## 1 EJ Snapshot

The EJ Snapshot is an initial look at the demographics and socioeconomics of a facility's surrounding community area. This includes information within a radius determined by the North Carolina Department of Environmental Quality (Department or DEQ), race and ethnicity (decennial census year), poverty status, per capita income, and Ability to speak English (most current American Community Survey (ACS) census range), the current North Carolina Department of Commerce county tier, and presence of Native American territory. The EJ Snapshot does not include a reconnaissance of the community.

An EJ Snapshot will be conducted at the beginning of the application process when a full EJ Report is requested or to determine the need for a full EJ Report. This will be distributed to interested community members (if known) and posted to the DEQ website with the relevant permit application before the close of the public comment period. The primary goal is to encourage EJ Report comments and suggestions from the surrounding community, industry, and environmental groups throughout the comment period.

It is important to keep in mind, that based on the data available, the following limitations of this study exist: census data is from 2010 and may be outdated; the more recent American Community Survey data through 2017 are estimates; the U.S. EPA's EJSCREEN does not provide all of the data categories that were used in this analysis so the census tract and county data cannot be compared to the radius evaluating the facility boundary; census tracts can be large areas that do not identify exact locations of each population; some of the census tracts slightly overlap with the two-mile radius; and the Department cannot determine which populations are located within that small area of overlap.

The Department has assessed a snapshot of the demographic and socioeconomic data of the communities surrounding the two Carolina Sunrock LLC facilities to foster communication prior to the Division of Air Quality's Public Hearing for the permit application for the Asphalt/Concrete/Quarry facilities. Based on the results of this Snapshot and public comments received, a full EJ Report may be conducted prior to any final action taken by the Agency.

### 2 Environmental Justice Evaluation

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, Alamance and Person Counties, as well as census tracts, and the two-mile radius around the property boundary of the proposed Carolina Sunrock facilities. 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.

The Department has assessed the permit application and the potential impact on communities surrounding the requested permit application. Accordingly, the Environmental Justice Snapshot will include:

- Permit application submitted by Carolina Sunrock, LLC
- Modeled emissions rates
- Study of area demographics [determined by utilizing the US EPA Environmental Justice tool (EJSCREEN) <a href="https://ejscreen.epa.gov/mapper/">https://ejscreen.epa.gov/mapper/</a> and current, available census data. <a href="https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml">http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml</a>
- Comparison of local area demographics to both county and statewide census data
- County health assessment
- Surrounding sensitive receptors
- Local industrial sites (using the NCDEQ Community Mapping System
   https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=1eb0fbe2bcfb4cccb3cc212af8a0b8c8).

Demographics (including race and ethnicity, poverty status, and per capita incomes) for Caswell, Person, and Alamance counties will be compared to the local (census tracts and project radius) level data 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 potential communities of concern:

- 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 and distribution center. They are approximately 19 miles apart (Figure 3).

The first proposed site, Carolina Sunrock LLC- Burlington North, will include a hot mix asphalt plant and concrete batch plant. 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, and No. 2/4 fuel oils. Particulate matter emissions from the mixer will be controlled by a bagfilter.

The plant will include 5 hot mix asphalt storage silos, each with loadouts, and Recycled Asphalt Pavement (RAP) crushing, screening and conveying system. The concrete batch plant is a truck mix plant rated at 120 cubic yards per hour maximum production capacity. Particulate emissions from the plant will be controlled by a bagfilter.

Expected actual and potential emissions of criteria and hazardous air pollutants (after emissions controls and permit limits are taken into account) are shown in Table 1.

| Pollutant                             | Expected Actual<br>Emissions (tons/year) | Potential Emissions (with controls and permit limits, tons/year) |
|---------------------------------------|--|--|
| PM                                    | 33.92                                    | 34.08  |
| PM <sub>10</sub>                      | 17.96                                    | 18.01  |
| SO <sub>2</sub>                       | 6.88                                     | 31.15  |
| NO <sub>x</sub>                       | 8.43                                     | 16.63  |
| СО                                    | 33.61                                    | 33.85  |
| VOC                                   | 12.05                                    | 12.06  |
| HAP <sub>Total</sub>                  | 1.40                                     | 2.59   |
| HAP <sub>Highest</sub> (Formaldehyde) | 0.80                                     | 0.80   |

Table 1. Facility Emissions Overview (Burlington North)

The second proposed site, 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, and No. 2/4 fuel oils. 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 the table below.

Table 2. Facility Emissions Overview (Prospect Hill Quarry and Distribution Center)

| Pollutant                             | Potential Emissions (with controls and permit limits, tons/year) |
|---------------------------------------|--|
| PM                                    | 94.43  |
| PM <sub>10</sub>                      | 46.26  |
| PM <sub>2.5</sub>                     | 34.05  |
| SO <sub>2</sub>                       | 30.37  |
| NO <sub>x</sub>                       | 45.26  |
| CO                                    | 99.56  |
| VOC                                   | 43.95  |
| HAP <sub>Total</sub>                  | 9.78   |
| HAP <sub>Highest</sub> (Formaldehyde) | 7.21   |

## 4 Geographic Area

Burlington, NC 27127. The second proposed facility, Carolina Sunrock LLC-Prospect Hill Quarry and Distribution Center, is located at Prospect Hill Quarry and Distribution Center, is located at Prospect Hill, NC 27314. The highest off-site ambient air impacts will occur at the plant fence line, and a one-mile radius was used to evaluate the local demographics and socioeconomics to ensure that the surrounding community was appropriately included. (Figure 1 and Figure 2).



Figure 1. Facility location (Burlington North) with one-mile radius.



Figure 2. Facility location (Quarry and Distribution Center) with one-mile radius.

## **Regional Setting**

Both facilities are located in Caswell County. Caswell County is designated as a Tier 1 county by the NC Department of Commerce. The one-mile buffer of the Burlington North facility enters Alamance County, which is designated as Tier 2. The one-mile buffer of the Quarry and Distribution Center enters Person County, which is designated as Tier 2. 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 radiuses used in this analysis are encompassed by three census tracts. Both facility sites fall in census tract 9306 in Caswell County, the one-mile buffer for the Burlington North facility enters census tract 213 in Alamance County, and the one-mile buffer for the Quarry and Distribution Center enters census tract 9206.01 in Person County (Figure 3). Census tracts are small, relatively permanent statistical subdivisions of a county with a unique numeric code (US Census Bureau). Census tract 213 in Alamance County encompasses land within the state designated tribal statistical area for the (b)(6) Privacy, (b)(7)(C) Enf. Privacy

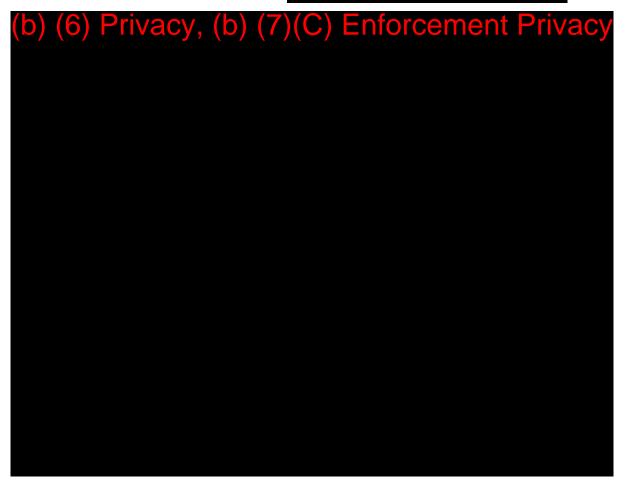


Figure 3. Census tracts surrounding facility location

Table 3. Regional Setting - Race and Ethnicity

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| Source: US Census Bureau, 2010 Census All bolded and orange cells indicate a difference that is greater than 10% when compared to the State | Other Hispanic or Latino 22 | Cuban  | Puerto Rican 7 | Mexican 48 | HISPANIC OR LATINO (of 80 any race) | Two or More Races 20 | Some other Race 41 | Native Hawaiian and Other Pacific Islander | Asian 20 | American Indian or Alaska 12 Native | Black or African American 2,04 | White 6,52 | Total Population 9,53 | Race and Ethnicity Nur | _  |
|---|-----------------------------|--------|----------------|------------|-------------------------------------|----------------------|--------------------|--|----------|-------------------------------------|--------------------------------|------------|-----------------------|------------------------|--|
| Census<br>te a diffe  | 223,281                     | 18,079 | 71,800         | 486,960    | 800,120                             | 206,199              | 414,030            | 6,604                                      | 208,962  | 122,110                             | 2,048,628                      | 6,528,950  | 9,535,483             | Number                 | North Carolina                                       |
| rence that  | 2.3                         | 2.3    | 0.8            | 5.1        | 8.4                                 | 2.2                  | 4.3                | 0.1  | 2.2      | 1.3                                 | 21.5                           | 68.5       | 100                   | Percent                | rolina   |
| is greater th   | 78                          | 17     | 42             | 607        | 744                                 | 381                  | 350                | 4  | 60       | 85                                  | 8,020                          | 14,819     | 23,719                | Number                 | Caswell County<br>(Both facilities)                  |
| an 10% who  | 0.3                         | 0.1    | 0.2            | 2.6        | 3.1                                 | 1.6                  | 1.5                | 0.0  | 0.3      | 0.4                                 | 33.8                           | 62.5       | 100.0                 | Percent                | County<br>cilities)                                  |
| en compare  | 271                         | 33     | 94             | 1,195      | 1,593                               | 596                  | 868                | 4  | 116      | 266                                 | 10,646                         | 26,968     | 39,464                | Number                 | Person County<br>(Quarry and<br>Distribution Center) |
| d to the Sta  | 0.7                         | 0.1    | 0.3            | 3.0        | 4.0                                 | 1.5                  | 2.2                | 0.0  | 0.3      | 0.7                                 | 27.0                           | 68.3       | 100.0                 | Percent                | County<br>y and<br>n Center)                         |
| ि   | 3,928                       | 186    | 861            | 11,664     | 16,639                              | 3,136                | 9,291              | 58   | 1,837    | 1,020                               | 28,369                         | 107,420    | 151,131               | Number                 | Alamance County<br>(Burlington North)                |
|   | 2.6                         | 0.1    | 0.6            | 7.7        | 11.0                                | 2.1                  | 6.1                | 0.0  | 1.2      | 0.7                                 | 18.8                           | 71.1       | 100.0                 | Percent                | County<br>n North)                                   |

Table 4. Local Setting – Race and Ethnicity

| > > 0  |                          |       | _            |         | a                | _                      | 27 | ٠.                |                 | _                |                           |       | 7      | _                         | _                         | _     |                  | 20                 |                      |                          |                     |                     |
|--|--------------------------|-------|--------------|---------|------------------|------------------------|----|-------------------|-----------------|------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|------------------|--------------------|----------------------|--------------------------|---------------------|---------------------|
| 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 bline cells indicate a difference that is greater than 10% when compared to the State | Other Hispanic or Latino | Cuban | Puerto Rican | Mexican | any race)        | HISPANIC OR LATINO (of |    | Two or More Races | Some other Race | Pacific Islander | Native Hawaiian and Other | Asian | Native | American Indian or Alaska | Black or African American | White | Total Population | Race and Ethnicity |                      |                          |                     |                     |
| 2010 Censundicate a di   |                          |       |              |         | 6                |                        |    | 2                 | 4               | 0                | 200                       | 0     | 0      |                           | 27                        | 149   | 183              | Number             | Distribution Center) | (Quar                    | Project Area-1 Mile |                     |
| s<br>fference that is  |                          |       |              |         | 3.0              |                        |    | 1.0               | 2.0             | 0.0              |                           | 0.0   | 0.0    |                           | 15.0                      | 81.0  | 100.0            | Percent            | n Center)            | Quarry and               | ea-1 Mile           |                     |
| at is greater  |                          |       |              |         | 11               |                        |    | 9                 | 5               | 0                | 83                        | 0     | 3      |                           | 68                        | 206   | 310              | Number             | (Burlingto           | Project A                |                     |                     |
| than 10% who   |                          |       |              |         | 4.0              |                        |    | 2.0               | 2.0             | 0.0              | - 10                      | 0.0   | 1.0    |                           | 29.0                      | 67.0  | 100.0            | Percent            | (Burlington North)   | Project Area 1-Mile      |                     |                     |
| hen compa  | 21                       | 0     | 17           | 113     |                  | 151                    |    | 73                | 84              |                  | 0                         | 8     |        | 20                        | 1,238                     | 3,367 | 4,790            | Number             | (Both facilities)    | Caswell                  | Census Tract 9306   |                     |
| red to the S   | 0.4                      | 0.0   | 0.4          | 2.4     |                  | 3.2                    |    | 1.5               | 1.8             | 28               | 0.0                       | 0.2   |        | 0.2                       | 25.8                      | 70.3  | 100.0            | Percent            | cilities)            | Caswell County           | ract 9306           |                     |
| tate   | 38                       | 2     | 13           | 360     | 100000000        | 413                    |    | 71                | 270             |                  | 0                         | 6     |        | 25                        | 1,243                     | 3,518 | 5,133            | Number             | Center)              | (Quarry and Distribution | Person County       | Census Tract 9206.0 |
| <b>5</b>   | 0.7                      | 0.0   | 0.3          | 7.0     | To a contract of | 8.0                    |    | 1.4               | 5.3             | 130              | 0.0                       | 0.1   |        | 0.5                       | 24.2                      | 68.5  | 100.0            | Percent            | er)                  | Distribution             | ounty               | ± 9206.01           |
|  | 88                       | 7     | 22           | 236     |                  | 353                    |    | 121               | 188             |                  | 0                         | 15    |        | 65                        | 1,925                     | 3,743 | 6,057            | Number             | (Burlingto           | Alamanc                  | Census              |                     |
|  | 1.5                      | 0.1   | 0.4          | 3.9     |                  | 5.8                    |    | 2.0               | 3.1             |                  | 0.0                       | 0.2   |        | 1.1                       | 31.8                      | 61.8  | 100.0            | Percent            | (Burlington North)   | Alamance County          | Census Tract 213    |                     |
|  |                          |       |              |         |                  |                        |    |                   |                 |                  |                           |       |        |                           |                           |       |                  |                    |                      |                          |                     |                     |

All **bolded and blue** cells indicate a difference that is greater than 10% when compared to the county and the State

# Table 5. Poverty Status - Regional Setting

|  |           |                     |           |                     |           |                             |          | ď                      |              |                                  |            |                             |
|--|-----------|---------------------|-----------|---------------------|-----------|-----------------------------|----------|------------------------|--------------|----------------------------------|------------|-----------------------------|
|  |           | 30                  | North     | North Carolina      |           |                             |          | Q                      | aswell Count | Caswell County (Both facilities) |            |                             |
|  | ı.        | Total               | Below po  | Below poverty level | Percent b | Percent below poverty level |          | Total                  | Below p      | Below poverty level              | Percent be | Percent below poverty level |
| oubject  | Estimate  | Margin of Error +/- | Estimate  | Margin of Error +/- | Estimate  | Margin of<br>Error +/-      | Estimate | Margin of<br>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              | 16.10     | 0.2                         | 21.870   | 156                    | 4.666        | 650                              | 21.30      | 2.9                         |
| AGE  |           | 1                   |           |                     |           |                             | )=       |                        |              |                                  |            |                             |
| Under 18   | 2,256,186 | 1,865               | 516,821   | 9,185               | 22.90     | 0.6                         | 4,233    | 76                     | 1,449        | 312                              | 34.20      | 7.2                         |
| 18 to 64   | 6,053,546 | 1,090               | 923,859   | 9,663               | 15.30     | 0.4                         | 13,368   | 144                    | 2,471        | 395                              | 18.50      | 2.9                         |
| 65 years and over                                | 1,474,006 | 881                 | 139,191   | 2,754               | 9.40      | 0.2                         | 4,269    | 56                     | 746          | 199                              | 17.50      | 4.6                         |
| SEX  |           |                     |           |                     |           |                             |          |                        |              |                                  |            |                             |
| Male   | 4,733,269 | 2,259               | 694,126   | 9,539               | 14.70     | 0.2                         | 10,709   | 189                    | 2,255        | 378                              | 21.10      | 3.5                         |
| Female   | 5,050,469 | 2,443               | 885,745   | 10,217              | 17.50     | 0.2                         | 11,161   | 115                    | 2,411        | 368                              | 21.60      | 3.3                         |
| RACE AND HISPANIC OR LATINO ORIGIN               |           |                     |           |                     |           |                             |          |                        |              |                                  |            |                             |
| White  | 6,776,691 | 7,591               | 845,573   | 13,639              | 12.50     | 0.2                         | 13,814   | 220                    | 2,263        | 503                              | 16.40      | 3.7                         |
| Black or African American                        | 2,077,559 | 4,736               | 517,071   | 8,162               | 24.90     | 0.4                         | 7,188    | 227                    | 1,950        | 365                              | 27.10      | 5.1                         |
| American Indian and<br>Alaska Native             | 114,751   | 1,804               | 30,017    | 1,757               | 26.20     | 1.5                         | 23       | 26                     | 4            | 7                                | 17.40      | 36.9                        |
| Asian  | 262,596   | 1,970               | 33,282    | 2,248               | 12.70     | 0.9                         | 130      | 22                     | 29           | 41                               | 22.30      | 31.8                        |
| Native Hawaiian and<br>Other Pacific Islander    | 5,886     | 537                 | 1,097     | 297                 | 18.60     | 4.9                         | 32       | 38                     | 0            | 22                               | 0.00       | 52.4                        |
| Some other race                                  | 305,431   | 7,334               | 97,609    | 5,276               | 32.00     | 1.4                         | 429      | 184                    | 254          | 204                              | 59.20      | 32.2                        |
| Two or more races                                | 240,824   | 5,455               | 55,222    | 2,570               | 22.90     | 1                           | 254      | 162                    | 166          | 165                              | 65.40      | 43.5                        |
| Hispanic or Latino                               | 894,810   | 1,312               | 268,985   | 7,035               | 30.10     | 0.8                         | 806      | 27                     | 452          | 160                              | 56.10      | 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                    |              |                                  |            |                             |

All **bolded and orange** cells indicate a difference that is greater than 10% when compared to the State

# Table 6. Poverty Status - Local Setting

|  |          | Census Tract 9306, Caswell County (Both facilities) | t 9306, Casw        | ell County (B       | oth facilities) |                             | Cens     | sus Tract 9206      | .01, Person C | Census Tract 9206.01, Person County (Quarry and Distribution Center) | nd Distributio | n Center)                      |
|--|----------|---|---------------------|---------------------|-----------------|-----------------------------|----------|---------------------|---------------|--|----------------|--------------------------------|
|  | ٥1       | Total   | Below poverty level | verty level         | Percen<br>pover | Percent below poverty level | J.       | Total               | Below po      | Below poverty level  | Percent I      | Percent below poverty<br>level |
| Subject  | 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                 | 22.30           | 7.5                         | 5.264    | 587                 | 1.283         | 556  | 24.40          | 9.1                            |
| AGE  |          |   |                     |                     |                 |                             |          |                     |               |  |                |                                |
| Under 18   | 1,129    | 210   | 449                 | 239                 | 39.80           | 17.2                        | 1,085    | 335                 | 644           | 321  | 59.40          | 19.5                           |
| 18 to 64   | 3,053    | 354   | 587                 | 224                 | 19.20           | 6.9                         | 3,089    | 367                 | 549           | 292  | 17.80          | 8.8                            |
| 65 years and over                                | 774      | 124   | 70                  | 59                  | 9.00            | 7.6                         | 1,090    | 154                 | 90            | 66   | 8.30           | 6.3                            |
| SEX  |          |   |                     |                     |                 |                             |          |                     |               |  |                |                                |
| Male   | 2,556    | 270   | 616                 | 289                 | 24.10           | 10.6                        | 2,491    | 322                 | 572           | 237  | 23.00          | 8.2                            |
| Female   | 2,400    | 293   | 490                 | 191                 | 20.40           | 7.4                         | 2,773    | 365                 | 711           | 353  | 25.60          | 11.1                           |
| RACE AND HISPANIC OR LATINO ORIGIN               |          |   |                     |                     |                 |                             |          |                     |               |  |                |                                |
| White  | 3,648    | 380   | 705                 | 303                 | 19.30           | 8                           | 3,443    | 526                 | 643           | 401  | 18.70          | 10.4                           |
| Black or African American                        | 1,289    | 312   | 382                 | 261                 | 29.60           | 17.5                        | 1,275    | 301                 | 367           | 233  | 28.80          | 14.2                           |
| American Indian and Alaska                       | •        | i   |                     |                     |                 |                             |          | i                   |               |  |                |                                |
| Native   | 0        | 17  | 0                   | 17                  | •               | *                           | 0        | 17                  | 0             | 17   | n              | *                              |
| Asian  | 8        | 16  | 8                   | 16                  | 100.00          | 100                         | 0        | 17                  | 0             | 17   | *              | **                             |
| Native Hawaiian and<br>Other Pacific Islander    | 0        | 17  | 0                   | 17                  | i               | *                           | 0        | 17                  | 0             | 17   | •              | **                             |
| Some other race                                  | 0        | 17  | 0                   | 17                  | -               | *                           | 358      | 338                 | 273           | 341  | 76.30          |                                |
| Two or more races                                | 11       | 22  | 11                  | 22                  | 100.00          | 89.4                        | 188      | 177                 | 0             | 17   | 0.00           | 15.8                           |
| Hispanic or Latino                               | 33       | 39  | 23                  | 32                  | 69.70           | 50.5                        | 557      | 311                 | 273           | 341  | 49.00          | 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                 |               |  |                |                                |

|  | Tot      | al                     | Below pov | erty level             | Percent below | poverty level          |
|--|----------|------------------------|-----------|------------------------|---------------|------------------------|
| Subject  | Estimate | Margin of<br>Error +/- | Estimate  | Margin of<br>Error +/- | Estimate      | Margin of<br>Error +/- |
| Population for whom poverty status is determined | 6,076    | 268                    | 857       | 156                    | 14.10         | 2.4                    |
| AGE  |          |                        |           |                        |               |                        |
| Under 18   | 1,365    | 126                    | 292       | 90                     | 21.40         | 6                      |
| 18 to 64   | 3,657    | 179                    | 433       | 80                     | 11.80         | 2.1                    |
| 65 years and over                                | 1,054    | 77                     | 132       | 41                     | 12.50         | 4                      |
| SEX  | **       |                        |           |                        |               |                        |
| Male   | 2,975    | 154                    | 412       | 90                     | 13.80         | 2.9                    |
| Female   | 3,101    | 176                    | 445       | 86                     | 14.40         | 2.5                    |
| RACE AND HISPANIC OR<br>LATINO ORIGIN            |          |                        |           |                        |               |                        |
| White  | 3,871    | 204                    | 439       | 97                     | 11.30         | 2.5                    |
| Black or African American                        | 1,740    | 175                    | 319       | 92                     | 18.30         | 4.5                    |
| American Indian and Alaska<br>Native             | 42       | 23                     | 0         | 17                     | 0.00          | 45.8                   |
| Asian  | 60       | 49                     | 9         | 8                      | 15.00         | 15.8                   |
| Native Hawaiian and<br>Other Pacific Islander    | 6        | 10                     | 1         | 2                      | 16.70         | 43.4                   |
| Some other race                                  | 188      | 85                     | 70        | 65                     | 37.20         | 25.7                   |
| Two or more races                                | 169      | 58                     | 19        | 16                     | 11.20         | 8.5                    |
| Hispanic or Latino                               | 324      | 103                    | 82        | 66                     | 25.30         | 16.9                   |
| All individuals below:                           |          |                        |           |                        |               |                        |
| 50 percent of poverty level                      | 329      | 78                     |           |                        |               |                        |
| 125 percent of poverty level                     | 1,212    | 172                    |           |                        |               |                        |
| 150 percent of poverty level                     | 1,502    | 193                    |           |                        |               |                        |
| 185 percent of poverty level                     | 1,851    | 208                    |           |                        |               |                        |
| 200 percent of poverty level                     | 2,053    | 213                    |           |                        |               |                        |

Source: American Community Survey 5-year Estimates, 2013-2017

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

Table 7. Per Capita Income

| Sut                | oject   | in Last 12 Months<br>(Dollars)  |
|--------------------|---|---|
| Por Capita Incomo  | Estimate  | \$28,123  |
| r er Capita Income | Margin of Error +/-   | 130   |
| Per Capita Income  | Estimate  | \$21,692  |
| rei Capita Income  | Margin of Error +/-   | 1,521   |
| Por Capita Incomo  | Estimate  | \$24,477  |
| r er Capita Income | Margin of Error +/-   | 1,776   |
| Dor Capita Incomo  | Estimate  | \$25,157  |
| Per Capita Income  | Margin of Error +/-   | 738   |
| Por Capita Incomo  | Estimate  | \$22,753  |
| rei Capita Income  | Margin of Error +/-   | 3,182   |
| Por Capita Incomo  | Estimate  | \$22,621  |
| r er Capita Income | Margin of Error +/-   | 4,352   |
| Dor Capita Incomo  | Estimate  | \$30,148  |
| Per Capita Income  | Margin of Error +/-   | ***   |
| Per Capita Incomo  | Estimate  | \$21,076  |
| Fei Capita income  | Margin of Error +/-   | ***   |
|                    | Per Capita Income  Per Capita Income | Per Capita Income  Per Capita Income |

## 5 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. However, none of the language groups identified 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 8. Limited English Proficiency

| Source: American Community Survey 5-year Estimates, 2011-2015 | Speak English less than 0 +/-12 | Speak English "very well" 0 +/-12 | Tagalog: 0 +/-12 | Speak English less than 0 +/-12 | Speak English "very well" 0 +/-12 | Vietnamese: 0 +/-12 | Speak English less than 0 +/-12 | Speak English "very well" 0 +/-12 | German: 0 +/-12 | Speak English less than 26 +/-56 | Speak English "very well" 14 +/-22 | Spanish or Spanish Creole: 40 +/-59 | Speak only English 4,536 +/-407 | Total: 4,576 +/420 | Language Spoken at Home Estimate Margin of Error Estimate | Census Tract 9306, Caswell County ( County (Both facilities) |
|---|---------------------------------|-----------------------------------|------------------|---------------------------------|-----------------------------------|---------------------|---------------------------------|-----------------------------------|-----------------|----------------------------------|------------------------------------|-------------------------------------|---------------------------------|--------------------|---|--|
|   | 0 +/-12                         | 0 +/-12                           | 0 +/-12          | 0 +/-12                         | 0 +/-12                           | 0 +/-12             | 0 +/-12                         | 0 +/-12                           | 0 +/-12         | 102 +/-110                       | 219 +/-158                         | 321 +/-239                          | 4,306 +/-413                    | 4,682 +/-465       | Margin of Error   | County (Quarry and Distribution Center)                      |
|   | ω                               | 8                                 | 11               | 4                               | သ                                 | 7                   | 30                              | 17                                | 47              | 93                               | 237                                | 330                                 | 5,301                           | 5,720              | Estimate  | Census Tra   |
|   | +/-6                            | +/-10                             | +/-11            | +/-5                            | +/-4                              | +/-8                | +/-34                           | +/-18                             | +/-51           | +/-44                            | +/-75                              | +/-99                               | +/-251                          | +/-287             | Margin of Error   | ensus Tract 213, Alamance<br>County (Burlington North)       |

## 6. 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 (<a href="www.countyhealthrankings.org">www.countyhealthrankings.org</a>). 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 2019 report, out of all 100 counties in North Carolina (with 1 indicating the healthiest), Caswell County ranks 71<sup>th</sup> in health factors and 64<sup>th</sup> in health outcomes. Person County ranks 51<sup>st</sup> in health factors and 51<sup>st</sup> in health outcomes. Alamance County ranks 53<sup>rd</sup> in health factors and 33<sup>rd</sup> in health outcomes.

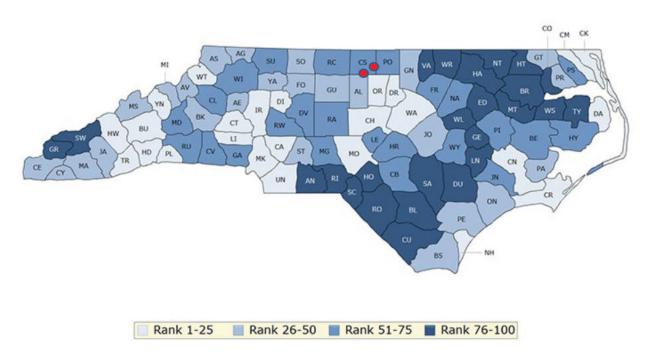
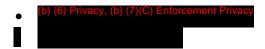


Figure 4. County Health Rankings for Health Factors in North Carolina provided by University of Wisconsin Public Health Institute.

## 6 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 Burlington North facility, the following potential sensitive receptors were identified (Figure 5):



Within the one-mile project radius from the Quarry and Distribution Center, the following potential sensitive receptors were identified (Figure 6)



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



Figure 5. Sensitive receptors surrounding Burlington North facility



Figure 6. Sensitive receptors surrounding Quarry and Distribution Center

# 8. Local Industrial Sites

Within both of the one-mile radiuses, there are no facility permits or incident reports (as of February 25, 2020).

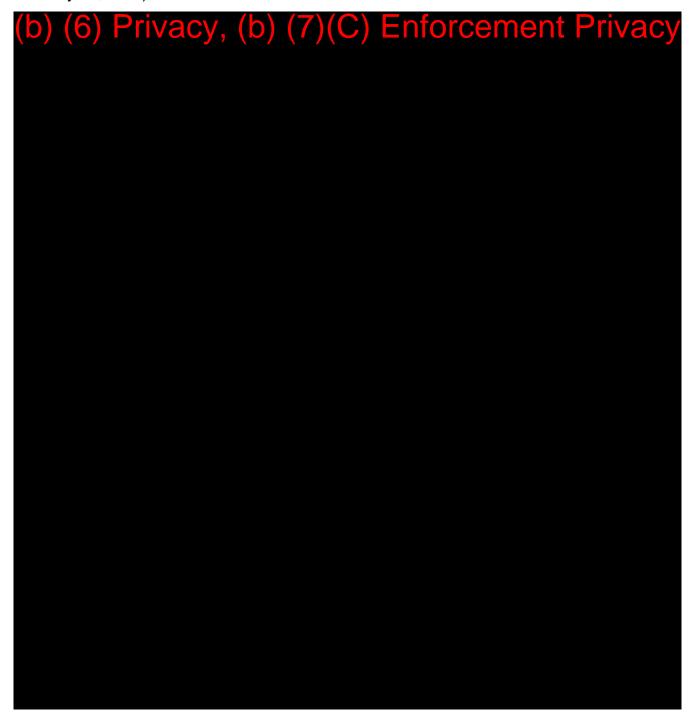


Figure 7. Permitted facilities and incidents with the one-mile radius surrounding the Burlington North facility



Figure 8. Permitted facilities and incidents with the one-mile radius surrounding the Quarry and Distribution Center

## 9. Conclusion

The EJ Snapshot is an initial evaluation of the demographics and socioeconomics of the community area surrounding a proposed facility or permit modification. This includes information within a determined radius by the Department (one mile for this project) on race and ethnicity (decennial census year), poverty, per capita income, and ability to speak English (most current ACS census range), current NC Commerce county tier, and presence or absence of American Indian Tribal areas. The EJ Snapshot does not include a reconnaissance of the community. The proposed Carolina Sunrock LLC is in an area designated with moderate health factors and outcomes in comparison to other areas of the State, ranking last place in both. It is also within state designated tribal statistical areas for the (b)(6) Privacy, (b)(7)(C) Enf. Privacy (Section 6).

The study area generally display slightly higher percentages of African-American residents compared to the state. The study area also generally exhibits higher poverty levels than both the county and the state. Four potential LEP language groups were identified during this initial screening, however, none of the language groups identified reached the 5% threshold for Safe Harbor Guidelines.

Additional outreach will be conducted with the (b)(6) Privacy, (b)(7)(C) Enf. Privacy to keep them informed throughout the permitting process. Extra attention will also 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. Finally, the list of sensitive receptors will be consulted while considering additional outreach options that may best fit this community's needs.