< QUOTE >>



Rudco South LLC  
 Send Payments/Invoices to:  
 P.O. Box 675  
 Vineland, NJ 08362-0675  
 (864)-848-4990

PAGE 1

QUOTE DATE 10/12/2023  
 QUOTE NO GREENVILLE CO

S G07207  
 O GREENVILLE COUNTY SOLID WASTE  
 L 11075 AUGUSTA ROAD  
 D HONEA PATH, SC 29654  
 T  
 O

S CUSTOMER PICK UP  
 H 1109 OLD STAGE ROAD  
 I SIMPSONVILLE, SC 29681  
 P  
 T  
 O

Contact ANDREW TALKISH  
 Office  
 Cell  
 Email

(18) 20YD OPEN TOP CONTAINERS -7 STIFFENERS -(18) RECYCLE HIP ROOF WITH PLASTIC SLIDING DOORS (3 PER SIDE - 30" X 30") - (16) 30YD TUB STYLE CONTAINER WITH 4" PITCHED ROOF WITH 2 CARDBOARD SLOTS PER SIDE (PLEASE SEE DRAWING) - PRIMED AND PAINTED ANY STANDARD COLOR -CUSTOMER PICK UP -THERE IS A 25% DEPOSIT REQUIRED FOR ALL CUSTOM BUILT CONTAINER ORDERS -

SLS1	SLS2	DUE DATE	DISC DUE DATE	ORDER NO	ORDER DATE	SHIP NO	TAX PCT
CB				00007420			6

TERMS DESCRIPTION	CUSTOMER PO NO	SHIP VIA	SHIP DATE
N30			

ITEM ID	TX CL	UNITS	ORDERED	SHIPPED	UNIT PRICE	EXTENSION
A-4252-7 20YD OT 7-STIFF 22' DECK 43" SIDE 22' DECK 43" SIDES	1	EA	18.0000	0.0000	4,338.0000	78,084.00
					+	
A-4432 RECYCLE HIP ROOF W/ PLASTIC SLID- ING DOORS (30" X 30")- 3 PER SIDE	1	EA	18.0000	0.0000	2,337.0000	42,066.00
					\$6,675.0000	
A-MISC 30YD TUB STYLE CONTAINER WITH 4" PITCHED ROOF AND 2 - CARDBOARD SLOTS PER SIDE	1	EA	16.0000	0.0000	6,243.0000	99,888.00

TAXABLE	NONTAXABLE	FREIGHT	SALES TAX	MISC	TOTAL
220,038.00	0.00	0.00	13,202.28	0.00	233,240.28
				<b>TOTAL DUE</b>	<b>233,240.28</b>



## Bid Proposal

SC License # M-115682  
NC License # U-29627  
GA License # EN216722

Date: 10/11/2023  
TO: Paul Katalinic  
JOB: O'neil Cardboard Compactor

Price: \$3,800.00

DESCRIPTION: Furnish and Install Electrical Work and as follows:

Included:

- Furnish and Install Electrical Labor and Material to hook up a 50 Amp 3Phase Cardboard Compactor.

Not Included:

- Compactor
- Control Panel for Compactor.
- Cutting or Patching of Concrete or Asphalt.

Qualifications:

- All work installed per NEC. 2020.
- Because of daily fluctuations in the metals market, price is good for 30 calendar days from date of this bid letter.
- Work is bid on a 40-hour workweek. No premium time included.

Sincerely,

Alan Friddle

**APPENDIX D**

PO 23001414

**Becker Complete, LLC**  
2542 Charleston Highway  
West Columbia, SC 29172 US  
+1 8037550075  
office@beckercomplete.com  
https://beckercomplete.com/

**Invoice 2442**

**BILL TO**  
County of Greenville  
County of Greenville  
County of Greenville  
Finance Department County Of US  
Greenville 301 University Rdg  
Ste 200  
Greenville, South Carolina  
29601-3636 US

**SHIP TO**  
O'Neal Convenience Site  
3769 Camp Rd  
Greer, South Carolina 29651

<b>DATE</b> 08/08/2023	<b>PLEASE PAY</b> <b>\$23,739.00</b>	<b>DUE DATE</b> 09/07/2023
---------------------------	---	-------------------------------

<b>SHIP DATE</b> 08/08/2023	<b>SHIP VIA</b> Will Call	<b>SALES REP</b> Tim Becker	<b>PO #</b> 23001414-00
--------------------------------	------------------------------	--------------------------------	----------------------------

DATE		AMOUNT
	<b>USED-01</b> USED-01 - Labor - Used Equipment Install (UOM = hr) - Note: Installation of Marathon RJ250SC, Serial # 51481242 at O'Neal Convenience Site in Greer, SC.	1,850.00T
	<b>RB-SC-DUAL</b> RB-SC-DUAL - Self-Contained Compactor (UOM = ea) Lot#: S2559 SN(s): 51481242; - Note: Rebuilt Marathon RJ250 with 3 sided Hopper, Keyed Controls mounted @ Hopper, 15ft Hydraulic hoses, Container Guides and Stops, Multicycle Timer, Full Light and Hardline to RH Door.	20,650.00T
	<b>FB_SALES_TAX</b> Tax: Total AvaTax	1,239.00

SUBTOTAL	23,739.00
TAX	0.00
TOTAL	23,739.00

TOTAL DUE	<b>\$23,739.00</b>
-----------	--------------------

THANK YOU.

APPENDIX D

Laurens  
984-5224

Clinton  
833-0261

Gray Court  
876-5224

Greenville  
299-3322

Newberry  
276-4594

**Carolina Concrete Co., Inc.**

P.O. Box 389

Clinton, SC 29325

Phone 864-833-0572

Fax 864-833-2398

**BUDGET QUOTATION**

To: Greenville County Solid Waste

Date: 10.13.2023

Attention: Andrew Talkish

Terms: Net 10<sup>th</sup> of following mo.

No retainage held

Job: 409 Blackberry Valley Rd. Greenville, SC 864.243.9672

Demolish and remove existing asphalt (disposed onsite) and construct a 28' x 10' x 6" turndown concrete pad. The concrete pad shall have a 12" #4 rebar reinforced footing. The pad shall have #4 rebar 24" ocev. The concrete shall be: 4000psi, placed on compacted sub-grade, fiber reinforced, 6" in slab depth, and broom finished. Joints shall be sawed as necessary. An area for chute washing will be required.

**\$8,780.00**

*OWNER AGREES TO ALLOW MIXER CHUTES TO BE WASHED OUT ONSITE. Sub-grade is assumed to be adequate for concrete placement. In the event base material should be needed for stabilization, an extra cost will be incurred.*

*Permits, insect treatment, and underground utility location by others.*

***Concrete is a material placed in a plastic state and will shrink causing random cracking. Your job will be placed, sawed, and cured within ACI guidelines, BUT NO WARRANTY IS GIVEN TO GUARANTEE AGAINST RANDOM CRACKING.***

*Quotation is valid for 60 days*

Respectfully Submitted:

Accepted By:

*Mark A. Shubert*

\_\_\_\_\_

Date: 10.13.2023

Date: \_\_\_\_\_

Licensed and Insured

SC General Contracting #G101274 (BD4)

ACI Certified







HDR Engineering, Inc. of the Carolinas  
440 S Church Street, Suite 1200  
Charlotte, NC 28202-2075  
704.338.6700

**[hdrinc.com](http://hdrinc.com)**

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