



Carolina Sunrock, LLC. – Prospect Hill
Quarry and Distribution Center
Environmental Justice Report

North Carolina Department of Environmental Quality
March 15, 2022

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1 Introduction

Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies (US EPA). This evaluation examines the demographic and environmental conditions in Caswell and Person Counties, census tracts 9306 and 9206.01, and the one-mile radius around the property boundary of the proposed Carolina Sunrock, LLC. – Quarry and Distribution Center facility. Finally, the demographics of the entire state of North Carolina are also considered as they compare to both the county and local census tract and radius settings.

An Environmental Justice (EJ) Snapshot was prepared in August 2020, at the beginning of the previous application process. The EJ Snapshot was distributed to interested community members (if known) and published on the DEQ website with the relevant permit application. The purpose of the EJ Snapshot was to encourage comments and suggestions from the surrounding community, industry, and environmental groups throughout the comment period at that time. The public hearing and accompanying comment period was extended three times in 2020 due to COVID-19, community concerns, and inclement weather. Carolina Sunrock LLC did not receive a permit from the Division of Air Quality in 2020, so has reapplied for a similar permit. Public comments will be considered throughout the remainder of the comment period to inform the final version of this EJ Report.

2 Environmental Justice Evaluation

The Department has assessed the permit applications and the potential impact on communities surrounding the sites associated with the requested permit applications. Carolina Sunrock LLC. submitted two separate permit applications for two locations. This EJ Report only includes information regarding the Quarry and Distribution Center Facility. Please review the accompanying EJ Report for information on the Burlington North Facility. Accordingly, the EJ Report will include:

- The permit application submitted by Carolina Sunrock, LLC for the Quarry and Distribution Center
- Facility emissions overview
- Study of area demographics (determined by utilizing the US EPA Environmental Justice tool (EJSCREEN) <https://ejscreen.epa.gov/mapper/> and current, available census data. <https://data.census.gov/cedsci/>)
- Comparison of local area demographics to both county and statewide census data
- County health assessment for all counties
- Sensitive receptors surrounding the facility
- Local industrial sites surrounding the facility (using the NCDEQ Community Mapping System <https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=1eb0fbe2bcfb4cccb3cc212af8a0b8c8>).

Demographics for Caswell and Person counties, as well as the state, will be compared to the local level data (census tracts and project radius) to identify any disparities surrounding the project area. Using standard environmental justice guidelines from the EPA and National

Environmental Policy Act (NEPA) documentation, the following conditions will be flagged as having the potential for environmental justice concerns:

- 10% or more in comparison to the county or state average
- 50% or more minority
- 5% or more in comparison to the county or state average for poverty

3 Proposed Project

Carolina Sunrock, LLC. has submitted permit applications for two proposed sites in Caswell County, North Carolina. One is a hot mix asphalt and concrete batch plant, while the other is a quarry, hot mix asphalt plant, concrete batch plant, and distribution center. They are located approximately nine miles apart from each other. This EJ Report only includes information regarding the Quarry and Distribution Center Facility. Please review the accompanying EJ Report for information on the Burlington North Facility.

The proposed site of Carolina Sunrock LLC-Prospect Hill Quarry and Distribution Center, will include a rock quarry with associated stone processing equipment, hot mix asphalt plant, and concrete batch plant. The site also includes diesel and propane/natural gas-fired reciprocating internal combustion engine (RICEs) to power site equipment. The proposed quarry will include crushing, conveying and screening equipment, to be controlled by wet suppression. The proposed asphalt plant will include a 250 tons per hour maximum capacity drum-type dryer/mixer with an 80 million BTU per hour maximum heat input capacity burner capable of combusting propane, natural gas, No. 2/4 fuel oils, and recycled No. 2 fuel oil. Particulate matter emissions from the mixer will be controlled by a bagfilter. The plant will include 5 hot mix asphalt storage silos, asphalt truck loadouts, and a Recycled Asphalt Pavement (RAP) crushing, screening and conveying system. Primary site power will be provided by three natural/gas propane-fired generators equipped with catalytic oxidation systems. Additional diesel engines will provide mechanical energy for quarry equipment.

Potential emissions of criteria and hazardous air pollutants (after emissions controls and permit limits are taken into account) are shown in Table 2.¹

Table 1. Prospect Hill Quarry and Distribution Center Facility Emissions Overview

Pollutant	Potential Emissions (with controls and permit limits, tons/year)
PM	113.73
PM ₁₀	41.92
PM _{2.5}	13.63
SO ₂	25.27
NO _x	45.26
CO	99.38
VOC	43.93
HAP _{Total}	4.08
HAP _{Highest} (Formaldehyde)	0.956

¹ Accurate as of August 6, 2021. Values may change due to modifications to the permit throughout the permitting process.

4 Geographic Area

The proposed facility, Carolina Sunrock LLC- Prospect Hill Quarry and Distribution Center, is located at 1238 Wrenn Road Prospect Hill, NC 27314 (Figure 1). The highest off-site ambient air impacts will occur at the plant fence line. A one-mile radius was used to evaluate the local demographics and socioeconomic of the surrounding community and help inform public outreach efforts.

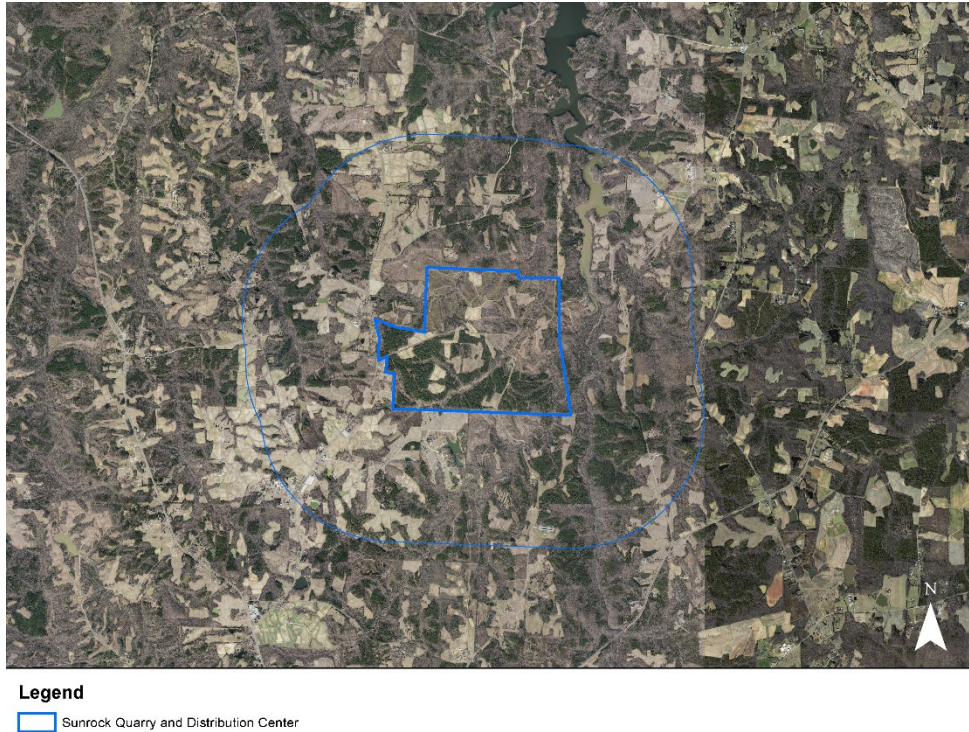


Figure 1. Quarry and Distribution Center facility location with one-mile radius.

The proposed facility would be located in Caswell County. Caswell County is designated as a Tier 1 county by the NC Department of Commerce. The one-mile buffer surrounding the Quarry and Distribution Center includes land in Person County, which is designated as Tier 2 county. According to the Department of Commerce, Tier 1 counties encompass the 40 most distressed counties based on average unemployment rate, median household income, percentage growth in population, and adjusted property tax per capita. Tier 2 counties encompass the next 40 counties based on this ranking system.

The one-mile radius used in this analysis is encompassed by two census tracts. The facility site is located in Census Tract 9306 in Caswell County. The one-mile buffer for the Quarry and Distribution Center enters Census Tract 9206.01 in Person County (Figure 2). Census tracts are small, relatively permanent statistical subdivisions of a county with a unique numeric code (US Census Bureau). None of the census tracts analyzed fall within a state designated tribal statistical area for this location.

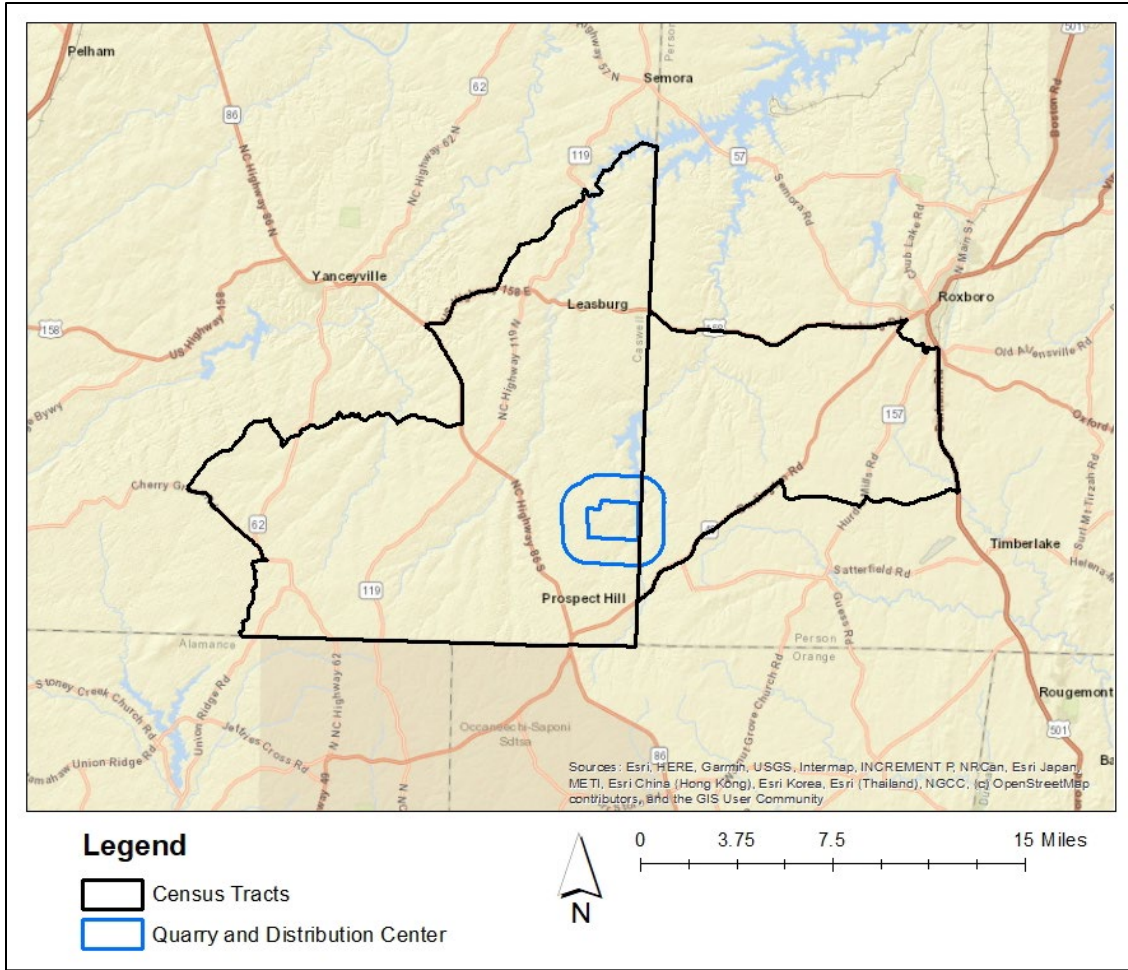


Figure 2. Census tracts surrounding the facility location.

5 Regional and Local Settings

The following sections on race and ethnicity, age and sex, disability, poverty, household income, and Limited English Proficiency (LEP) populations are based on US Census Bureau data, first at a state and county level (regional setting), and then at a census tract and project radius level (local setting). The surrounding census tracts included are those that overlap into the one-mile radius. Demographics of the counties will be compared to the local level data to identify any disparities surrounding the project area. Using standard environmental justice guidelines from the EPA and NEPA documentation, the following conditions will be flagged as potentially underserved communities:

1. 10% or more in comparison to the county or state average
2. 50% or more minority
3. 5% or more in comparison to the county or state average for poverty

For example, if a census tract has 35% of the population classified as low income but the county consists of 30% low income, the census tract would exceed the county average by 16.7% and thus be flagged as a potential area of concern. For this report, census data from 2010 and census data estimates from 2011-2015 and 2013-2017 were used. 2010 Census Bureau data is real data gathered every ten years, whereas the estimates from the more recent years are modeled based on the real data. For the data gathered from the 2013-2017 and 2011-2015 estimates, the margin of error (MOE) has been included. This value is a measure of the possible variation of the estimate around the population value (US Census Bureau). The Census Bureau standard for the MOE is at the 90% confidence level and may be any number between 0 and the MOE value in either direction (indicated by +/-).

5.1 Race and Ethnicity

Regional Setting

According to the 2010 US Census Data Table 9: Hispanic or Latino, and Not Hispanic or Latino By Race, North Carolina’s population totaled 9,535,483 individuals (Table 2). The three most common racial groups across the state were White (68.5%), Black or African American (21.5%) and Hispanic or Latino (of any race) at 8.4%.

Caswell County had a total population of 23,719 individuals (Table 2). Person County had a total population of 39,464 individuals. The three most common racial or ethnic groups within both counties were White (62.5% and 68.3%), Black or African American (33.8% and 27.0), and Hispanic or Latino (3.1% and 4.0%). In Caswell County and Person County, the Black or African American Population (33.8% in Caswell, 27.0% in Person) were greater than 10% different when compared to the state (21.5%).

Table 2. Regional Setting - Race and Ethnicity

Race and Ethnicity	North Carolina		Caswell County		Person County	
	Number	Percent	Number	Percent	Number	Percent
Total Population	9,535,483	100	23,719	100.0	39,464	100.0
White	6,528,950	68.5	14,819	62.5	26,968	68.3
Black or African American	2,048,628	21.5	8,020	33.8	10,646	27.0
American Indian or Alaska Native	122,110	1.3	85	0.4	266	0.7
Asian	208,962	2.2	60	0.3	116	0.3
Native Hawaiian and Other Pacific Islander	6,604	0.1	4	0.0	4	0.0
Some other Race	414,030	4.3	350	1.5	868	2.2
Two or More Races	206,199	2.2	381	1.6	596	1.5
HISPANIC OR LATINO (of any race)	800,120	8.4	744	3.1	1,593	4.0
Mexican	486,960	5.1	607	2.6	1,195	3.0
Puerto Rican	71,800	0.8	42	0.2	94	0.3
Cuban	18,079	2.3	17	0.1	33	0.1
Other Hispanic or Latino	223,281	2.3	78	0.3	271	0.7
Source: US Census Bureau, 2010 Census						
All bolded and orange cells indicate a difference that is greater than 10% when compared to the State						

Local Setting

According to the 2010 US Census Data Table 9: Hispanic or Latino, and Not Hispanic or Latino By race or ethnicity, the largest population within Census Tract 9306 in Caswell County was White at 70.3%, followed by Black or African American at 25.8%, and Hispanic or Latino at 3.2%. The Black or African American population (25.8%) was greater than 10% different compared to the state (21.5%). The largest population within Census Tract 9206.01 in Person County was White at 68.5%, followed by Black or African American at 24.2% and Hispanic or Latino at 8.0%. The population of Some other Race (5.3%) was greater than 10% different when compared to both the county (2.2%) and the state (4.3%).

The largest population in the one-mile radius surrounding the Quarry and Distribution Center was White at 81.0% (which is greater than 10% when compared to the state at 68.5%), followed by Black or African American (15.0%) and Hispanic (3.0%) (Table 3).

Table 3. Local Setting: Quarry and Distribution Center – Race and Ethnicity

Race and Ethnicity	Project Area-1 Mile		Census Tract 9306 Caswell County		Census Tract 9206.01 Person County	
	Number	Percent	Number	Percent	Number	Percent
Total Population	183	100.0	4,790	100.0	5,133	100.0
White	149	81.0	3,367	70.3	3,518	68.5
Black or African American	27	15.0	1,238	25.8	1,243	24.2
American Indian or Alaska Native	0	0.0	20	0.2	25	0.5
Asian	0	0.0	8	0.2	6	0.1
Native Hawaiian and Other Pacific Islander	0	0.0	0	0.0	0	0.0
Some other Race	4	2.0	84	1.8	270	5.3
Two or More Races	2	1.0	73	1.5	71	1.4
HISPANIC OR LATINO (of any race)						
	6	3.0	151	3.2	413	8.0
Mexican			113	2.4	360	7.0
Puerto Rican			17	0.4	13	0.3
Cuban			0	0.0	2	0.0
Other Hispanic or Latino			21	0.4	38	0.7
Source: US Census Bureau, 2010 Census						
All bolded and orange cells indicate a difference that is greater than 10% when compared to the State						
All bolded and blue cells indicate a difference that is greater than 10% when compared to the county and the State						

5.2 Age and Sex

Regional Setting

According to the 2010 US Census Data Table P 12: Sex by Age, North Carolina had a total population of 9,535,483 individuals (Table 4). The largest percentage of the total state population (63.1%) was between the ages of 18 and 64, followed by under 18 years (23.93%), and 65 years and older (12.94%).

Caswell County has a total population of 23,719 individuals. The largest percentage of the total population (63.56%) was between the ages of 18 and 64, followed by under 18 years (20.61%) and 65 years and older (15.83%).

Person County has a total population of 39,464 individuals. The largest percentage of the total population (61.72%) was between the ages of 18 and 64, followed by under 18 years (23.09%) and 65 years and older (15.19%).

In both counties, for both male and female subgroups, as well as the population overall, the populations of 65 years and older is greater than 10% different when compared to the state.

Table 4. Regional Setting- Age Groups and Sex

Subject	North Carolina		Caswell County		Person County	
	Number	Percent	Number	Percent	Number	Percent
Total Population:	9,535,483	100	23,719	100	39,464	100
Under 5 years:	632,040	6.63	1,181	4.98	2,369	6
Under 18 years:	2,281,635	23.93	4,889	20.61	9,114	23.09
18 to 64 years:	6,019,769	63.13	15,075	63.56	24,357	61.72
65 years and older:	1,234,079	12.94	3,755	15.83	5,993	15.19
Male:	4,645,492	100	12,074	100	19,137	100
Under 5 years:	322,871	6.95	602	4.99	1,186	6.2
Under 18 years:	1,167,303	25.13	2,537	21.01	4,662	24.36
18 to 64 years:	2,954,233	63.59	7,935	65.72	11,946	62.42
65 years and older:	523,956	11.28	1,602	13.27	2,529	13.22
Female:	4,889,991	100	11,645	100	20,327	100
Under 5 years:	309,169	6.32	579	4.97	1,183	5.82
Under 18 years:	1,114,332	22.79	2,352	20.2	4,452	21.9
18 to 64 years:	3,065,536	62.69	7,140	61.31	12,411	61.06
65 years and older:	710,123	14.52	2,153	18.49	3,464	17.04
Source: US Census Bureau, 2010 Census						
All bolded and orange cells indicate a difference that is greater than 10% when compared to the State						

Local Setting

According to the 2010 US Census Data Table P 12: Sex by Age, Census Tract 9306 had a total population of 4,790 individuals (Table 5). The largest percentage of the total population (62.78%) was between the ages of 18 and 64, followed by under 18 years (20.63%), and 65 years and older (16.60%). The total population, as well as the female subgroup have a population of 65 years and older that is greater than 10% different than the state. The male subgroup has a population of 65 years and older that is greater 10% different than the county and the state.

Census Tract 9206.01 had a total population of 5,133 individuals. The largest percentage of the total population (60.84%) was between the ages of 18 and 64, followed by under 18 years (23.51%), and 65 years and older (15.64%). The total population, as well as the male and female subgroups have a population of 65 years and older that is greater than 10% different than the state.

Table 5. Local Setting- Age Groups and Sex

Subject	Census Tract 9306, Caswell County		Census Tract 9206.01 Person County	
	Number	Percent	Number	Percent
Total Population:	4,790	100	5,133	100
Under 5 years:	246	5.14	365	7.11
Under 18 years:	988	20.63	1,207	23.51
18 to 64 years:	3,007	62.78	3,123	60.84
65 years and older:	795	16.6	803	15.64
Male:	2,407	100	2,431	100
Under 5 years:	132	5.48	181	7.45
Under 18 years:	535	22.23	582	23.94
18 to 64 years:	1,511	62.78	1,525	62.73
65 years and older:	361	15	324	13.33
Female:	2,383	100	2,702	100
Under 5 years:	114	4.78	184	6.81
Under 18 years:	453	19.01	625	23.13
18 to 64 years:	1,496	62.78	1,598	59.14
65 years and older:	434	18.21	479	17.73

Source: US Census Bureau, 2010 Census
 All **bolded and orange** cells indicate a difference that is greater than 10% when compared to the State
 All **bolded and blue** cells indicate a difference that is greater than 10% when compared to the county and the State

EJSCREEN identified an approximate population of 225 in the 1-mile radius surrounding the Quarry and Distribution Center facility. The largest population was 18+ years, followed by 0-17 years at 21% (Table 6).

Table 6. Project Radius- Age Groups and Sex

Subject	1-mile (Quarry and Distribution Center)	
	Number	Percent
Total Population	225	100
0-4 years	9	5
0-17 years	38	21
18+ years	145	79
65+ years	33	18
Source: US Census Bureau, 2010 Census		

5.3 Disability

Regional Setting

According to the 2013-2017 American Community Survey 5-Year Estimates, Table S1810 Disability Characteristics from the US Census Bureau, the state of North Carolina had an estimated total population of 9,845,238 noninstitutionalized citizens. Of those individuals, an estimated 13.7% (MOE +/- 0.1%) had a disability. The largest population of disabled civilians were 75 years and over (51.0%, MOE +/- 0.5%). The second largest population was the 65 years to 74 years at 27.2% (MOE +/- 0.3%). By race, American Indian and Alaskan Native had the highest estimated disability rate of 18.3% (MOE +/- 0.7%). Black or African American, White, and Native Hawaiian and Other Pacific Islander were the next three highest population estimates with disabilities in North Carolina, at 15.1% (MOE +/-0.2%, 14.0% (MOE +/- 0.1%), and 11.6% (MOE +/- 0.6%), respectively (Table 7).

Caswell County had an estimated total population of 21,970 noninstitutionalized citizens. Of those, an estimated 19.7% (MOE +/- 2%) had a disability. The largest population of disabled civilians were 75 years and over (60.9%, MOE +/- 7.2%) followed by 65 years to 74 years (32.4%, MOE +/-6%). By race, residents of Two or more races had the highest estimated disability rate (50.9%, MOE +/-31%). All populations, excluding American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, some other race, Hispanic or Latino, and 5 to 17 years displayed estimates that were greater than 10% different when compared to the state.

Person County had an estimated total population of 38,813 noninstitutionalized citizens. Of those, an estimated 19.1% (MOE +/-0.7%) had a disability (Table 8). The largest population of disabled civilians were 75 years and over (66.3%, MOE +/- 5.7%) followed by 65 years to 74 years (25.3, MOE +/-5.6%). By race, Black or African American residents had the highest estimated disability rate (23.6%, MOE +/-3.3%). The following population groups displayed estimates that were greater than 10% different when compared to the state: total civilian noninstitutionalized, male, female, white alone, Black or African American alone, American Indian and Alaska Native alone, two or more races, 18-34 years, 35 to 64 years, and 75 years and older.

Table 7. Regional Setting- Disability

Subject	North Carolina						Caswell County					
	Total		With a Disability		Percent with a Disability		Total		With a Disability		Percent with a Disability	
	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)
Total civilian noninstitutionalized population	9,845,238	1,883	1,344,677	9,296	13.7%	0.1	21,970	136	4,339	445	19.7%	2.0
SEX												
Male	4,734,744	2,356	644,157	5,756	13.6%	0.1	10,738	191	2,216	264	20.6%	2.5
Female	5,110,494	1,611	700,520	5,791	13.7%	0.1	11,232	96	2,123	275	18.9%	2.4
RACE AND HISPANIC OR LATINO ORIGIN												
White alone	6,805,260	7,679	950,044	7,928	14.0%	0.1	13,885	214	2,594	350	18.7%	2.5
Black or African American alone	2,101,735	5,025	316,325	4,035	15.1%	0.2	7,202	228	1,573	257	21.8%	3.7
American Indian and Alaska Native alone	114,961	1,802	20,994	862	18.3%	0.7	23	26	0	22	0.0%	61.8
Asian alone	266,672	1,954	13,149	763	4.9%	0.3	130	22	35	32	26.9%	24.5
Native Hawaiian and Other Pacific Islander alone	5,842	533	678	170	11.6%	3	32	38	0	22	0.0%	52.4
Some other race alone	306,809	7,341	15,461	1,136	5.0%	0.3	429	184	0	22	0.0%	7.3
Two or more races	243,959	5,401	28,026	1,407	11.5%	0.5	269	163	137	106	50.9%	31
Hispanic or Latino (of any race)	895,338	953	53,910	1,944	6.0%	0.2	806	27	10	15	1.2%	1.9
AGE												
Under 5 years	603,917	730	5,099	590	0.8%	0.1	1,080	35	22	33	2.0%	3.1
5 to 17 years	1,682,039	807	95,840	2,124	5.7%	0.1	3,253	38	169	71	5.2%	2.2
18 to 34 years	2,190,572	2,241	144,807	3,125	6.6%	0.1	4,018	103	300	110	7.5%	2.8
35 to 64 years	3,894,704	2,076	560,147	6,001	14.4%	0.2	9,350	140	2,003	321	21.4%	3.4
65 to 74 years	895,249	1,047	243,488	2,801	27.2%	0.3	2,651	47	859	155	32.4%	6
75 years and over	578,757	1,013	295,296	2,759	51.0%	0.5	1,618	56	986	122	60.9%	7.2

Table 8. Regional Setting- Disability cont'd

Subject	Person County					
	Total		With a Disability		Percent with a Disability	
	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)
Total civilian noninstitutionalized population	38,813	147	7,419	656	19.1%	0.7
SEX						
Male	18,759	134	3,824	445	20.4%	2.4
Female	20,054	145	3,595	436	17.9%	2.2
RACE AND HISPANIC OR LATINO ORIGIN						
White alone	26,437	313	4,730	512	17.9%	1.9
Black or African American alone	10,488	293	2,471	363	23.6%	3.3
American Indian and Alaska Native alone	322	80	66	37	20.5%	13
Asian alone	60	51	2	4	3.3%	7.4
Native Hawaiian and Other Pacific Islander alone	18	32	0	25	0.0%	69.9
Some other race alone	722	317	19	28	2.6%	4.5
Two or more races	766	279	131	81	17.1%	10.8
Hispanic or Latino (of any race)	1,611	22	47	51	2.9%	3.2
AGE						
Under 5 years	2,147	106	17	27	0.0%	1.3
5 to 17 years	6,352	108	358	138	5.6%	2.2
18 to 34 years	7,049	115	685	191	9.7%	2.7
35 to 64 years	16,480	126	3,558	456	21.6%	2.8
65 to 74 years	4,140	64	1,048	235	25.3%	5.6
75 years and over	2,645	103	1,753	164	66.3%	5.7
Source: US Census Bureau, ACS 5-year Estimates (2013-2017)						
All bolded and orange highlighted cells indicate a difference that is greater than 10% when compared to the State						

Local Setting

According to the 2013-2017 American Community Survey 5-Year Estimates, Table S1810 Disability Characteristics from the US Census Bureau, Census Tract 9306 in Caswell County had an estimated total population of 5,005 noninstitutionalized citizens (Table 9). Of those individuals, an estimated 15.4% (MOE +/- 4.2%) had a disability. The largest population of disabled civilians were 75 years and over (69.2%, MOE +/- 20.8%). The second largest population was the 65 years to 74 years at 35.5% (MOE +/- 14%). By race, Black or African American residents had the highest estimated disability rate of 19.6% (MOE +/- 12%). The following population groups had estimates that were greater than 10% when compared to the state: total civilian noninstitutionalized population, male, Black or African American alone, 35-64 years, and 65-74 years. The population group 75 years and older had an estimate that was greater than 10% when compared to the county and to the state.

Census Tract 9206.01 in Person County had an estimated total population of 5,346 noninstitutionalized citizens. Of those individuals, an estimated 24% (MOE +/- 6.3%) had a disability. The largest population of disabled civilians were 75 years and over (78.5%, MOE +/- 12.2%). The second largest population was Black or African American at 33.9% (MOE +/- 13.8%). The population group 18-34 years had an estimate that was greater than 10% different when compared to the state. The following population groups had estimates that were greater than 10% when compared to the state and the county: total civilian noninstitutionalized population, male, female, White, Black or African American, 5-17 years, 35-64 years, and 75 years and over.

Table 9. Local Setting- Disability

Subject	Census Tract 9306, Caswell County						Census Tract 9206.01, Person County					
	Total		With a Disability		Percent with a Disability		Total		With a Disability		Percent with a Disability	
	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)
Total civilian noninstitutionalized population	5,005	493	769	227	15.4%	4.2	5,346	644	1,285	284	24.0%	6.3
SEX												
Male	2,556	270	436	142	17.1%	5.5	2,542	341	690	178	27.1%	7.5
Female	2,449	286	333	123	13.6%	4.5	2,804	392	595	190	21.2%	7.5
RACE AND HISPANIC OR LATINO ORIGIN												
White alone	3,697	377	517	199	14.0%	5.3	3,525	580	832	208	23.6%	7.5
Black or African American alone	1,289	312	252	165	19.6%	12	1,275	301	432	200	33.9%	13.8
American Indian and Alaska Native alone	0	17	0	17	-	**	0	17	0	17	-	**
Asian alone	8	16	0	17	0.0%	100	0	17	0	17	-	**
Native Hawaiian and Other Pacific Islander alone	0	17	0	17	-	**	0	17	0	17	-	**
Some other race alone	0	17	0	17	-	**	358	338	0	17	0.0%	8.7
Two or more races	11	22	0	17	0.0%	89.4	188	177	21	33	11.2%	23.5
Hispanic or Latino (of any race)	33	39	0	17	0.0%	51.6	557	311	0	17	0.0%	5.7
AGE												
Under 5 years	324	93	0	17	0.0%	9.5	343	162	0	17	0.0%	9
5 to 17 years	854	199	25	28	2.9%	3.4	824	307	68	74	8.3%	8
18 to 34 years	1,094	209	30	47	2.7%	4.3	1,027	212	78	69	7.6%	6.7
35 to 64 years	1,959	270	378	150	19.3%	7.2	2,062	267	620	228	30.1%	11
65 to 74 years	592	135	210	104	35.5%	14	495	146	52	66	10.5%	14
75 years and over	182	69	126	65	69.2%	20.8	595	143	467	145	78.5%	12.2
Source: US Census Bureau, American Community Survey (5-year estimates)												
All bolded and orange highlighted cells indicate a difference that is greater than 10% when compared to the State												
All bolded and blue highlighted cells indicate a difference that is greater than 10% when compared to the County and State												

5.4 Poverty

Regional Setting

According to the Census Table S1701, Poverty Status in the Past 12 Months, 2013-2017 American Community Survey 5-Year Estimates, from the US Census Bureau, North Carolina had an estimated population of 9,783,738, with 16.1% (MOE +/- 0.2%) below the poverty level (Table 10). Across all subjects, Some other race had the highest percent living below the poverty level at 32.0% (MOE +/- 1.4%). The next three subjects with the highest poverty level were Hispanic or Latino at 30.1% (MOE +/- .8%), American Indian and Alaska Native at 26.2% (MOE +/- 1.5%), and Black or African American at 24.9% (MOE +/- .4%). The age group with the highest population below poverty was under 18 (22.9%, MOE +/- 0.4%), followed by 18 to 64 (15.3%, MOE +/- 0.2%).

Caswell County had an estimated population of 21,870 with 21.3% (MOE +/-2.9%) living below the poverty level. Across all subjects, two or more races had the highest percent living below the poverty level at 65.4% (MOE +/- 7.4%). The next subjects with the highest poverty level were Some other race at 59.2% (MOE +/- 32.2%) and Hispanic or Latino at 56.1% (MOE +/- 19.9%). All subject groups had a greater than 5% difference when compared to the state, excluding Native Hawaiian and Other Pacific Islander and American Indian and Alaska Native.

Person County had an estimated population of 38,697 with 18.1% (MOE +/-2.6%) living below the poverty level. Across all subjects, Some Other Race had the highest percent living below the poverty level at 68.7% (MOE +/- 26.2%). The next subjects with the highest poverty level were Hispanic or Latino at 37.8% (MOE +/- 19.8%) and under 18 at 29.1% (MOE +/- 5.6%). The following subject groups had a greater than 5% difference when compared to the state: overall population, under 18, 65 years and over, male, female, Black or African American, Some other Race, and Hispanic or Latino (Table 11).

Table 10. Regional Setting- Poverty

Subject	North Carolina						Caswell County					
	Total		Below poverty level		Percent below poverty level		Total		Below poverty level		Percent below poverty level	
	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-
Population for whom poverty status is determined	9,783,738	1,751	1,579,871	17,833	16.1	0.2	21,870	156	4,666	650	21.3	2.9
AGE												
Under 18	2,256,186	1,865	516,821	9,185	22.9	0.6	4,233	76	1,449	312	34.2	7.2
18 to 64	6,053,546	1,090	923,859	9,663	15.3	0.4	13,368	144	2,471	395	18.5	2.9
65 years and over	1,474,006	881	139,191	2,754	9.4	0.2	4,269	56	746	199	17.5	4.6
SEX												
Male	4,733,269	2,259	694,126	9,539	14.7	0.2	10,709	189	2,255	378	21.1	3.5
Female	5,050,469	2,443	885,745	10,217	17.5	0.2	11,161	115	2,411	368	21.6	3.3
RACE AND HISPANIC OR LATINO ORIGIN												
White	6,776,691	7,591	845,573	13,639	12.5	0.2	13,814	220	2,263	503	16.4	3.7
Black or African American	2,077,559	4,736	517,071	8,162	24.9	0.4	7,188	227	1,950	365	27.1	5.1
American Indian and Alaska Native	114,751	1,804	30,017	1,757	26.2	1.5	23	26	4	7	17.4	36.9
Asian	262,596	1,970	33,282	2,248	12.7	0.9	130	22	29	41	22.3	31.8
Native Hawaiian and Other Pacific Islander	5,886	537	1,097	297	18.6	4.9	32	38	0	22	0.0	52.4
Some other race	305,431	7,334	97,609	5,276	32.0	1.4	429	184	254	204	59.2	32.2
Two or more races	240,824	5,455	55,222	2,570	22.9	1	254	162	166	165	65.4	43.5
Hispanic or Latino	894,810	1,312	268,985	7,035	30.1	0.8	806	27	452	160	56.1	19.9
All individuals below:												
50 percent of poverty level	688,118	10,757					1,965	538				
125 percent of poverty level	2,094,292	20,441					5,709	679				
150 percent of poverty level	2,596,452	22,139					6,652	697				
185 percent of poverty level	3,291,075	23,334					8,328	753				
200 percent of poverty level	3,571,557	25,056					9,398	764				

Table 11. Regional Setting- Poverty cont'd

Subject	Person County					
	Total		Below poverty level		Percent below poverty level	
	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-
Population for whom poverty status is determined	38,697	190	6,998	992	18.1	2.6
AGE						
Under 18	8,342	118	2,429	466	29.1	5.6
18 to 64	23,570	99	3,793	620	16.1	2.6
65 years and over	6,785	132	776	200	11.4	2.9
SEX						
Male	18,680	138	3,045	548	16.3	2.9
Female	20,017	155	3,953	598	19.7	3.0
RACE AND HISPANIC OR LATINO ORIGIN						
White	26,330	313	3,397	836	12.9	3.1
Black or African American	10,515	298	2,950	613	28.1	5.8
American Indian and Alaska Native	322	80	30	41	9.3	11.5
Asian	60	51	0	25	0.0	38.3
Native Hawaiian and Other Pacific Islander	0	25	0	25	-	**
Some other race	722	317	496	330	68.7	26.2
Two or more races	748	282	125	96	16.7	13.0
Hispanic or Latino	1,605	31	607	319	37.8	19.8
All individuals below:						
50 percent of poverty level	2,537	659				
125 percent of poverty level	9,575	1,029				
150 percent of poverty level	11,526	1,005				
185 percent of poverty level	14,694	1,196				
200 percent of poverty level	15,165	1,233				
Source: American Community Survey 5-year Estimates, 2013-2017						
All bolded and orange cells indicate a difference that is greater than 5% when compared to the State						

Local Setting

According to the Census Table S1701, Poverty Status in the Past 12 Months, 2013-2017 American Community Survey 5-Year Estimates, from the US Census Bureau, Census Tract 9306 in Caswell County had an estimated population of 4,956 with 22.3% (MOE +/-7.5%) living below the poverty level (Table 12). Across all subjects, Asian (100%, MOE +/- 100%) and two or more races (100% MOE +/- 89.4%) had the highest percent living under the poverty level. The next subjects with the highest poverty level were Hispanic or Latino at 69.7% (MOE +/- 50.5%), and under 18 at 39.8% (MOE +/- 17.2%). The following subject groups had a greater than 5% difference when compared to the county and the state: under 18, male, white, Black or African American, American Indian and Alaska Native, Asian, Two or more races, and Hispanic or Latino. The following groups had a greater than 5% difference when compared to the state: total population, 18 to 64 years, and female.

Census Tract 9206.01 in Person County had an estimated population of 5,264 with 24.4% (MOE +/-9.1%) living below the poverty level. Across all subjects, some other race had the highest percent living below the poverty level at 76.3% (MOE +/- 48%). The next subjects with the highest poverty level were under 18 at 59.4% (MOE +/- 19.5%), and Hispanic or Latino at 49% (MOE +/- 48.7%). The following subject groups had a greater than 5% difference when compared to the county and state: total population, under 18, 18 to 64, male, female, white, Some other race, and Hispanic or Latino. The population of Black or African American residents had a greater than 5% difference when compared to the state.

Table 12. Local Setting- Poverty

Subject	Census Tract 9306, Caswell County						Census Tract 9206.01, Person County					
	Total		Below poverty level		Percent below poverty level		Total		Below poverty level		Percent below poverty level	
	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-	Estimate	Margin of Error +/-
Population for whom poverty status is determined	4,956	496	1,106	401	22.3	7.5	5,264	587	1,283	556	24.4	9.1
AGE												
Under 18	1,129	210	449	239	39.8	17.2	1,085	335	644	321	59.4	19.5
18 to 64	3,053	354	587	224	19.2	6.9	3,089	367	549	292	17.8	8.8
65 years and over	774	124	70	59	9.0	7.6	1,090	154	90	66	8.3	6.3
SEX												
Male	2,556	270	616	289	24.1	10.6	2,491	322	572	237	23.0	8.2
Female	2,400	293	490	191	20.4	7.4	2,773	365	711	353	25.6	11.1
RACE AND HISPANIC OR LATINO ORIGIN												
White	3,648	380	705	303	19.3	8	3,443	526	643	401	18.7	10.4
Black or African American	1,289	312	382	261	29.6	17.5	1,275	301	367	233	28.8	14.2
American Indian and Alaska Native	0	17	0	17	-	**	0	17	0	17	-	**
Asian	8	16	8	16	100.0	100	0	17	0	17	-	**
Native Hawaiian and Other Pacific Islander	0	17	0	17	-	**	0	17	0	17	-	**
Some other race	0	17	0	17	-	**	358	338	273	341	76.3	48
Two or more races	11	22	11	22	100.0	89.4	188	177	0	17	0.0	15.8
Hispanic or Latino	33	39	23	32	69.7	50.5	557	311	273	341	49.0	48.7
All individuals below:												
50 percent of poverty level	414	250					549	380				
125 percent of poverty level	1,148	402					1,675	550				
150 percent of poverty level	1,238	413					1,784	554				
185 percent of poverty level	1,418	430					2,285	540				
200 percent of poverty level	1,862	515					2,348	536				
Source: American Community Survey 5-year Estimates, 2013-2017												
All bolded and orange cells indicate a difference that is greater than 5% when compared to the State												
All bolded and blue cells indicate a difference that is greater than 5% when compared to the county and the State												

5.5 Household Income

Regional Setting

The following table was compiled using data from the Census Table S1901, Income in the Past 12 Months (in 2017 Inflation-Adjusted Dollars) 2013-2017 American Community Survey 5-Year Estimates for North Carolina. The North Carolina household income range with the highest percent was \$50,000 to \$74,999, at 18.1%. The median household income was \$50,320 and the mean income was \$70,523 (Table 13).

The household income range for Caswell County with the highest percent was \$50,000 to \$74,999 at 16.7% (MOE +/- 2.6%). The median income was \$39,428 and the mean income was \$52,548. All income ranges less than \$50,000 had percentages that were more than 10% higher than the state ranges. The household income range for Person County with the highest percent was \$50,000 to \$74,999 at 18.0% (MOE +/- 2.3%). The median income was \$44,921 and the mean income was \$58,792. The income ranges from \$15,000 to \$34,999 had percentages that were more than 10% higher than the state ranges.

Table 13. Regional Setting- Household Income

Subject	North Carolina		Caswell County		Person County	
	Households		Households		Households	
	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)
Total	3,874,346	8,789	9,160	276	15,772	340
Less than \$10,000	7.3%	0.1	9.1%	2	7.6%	1.8
\$10,000 to \$14,999	5.8%	0.1	10.2%	2.5	5.9%	1.4
\$15,000 to \$24,999	11.1%	0.1	13.5%	2.3	15.2%	2.2
\$25,000 to \$34,999	11.0%	0.1	12.1%	2.2	12.2%	1.9
\$35,000 to \$49,999	14.5%	0.1	16.6%	2.7	14.3%	2.1
\$50,000 to \$74,999	18.1%	0.1	16.7%	2.6	18.0%	2.3
\$75,000 to \$99,999	11.8%	0.1	10.4%	2.1	12.7%	1.6
\$100,000 to \$149,999	11.7%	0.1	7.1%	1.7	10.1%	1.7
\$150,000 to \$199,999	4.4%	0.1	2.4%	1.2	2.5%	0.9
\$200,000 or more	4.3%	0.1	1.9%	1.1	1.5%	0.8
Median income (dollars)	50,320	204	39,428	2,039	44,921	2,487
Mean income (dollars)	70,523	287	52,548	3,820	58,792	4,201

Source: US Census, ACS 5-year Estimates 2013-2017. All **orange and bolded** cells indicate a difference of greater than 10% increase when compared to the state.

Local Setting

The household income range for Census Tract 9306 in Caswell County with the highest percent was \$50,000 to \$74,999 at 19.1% (MOE +/- 7.2%). The median income was \$55,975 and the mean income was \$62,498 (Table 14). The income range \$10,000 to \$14,999 had percentages that were more than 10% higher than the state ranges. The household income range for Census

Tract 9206.01 in Person County with the highest percent was \$50,000 to \$74,999 at 21.6% (MOE +/- 7.3%). The median income was \$42,927 and the mean income was \$56,516. The income ranges \$15,000 to \$24,999 and \$50,000 to \$74,999 had percentages that were more than 10% higher than the state and county averages.

Table 14. Local Setting- Household Income

Subject	Census Tract 9306, Caswell County		Census Tract 9206.01, Person County	
	Households		Households	
	Estimate	Margin of Error (+/-)	Estimate	Margin of Error (+/-)
Total	1,821	190	2,088	150
Less than \$10,000	6.0%	6.2	2.2%	2.1
\$10,000 to \$14,999	9.6%	5.4	5.3%	4.5
\$15,000 to \$24,999	12.0%	4.8	24.8%	7
\$25,000 to \$34,999	9.3%	4.6	10.8%	5.8
\$35,000 to \$49,999	11.4%	5.1	14.5%	5.5
\$50,000 to \$74,999	19.1%	7.2	21.6%	7.3
\$75,000 to \$99,999	15.5%	7.1	12.9%	5.7
\$100,000 to \$149,999	10.8%	5.4	4.7%	4.1
\$150,000 to \$199,999	3.5%	3.8	1.7%	2.3
\$200,000 or more	2.7%	3.4	1.4%	1.6
Median income (dollars)	55,795	15,776	42,927	12,697
Mean income (dollars)	62,498	10,639	56,516	10,442
Source: US Census, 2013-2017 ACS 5-Year Estimates. All orange and bolded highlighted cells indicate a difference that is greater than 5% when compared to the state. All bolded and blue highlighted cells indicate a difference that is greater than 5% when compared to the county and the state.				

In the one-mile radius from the Quarry and Distribution Center, the household income range with the highest percent was less than \$75,000+ at 38%, followed by \$50,000-\$75,000 at 20%.

Table 15. Project Radius- Household Income

Subject	1-mile (Quarry and) Distribution Center	
	Households	
	Estimate	Percent
Total	70	100.0%
Less than \$15,000	9	12.0%
\$15,000 to \$25,000	8	12.0%
\$25,000 to \$50,000	13	18.0%
\$50,000 to \$75,000	14	20.0%
\$75,000+	27	38.0%
Source: EJSCREEN. US Census, 2013-2017 ACS 5-year Estimates		

Per Capita Income

Per Capita Income data was obtained through the Census Table B19301, Per Capita Income in the Past 12 Months (In 2017 Inflation-Adjusted Dollars), 2013-2017 American Community Survey 5-Year Estimates. The North Carolina per capita income estimate was \$28,123. The estimates for the counties are: \$21,692 in Caswell County and \$24,477 in Person County. The estimates for the census tracts are: \$22,753 (9306) and \$22,621 (9206.01). Both the county and the census tracts had a lower Per Capita Income compared to the state (Table 16).

The EJSCREEN analysis also provided per capita income estimates for the one-mile buffer surrounding facility sites. The buffer around the Quarry and Distribution Center has an estimated per capita income of \$30,248.

Table 16. Per Capita Income

Location	Subject		Per Capita Income in Last 12 Months (Dollars)
North Carolina	Per Capita Income	Estimate	\$28,123
		Margin of Error +/-	130
Caswell County	Per Capita Income	Estimate	\$21,692
		Margin of Error +/-	1,521
Person County	Per Capita Income	Estimate	\$24,477
		Margin of Error +/-	1,776
Census Tract 9306 Caswell County	Per Capita Income	Estimate	\$22,753
		Margin of Error +/-	3,182
Census Tract 9206.01 Person County	Per Capita Income	Estimate	\$22,621
		Margin of Error +/-	4,352
Project Area 1-mile Quarry and Distribution Center	Per Capita Income	Estimate	\$30,148
		Margin of Error +/-	***
Source: American Community Survey 5-year Estimates, 2013-2017			

6 Limited English Proficiency (LEP)

Per the Safe Harbor Guidelines, should an LEP Group be identified during the permit application process, written translations of vital documents for each eligible LEP language group that constitutes five percent or includes 1,000 members (whichever is less) of the population of persons eligible to be served or likely to be affected or encountered. If there are fewer than 50 persons in a language group that reaches the five percent trigger, then DEQ will not translate vital written materials, but instead will provide written notice in the primary language of the LEP language group of the right to receive competent oral interpretation of those written materials, free of cost. The safe harbor provisions apply to the translation of written documents only. Safe

harbor guidelines are per the EPA guidance for LEP persons and implemented by DEQ when deemed appropriate.

Seven potential LEP language groups were identified during this initial screening of demographic data (Table 17). However, none of the language groups identified in this screening reached the 5% threshold. If larger LEP groups are identified during the site visit or specific translation requests are received, then DEQ will revisit the Safe Harbor Guidelines.

Table 17. Limited English Proficiency

Language Spoken at Home	Census Tract 9306, Caswell County		Census Tract 9206.01, Person County	
	Estimate	Margin of Error	Estimate	Margin of Error
Total:	4,576	+/-420	4,682	+/-465
Speak only English	4,536	+/-407	4,306	+/-413
Spanish or Spanish Creole:	40	+/-59	321	+/-239
Speak English "very well"	14	+/-22	219	+/-158
Speak English less than "very well"	26	+/-56	102	+/-110
German:	0	+/-12	0	+/-12
Speak English "very well"	0	+/-12	0	+/-12
Speak English less than "very well"	0	+/-12	0	+/-12
Vietnamese:	0	+/-12	0	+/-12
Speak English "very well"	0	+/-12	0	+/-12
Speak English less than "very well"	0	+/-12	0	+/-12
Tagalog:	0	+/-12	0	+/-12
Speak English "very well"	0	+/-12	0	+/-12
Speak English less than "very well"	0	+/-12	0	+/-12

Source: American Community Survey 5-year Estimates, 2011-2015

7 County Health

The University of Wisconsin Population Health Institute, in collaboration with the Robert Wood Johnson Foundation, calculated a County Health Rankings system for all the States in the United States (www.countyhealthrankings.org). This ranking is based on health outcomes (such as lifespan and self-reported health status) and health factors (such as environmental, social and economic conditions). According to this 2021 report, out of all 100 counties in North Carolina (with 1 indicating the healthiest), Caswell County ranks 73rd in health factors and 78th in health outcomes and Person County ranks 53rd in health factors and 73rd in health outcomes. (Figure 3).

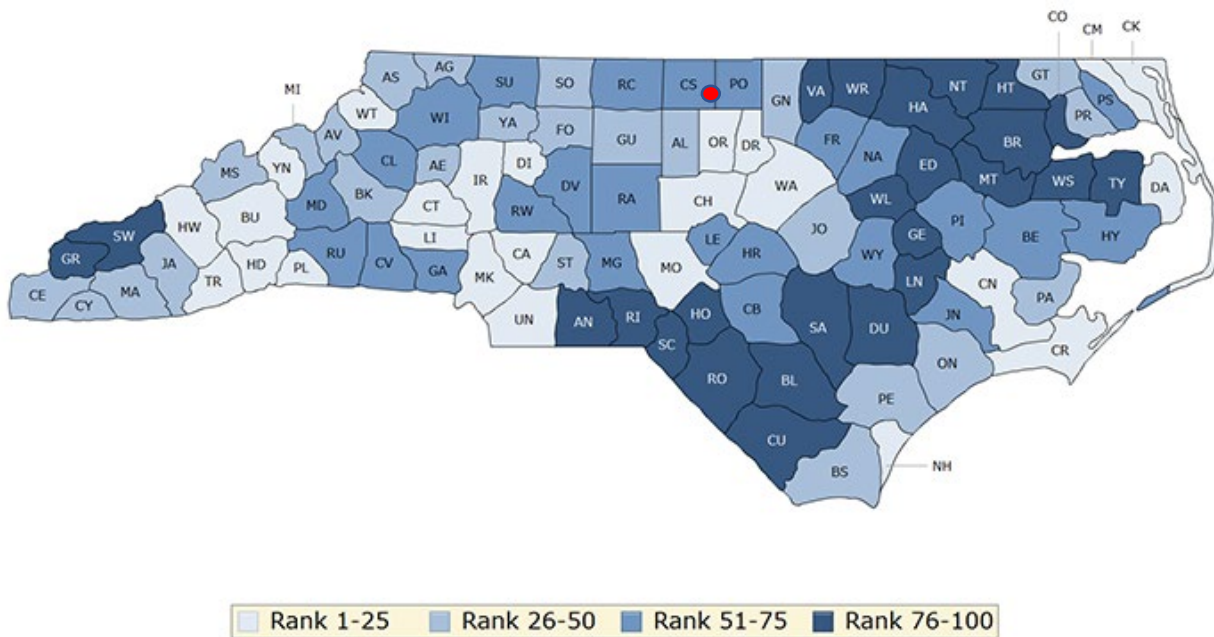


Figure 3. County Health Rankings for Health Factors in North Carolina provided by University of Wisconsin Public Health Institute.

According to the NC DEQ Community Mapping System Environmental Justice Tool, Table 18 demonstrates the rates of death due to various causes in the counties surrounding the proposed facility, as compared to the state.

Table 18. Health Outcomes

Cause of Death	Caswell	Person	North Carolina
Cancer	198.7	178.5	169.1
Heart Disease	169.6	155.6	163.7
Stroke	37.6	33.2	43.1
Cardiovascular Disease	218.8	200.9	221.9
Diabetes	27.9	29	22.8
Source: NCDEQ 2020 EJ Tool			

8 Local Sensitive Receptors

The Environmental Protection Agency suggests that sensitive receptors include, but are not limited to, hospitals, schools, daycare facilities, elderly housing, and convalescent facilities. These are areas where the occupants are more susceptible to the adverse effects of exposure to toxic chemicals, pesticides, and other pollutants. Extra care must be taken when dealing with contaminants and pollutants in close proximity to areas recognized as sensitive receptors. For instance, children and the elderly may have a higher risk of developing asthma from elevated levels of certain air pollutants than a healthy individual aged between 18 and 64.

Within the one-mile project radius from the Quarry and Distribution Center, the following potential sensitive receptors were identified (Figure 4)

- Bethel United Methodist Church
- Lea Bethel Baptist Church

Additional sensitive receptors may be identified during the permit application process, such as during the field reconnaissance visit or through public comment.

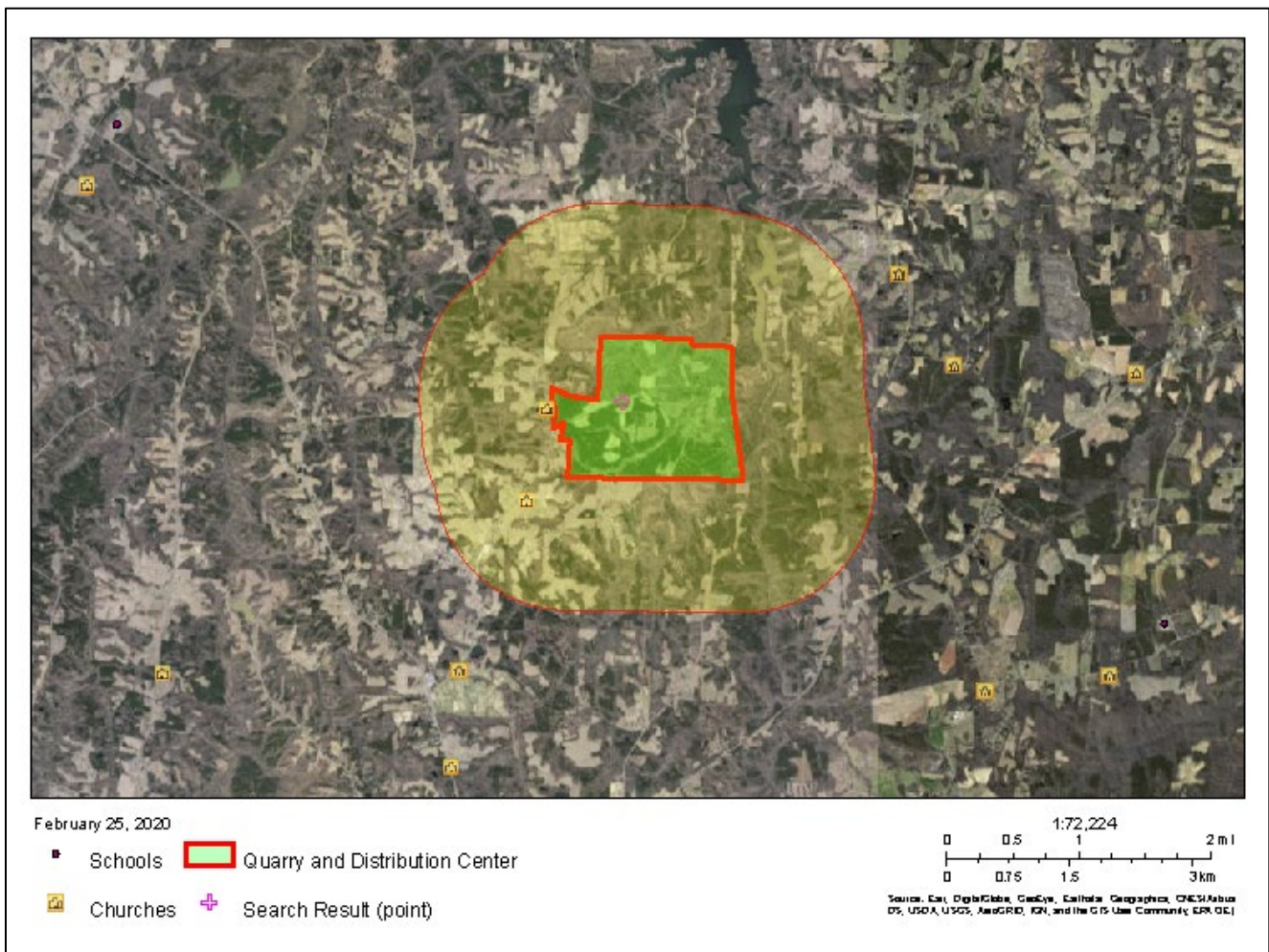


Figure 4. Sensitive receptors surrounding Quarry and Distribution Center

9 Local Industrial Sites

Within the one-mile radius, there are no other² facility permits or incident reports (as of August 4, 2021) (Figure 5).

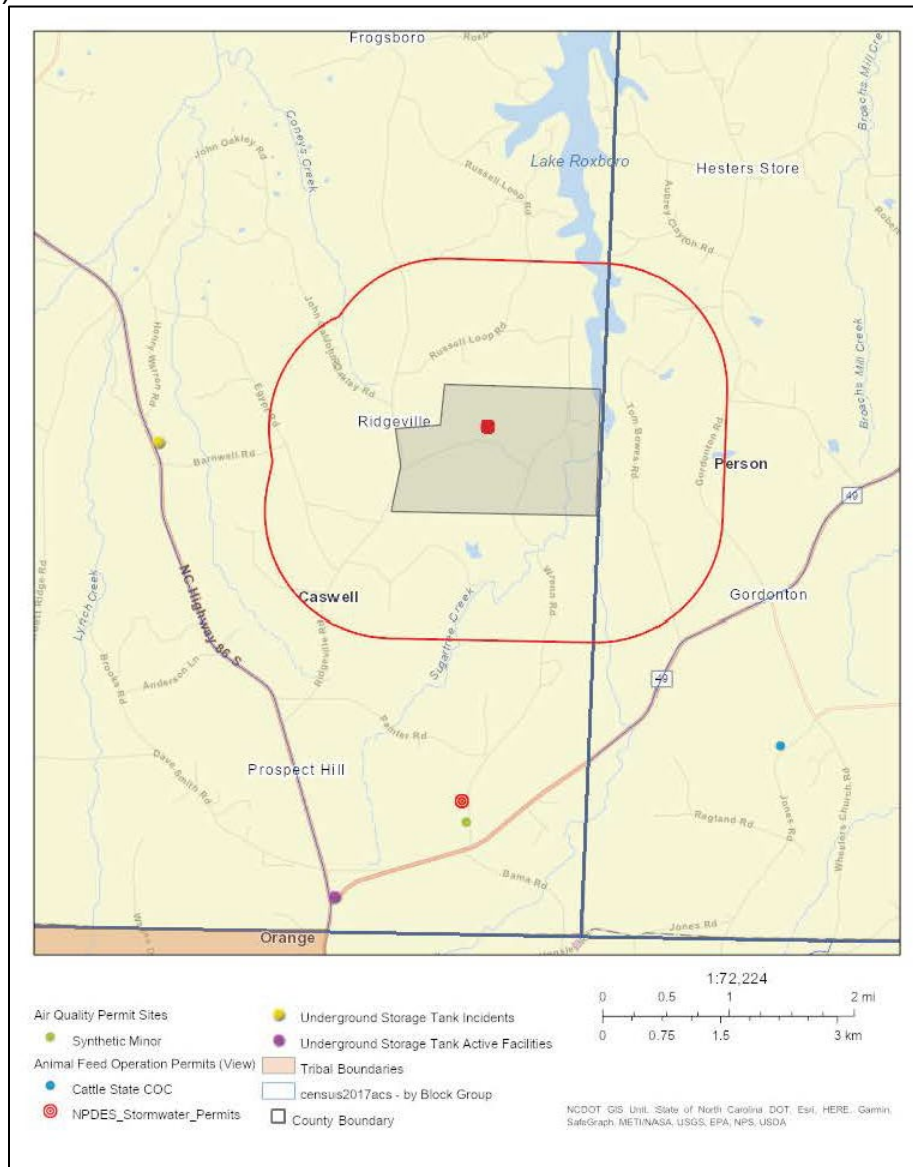


Figure 5. Permitted facilities and incidents with the one-mile radius surrounding the Quarry and Distribution Center.

² There is one NPDES Permit belonging to the facility itself.

10 Conclusion

Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies (US EPA). This report examined the demographic and environmental conditions in the state of North Carolina, Caswell, and Person counties, census tracts 9306 and 9206.01, and the one-mile radius around the Carolina Sunrock LLC, proposed Quarry and Distribution Center Potential emissions rates outlined in the permit application and county level health data were also included, as well as data from the NCDEQ Community Mapping System.

It is important to keep in mind that based on the available data, the following limitations of this report: census data is from 2010 and may be outdated; the more recent census data through 2017 are estimates; EJSCREEN does not provide all of the data categories that were used in this analysis so the census tracts data and county data cannot be compared to the radius used surrounding the facility boundary for all criteria; census tracts can still be large areas and do not allow for exact locations of each population; some of the census tracts slightly overlap with the one-mile radius; and the Department cannot determine which populations may be located in that small amount of overlap around the facility.

The project area data from the census tracts and one-mile radius generally do not deviate from state estimates for race and ethnicity. The surrounding census tracts display a population of individuals over 65 years old that is higher than the state average.

Both of the census tracts display overall poverty estimates that are greater than 10% different than the state and the county. Both census tracts have the largest population within the \$50,000 to \$74,900 range for household income. The project radius estimate has the largest population falling in the \$75,000+ income bracket. Both census tracts display a per capita income lower than the state, and slightly lower than the county. The one-mile radius surrounding the Quarry and Distribution Center displays a per capita income estimate higher than the state.

Caswell County ranks 71th in health factors and 64th in health outcomes. Person County ranks 51st in health factors and 51st in health outcomes.

There were no permitted facilities or incidents within one mile of the proposed facility.

Based on this EJ Report, the following outreach will be conducted:

- Extra attention will be given to ensure language data is accurate and that translation or interpretation will be considered if more LEP populations are identified at any point throughout the process.
- The list of sensitive receptors will be consulted while considering additional outreach options that may best fit this community's needs.
- Known community leaders will be consulted including community members, community groups who indicated significant interest during the 2020 permitting process.