Environmental Assessment
Determinations and Compliance Findings for HUD-assisted Projects
24 CFR Part 58

Project Information

Project Name: Harkins Avenue Subdivision Development

Responsible Entity: North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR)

Grant Recipient (if different than Responsible Entity): Haywood County

State/Local Identifier: North Carolina

Preparer: Daniel Herrera, Environmental Program Manager

Certifying Officer Name and Title: Stephanie McGarrah, Deputy Secretary of the North Carolina Department of Commerce, Division of Community Revitalization

Consultant (if applicable): Ramboll Americas Engineering Solutions, Inc.

Direct Comments to:

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Project Location:

Harkins Avenue, Canton, Beaverdam Township, Haywood County, NC 28716 (see Figure 1)

Parcel ID: 8647-83-7739 | Coordinates: 35.540037, -82.870754

Description of the Proposed Project [24 CFR 58.32]**:**

The project proposes construction of approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way (see attached Project Plans). The subject property proposed for development is approximately 5.97-acres of undeveloped cleared land in the West Canton area of Beaverdam Township in Haywood County, North Carolina (see Property Record and Deed).

Statement of Purpose and Need for the Proposal:

This project is a development of low- to moderate-income (LMI) single-family housing units just outside the Town of Canton in Haywood County, North Carolina. The purpose of the project is to create new, resilient homes and increase the stock of safe, affordable housing in the communities where it is needed most. There is a great need for safe, affordable, resilient housing in Haywood County and throughout Western North Carolina, where Tropical Storm Fred and Hurricane Helene decimated many affordable housing options.

Existing Conditions and Trends [24 CFR 58.40(a)]:

The project site includes the subject property to be developed, which consists of one parcel of land identified by the Haywood County Tax Assessor as Parcel Number 8647-83-7739, totaling approximately 5.97 acres and extends along Keith Street through the intersection of Keith Street and James Street. The property is located approximately 1.7 miles west of downtown Canton, North Carolina and is generally bound by residential properties and Harkins Avenue to the north and east, and by residential properties followed by Old Clyde Road to the south and by residential properties along Candlelight Circle and Keith Street to the west.

Prior to 1894, there are no records indicating the primary use of the site. The property was undeveloped land between c. 1894 and c. 1935 and was non-forested land with no structures or development between c. 1935 and c. 1951. Since c. 1957 the property appears to be agricultural, possibly used for hay production or pasture. The site is currently composed of an undeveloped, vegetated field with varying topography throughout and a small stream on the southern edge of the site boundary. Active utility services do not appear to be present. Historical records indicate the site has not been developed beyond a vegetated field or possible agricultural use.

The area surrounding the property generally consists of semi-rural single-family residential development with interspersed actively cultivated, agricultural properties. From at least the early 1950s through the late 1970s, West Canton consisted primarily of agricultural and undeveloped land. Residential development began to appear and grow extensively in the 1980s. Commercial development would soon follow to the south of the site in the mid to late 1980s. In the late 1990s,

development slowed dramatically, and by 2010, nearly all of the currently extant development was in place. There has been very little residential or commercial development in the area over the last 15 years.

Based on US Census Bureau Community Profile data, Beaverdam Township has a total population of 12,981, comprising 5,506 households, with a median household income of $66,679. Approximately 23% of residents hold a bachelor's degree or higher and 60.2%. are employed. The estimated poverty rate in Beaverdam Township is 13.4%, which is slightly higher than Haywood County at 13.1%.

Barring unforeseen circumstances, these development and socioeconomic trends are likely to continue – and affordable housing options will continue to be in desperately short supply.

Funding Information

Grant Number	HUD Program	Funding Amount
B-21-DF-37-0001	Community Development Block Grant – Disaster Recovery (CDBG-DR)	$7,975,000
B-22-DF-37-0001	CDBG-DR	$5,211,000

Estimated Total HUD Funded Amount: $2,497,827.05

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**:**
$11,626,700 The remaining cost of the project is expected to be paid with non-HUD funds.

Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance determinations**
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	The requirements of 24 CFR Part 51 Subpart D apply to projects involving new construction or substantial rehabilitation, acquisition of undeveloped land, or activities that would significantly prolong the physical or economic life of existing facilities that will be frequently used or occupied by people if the project site is located within an airport hazard zone. A review of the proposed project location showed that the site is not within 2,500 feet of a civilian airport, nor within 15,000 feet of a military airfield. The nearest civilian airport, Asheville Regional Airport, is located approximately 18.8 miles (99,264 feet) from the project site (see attached Airport Hazards map). The nearest military airfield is the Charlotte Air National Guard Base at Charlotte Douglas International Airport located approximately 109.25 miles (576,838 feet) from the project site. Therefore, the project is not impacted by these hazards and has no further requirements in compliance with 24 CFR Part 51 Subpart D.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	Based on a review of the U.S. Fish and Wildlife Service (USFWS) list of Coastal Barrier Resource System (CBRS) Units by County (see attached; extraneous pages removed), there are no CBRS Units or Otherwise Protected Areas located in Haywood County. Further confirmed by the USFWS CBRS Validation Tool, the project site is not within or bisected by a CBRS boundary (see Coastal Barrier Resources System Mapper Documentation attached). Therefore, the project will not impact coastal barrier resources and no further review or consultation is required.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood	Yes ☐ No ☒	The Flood Disaster Protection Act of 1973 (42 U.S.C. 4012a) requires that projects receiving federal assistance and located in an area identified by the Federal Emergency Management Agency (FEMA) as being within a Special Flood Hazard Area

Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]		(SFHA) be covered by flood insurance under the National Flood Insurance Program (NFIP). In order to be able to purchase flood insurance, the community must be participating in the NFIP. If the community is not participating in the NFIP, federal assistance cannot be used in those areas. Per review of the following FEMA Flood Insurance Rate Map (FIRM) Panel #3700864700J effective 4/30/2012, the project site is located in Zone X (Area of Minimal Flood Hazard) which is outside of the SFHA (see attached FIRMette). Therefore, flood insurance is not required, and the project is in compliance with the Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994. Although not required, flood insurance is highly recommended for all insurable structures.
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☐ No ☒	The Clean Air Act is administered by the U.S. Environmental Protection Agency (EPA), which sets National Ambient Air Quality Standards (NAAQS) to protect air quality against certain "criteria" air pollutants. Federal projects must comply with Clean Air Act requirements if they may constitute a significant new source of air pollution. Furthermore, general conformity determinations are necessary when the project is within a maintenance or nonattainment area for any criteria pollutant. According to the Green Book on Nonattainment Areas for Criteria Pollutants, the Haywood and Swain Counties (Great Smoky NP), NC area was designated nonattainment under the 1997 National Ambient Air Quality Standards (NAAQS) for 8-Hour Ozone (O_3) from 2004 to 2009. On January 6, 2010, the area was re-designated attainment with conformance to an approved maintenance plan (i.e. "maintenance") (see attached North Carolina Nonattainment / Maintenance Status for Each County by Year for All Criteria Pollutants). The Clean Air Act requires the EPA to review and update NAAQS standards (for pollutants like ozone or particulate matter) to reflect the latest medical research. When a newer, more protective standard is set, the older limit becomes obsolete and is formally revoked. Accordingly, on March 6, 2015, the EPA published the Final Rule, *Implementation of the 2008 National Ambient Air Quality Standards for Ozone: State Implementation Plan Requirements; Revocation of the 1997 NAAQS,* and the 8-Hour Ozone (1997) NAAQS was formally revoked on April 6, 2015, with anti-backsliding requirements applicable to areas designated nonattainment at the time of revocation. Per the EPA's Final Rule (80 FR 12264), "For areas designated attainment for the 2008 ozone NAAQS, these areas are meeting the most stringent, health-protective NAAQS and thus have no remaining conformity requirements

		because they are designated attainment for the 2008 ozone NAAQS and the designations for the 1997 ozone NAAQS which trigger conformity requirements are revoked. […] Upon the effective date of the revocation of the 1997 ozone NAAQS the only relevant designation for ozone for conformity purposes will be an area's designation for the 2008 ozone NAAQS. Areas that are designated attainment for the 2008 ozone NAAQS are not subject to transportation or general conformity requirements regardless of their designation for the 1997 ozone NAAQS at the time of revocation of that NAAQS. Areas that are designated attainment for the 2008 ozone NAAQS are not subject to transportation or general conformity requirements regardless of their designation for the 1997 ozone NAAQS at the time of revocation of that NAAQS." Since revocation of the 1997 ozone NAAQS, the Haywood and Swain Counties (Great Smoky NP), NC area has remained attainment for ozone under the 2008 and subsequent 2015 ozone NAAQS, as well as being in attainment for the other criteria pollutants. Therefore, the project is in compliance with the Clean Air Act, and a General Conformity Determination is not required.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☐ No ☒	The North Carolina Division of Coastal Management carries out the state's Coastal Area Management Act (CAMA), the Dredge and Fill Law and the federal Coastal Zone Management Act of 1972, using rules and policies of the N.C. Coastal Resources Commission, known as the CRC. According to the CRC, North Carolina's Coastal Zone encompasses twenty (20) counties along the state's Atlantic coast, specifically: Beaufort, Bertie, Brunswick, Camden, Carteret, Chowan, Craven, Currituck, Dare, Gates, Hertford, Hyde, New Hanover, Onslow, Pamlico, Pasquotank, Pender, Perquimans, Tyrrell, and Washington (see attached CAMA Counties). Development activities in any of these counties are subject to the rules and policies of the Coastal Resources Commission. The subject property is located in Haywood County, fully outside of North Carolina's CAMA counties and has no potential to affect coastal resources; therefore, the project is not subject to state review, and a federal coastal consistency determination is not required. The project is in compliance with the Coastal Zone Management Act.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	In accordance with HUD policy which requires that all property proposed for use in HUD programs be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of occupants or conflict with the intended utilization of the property, the past uses of the subject property and potential on- and off-site contamination sources were evaluated. Phase I Environmental Site Assessments (ESA)

		were completed on July 20, 2021, and September 24, 2025 (see attached). As it pertains to the database queries, in the interest of referencing the most up-to-date and accurate information, the September 2025 Phase I ESA will serve as the source for that information. During the most recent site reconnaissance conducted September 24, 2025, the subject property and adjoining / surrounding properties were visually examined and inspected for potential Recognized Environmental Conditions (RECs). The site inspection did not reveal any evidence or indication of contamination or toxic substances at the subject property, including hazardous materials, toxic chemicals, radioactive substances, wells, storage tanks, pits, ponds or lagoons. Per the 2021 Phase I ESA, two aboveground storage tanks (AST) were noted on adjacent properties to the east; however, no signs of deterioration of these tanks or spillage were observed. Federal and state databases were queried using the NCDEQ Site Locator in accordance with ASTM E 1527-21 standards, to identify potential site contamination and hazardous facilities within the minimum search radii of the subject property (see attached NCDEQ DWM Site Locator Tool – Near Me Report and sites tables). When compared to the data in the Phase I ESA completed in September 2025, one apparent discrepancy was found. The Phase I review included a Leaking Underground Storage Tank (LUST) site, Longs Chapel United Methodist Church (LUST Incident Number 22679), indicated to be 0.149 mi south-southeast of the property; however, the address and coordinates place the LUST at 175 Old Clyde Highway in Lake Junaluska (35.528333, -82.958333), approximately 4.95 mi west of the subject property. NCDEQ has since corrected the location of this LUST in their GIS datasets, and as a result, the listing does not appear in the more recent query. The Phase I also analyzed historical site information including aerial photographs, Sanborn Fire Insurance Maps, City Directory records, Historical USGS Topographic Quadrangle Maps, Building Department Records, Zoning/Land Use Records, and Property Tax Files to develop a history of the previous uses of the subject property, adjoining properties, and surrounding area to help identify the likelihood of past uses having led to RECs in connection with the site. Although both Phase I assessments identified no evidence of RECs in connection with the property, based on onsite contamination at the Champion International Landfill NO 1, the July 2021 ESA report recommends that any wells proposed for human use or consumption on the subject property, be tested by a NC Department of Health and Human Services approved facility prior to use. The proposed development will be connected to municipal potable water supply, so this is not anticipated to be a concern but will be included in the mitigation measures as a precaution.

		There are no structures or debris present on the subject property; therefore, the project is not subject to lead-based paint, asbestos and mold-related regulations or guidance. In accordance with HUD policy (CPD-23-103), radon must be considered in the contamination analysis for projects that are subject to HUD's contamination regulations at 24 CFR 58.5(i). As stated in the policy, science-based information may be used to determine whether the project site is located in an area that has average documented radon levels at or above 4 pCi/L. The EPA recommends homes be mitigated if the radon level is 4 pCi/L or more. Because there is no known safe level of exposure to radon, EPA also recommends mitigating home with radon levels between 2 pCi/L and 4 pCi/L. Radon testing data from the CDC Environmental Public Health Tracking Network map shows data for Haywood County (the smallest area for which data is available), where the project site is located. Based on the data, the average annual mean pre-mitigation radon measurement in tested buildings for the most recent 10-year period (2013-2022) is 2.9 pCi/L. As a best practice, the project will incorporate radon resistant new construction (RRNC) materials and techniques to the extent practicable. (See attached CDC Radon Data for Haywood County) The NCDEQ Division of Waste Management (DWM) was invited to consult on this project on May 1, 2026. A letter received from the NC State Clearinghouse on June 9, 2026, states, "The Department of Environmental Quality has reviewed the proposal for the referenced project. Several of our agencies have identified potential permits that may be required and provided recommendations to help minimize negative impacts on and around the project site." (See attached NCDEQ DWM Consultation Letter, NCDEQ and Clearinghouse Responses.) The attached comments include a response from DWM dated June 1, 2026, which states, "The Superfund Section has reviewed the proximity of sites under its jurisdiction to the NC Department of Commerce project. […] Five (5) Superfund Section sites and no (0) Brownfields Program Sites were identified within one mile of the project as shown on the attached report. The Superfund Section recommends that site files be reviewed to ensure that appropriate precautions are incorporated into any construction activities that encounter potentially contaminated soil or groundwater. Superfund Section files can be viewed at: http://deq.nc.gov/waste-management-laserfiche." The five Superfund sites were reviewed in the Phase I ESA as noted above. Additionally, the attached comments included a letter from the Solid Waste Section Field Operations Branch, who reviewed the project and provided the following: "Please note that the

		TBD Landfill, LLC Industrial Landfill (4406-INDUS-1984) is located within one mile of the proposed project. […] Otherwise, the review has been completed and has found no adverse impact on the surrounding community and likewise knows of no situations in the community, which would affect this project from a non-hazardous solid waste perspective." Although the TBD Landfill is located within a mile of the subject property, it is not located within 0.5 miles, and therefore, was not reviewed in the Phase I ESA. Based on NCDEQ Division of Solid Water Management records, the facility received a Notice of Violation on August 27, 2025, and on September 12, 2025, an incidental release of leachate occurred. Following implementation of the proper notification and sampling procedures, according to a final report submitted to NCDEQ on October 28, 2025, concluded "No tested compounds exceeded the NC Residential Health Based PSRGs." and recommended "No further action concerning the leachate overflow is necessary." Per a Facility Compliance Inspection conducted on December 10, 2025, and NCDEQ letter issued December 16, 2025, the prior violation was resolved, and no new violations were observed. Based on this information, the TBD Landfill is currently in compliance and is not anticipated to pose a contamination concern to the subject property (see attached NCDEQ Records for Facility ID 4406-INDUS-1984). The Solid Waste Section Field Operations Branch also recommended, "During the project, every feasible effort should be made to minimize the generation of waste, to recycle materials for which viable markets exist, and to use recycled products and materials in the development of this project where suitable. Any waste generated by this project that cannot be beneficially reused or recycled must be disposed of at a solid waste management facility approved to manage the respective waste type. The Section strongly recommends that any contractors are required to provide proof of proper disposal for all waste generated as part of the project. A list of permitted solid waste management facilities is available on the Solid Waste Section portal site at: Solid Waste Facility List." (https://deq.nc.gov/about/divisions/waste-management/solid-waste-section/solid-waste-permitted-facility-information-and-guidance/solid-waste-facility-lists). This recommendation will be included in the mitigation measures section of this ERR. The Clearinghouse response also included an NCDEQ Intergovernmental Review Project Form in which the DWM-UST Section states the following, "No petroleum release or facility was identified on or adjacent to the proposed project area, per UST and non-UST database search. Notification should be sent to the DEQ (UST Section) if orphan USTs are

		discovered during any excavation operation." This directive will be included in the mitigation measures section below. The proposed project must comply with the mitigation measures and conditional requirements noted in the attached documentation and included in the mitigation measures section of this ERR. Documentation demonstrating compliance with these measures must be included in the project file at or prior to project closeout.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☒ No ☐	Under Section 7 of the ESA, the federal government and each of its agencies have a statutory mandate to use their powers for the conservation of species. Each agency must ensure that any action it authorizes, funds, or carries out is not likely to jeopardize the continued existence of a listed species in the wild or destroy or adversely modify its critical habitat. Therefore, the environmental review must consider potential impacts of the HUD-assisted project to endangered and threatened species and critical habitats. The review must evaluate potential impacts not only to any listed but also to any proposed endangered or threatened species and critical habitats. If a proposed action 'may affect' one or more listed species, consultation with the Service office or offices responsible for the affected species is required. The project was entered into the USFWS' online Information for Planning and Consultation (IPaC) tool, and an Official Species List (Project Code: 2026-0068562) was generated (see attached). The project area does not overlap with any critical habitats; however, IPaC identified seven (7) threatened, endangered, or proposed endangered/threatened species that may occur within the proposed project boundaries. Project activities were evaluated using the North Carolina Statewide Determination Key (DKey), Northern Long-eared Bat and Tricolored Bat Range-wide DKey and Indiana Bat DKey, with supporting Habitat Assessments (see attached). In cases where the DKey indicated the project 'may affect' a species, or a DKey is not currently available for the species, potential impacts of the proposed project on the species were further evaluated and documented in the attached Species Effect Determinations+ table. The analysis resulted in a "No Effect" determination for the Gray Bat (*Myotis grisescens*), Eastern Hellbender (*Cryptobranchus alleganiensis alleganiensis*), Appalachian Elktoe (*Alasmidonta raveneliana*) and the Small Whorled Pogonia (*Isotria medeoloides*), a "May Affect, Not Likely to Adversely Affect" determination for the Indiana Bat (*Myotis sodalis*), and a "May Affect, Not Likely to Jeopardize" determination for the Tricolored Bat (*Perimyotis subflavus*) and the Monarch Butterfly (*Danaus plexippus*). On June 23, 2026, DCR submitted a request to consult with the USFWS under section 7(a)(2) of the ESA, regarding its determination that the proposed project "may affect, not likely

		to adversely affect" (NLAA) the federally endangered Indiana Bat with the inclusion of Best Management Practices (BMPs) and measures to minimize or avoid adverse impacts to this species (see attached). The letter also requested to confer with the Service under the authority of section 7(a)(4) of the ESA, regarding its determination that the proposed project "may affect, not likely to jeopardize" the proposed endangered Tricolored Bat and the proposed threatened Monarch Butterfly. A response was received from USFWS on July 1, 2026 (see attached) which states, "Suitable summer roosting and commuting/foraging habitat for Indiana bat is likely not present in the action area. We would concur with a "may affect, not likely to adversely affect" (NLAA) determination from the lead federal action agency for this species. Eastern hellbender (Cryptobranchus alleganiensis alleganiensis), monarch butterfly (Danaus plexippus), and tricolored bat (Perimyotis subflavus) are not currently subject to section 7 consultation; therefore, they were not included in this review. Should these species become listed in the future, reinitiation of consultation may be required. We believe the requirements under section 7 of the Act are fulfilled for the federally listed species discussed above. However, obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of the identified action may affect listed species or critical habitat in a manner not previously considered, (2) the identified action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed or critical habitat is determined that may be affected by the identified action." The proposed project must comply with the avoidance and minimization measures, BMPs and conditional requirements noted in the attached documentation and included in the mitigation measures section of this ERR. Additionally, project proponents are encouraged to educate future homeowners about protected species and their habitats and ways to avoid or minimize impacts to the natural environment. Should a currently proposed species or new species be listed, project work must stop until potential impacts are re-evaluated and, if required, consultation with the Service is complete. Documentation related to avoidance, minimization or other measures employed during project implementation demonstrating compliance with Section 7 of the ESA must be included in the project file at or prior to project closeout.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	Regulations at 24 CFR Part 51 Subpart C require HUD-assisted projects that may increase residential densities or the number of persons present and exposed, to be located an acceptable separation distance from facilities handling, storing or processing conventional fuels, hazardous gases or chemicals of an explosive or flammable nature that may

		expose occupants or end-users of a project to the risk of injury in the event of a fire or an explosion. HUD has revised the regulation to exempt from coverage ASTs with a water gallon capacity of 1,000 gallons or less that are used to store LPG/propane if the storage tank complies with the 2017 edition of NFPA Code 58 (Liquefied Petroleum Gas Code). In North Carolina, the Board of Agriculture is authorized to regulate propane (NC ST § 119-54 et seq), and does so, administratively through the NC Department of Agriculture & Consumer Services, Standards Division. The division has two chapters it is responsible for under NCAC Title 02- Agriculture and Consumer Services, including Chapter 38 - Consumer Standards which adopts by reference of the National Institute of Standards and Technology (NIST) handbooks and the National Fire Protection Association (NFPA), document NFPA 58 "Liquefied Petroleum Gas Code," (LP-Gas Code), is adopted in section 38 .0701 (2 NC ADC 38.0701). Accordingly, the LP - Gas Program established by the Standards Division is tasked with enforcing these regulations and automatically adopts the most current version, and any amendments, of NFPA 58 - The LP-Gas Code and the National Institute of Standards and Technology (NIST) Handbook 44. Therefore, the state of North Carolina has adopted NFPA 58 (2017 or newer) into law, and as a result, ASTs containing 1,000 gallons or less of LGP/propane are exempt from coverage. The project does not include a facility that mainly stores, handles, or processes flammable or combustible chemicals; however, it does include a new residential development that will result in an increase in residential density and would increase the number of people exposed to a potential hazard, if present. Site investigation photos, NCDENR records, and aerial imagery were reviewed to identify ASTs within 1 mile of the subject property. A total of nine (9) potential ASTs were reviewed. Two (2) tanks were determined to be propane tanks with <1,000-gal capacity and, therefore, exempt from the regulation. One (1) tank was confirmed to be a water tank associated with the Town of Clyde utilities. Another 'tank' was associated with an incident in which diesel was released from a UPS truck (mobile source, not an AST); the fuel was subsequently cleaned up, and a Notice of No Further Action letter was issued per NCDEQ records (see attached). HUD's Acceptable Separation Distance (ASD) Electronic Assessment Tool was used to calculate ASDs for the five (5) remaining ASTs, all of which were confirmed to be located at a distance greater than their respective ASDs. (See attached AST Data, ASD Calculations and Exempt AST Photos) Therefore, no mitigation is required, and the proposed project is in compliance with 24 CFR Part 51 Subpart C.

Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	Federal projects involving new construction, acquisition of undeveloped land, or change in land use are subject to the Farmland Protection Policy Act (FPPA) requirements if they may irreversibly convert farmland to non-agricultural use. Land that meets the definition of prime or unique farmlands or is determined to be of statewide or local significance (with concurrence by the U.S. Secretary of Agriculture) is subject to the Act; however, the Act does not apply to projects/land already in or committed to urban development or those that could otherwise not convert farmland to non-agricultural uses. US Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) regulations at 7 CFR Part 658.2 define "committed to urban development" as land with a density of 30 structures per 40-acre area; lands identified as "urbanized area" (UA) on the Census Bureau Map or as urban area mapped with a "tiny overprint" on USGS topographical maps; or as "urban-built-up" on the USDA Important Farmland Maps. The project site is in an UA per the US Census Bureau's 2020 Census data and does not contain any soils classified as prime farmland, unique farmland, or farmland of statewide or local importance per the USDA-NRCS' Soil Survey Geographic Database (SSURGO) (Figure 6). Additionally, the property is not within an area of locally important farmland or a Voluntary Agricultural District or associated buffer established by the Haywood County Farmland Preservation Ordinance to preserve and protect farmland, forestland and/or horticultural land from encroaching non-farm development (see attached Haywood County map). Due to the proposed irreversible conversion of the subject property to non-agricultural use, a Web Soil Survey Report was also generated to further evaluate the site for the potential presence of high-quality farmland (see attached). Based on a review of the soil data, the undeveloped portion of the project site that would be permanently converted to non-agricultural use is not well suited for agricultural purposes. The predominant soil map unit is Braddock-Urban land complex. Braddock soils are generally well-suited for landscaping and residential purposes but are susceptible to erosion on steeper slopes when left bare. However, it is mapped with an Urban land component, indicative of soils that occur in developed areas where the native soil has often been heavily altered, covered, or mixed with human-altered "fill" material, causing severe soil compaction, impeding root growth, and natural water drainage. As a result, the soils are severely limited and largely unsuitable for traditional farming; agricultural and structural planning must rely heavily on engineered drainage to manage the high runoff rates.

		The property was also evaluated for agricultural viability based on soil composition and characteristics conducive to crop cultivation, revealing that the entire property is poorly (48.6%) to moderately (51.4%) suited for hand planting, and also poorly suited (48.6%), moderately suited (24.1%) or completed unsuited (27.2%) for mechanized planting, with the entire site (100%) having a moderate potential for seedling mortality. It was, therefore, determined that the proposed project will not adversely impact or irreversibly convert high-quality agricultural soils, prime or unique farmland, or farmland of statewide or local importance. The project is in compliance with the FPPA.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☐ No ☒	Executive Order 11988: Floodplain Management requires Federal activities to avoid impacts to floodplains and to avoid direct and indirect support of floodplain development to the extent practicable. HUD's regulations in 24 CFR Part 55 outline HUD's procedures for complying with E.O. 11988. Part 55 applies to all HUD actions that could be harmed or cause harm if located in a floodplain, including but not limited to proposed acquisition, construction, demolition, improvement, disposition, and financing actions under any HUD program. Per review of the FEMA National Flood Hazard (NFHL) data, as depicted on FIRM Panel #3700864700J, effective 4/30/2012, the project site and immediately adjacent areas are in Zone X (Area of Minimal Flood Hazard) which is outside of the SFHA (Figure 2). Currently, there are no preliminary FIRMs for Haywood County. A solicitation of views letter was submitted to the North Carolina Department of Public Safety (NCDPS) on May 1, 2026, regarding NEPA, FFRMS and NEPA compliance (see attached). The letter requested comments and feedback on the proposed activities as well as any concerns regarding the proposed project with respect to potential environmental impacts. No response has been received to date. The proposed project will not directly or indirectly impact or be impacted by a floodplain. Therefore, the requirements at 24 CFR Part 55 related to floodplains are inapplicable, and the project is in compliance with E.O. 11988.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☐ No ☒	The National Historic Preservation Act (NHPA), 16 U.S.C. 470 et seq., directs each federal agency, and those tribal, state, and local governments that assume federal agency responsibilities, to protect historic properties and to avoid, minimize, or mitigate possible harm that may result from agency actions. The review process, known as Section 106 review, is detailed in 36 CFR Part 800. All assisted activities require Section 106 review except projects that are exempt or

		'categorically excluded not subject to' under HUD regulations (24 CFR 58.35(b)) or that are determined by HUD to have "No potential to Affect Historic Properties" as defined at 36 CFR 800.3. The project area was evaluated for the potential presence of unrecorded properties within and/or immediately adjacent to the project area. DNCR's HPOWEB 2.0 was reviewed to identify recorded federal and state resources including individual properties and districts, which are potentially eligible (NR Advisory Committee Study List) or eligible for listing, or listed in the National Register of Historic Places (NRHP). No recorded or unrecorded properties were identified within and/or immediately adjacent to the project area (Figure 8). A Request for New Project Environmental Review Form with supporting information was submitted to the North Carolina State Historic Preservation Office (SHPO) on June 9, 2026 (see attached). A response was received from the North Carolina Department of Natural and Cultural Resources, State Historic Preservation Office on June 12, 2026, indicating that the project was processed for review under ER 26-2150. The attached memorandum issued on behalf of Deputy State Historic Preservation Officer, Ramona M. Bartos states, "We have conducted a review of the project and are aware of no historic resources which would be affected by the project. Therefore, we are not requiring any archaeological or architectural survey and have no comment on the project as proposed." The memorandum further states, "[These] comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800." Solicitation of views letters were also submitted to Tribal Historic Preservation Officers (THPOs) for the Catawba Indian Nation (aka Catawba Indian Tribe of South Carolina), the Cherokee Nation (aka Cherokee Nation of Oklahoma, the Eastern Band of Cherokee Indians, and the Muscogee (Creek) Nation on May 1, 2026. A response was received from the Catawba Indian Nation on June 3, 2026, which stated, "The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project." This request will be included in the mitigation measures section of the ERR. Additionally, whenever possible, human interments should not be photographed and should be left in situ, unstudied, and

		protected from current and future disturbance. If these parameters cannot be met, and human remains, funerary objects, sacred objects, or objects of cultural patrimony are encountered, no photographs of such items will be taken, and the *EBCI Treatment Guidelines for Human Remains and Funerary Objects* (see attached) will be strictly adhered to. No responses were received from the other tribal entities. In the event another Tribal response is received following completion of the environmental review which brings to light new data, circumstances or environmental conditions which may affect the project or have a bearing on its impact, DCR will evaluate the new information and, as necessary, re-evaluate these environmental findings in accordance with 24 CFR 58.47. No known historic properties are present or anticipated to be affected by the project; therefore, the project is in compliance with the National Historic Preservation Act. Project proponents must still comply with applicable mitigation measures as detailed in the attached documentation and mitigation measures section of the ERR.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	Responsible entities under 24 CFR part 58 must take into consideration HUD's noise criteria and standards in the environmental review process and consider ameliorative actions when noise sensitive land development is proposed in noise-exposed areas. Per 24 CFR 51 Subpart B, noise standards apply to new construction, purchase or resale of existing, modernization, or rehabilitation of noise sensitive use (i.e., housing, mobile home parks, nursing homes, hospitals and other non-housing uses) where a quiet environment is integral to the project's function. All sites whose environmental or community noise exposure exceed the day-night average sound level (DNL) of 65 decibels (dB) are considered noise-impacted areas. The proposed project involves new residential development and is therefore subject to noise considerations. The subject property is not located within 15 miles of a military or FAA-regulated civil airfield, or within 1,000 feet of a major roadway, but is within 3,000 feet of one (1) railroad. The Blue Ridge Southern Railroad (BLU) runs east-west, approximately 775 feet south of the subject property (see Noise Sources map). HUD's Day/Night Noise Level (DNL) Electronic Assessment Tool and data obtained from the Crossing Inventory Report (Crossing ID: 904787Y; Street: OLD 19 23) for the nearest crossing (Lat/Long: 35.536564, -82.872321) was used to calculate noise exposure. The DNL along the southern perimeter of the subject property closest to the railroad was 61 dB. DNLs at or below 65 dB are "Acceptable," and noise abatement is not necessary (see attached Noise Assessment).

		Based on this information, the project site is not considered to be noise-impacted and is therefore in compliance with HUD's noise standards at 24 CFR Part 51, Subpart B and the Noise Control Act of 1972.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	The Safe Drinking Water Act of 1974 requires protection of drinking water systems that are the sole or principal drinking water source for an area and which, if contaminated, would create a significant hazard to public health. Designation of an aquifer as a 'sole source' of drinking water protects an area's ground water resource by requiring EPA review of any proposed projects within the designated area that are receiving federal financial assistance. All proposed projects receiving federal funds are subject to review to ensure they do not endanger the water source. According to the EPA's Sole Source Aquifer data, there are no sole source aquifers in North Carolina (see attached North Carolina Sole Source Aquifers map), thus the subject property is not located within a sole source aquifer or recharge zone. Therefore, no impacts are anticipated, and this project is in compliance with the Safe Drinking Water Act of 1974.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☒ No ☐	Executive Order 11990: Protection of Wetlands requires Federal actions to avoid adverse impacts to wetlands where practicable. HUD requires proposed actions which are located in a wetland, impact a wetland, or occur in proximity to wetlands (as defined in 55.9) to be processed under 24 CFR Part 55 - Floodplain Management and Protection of Wetlands. Per review of the United States Fish and Wildlife Service's National Wetlands Inventory (NWI) data, the proposed project area contains a Riverine wetland (Figure 12), classified as R4SBC, defined as a seasonally or intermittently flooded channel which contains flowing water only part of the year. This wetland is located on the southern edge of the property which drains into the partially culverted channel running parallel along the south side of Keith Street. Riverine systems are critical for nutrient cycling and providing passage for migratory aquatic species, while also maintaining water flow and quality in watersheds. They act as natural water filters, slowing surface runoff, storing floodwater, and trapping sediment and nutrients, which improves water quality. This channelized wetland system extends beyond Keith Street and connects to a much larger wetland area surrounding Patton Branch and eventually drains into the Pigeon River to the northwest. The proposed project has the potential to directly impact approximately 0.27 acres of wetlands located along the southern edge of the property being developed. While proposed work along Keith St. has potential to directly impact another 0.50 acres of wetlands along the southern edge of Keith St., indirect construction impacts to these wetland areas directly adjacent to planned work may also occur.

		Additionally, the project has the potential to indirectly impact offsite wetlands west of James Street along the Patton Branch as stormwater from the project area is conveyed towards the Pigeon River. The Asheville Regulatory Field Office for the United States Army Corps of Engineers (USACE) Wilmington District, and the NC Department of Environmental Quality (NCDEQ) Division of Water Resources (DWR), were invited to consult on this project on May 1, 2026 (see attached). A response received from the USACE Asheville Field Office on May 5, 2026 (see attached) noted, "the 2023 rule defines tributaries that are relatively permanent, standing or continuously flowing bodies of water as waters of the United States." and further clarified, "The feature described is likely jurisdictional if an ordinary high water mark is present and it has relatively permanent flow, including seasonally intermittent flow. If the feature is a jurisdictional water of the United States, and the project proposes the discharge of dredged or fill material into this feature, a Section 404 permit from the US Army Corps of Engineers is required. Additionally, a Section 401 water quality certification would be required if a Section 404 permit is needed." Additionally, a response received from NCDEQ DWR on May 5, 2026, (see attached) stated, "The US Army Corps of Engineers (USACE) is the lead permitting agency for projects that may result in a discharge to waters or wetlands ("Waters of the US"). If the USACE requires a 404 or Section 10 Permit for the work, DWR will also require a 401 Certification. If the USACE requires a 404 Permit, then you will need to obtain a 401Water Quality Certification from DWR." and provided additional detail regarding the three types of water quality certifications, application process and procedural requirements. The 8-Step Decision-Making Process (8-Step) was completed in accordance with 24 CFR Part 55 to avoid (to the maximum extent possible) long- and short-term adverse impacts associated with development in wetlands. An Early Notice of Proposed Activities in a Wetland was published June 15, 2026, and a Final Notice was published on July 2, 2026. No comments were received on these notices. Upon completion of the 8-Step, it was determined that there is no practicable alternative to implementing the proposed project in the wetland. However, every effort will be made to avoid and minimize adverse impacts to wetlands as follows: Drainage and site improvements will incorporate green stormwater management techniques to preserve natural topography and hydrology; BMPs and mitigation measures identified in the 8-Step will be incorporated to the extent practicable; All permits, certifications and approvals will be obtained prior to the start

		of any onsite work, and project activities will fully comply with all applicable conditions and requirements therein. The 8-Step Decision Making Process and supporting documentation is attached. Provided the proposed project activities fully comply with the mitigation measures, conditions and requirements identified herein, implementation of the project is not likely to have a significant adverse impact on wetlands. Copies of all permits, certifications and approvals, and documentation related to avoidance, minimization or other measures employed during project implementation to demonstrate compliance with EO 11990 must be included within the project file during or prior to, project closeout.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	According to the National Wild and Scenic Rivers (NWSR) database, there are no Wild and Scenic Rivers (WSR) in Haywood County. The nearest Nationwide Rivers Inventory (NRI) listed river segment is the Little East Fork Pigeon River, located approximately 8.1 miles southwest of the subject property (see attached Wild and Scenic Rivers map). Therefore, the project is in compliance with the Wild and Scenic Rivers Act of 1968.

Environmental Assessment Factors [24 CFR 58.40] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

(1) Minor beneficial impact
(2) No impact anticipated
(3) Minor Adverse Impact – May require mitigation
(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	According to the Haywood County Zoning Map, the subject property does not appear to be zoned. The property record obtained from the Haywood County Tax Assessor (see attached) classifies 5.46 acres of the property as land use code 'OP' (Open Land) and 0.51 acres as land use code 'WD' (Wooded). 'Open Land' is defined as: 1) Land located in rural areas of the county where much of the land is being actively farmed or is lying idle, turnover is infrequent and development is generally limited to major highway intersections and rural hamlet communities; or 2) Land that is either being actively developed, being prepared for development, or the highest and best use is suitable for and likely to be developed in the near future. Typically located in suburban or resort areas with many active subdivisions and concentrated population centers but can also be found in rural areas with extra road frontage or pocket areas of construction. Public water and sewer are preferred but not a requirement. The subject property is located between the towns of Canton and Clyde in unincorporated Haywood County and, therefore, would be required to conform to Haywood County Master Plans. However, as part of the development proposal, the County is seeking to have the property annexed into the Town of Canton, with a zoning designation of 'R-1, Single Family'. If this were to happen, the property would instead be subject to conformance with Canton's Land Use Plan 2022 and applicable zoning restrictions. On April 16, 2026, representatives from

		Haywood County, the Town of Canton, and Mountain Projects, LLC met to discuss the feasibility and logistics of the proposal. Per meeting minutes, annexation is unlikely and would require zoning approval per the Manufactured Home Overlay District (see attached Meeting Minutes). Although the residential density of the proposed development is higher than surrounding residential development, residential development is a compatible land use and will be required to obtain all necessary planning and zoning approvals to ensure the scale and design of the development are appropriate and conform to applicable community master plans. Based on the information obtained, the proposed development will conform to existing community master plans, compatible land use and zoning requirements, including having a scale and design that are consistent with the surrounding community; therefore, no impact is anticipated.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The existing topography on the site generally slopes to the south-southwest with an elevation difference estimated to be approximately 50 feet across the site. A preliminary geotechnical exploration was conducted in July 2021 to develop information regarding the site and subsurface soil conditions that could be used to evaluate the feasibility of prospective construction at the site (see attached). Preliminary findings indicate that subsurface conditions are suitable for conventional construction approaches and standard building practices. Although the report makes general cursory recommendations regarding foundation design parameters, grading and ground water control, and cut and fill slopes, the report recommends a complete geotechnical study including supplemental subsurface exploration (more borings and/or test pits, further engineering evaluation, and laboratory testing), and additional analysis to guide engineers during final foundation design and determine more specific site preparation procedures. Existing drainage infrastructure within the subdivision is inadequate, and residents along Keith Street have experienced periodic flooding. The current stormwater design proposes installation of a new stormwater conveyance pipe along the centerline of Keith Street with the new line tying into the existing culvert system near the midpoint and intersection of Keith Street and James Street (see attached Stormwater Plan). The proposed stormwater improvements are expected to address these longstanding drainage deficiencies. If annexed into the Town of Canton, the Keith Street Stormwater Improvements Plans must be submitted to the Town of Canton for approval/permitting, as required. Per NCDEQ's DWR, Water Quality Regional Operations, and Division of Energy, Mineral, and Land Resources (DEMLR) comments received via the State Clearinghouse (see attached); the project is subject to compliance with the applicable

		requirements of the Sedimentation Pollution Control Act of 1973, Haywood County's Sedimentation and Erosion Control Program, NPDES Stormwater Program, State Stormwater Permitting Programs, Section 404 permitting from the US Army Corps of Engineers, Section 401 Water Quality Certification from DWR, North Carolina Surface Water and Wetland Standards. Additionally, as recommended by the North Carolina Wildlife Resource Commission (NCWRC) in a response related to the State Endangered Species Program, the project will incorporate Low Impact Development (LID) technologies into the design and construction of the subdivision and residences to mitigate some of the stormwater runoff resulting from increased impervious surfaces. (See Wildlife and Vegetation attachment.) Provided a full geotechnical study is completed with similar findings and the recommendations provided therein are used to develop site preparation procedures and design foundations that are suited to the specific site conditions, soil suitability, slope and erosion are not anticipated to pose a risk to the safe and successful development of the subject property. Similarly, provided the stormwater improvement plans address existing drainage concerns and manage new runoff, receive the necessary permits and approvals, drainage and stormwater runoff are not anticipated to pose a risk to the subject property or the surrounding development. The project will be required to obtain all required federal, state and/or local permits and approvals related to stormwater management, erosion and sedimentation control, water quality, surface water and wetlands, adhere to an approved erosion & sedimentation control plan, and comply with all associated requirements, standards and BMPs during construction. Based on compliance with these requirements, no net impact related to soil suitability, erosion, stormwater or runoff, is anticipated.
Hazards and Nuisances including Site Safety and Noise	2	The subject property is in a somewhat rural residential area with very few potential hazards, nuisances or site safety concerns aside from the proposed construction activity. During implementation, temporary fencing and other barriers are necessary to prevent young and curious individuals from gaining access to heavy equipment, active construction sites and unstable terrain, that may cause serious harm or injury. Development of the subject property may result in short-term elevated noise levels in the immediately surrounding residential area related to construction activities. To minimize potential noise impacts, construction activities will be restricted to daylight hours and will comply with Haywood County's Code

		of Ordinances, specifically Title IX, Chapter 95: Noise Control. Noise will be mitigated to the extent practicable with BMPs. Based on this information, any noise nuisances or construction-related hazards are anticipated to be negligible and will be mitigated to the extent practicable; therefore, no impact is anticipated.

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	Although the construction phase of the project may result in a temporary increase in job opportunities for local construction laborers, helpers and tradesmen, and will provide stable housing for the local workforce, only 4.7% of the working population of Beaverdam Township, and 6.7% of Haywood County's working population, are employed in the construction industry. See attached US Census Bureau's Community Profiles for Beaverdam Township and Haywood County. As such, the proposed project is not anticipated to significantly or permanently alter existing employment and income patterns of the community; therefore, no impacts are anticipated.
Demographic Character Changes, Displacement	2	Approximately 13.4% of individuals in Beaverdam Township are living at or below the poverty line, similar to Haywood County at 13.1% and the State of North Carolina at 12.5%. Only 23.1% have a bachelor's degree or higher, 8.1% are without health insurance. The median household income in Beaverdam Township is $66,679. See attached US Census Bureau's Community Profiles for Beaverdam Township and Haywood County. The proposed development will provide affordable housing for approximately 18 low-to-moderate income households; however, when compared to the demographics of the community, the project represents a nominal change in household composition demographics, which is not significant enough to alter the demographic character of the area. Furthermore, the property is undeveloped and uninhabited, so the project will not displace any residents. On the contrary, the proposed action could potentially benefit the community and protect or restore its demographic character by providing the affordable housing needed to prevent new households from being forced out of the area in search of affordable housing and allowing previously displaced residents to return to the community. Based on the information obtained, the proposed development is not anticipated to alter or adversely impact the demographics of the surrounding community and will not displace any individuals or households.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	Haywood County has a population of approximately 57,000 people. The average family size in Haywood County is approximately 2.8 people, with roughly half of those being married couple households (2 parents and 1 child) and the other half being single parent households (1 parent and ~2 children). As such, statistically, the project has the potential to increase the local residential density by approximately 27 adults and 27 school-aged children. The subject property is served by the Haywood County Public School System which serves over 6500 students. The children of future residents would attend North Canton Elementary, Canton Middle, and Pisgah High School. The Transportation Department for Haywood County Schools operates and maintains 107 school buses and activity buses to safely transport students to and from school and extracurricular activities. The property is also readily accessible to higher education at Haywood Community College in the neighboring town of Clyde, and the Canton and Fines Creek Branches of the Haywood County Public Library in the neighboring towns of Canton and Clyde via the public transit system. There are also a variety of cultural facilities in the vicinity of the property and accessible via the public transit system including the Colonial Theater for performing arts in Canton, the Museum of Haywood County History at the Shook-Smathers House in Clyde, the Shelton House Museum in nearby Waynesville. Although currently closed due to flood damage from T.S. Fred, the Canton Area Historical Museum is also located in Canton. Based on the information obtained, the educational and cultural facilities identified above are within reasonable proximity and are safely accessible and have sufficient capacity to accommodate the negligible increase in the anticipated number of students (0.4%) and future residents (<0.095%); therefore, no impact is anticipated.
Commercial Facilities	2	Canton, North Carolina, features two main commercial areas: the historic Downtown District (Main and Park Streets) and the auto-oriented Champion Drive/I-40 Corridor. Centered around Canton Main Street Historic District, quaint Downtown Canton is a walkable, cultural and boutique hub featuring art galleries, antique shops, locally made goods, gift shops and cafes. Located just north of downtown, is Canton's most commercially developed auto-oriented corridor. It stretches along Champion Drive and is highly visible from Interstate 40. This area offers

		fast-food chains, gas stations, auto parts stores, and larger service industries including lodging. Both of these commercially developed areas are accessible via public and private transportation. The proposed development would increase the number of households which are dependent upon the goods and services provided by these small businesses and commercial establishments. Based on the information obtained, the commercial facilities identified above are within reasonable proximity, accessible and have sufficient capacity to meet the needs of future residents. However, any resulting increase in revenue or demand for goods and services is anticipated to be negligible; therefore, no impact is anticipated.
Health Care and Social Services	2	Two major medical facilities provide medical services to provide advanced, compassionate, and safe healthcare for Haywood and surrounding counties, Haywood Regional Medical Center and Mission Health Systems, both located in the neighboring town of Clyde. Haywood County residents can dial 2-1-1 to speak with a trained resource specialist who will help them connect with a wide range of health and human services including rent and utility assistance, food and emergency shelters, employment support, medical and mental health services, and transportation assistance, and can also provide information about affordable childcare, caring for aging relatives, and recovery support after a disaster. Based on the information obtained, adequate health care and social services exist within reasonable proximity, are accessible via public transit, and have sufficient capacity to meet the potential needs of future residents. Therefore, no impact is anticipated.
Solid Waste Disposal / Recycling	2	Haywood County Waste Services, located in Canton, provides affordable weekly trash pickup and curbside recycling for Haywood County residents, as well as bulk waste removal and dumpster rental throughout Haywood County. In the event the property is annexed into the Town of Canton, household garbage and recycling pickup services are available through the town's contracted vendor (currently Waste Pro). The Haywood County Solid Waste Management Program operates 10 collection "convenience" centers throughout the county, a Materials Recovery Facility (MRF) in Clyde, and the White Oak Landfill (WOLF) where residents can appropriately dispose of various debris based on the facility is permitted to accept. Haywood County also hosts household hazardous waste (HHW) events where residents can properly dispose of these materials free of charge. The nearest solid waste facility is located approximately 2.3 miles southeast of the subject property.

		Regarding construction debris generated as a result of the project, every practicable effort will be made to minimize the generation of waste, to recycle materials for which viable markets exist, and to use recycled products and materials in the development of this project where suitable. Any waste generated by the project that cannot be beneficially reused or recycled will be disposed of at a solid waste management facility approved to manage the respective waste type. Additionally, strongly contractors will be strongly encouraged to provide proof of proper disposal for all waste generated as part of the project consistent with the recommendations of the Solid Waste Section Field Operations Branch. This recommendation will be included in the mitigation measures section of this ERR. Based on the information obtained, local and county-based solid waste disposal and recycling services with sufficient capacity are available to serve future residents of the development and disposal and recycling facilities and events are within reasonable proximity for any items that may exceed the pick-up thresholds of the curbside pickup service. Additionally, construction debris will be minimized to the extent practicable, and any remaining debris will be recycled, reused or disposed of in a properly permitted landfill, in accordance with local, state and federal requirements. Therefore, no impact is anticipated.
Waste Water / Sanitary Sewers	2	According to the Town of Canton Water and Sewer Department's Canton Lead Service Line Inventory (see attached), municipal potable water and sewer service lines surround the subject property – indicating municipal services are available. Project proponents are coordinating with local/county utility departments to identify the most appropriate sanitary sewer service provider, verify adequate capacity and determine the ideal connection point. Sufficiency of the selected sanitary sewer provider will be verified as part of the permitting process. Based on the available information, sanitary sewer service is available to serve the proposed development, and the project will not exceed the capacity of the sanitary sewer system; therefore, no impact is anticipated.
Water Supply	2	The property is not within a County-designated Water supply Watershed. The nearest water supply watershed is WS-III PIGEON approximately 0.92 miles south of the subject property (see attached Haywood County Water Supply Watershed map). Based on topography and intervening development, project activities is not anticipated to impact this watershed. According to the Town of Canton Water and Sewer Department's Canton Lead Service Line Inventory, municipal

		potable water and sewer service lines surround the subject property. On April 16, 2026, representatives from Haywood County, the Town of Canton and Mountain Projects, LLC met to discuss the feasibility and logistics of the proposed development. Per meeting minutes, the existing water line at the "bottom of the plat" is in need of repair (see attachment in Land Development section). Project proponents are coordinating with local/county utility departments to identify the most appropriate potable water source, verify adequate capacity and determine the ideal connection point. Sufficiency of the selected potable water supply source will be verified as part of the permitting process, including any repairs that may be necessary to facilitate connection to the existing water line. Based on the available information, a safe and sufficient potable water supply is available to serve the proposed development, and the project will not adversely impact the water supply.
Public Safety - Police, Fire and Emergency Medical	2	The Haywood County Sherrif's Office, located in nearby Waynesville, is the law enforcement agency with primary jurisdiction over the subject property. In the event the property is annexed into the Town of Canton, the Canton Police Department would assume primary jurisdiction and provide law enforcement services. The subject property is located in the West Canton fire district with fire protection and first responder emergency medical assistance being provided by the Canton Fire Department. Haywood County Emergency Medical Services (EMS) provides both emergency and non-emergency care to the residents of Haywood County. The organization operates five Advanced Life Support Units at Paramedic level (stationed in Canton, Waynesville, Clyde and Maggie Valley) and a quick response vehicle. An EMS coverage plan including "move-ups" to high call volume areas to improve response times is currently in place and is adjusted to maintain consistent response times. On April 16, 2026, representatives from Haywood County, the Town of Canton and Mountain Projects, LLC met to discuss the feasibility and logistics of the proposed development. Per meeting minutes, the police department is "spread thin" in terms of staffing and manpower but not to the point of stopping the project from moving forward. Additional feedback on the site plans on current plans and road width of 23ft, indicated the cul-de-sac radius "looks doable" but would be "tight for [fire]trucks" and two (2) additional fire hydrants are needed on lots 13 & 18 (see attachment in Land Development section). Based on the information obtained, the public safety agencies and organizations identified above are within a reasonable proximity and have the necessary resources to adequately meet the public safety needs of the future residents of the property in

		the event of a fire, medical or other emergency. The approved/permitted design ensures the road width, cul-de-sac radius and quantity/placement of fire hydrants meet code requirements as required by the local jurisdiction and are adequate to accommodate firetrucks and facilitate effective firefighting response to ensure the safety of residents; therefore, no impacts are anticipated.
Parks, Open Space and Recreation	2	The proposed development does not include designated play or recreational areas; however, the development is a 'closed' neighborhood design that incorporates a series of cul-de-sacs to eliminate through traffic, sidewalk-lined streets and pedestrian crossings. This layout offers quiet, safe streets where children can play, and people can walk, jog, and bike, with little fear of fast-moving traffic. Additionally, Haywood County offers extensive parks, rivers / lakes, open space, and recreational areas where residents can enjoy the outdoors, including fishing, hiking, walking/running and cycling paths, scenic trails, waterfalls, birding and water sports. The Haywood County Recreation and Parks Department also offers low-cost courses and guided tours related to Birding, Fly Fishing, Hiking and Land Navigation. The Canton Recreation Park is located 1.78 miles to the southeast, approximately 5 mins away by car. The River's Edge Park is located 1.70 miles to the west-southwest, approximately 7 mins away by car. Based on the information obtained, the design of the neighborhood itself, combined with the various parks, open space and recreation facilities located within reasonable proximity offer adequate opportunities for both passive and active recreation and have sufficient capacity to meet the needs of the future residents of the property; therefore, no impacts are anticipated.
Transportation and Accessibility	2	The primary mode of transportation in both Beaverdam Township and Haywood County is automotive, with fewer than 6% of Beaverdam Township residents and fewer than 3% of Haywood County residents using pedal modes of transportation (walk, bicycle) to commute to work. Haywood Public Transit offers a variety of transportation services in Haywood County to assist human services agencies, the elderly, persons with disabilities, and the general public. Services include fixed, daily bus routes, paratransit services, demand response services, emergency management transportation, services for the elderly and poor-weather pickups. The Black Bear bus route is a 1-hour loop that operates from 7am to 5pm M-F with more than a dozen stops around Canton and Clyde providing access to a wide variety of commercial establishments and well as health and public facilities. The project design incorporates vehicle parking on each single-family lot as well as sidewalks and pavement markings to

		accommodate vehicles and pedestrians and facilitate the safe movement of both throughout the neighborhood. Based on the information obtained, the project will provide adequate parking and access to public transportation services with more than sufficient capacity to meet the needs of the future residents of the property (including the elderly and disabled persons); therefore, no impacts are anticipated.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	Haywood County is located in the Blue Ridge Mountains of Western North Carolina. The Blue Ridge Mountains are protected by a vast network of national parks, national forests, wilderness preserves, conservation areas, and state parks spanning Virginia, North Carolina, Tennessee, and Georgia. These reserves safeguard millions of acres of rich biodiversity, hiking trails, and scenic vistas along the Appalachian spine. The subject property is not within or adjacent to any of these restricted areas and therefore, is not anticipated to impact this unique natural feature.
Vegetation, Wildlife	2	The North Carolina Wildlife Resource Commission (NCWRC), was consulted on May 1, 2026, regarding the State Endangered Species Program (see attached). The letter requested comments and feedback on the proposed activities as well as any concerns regarding the proposed project with respect to protected species and natural resources. In a response dated May 14, 2026 (see attached), the NCWRC stated, "Biologists with the North Carolina Wildlife Resources Commission (NCWRC) have reviewed the documents associated with the Harkins Avenue Subdivision development in West Canton, Haywood County. Our comments are provided in accordance with certain provisions of the N.C. Environmental Policy Act (G.S. 113A-1 through 113A-10; 1 NCAC 25) and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.). […] Given the scope of the project, we do not anticipate the need to consult with NCWRC any further. There are no NCWRC permits that would be needed. In regard to your request for feedback on the proposed activities and concerns with respect to the state "Endangered Species Program", we offer the following: 1. We are unaware of any records for listed species or significant natural areas withing 1 mile of the project boundaries. 2. We support the use of a parcel within an existing developed area rather than developing a subdivision in a rural area. This minimizes impacts to undisturbed wildlife habitats, minimizes

		habitat fragmentation, and consolidates development in areas with existing utilities." The letter also recommended the incorporation of Low Impact Development (LID) technologies as noted in the relevant resource reviews and the mitigation measures section of the environmental review. Additionally, the North Carolina Natural Heritage Program (NCNHP) gathers and shares information about rare species and natural communities. With the implementation all BMPs associated with applicable federal and/or state permits during construction to minimize potential impacts to the natural environment, the proposed activities are anticipated to be consistent with the North Carolina Natural Heritage Program's mission to conserve, protect and enhance fish, wildlife, plants and their habitats, and no further consultation or permitting is anticipated to be necessary. A solicitation of views was submitted to the NCNHP on May 1, 2026 (see attached), seeking comments and feedback on the proposed activities as well as any concerns regarding the proposed project with respect to protected species and Natural Heritage resources. In a response received May 4, 2026 (see attached), the NCNHP recommended generating a report using the Natural Heritage Data Explorer to identify natural heritage resources that may be impacted by the proposed project. The Natural Heritage Data Explorer report is attached. Based on the report generated, "a query of the NCNHP database indicates that there are no records for rare species, important natural communities, natural areas, and/or conservation/managed areas within the proposed project boundary"; however the report also states, "The attached 'Potential Occurrences' table summarizes rare species and natural communities that have been documented within a one-mile radius of the property boundary. The proximity of these records suggests that these natural heritage elements may potentially be present in the project area if suitable habitat exists." Of the five (5) species listed, there is no suitable habitat on the subject property for four (4) of the species: Olive Darter (*Percina squamata*), Grey Bat (*Myotis grisescens*) Virginia Stickseed (*Hackelia virginiana*) and Lanceleaf Scurfpea (*Orbexilum onobrychis*). Although the Least Weasel (*Mustela nivalis*) was not observed and there were no indications of its presence on site, because suitable habitat may exist and a juvenile specimen was recovered in nearby Clyde, NC, contractors will be provided with the attached informational brochure and photos and advised to contact the NCNHP in the event that rare species are found within the project area. Because some rare species are subject to poaching or other forms of exploitation, locational data and other information

		may be redacted to ensure the security of sensitive data and to avoid the unnecessary release of precise locations of element occurrences. Per NCNHP terms and conditions, locations of sensitive species shall not be disclosed in public documents or meetings without explicit permission from NCNHP and appropriate regulatory agencies. If the project area, location, or type of project changes, the project should be resubmitted to receive updated information for the revised project. If additional information becomes available, the review may need to be reconsidered. The NCNHP recommends that projects be resubmitted for review if one year has passed since the most recent review; the review generated from the Natural Heritage Data Explorer (NHDE) website will expire after one year. Based on the information obtained, therefore, no impacts to rare or protected wildlife or vegetation are anticipated.
Other Factors	N/A	No other factors were identified for review.

Environmental Assessment Factor	Impact Code	Impact Evaluation
ENERGY		
Energy Efficiency	2	The homes built as part of the proposed development project will comply with applicable energy efficiency standards as required by HUD, local building codes, and/or Program requirements. Based on the project being designed to meet current energy efficiency standards, no impact is anticipated.

Additional Studies Performed:

Bunnell-Lammons Engineering, Inc. (BLE). (2025, October 14). Phase I Environmental Site Assessment (ASTM E 1527-21): Harkins Avenue, West Canton, Haywood County, North Carolina. (BLE Project No. 21-16546-02). Fletcher, North Carolina.

McGill Associates, P.A. (2021, July 20). Phase I Environmental Site Assessment (ASTM E 1527-13): Harkins Avenue Property, Haywood County, North Carolina. (Project No. 21.00139). Hickory, North Carolina.

Bunnell-Lammons Engineering, Inc. (BLE). (2021, July 26). Preliminary Geotechnical Exploration Report (ASTM D-1586): Harkins Avenue Property (Haywood County Parcel #8647-83-7739), West Canton, North Carolina. (BLE Project No. J21-16456-0l). Fletcher, North Carolina.

Field Inspection (Date and completed by)**:**

BLE performed site reconnaissance on September 24, 2025, pursuant to ASTM E 1527-21 standards.

McGill Associates, P.A. performed site reconnaissance on July 9, 2021, pursuant to ASTM E 1527-13 standards.

List of Sources, Agencies and Persons Consulted:

Blue Ridge National Heritage Area https://www.blueridgeheritage.com/about/

Town of Canton NC https://www.cantonnc.com/

Town of Clyde NC https://www.clydenc.us/

Google Maps google.com/maps

Haywood County NC Community and Economic Development
https://www.haywoodcountync.gov/821/Community-Economic-Development

Haywood County Emergency Management https://readyhaywood.com/

Haywood County Emergency Medical Services
https://www.haywoodcountync.gov/194/Emergency-Medical-Services

Haywood County GIS https://maps.haywoodcountync.gov/

Haywood County Government https://www.haywoodcountync.gov/

Haywood County NC Health & Human Services Agency
https://www.haywoodcountync.gov/800/Health-Human-Services

Haywood County Schools https://www.haywood.k12.nc.us/

Haywood County Sheriff's Office https://www.haywoodncsheriff.com/

Haywood County Waste Services https://www.haywoodcountywasteservices.com/

North Carolina Office of Administrative Hearings (NCAC) http://reports.oah.state.nc.us/ncac.asp

North Carolina Department of Agriculture and Consumer Services
https://www.ncagr.gov/divisions/standards/standards-lp-gasNorth

North Carolina Natural Heritage Program. Natural Heritage Data Explorer
https://ncnhde.natureserve.org/. NCDNCR, Raleigh, NC. Available at www.ncnhp.org.
(Accessed: July 13, 2026)

List of Permits Obtained:

To date, no permits have been issued for the proposed project.

Public Outreach [24 CFR 58.43]**:**

Upon completion of this environmental assessment, the public will be informed of DCR's findings related to the proposed action by publication of a combined Notice of Finding of No Significant Impact (FONSI) consistent with 24 CFR 58.43 and Notice of Intent to Request Release of Funds (NOI-RROF) and given an opportunity to comment and/or object to the release of funds. Should any comments or objections be received, they will be appropriately considered and addressed prior to submitting a request to HUD.

Cumulative Impact Analysis [24 CFR 58.32]**:**

Following the review of the project in accordance with the National Environmental Policy Act (NEPA) and the related laws and authorities under 24 CFR Part 58, the project was found to have potential impacts to wetlands, federally listed species and rare state species; however, in consultation with state and federal regulatory authorities, BMPs and mitigation strategies were developed to minimize and avoid potential adverse impacts. Therefore, the proposed single-family housing development is not anticipated to have significant adverse impacts on the human or natural environment. All potential environmental impacts will be avoided or mitigated to the extent practicable, and project implementation will help to further the goal of providing much needed safe and affordable housing in the West Canton community of Haywood County.

Alternatives [24 CFR 58.40(e)]

Alternative 1 – Locate the project outside of wetlands at an alternative site. Identifying a viable new site would involve significant logistical challenges and costs, including land acquisition and modifications to infrastructure and utilities. Additionally, the selected location must meet the Program's national objective criteria and be feasible in terms of cost and constructability to achieve the Program's affordability and performance objectives. While identifying a site outside of wetlands may be practicable, given the limited extent and type of wetlands to be impacted by this project, relocating the entirety of the project outside of wetlands would have a very minimal benefit in terms of protecting and preserving wetlands. Construction in a different location may require additional infrastructure work to connect to existing utility systems, which may be cost-prohibitive and could unnecessarily impede efforts to increase the stock of safe affordable housing in this community. Therefore, this alternative was rejected.

Alternative 2 – Evaluate alternative design(s) to limit impacts to the wetlands. One of the design alternatives considered was the construction of twenty-three (23) single family homes in a different configuration on the subject property. The design incorporated a stormwater management system

fully contained within the property and consisted of a series of stormwater control structures designed to collect, store and manage stormwater onsite without the need to construct a detention basin. As a result, work within the wetland was limited to construction of the access road and utility connections in the southwest corner of the property. While this design allowed for additional houses on the southern side of the lot (compared to the current layout) with less infringement on wetlands, it also restricted the size and efficacy of planned stormwater control measures. This alternative design would add additional housing at the cost of increasing the strain on the already overburdened drainage system. Based on the historic drainage issues and periodic flooding episodes in the adjacent neighborhood, any increase in stormwater without making improvements to the existing drainage system is likely to adversely impact the surrounding community. Therefore, this alternative design was rejected.

No Action Alternative [24 CFR 58.40(e)]:

The alternative to not approve any action, essentially a "No Action" alternative means that the proposed project would not be implemented, and additional housing would not be constructed. Following extensive damage from Tropical Storm Fred in 2021, affordable housing has become a scarce commodity in this area of Haywood County. This alternative would fail to address the need for safe and affordable housing in the West Canton area, which currently has insufficient stock of housing. As the "No Action" Alternative does not provide a solution to the housing crisis, this alternative does not provide any benefit and was therefore rejected.

Summary of Findings and Conclusions:

The findings of this environmental assessment indicate that the proposed project is not likely to have a detrimental impact on natural resources or the built environment. Potentially adverse impacts will be mitigated by incorporating the identified avoidance and minimization measures and best management practices into the scope of the project, obtaining all required federal, state and local permits and approvals, and complying with all associated conditions and requirements. Based on the implementation of these mitigating measures, the proposed project will not have a significant impact on the quality of the human environment. The applicant shall comply with any measures and conditions in order to maintain compliance with all the related laws and authorities set forth in 24 CFR 58.5 and 58.6.

Mitigation Measures and Conditions

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
Historic Preservation	The Catawba are to be notified if Native American artifacts and/or human remains are located during the ground disturbance phase of this project. Whenever possible, human interments should not be photographed and should be left in situ, unstudied, and protected from current and future disturbance. If these parameters cannot be met, and human remains, funerary objects, sacred objects, or objects of cultural patrimony are encountered, no photographs of such items shall be taken and the *EBCI Treatment Guidelines for Human Remains and Funerary Objects* (see attached) must be strictly adhered to. In the event another Tribal response is received following completion of the environmental review which brings to light new data, circumstances or environmental conditions which may affect the project or have a bearing on its impact, DCR will evaluate the new information and, as necessary, re-evaluate these environmental findings in accordance with 24 CFR 58.47.
Endangered Species Act	The eastern hellbender (Cryptobranchus alleganiensis alleganiensis), monarch butterfly (Danaus plexippus), and tricolored bat (Perimyotis subflavus) are proposed for listing as threatened or endangered but are not currently listed and therefore are not afforded the same level of protection under the Act. Should these species become listed in the future, reinitiation of consultation may be required. Onsite work must stop until potential impacts are re-evaluated and, if required, consultation with the Service is complete. Obligations under section 7 of the Act related to federally listed species, the Indiana Bat, must be reconsidered if: (1) new information reveals impacts of the identified action may affect listed species or critical habitat in a manner not previously considered, (2) the identified action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed or critical habitat is determined that may be affected by the identified action. The proposed project must comply with the following avoidance and minimization measures, BMPs and conditional requirements: The proposed project will not involve the broad application of pesticides or herbicides. Additionally, project proponents are encouraged to educate future homeowners about protected species and their habitats and ways to avoid or minimize impacts to the natural environment.

	Documentation related to avoidance, minimization or other measures employed during project implementation demonstrating compliance with Section 7 of the ESA must be included in the project file at or prior to project closeout.
Contamination and Hazardous Materials	As a best practice, the project will incorporate radon resistant new construction (RRNC) materials and techniques to the extent practicable. Any wells proposed for human use or consumption on the subject property must be tested by a NC Department of Health and Human Services approved facility prior to use. During the project, every practicable effort will be made to minimize the generation of waste, to recycle materials for which viable markets exist, and to use recycled products and materials in the development of this project where suitable. Any waste generated by this project that cannot be beneficially reused or recycled will be disposed of at a solid waste management facility approved to manage the respective waste type. Contractors are strongly encouraged to provide proof of proper disposal for all waste generated as part of the project. A list of permitted solid waste management facilities is available on the Solid Waste Section portal site at: Solid Waste Facility List. (https://deq.nc.gov/about/divisions/waste-management/solid-waste-section/solid-waste-permitted-facility-information-and-guidance/solid-waste-facility-lists). Notification should be sent to the DEQ (UST Section) if orphan USTs are discovered during any excavation operation.
Wetlands / Water Quality	The project will incorporate Low Impact Development (LID) technologies as practicable into the design and construction of the subdivision and residences to help mitigate some of the stormwater runoff resulting from increased impervious surfaces. As necessary, the project will include an erosion and sedimentation control plan filed with the Regional Land and Quality section office a minimum of 30 days prior to beginning of construction activities as part of a NPDES construction stormwater permit. The plan will be in accordance with all state and local approved stormwater program. As required for impacts to jurisdictional streams or wetlands, a Section 404 permit from the US Army Corps of Engineers and corresponding Section 401 Water Quality Certification from the Division of Water Resources will be obtained. Regardless of permitting requirements, all activities will be conducted in compliance with North Carolina Surface Water and Wetland Standards found in 15A NCAC 02B.0200 and .0231, including adherence to turbidity standards. Appropriate best management practices will be employed when working around streams and wetlands to ensure compliance with the standards. Copies of all permits, certifications and approvals, and documentation related to avoidance, minimization or other measures employed during project implementation to demonstrate compliance with EO 11990 must be included within the project file during or prior to, project closeout. The project will implement all BMPs associated with applicable federal and/or state permits during construction to minimize sedimentation in streams. The proposed project will not involve broadly applying pesticides or herbicides.

Public Safety - Police, Fire and Emergency Medical	The final approved/permitted design shall ensure the road width, cul-de-sac radius and quantity/placement of fire hydrants meet local code requirements and are adequate to accommodate firetrucks and facilitate effective firefighting response to ensure the safety of residents.
Hazards and Nuisances	During construction, temporary fencing and other barriers shall be employed as necessary to prevent individuals from gaining access to heavy equipment, active construction sites or unstable terrain, that may cause serious harm or injury. Noise will be mitigated to the extent practicable with BMPs, including restricting construction activities to daylight hours and complying with Haywood County Code of Ordinances, Title IX, Chapter 95: Noise Control.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	A complete geotechnical study including supplemental subsurface exploration (more borings and/or test pits, further engineering evaluation, and laboratory testing), and additional analysis to guide engineers during final foundation design and determine more specific site preparation procedures is recommended prior to the start of site work. The project will incorporate Low Impact Development (LID) technologies into the design and construction of the subdivision and residences to mitigate some of the stormwater runoff resulting from increased impervious surfaces. If annexed into the Town of Canton, the Keith Street Stormwater Improvements Plans must be submitted to the Town of Canton for approval/permitting, as required. The project is subject to compliance with the applicable requirements of the Sedimentation Pollution Control Act of 1973, Haywood County's Sedimentation and Erosion Control Program, NPDES Stormwater Program, State Stormwater Permitting Programs, Section 404 permitting from the US Army Corps of Engineers, Section 401 Water Quality Certification from DWR, North Carolina Surface Water and Wetland Standards.
Solid Waste Disposal - Recycling	Construction debris will be minimized to the extent practicable, and any remaining debris will be recycled, reused or disposed of in a properly permitted landfill, in accordance with local, state and federal requirements.
Waste Water and Sanitary Sewers	Depending on the wastewater disposal method, a sewer extension permit, or other waste disposal permit may be required from the Division of Water Resources.
Water Supply	Plans and specifications for the construction, expansion, or alteration of a public water system must be approved by the Division of Water Resources/Public Water Supply Section prior to the award of a contract or the initiation of construction as per 15A NCAC 18C .0300 et. seq., Plans and specifications should be submitted to 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. All public water supply systems must comply with state and federal drinking water monitoring requirements. For more information, contact the Public Water Supply Section, (919) 707-9100. If existing water lines will be relocated during the construction, plans for the water line relocation must be submitted to the Division of Water Resources/Public Water Supply Section at 1634 Mail Service Center, Raleigh, North Carolina 27699- 1634. For more information, contact the Public Water Supply Section, (919) 707-9100.

Natural Features	In the event a Least Weasel (Mustela nivalis) or any other rare species are found within the project area, contact the NCNHP. If the project area, location, or type of project changes, the project should be resubmitted to receive updated information for the revised project. If additional information becomes available, the review may need to be reconsidered. The NCNHP recommends that projects be resubmitted for review if one year has passed since the most recent review; the review generated from the NHDE website will expire after one year.

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1)]
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2)]
The project may significantly affect the quality of the human environment.

Preparer Signature: Daniel Herrera Date: 7/23/26

:

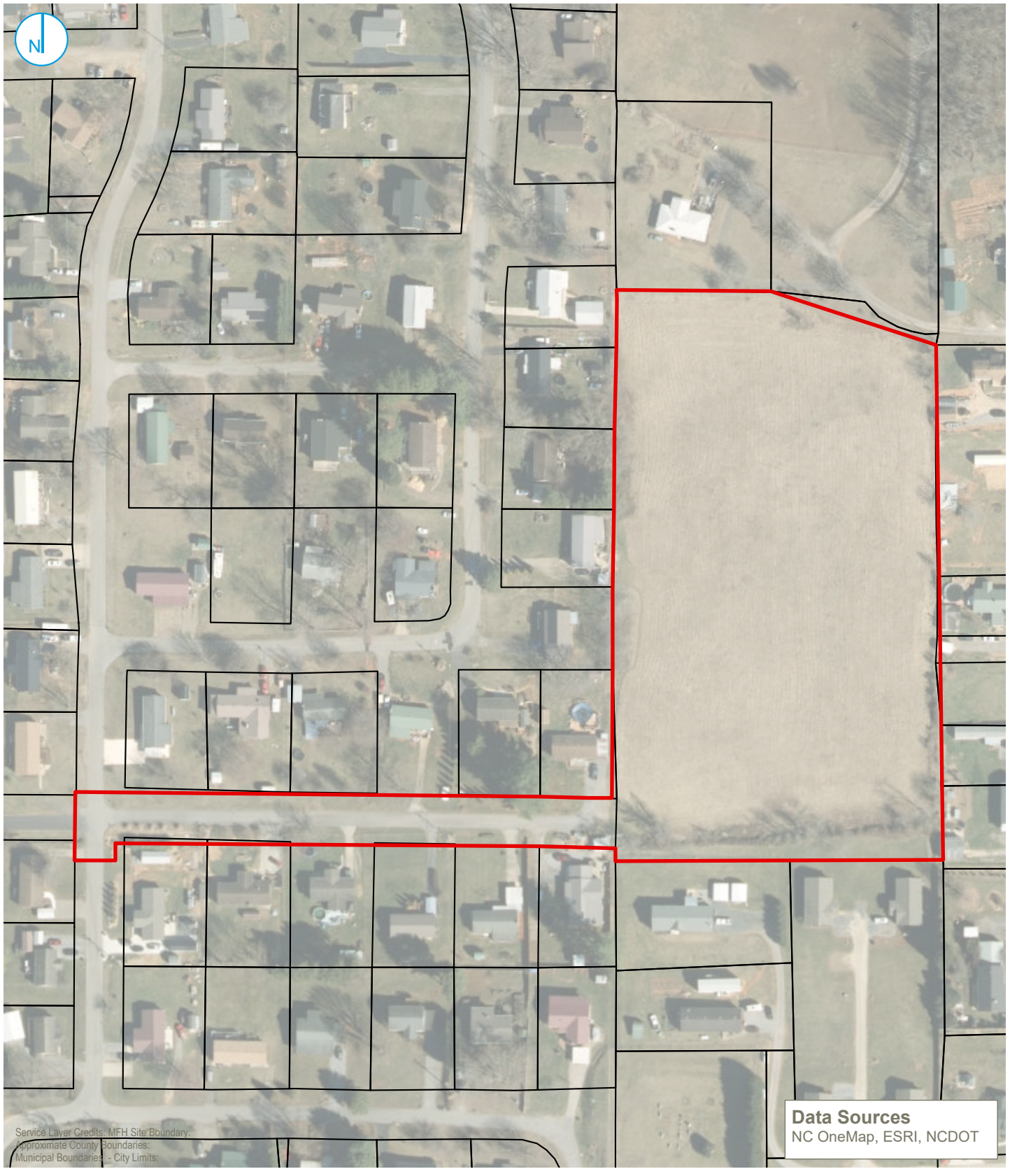
Name/Title/Organization: Daniel Herrera Environmental Program Manager Department of Commerce

Certifying Officer Signature: Stephanie McGarrah Date: 7/23/26

Name/Title: Deputy Secretary Department of Commerce

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

Project Location



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 01 - Site Location

PROJECT: 1690000XXXX | DATED: 4/15/2026 | DESIGNER: ATAYLOR

Map Scale: 1:2,400 | Map Center: 82°52'19"W 35°32'23"N

KEY MAP (not to scale)

- Approximate Site Boundary
- Approximate County Boundaries
- Municipal Boundaries - City Limits
- Parcel Boundaries

0 100 200 Feet

SITE LOCATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

Property Record / Deed

MOUNTAIN PROJECTS INC	HARKINS AVE	Tax Year:2026 Valuation Year:2021 ID:2765982 Group:0	6/17/2026 3:27:53 PM Page 1 of 1

ACCT	TOWNSHIP	PIN #	TAX CODES
40597	02-BEAVERDAM	8647-83-7739	F01

SALE DATE	SALE PRICE	VALID	BOOK/PAGE	DATE APP	BY	PREVIOUS VALUE	
09/28/2021	300000		1043/1001	07/31/2020	EDS	LAND	0

NEIGHBORHOOD	LAND MODEL	ACRES		
02R008		5.9700	BUILDINGS	0
			TOTAL	0

MTHD	TYPE	ACR/ SQFT	RD	CODE / ADJUSTMENT	PUV	APPRAISED VALUE	DEFERRED	USE VALUE	EX
AC	OP	5.460	P			41,000			
AC	WD	0.510	P			3,800			

GENERAL REMARKS

METHOD		DESCRIPTION		BUILDING DEPRECIATION						% COMPLETE	USE	TOTAL BUILDING VALUE
SECTIONS		REMARKS		PHYS		FUNC			ECONOMIC			
# ROOMS				FEATURES					REPLACEMENT VALUE			Tax Exempt
												Charitable Low or Moderate

TYPE	AREA	OCC	WL HGT	STORIES	EXT WALL	BASEMENT	BSMT% FINSHD	RECRM% FINSHD	FUS	UUS	ATTIC	BED	BATH	FIREPLACE OPEN/STACK	HEAT	AIR	SPRNKLR	PERIMETR	GRADE	YR BLT	EFF AGE	CDU	DESIGN	PHY DEP	FUNC DEP	MKT FAC	REP VALUE	DEP TAX VALUE

MTHD	TYPE	% CMPLT	COUNT	WIDTH	LNGTH	AREA	STORIES	EXT WALL	AIR	HEAT	GRADE	YR BLT	EFF AGE	CDU	FUNC DEP	ECONOMIC DEPR.	TAX VALUE	REMARKS

Haywood County - Property Record Card

APPRAISED VALUE SUMMARY		USE VALUE SUMMARY		TOTAL TAX VALUE
LAND	BUILDING	LAND	BUILDING	
44,800	0			44,800

NOT REVIEW FOR TAX LISTING

DATE 09/28/2021

2021012001
HAYWOOD CO, NC FEE $26.00
STATE OF NC REAL ESTATE EXTX
$600.00
PRESENTED & RECORDED:
09-28-2021 01:14:32 PM
SHERRI C. ROGERS
REGISTER OF DEEDS
BY: HAVEN MUSE
DEPUTY
BK: RB 1043
PG: 1001-1003

Drafted by:
PAVEY LAW FIRM, P.A.
Attorney & Counselor at Law
33 Dillsboro Road
Sylva, North Carolina 28779

Delinquent taxes, if any, to be paid by the closing attorney to the county tax collector upon disbursement of closing proceeds.

Brief Description for index:
PIN# 8647-83-7739, 5.97 +/- acres
Beaverdam Township, Haywood County, NC

Revenue $600.00

NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this the 27 day of September, 2021, by and between, **TIFFANY MELISSA WARREN, divorced and un-remarried**, of P.O. Box 402, Lake Junaluska, North Carolina 28745 (hereinafter referred to as "Grantor"); and **MOUNTAIN PROJECTS, INC., a North Carolina Non-Profit Corporation**, of 2177 Asheville Road, Waynesville, North Carolina 28786 (hereinafter referred to as "Grantee").

WITNESSETH

The Grantor, for good and valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has, and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all of that certain lot or parcel of land situated in Beaverdam Township, Haywood County, North Carolina, and more particularly described as follows:

BEING AND COMPREHENDING a tract of land more particularly described on the attached **Exhibit "A"**, to which reference is hereby made and is fully incorporated herein.

AND BEING the same and premises lands and premises described and conveyed unto the Grantor herein by deed recorded in Book 895, Page 1456, Haywood County Public Registry.

This conveyance is made subject to the lien for ad valorem taxes for the current year and all easements, restrictions and conditions of record and affecting said property.

All or a portion of the property herein conveyed does not include the primary residence of the Grantor.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions noted herein.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors and assigns, and shall include the singular, plural, masculine, feminine or neuter as required by context.

IN WITNESS WHEREOF, the Grantor has hereunto set her hand and seal the day and year first written above.

Tiffany Melissa Warren (SEAL)
TIFFANY MELISSA WARREN

STATE OF North Carolina

COUNTY OF Jackson

I, Ashley Bonds, a Notary Public of the State of North Carolina, County of Jackson, do certify that before me personally appeared **TIFFANY MELISSA WARREN, divorced and unremarried**, Grantor, personally known to me, or who proved to me by satisfactory evidence (NC DL), to be the person who signed the preceding or attached record and acknowledged to me that she signed it voluntarily for its stated purpose.

Witness my hand and official seal, this the 27 day of September, 2021.

(Official Seal)

ASHLEY BONDS
Notary Public
North Carolina
Jackson County

Ashley Bonds
(Signature of Notary Public)

My Commission Expires: 9/10/2024

GENERAL WARRANTY DEED

EXHIBIT "A"

TIFFANY MELISSA WARREN, DIVORCED AND UN-REMARRIED

TO

MOUNTAIN PROJECTS, INC., a North Carolina Non-Profit Corporation

BEGINNING on a stake in the outside boundary line, said stake being the Southwest corner of a parcel of land deeded to James R. Stinnett (DB 243/117) and runs thence South 00 deg. 30 min. West 664 feet to a stake, corner of a tract of land conveyed to Robert A. Stinnett; thence East 400 feet to a stake in the outside boundary line; thence North 00 deg. 15 min. East 586 feet to a stake in the South margin of a driveway leading to James R. Stinnett's residence; thence with the South margin of said driveway, North 71 deg. 35 min. West 214 feet to a stake; thence West 190 feet to a stake, the BEGINNING POINT, containing 6.04 acres, more or less.

AND BEING the same lands and premises described and conveyed by deed dated March 18, 2015, from Kelly B. Warren, to Tiffany Melissa Warren, recorded in Book 895, Page 1456, Haywood County Public Registry.

This instrument is made and given SUBJECT TO all utility easements, rights of ways, facts and matters of record.

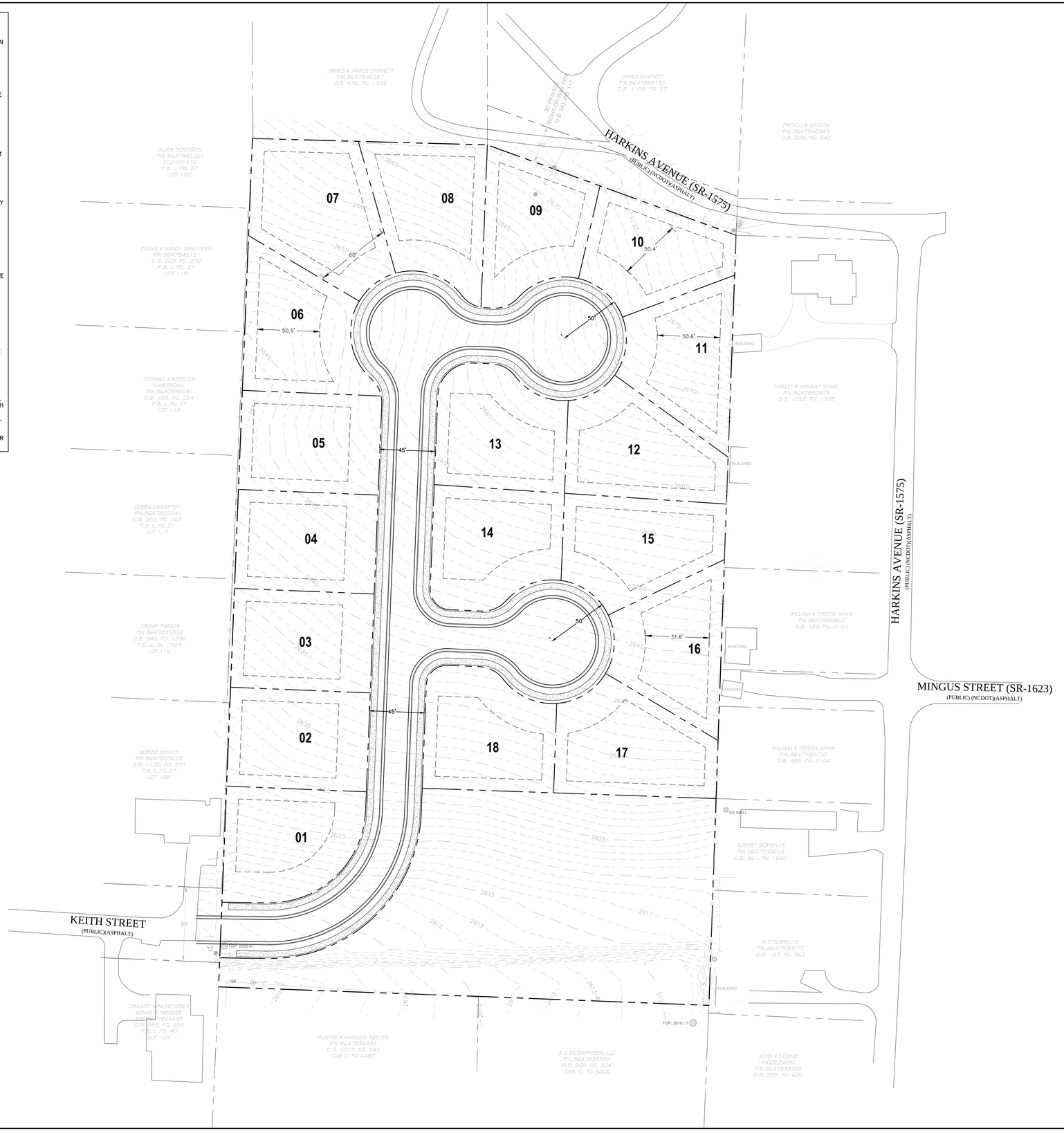
This instrument is made and given SUBJECT TO an Easement conveyed unto Carolina Power & Light Company, recorded in Book 482, Page 1830, Haywood County Public Registry.

This instrument is made and given SUBJECT TO an Easement Agreement conveyed unto West Canton Water and Sewer District, recorded in Book 586, Page 755, Haywood County Public Registry.

Project Plans / Budget

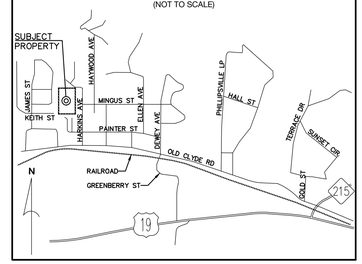
SITE NOTES

1. ALL SITEWORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS AND ALL REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
2. SINGLE-PHASE CONSTRUCTION.
3. ALL WORK MUST BE PERFORMED BY A **NORTH CAROLINA** LICENSED CONTRACTOR.
4. TO SCHEDULE THE REQUIRED INSPECTIONS ON ALL WORK, CALL THE CIVIL DESIGN CONCEPTS INSPECTIONS HOTLINE AT 828-771-4755, OR EMAIL AT INSPECTIONS@CDCGO.COM. FAILURE TO SCHEDULE INSPECTIONS MAY RESULT IN UNCOVERING OR REDOING WORK
5. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION. CONTACT ENGINEER TO CONFIRM IF ADDITIONAL PERMITS ARE NEEDED.
6. CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES (SHOWN TO REMAIN) AND NEWLY COMPLETED WORK DURING CONSTRUCTION. ANY DAMAGE INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY ULOCO AT 1-800-632-4949 OR 811, 72 HOURS BEFORE CONSTRUCTION BEGINS.
8. SIDEWALKS SHALL BE CONSTRUCTED IN ORDER TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. SIDEWALKS TO MEET ALL ADA/PROWAG STANDARDS. CONTRACTOR TO NOTIFY ENGINEER AFTER FORMING BUT PRIOR TO POURING SIDEWALK. ANY SIDEWALK/CROSSWALK NOT INSTALLED TO REQUIRED STANDARDS SHALL BE REMOVED AND REPLACED AT CONTRACTORS EXPENSE.
9. ALL RADII LISTED ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED. ALL PARKING LOT RADII ARE **4'** UNLESS OTHERWISE NOTED.
10. ALL ROAD/PARKING LOT IMPROVEMENTS, STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION AND THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). CONTRACTOR MAY USE A PAINT SUITABLE FOR ASPHALT APPLICATION IN LIEU OF THERMOPLASTIC WITH PRIOR APPROVAL FROM THE ENGINEER.
11. CURB AND GUTTER ON THE HIGH SIDE OF PAVED AREAS AND ROADS SHALL BE CONSTRUCTED WITH SPILLOUT CURB AND GUTTER. CURB AND GUTTER ON THE LOW SIDE SHALL BE CONSTRUCTED WITH STANDARD CURB AND GUTTER; REFER TO SPILLOUT CURB AND GUTTER DETAILS. CURB END TREATMENT SHALL BE APPLIED AT ALL CURB ENDS; REFER TO CURB END TREATMENT DETAIL.
12. PROPOSED ROADS TO BE **PRIVATE. NCDOT IS NOT** RESPONSIBLE FOR ANY ROAD MAINTENANCE.



VICINITY MAP

(NOT TO SCALE)



DEVELOPMENT DATA

OWNER/DEVELOPER:	MOUNTAIN PROJECTS, INC. 2177 ASHEVILLE RD WAYNESVILLE, NV 28786-3139
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 84 COXE AVE - STE 260 ASHEVILLE, NC 28801
CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

PROJECT DATA

PIN:	8647-83-7739
ADDRESS:	HARKINS AVE.
DEED BOOK/PAGE:	1043/1001
PROJECT ACREAGE:	5.97± ACRES
CURRENT ZONING:	N/A
PROPOSED ZONING:	R-1, SINGLE FAMILY

MINIMUM SETBACK FROM PROPERTY LINE:

FRONT:	25'
SIDES:	10'
REAR:	10'

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811 Know what's **below.** **Call** before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

84 COXE AVENUE - SUITE 260
ASHEVILLE, NC 28801
PHONE (828) 252-5388
FAX (828) 252-5365

52 WALNUT STREET - SUITE 9
WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036181 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXXX
XXX PERMIT NO. XXXX

SHEET

C201

HARKINS AVENUE (SR-1575)
(PUBLIC/ASPHALT)

JAMES STREET
(PUBLIC/ASPHALT)

KEITH STREET
(PUBLIC/ASPHALT)

PROPOSED STORMWATER PIPE (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

APPROXIMATE LOCATION OF
EXISTING STORM PIPE (TYP)

APPROXIMATE LOCATION OF
EXISTING STORM CULVERT (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

PROPOSED STORMWATER SYSTEM (TYP)

PROPOSED STORMWATER CONTROL MEASURE

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

CDC Civil Design Concepts, PA
NCBELS # C-2184

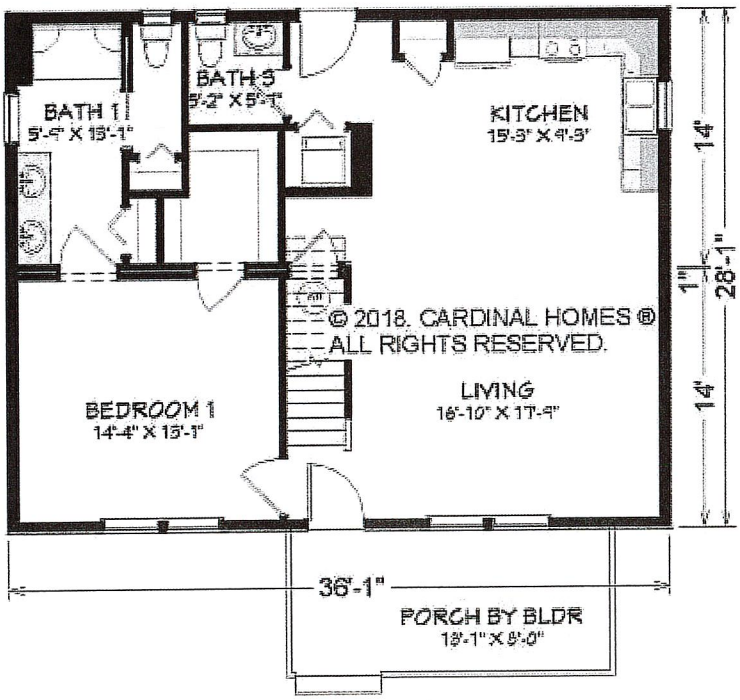
HARKINS AVE SUBDIVISION
CONCEPTUAL KIETH ST STORMWATER IMPROVEMENT
PROGRESS DRAWINGS DO NOT USE FOR CONSTRUCTION

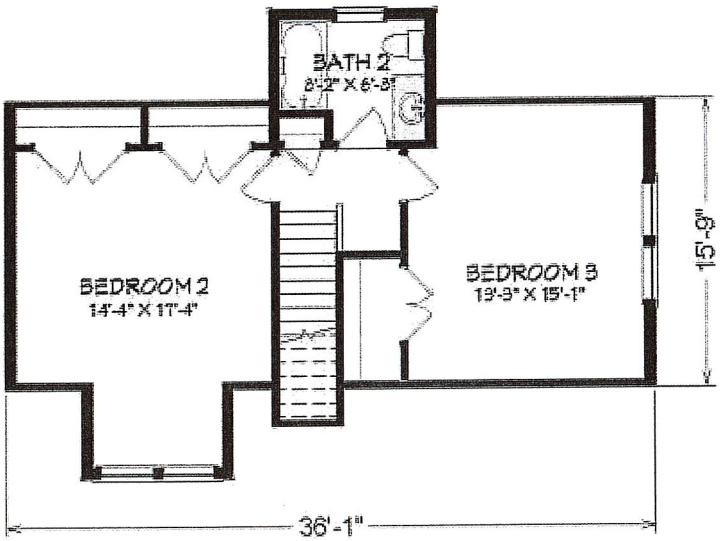
NORTH

CARDINAL HOMES®

Value Living Collection

GARLAND





1008 Sq. Ft. Lower Level
652 Sq. Ft. Second Level
36'-0" x 28'-0"
1660 Sq. Ft. Total

Optional decorative exterior features that are shown on renderings are not included in default pricing. Always refer to sales order for exact specifications and options.

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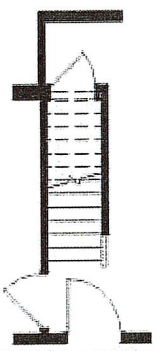
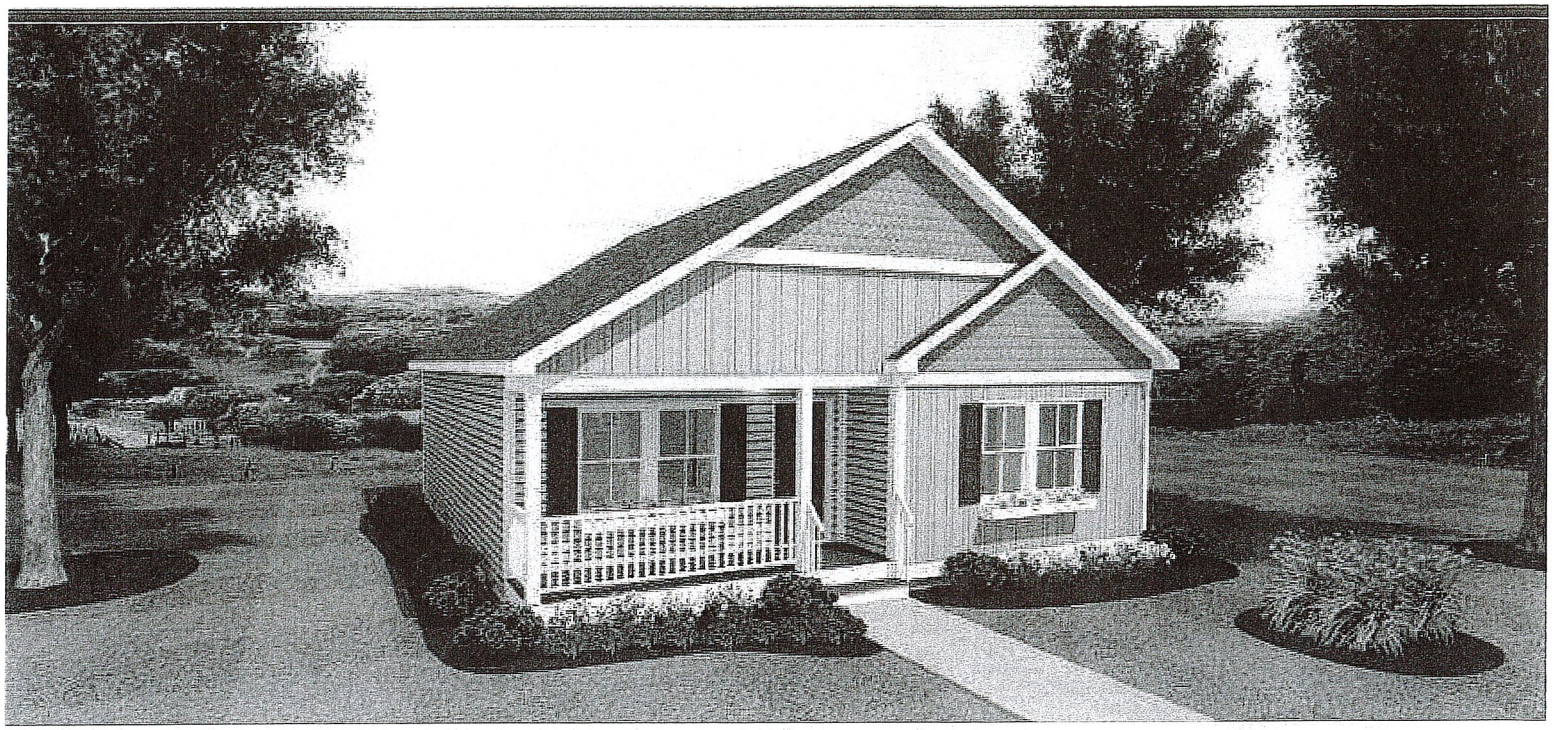
For more detailed information including dimensions refer to working drawings.



BASEMENT ALTERNATE

Cardinal Homes®
Kituwah Manufacturing, LLC
d/b/a Cardinal Homes®
525 Barnesville Highway
Wylliesburg, VA 23976
(434)735-8111
www.cardinalhomes.com



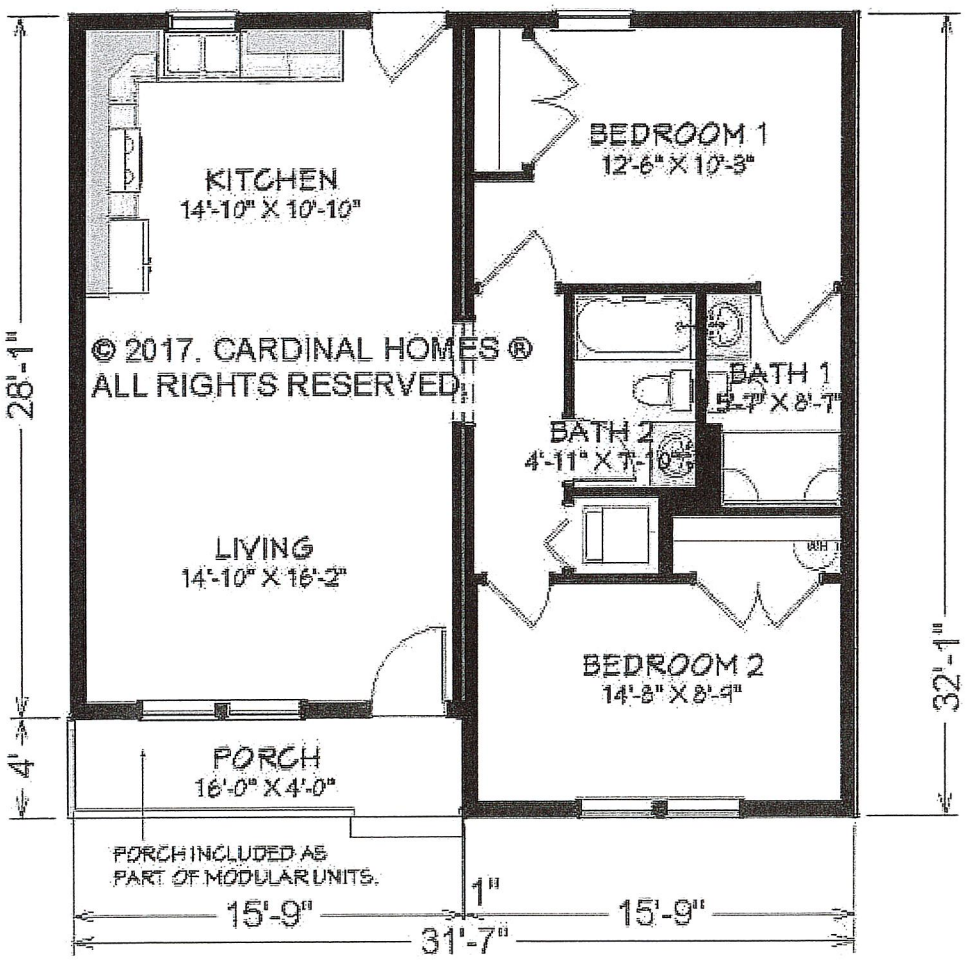
CARDINAL HOMES®

Tiny Living Collection

TIPTON

945 SQ. FT.
31'-6" X 32'-0"

Optional decorative exterior features that are shown on renderings are not included in default pricing. Always refer to sales order for exact specifications and options.



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Cardinal Homes®
Kituwah Manufacturing, LLC
d/b/a Cardinal Homes®
525 Barnesville Highway
Wylliesburg, VA 23976
(434)735-8111
www.cardinalhomes.com

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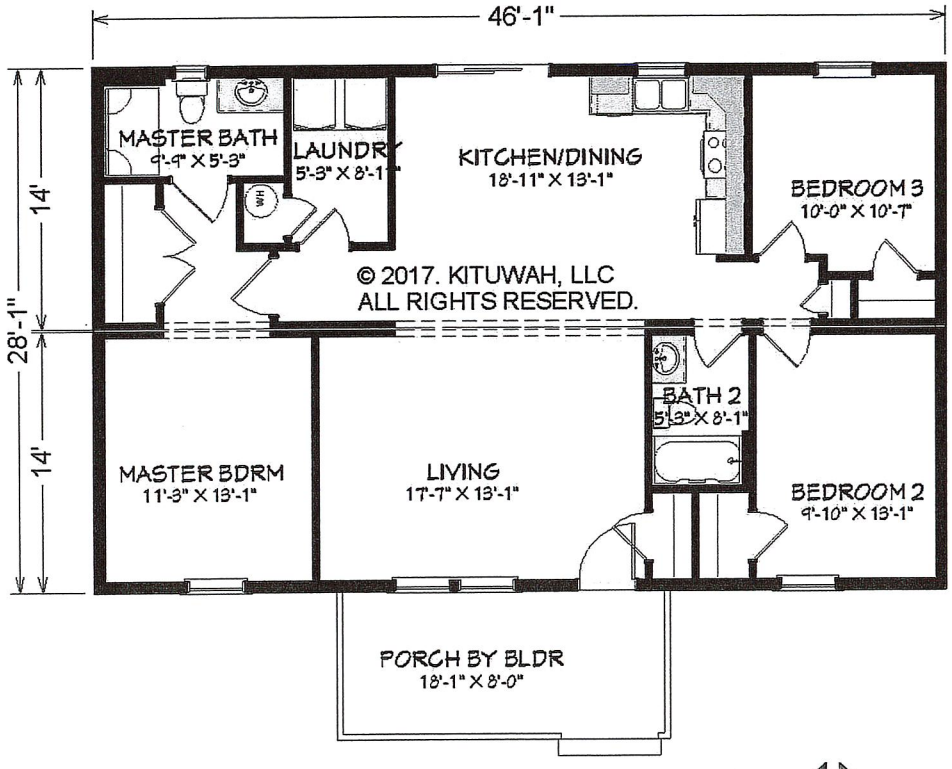
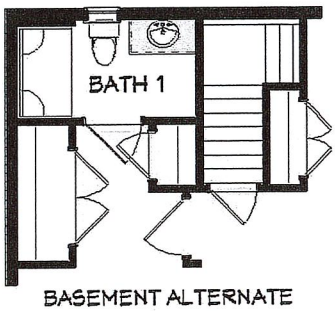
For more detailed information including dimensions refer to working drawings.

AVERY



1288 Sq. Ft.
46'-0" x 28'-0"



BASEMENT ALTERNATE

KITUWAH HOMES

For more detailed information including dimensions refer to working drawings. Decorative items may not be included in the default pricing, and customers should check with their builder for specifics.

559 Casino Trail, Whittier, NC 29789
1-888-522-8458 (1-888-KBBUILT)

NCBELS LICENSE #: C-2184

FEASIBILITY COST ESTIMATE
OFF-SITE STORM EXTENSION

ITEM #	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL AMOUNT
SITE, GRADING, & PAVING					
1	Mobilization/General Requirements	LS	1	$10,000	$10,000
2	Demolition	SY	1	$12,000	$12,000
3	Pavement (8"/2")	SY	1,440	$47	$67,680
				SUBTOTAL	**$89,680**
STORM DRAINAGE & EROSION CONTROL					
4	30" HDPE Stormwater Pipe	LF	1,150	$78	$89,700
5	Connection to Existing Storm	EA	2	$5,000	$10,000
6	Headwall	EA	3	$2,500	$7,500
7	Stormwater Structures	EA	7	$4,000	$28,000
				SUBTOTAL	**$135,200**
SUBTOTAL					**$224,880**
CONTINGENCY (25%)					**$56,220**
TOTAL					**$281,100**

NOTES:

1. This estimate is based off of the CDC bulletin: "HARKINS AVE SUBDIVISION - February 2026"; estimate costs listed were established on the date as noted above . Due to cost variations over time, this estimate is only valid for 30 days past the estimate date.

2. The ENGINEER maintains no control of labor costs, materials, equipment or services furnished by others, the Contractor(s)' methods for determining prices, or competitive or market conditions. The estimates herein for project and construction costs represent the ENGINEER'S best judgment, and are based on his experience and qualifications as a Professional Engineer who possesses familiarity with the construction industry. The ENGINEER does not guarantee the accuracy of the cost estimates, which may vary from bids or actual project and construction costs.

3. Soft Costs (ie. Engineering, Surveying, Legal, and Development Fees) are not included in the above estimate.

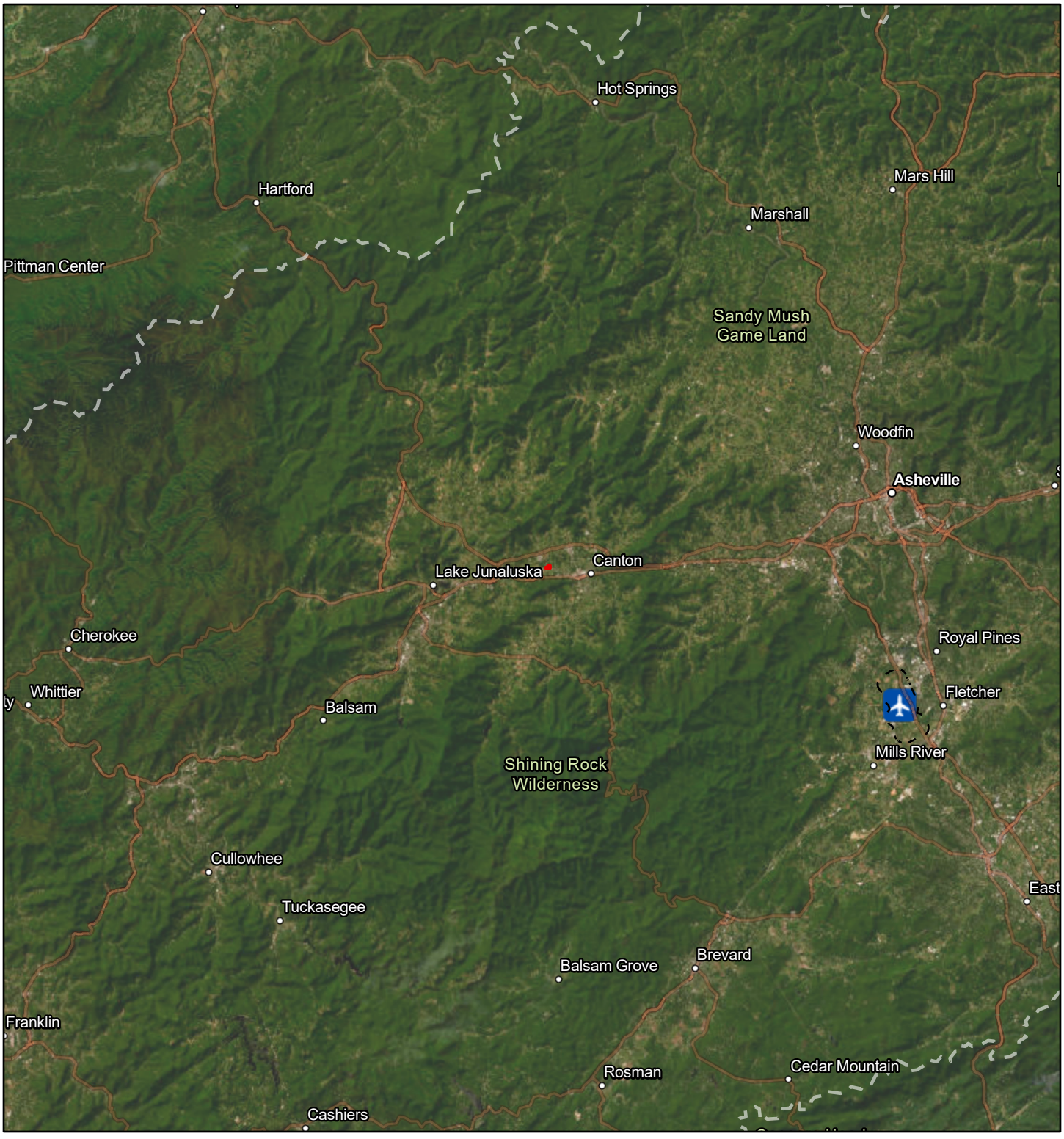
4. Asbestos survey and abatement costs (if necessary) are not included in the above estimate.

5. Dry utility costs (removal, relocation, coorindation, new services, etc) are not included in this estimate.

6. Utility and storm line quantities stop 5' from edge of buildings.

Airport Hazards

Airport Hazards | Harkins Ave



7/1/2026

- Project Site Boundary
- 2,500ft Buffer of Civil Airport
- 15,000ft Buffer of Military Airport
- Commercial Service
- Military Airport

1:577,791

0 4 8 16 mi

0 5 10 20 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Earthstar Geographics

Coastal Barrier Resources

An official website of the United States government Here's how you know

Coastal Barrier Resources System Units by County

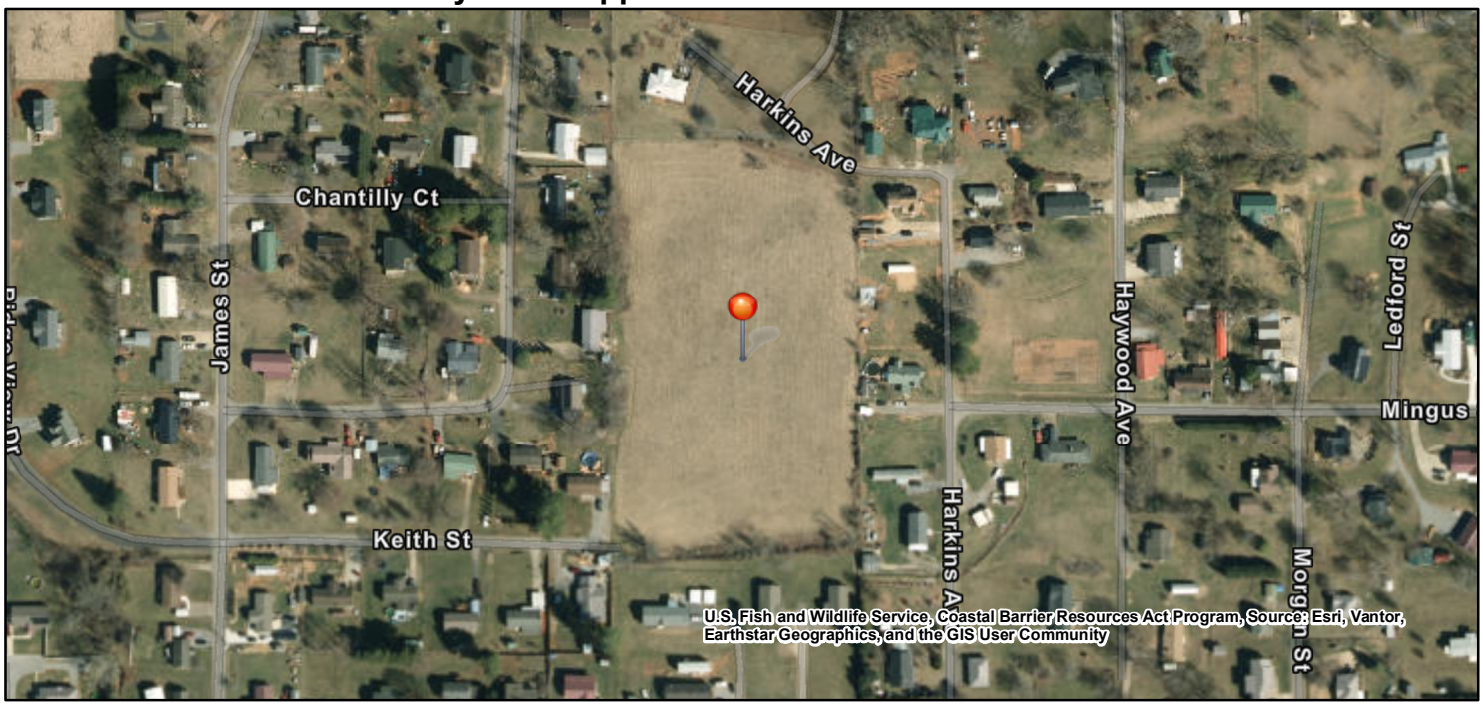
State	County	Unit Number	Unit Name
Alabama	Baldwin	AL-01P	Perdido Key
Alabama	Baldwin	AL-02P	Gulf Park
Alabama	Baldwin	AL-03	Skunk Bayou
Alabama	Baldwin	AL-04P	Cypress Point
Alabama	Mobile	AL-05P	Alligator Lake
Alabama	Baldwin	Q01	Mobile Point
Alabama	Mobile	Q01A	Pelican Island
Alabama	Baldwin	Q01P	Mobile Point
Alabama	Mobile	Q02	Dauphin Island
Alabama	Mobile	Q02P	Dauphin Island
Connecticut	New London	CT-01	Mason Island
Connecticut	New London	CT-02	Bluff Point
Connecticut	New London	CT-03	Old Black Point
Connecticut	New London	CT-04	Hatchett Point
Connecticut	New London	CT-05	Little Pond
Connecticut	New London	CT-06	Mile Creek

State	County	Unit Number	Unit Name
New York	Suffolk	NY-96P	Dennistown Bell Park
New York	Suffolk	NY-97P	Iron Point
North Carolina	Currituck	L01	Currituck Banks
North Carolina	Currituck	L01P	Currituck Banks
North Carolina	Dare	L03	Hatteras Island
North Carolina	Carteret	L03AP	Shackleford Banks
North Carolina	Onslow	L05	Onslow Beach Complex
North Carolina	Onslow	L06	Topsail
North Carolina	New Hanover, Pender	L07	Lea Island Complex
North Carolina	New Hanover	L08	Wrightsville Beach
North Carolina	New Hanover	L09	Masonboro Island
North Carolina	Brunswick	M01	Waites Island Complex
North Carolina	Currituck	NC-01	Pine Island Bay
North Carolina	Currituck	NC-01P	Pine Island Bay
North Carolina	Dare	NC-02	Nags Head Woods
North Carolina	Dare, Hyde, Carteret	NC-03P	Cape Hatteras
North Carolina	Carteret	NC-04P	Fort Macon
North Carolina	Carteret	NC-05P	Roosevelt Natural Area

State	County	Unit Number	Unit Name
North Carolina	Carteret, Onslow	NC-06P	Hammocks Beach
North Carolina	New Hanover, Brunswick	NC-07P	Cape Fear
Ohio	Lake	OH-01	Arcola Creek
Ohio	Lake	OH-02	Mentor
Ohio	Erie	OH-03	North Pond
Ohio	Erie	OH-04	Old Woman Creek
Ohio	Erie	OH-05	Sheldon Marsh
Ohio	Ottawa	OH-06	Bay Point
Ohio	Ottawa	OH-07	Middle Bass Island
Ohio	Ottawa	OH-08	North Bass Island
Ohio	Ottawa	OH-09	Fox Marsh
Ohio	Ottawa	OH-10	Toussaint River
Puerto Rico	Rio Grande	PR-02	Ensenada Comezon
Puerto Rico	Rio Grande, Luquillo	PR-03	Rio Mameyes
Puerto Rico	Luquillo	PR-04P	Punta la Bandera
Puerto Rico	Luquillo	PR-05	Luquillo Spit
Puerto Rico	Luquillo	PR-06	Juan Martin Spit
Puerto Rico	Fajardo	PR-07	Laguna Aquas Prietas

U.S. Fish and Wildlife Service

Coastal Barrier Resources System Mapper Documentation



CBRS Units

Otherwise Protected Area
System Unit
CBRS Buffer Zone
-82.87069, 35.539893

0 65 130 260 390 ft

1:4,514

The pin location displayed on the map is a point selected by the user. Failure of the user to ensure that the pin location displayed on this map correctly corresponds with the user supplied address/location description below may result in an invalid federal flood insurance policy. **The U.S. Fish and Wildlife Service (Service) has not validated the pin location with respect to the user supplied address/location description below. The Service recommends that all pin locations be verified by federal agencies prior to use of this map for the provision or denial of federal funding or financial assistance**. Please note that a structure bisected by the Coastal Barrier Resources System (CBRS) boundary (i.e., both "partially in" and "partially out") is within the CBRS and therefore affected by CBRA's restrictions on federal flood insurance. A pin placed on a bisected structure must be placed on the portion of the structure within the unit (including any attached features such as a deck or stairs).

User Name: Daniel Herrera
User Organization: North Carolina Department of Commerce, Division of Community Revitalization
User Supplied Address/Location Description: Harkins Avenue, Canton, NC 28716
Pin Location: Outside CBRS
Pin Flood Insurance Prohibition Date: N/A
Pin System Unit Establishment Date: N/A

The user placed pin location is not within the CBRS. The official CBRS maps are accessible at https://www.fws.gov/library/collections/official-coastal-barrier-resources-system-maps.

The CBRS information is derived directly from the CBRS web service provided by the Service. This map was exported on 6/17/2026 and does not reflect changes or amendments subsequent to this date. The CBRS boundaries on this map may become superseded by new boundaries over time.

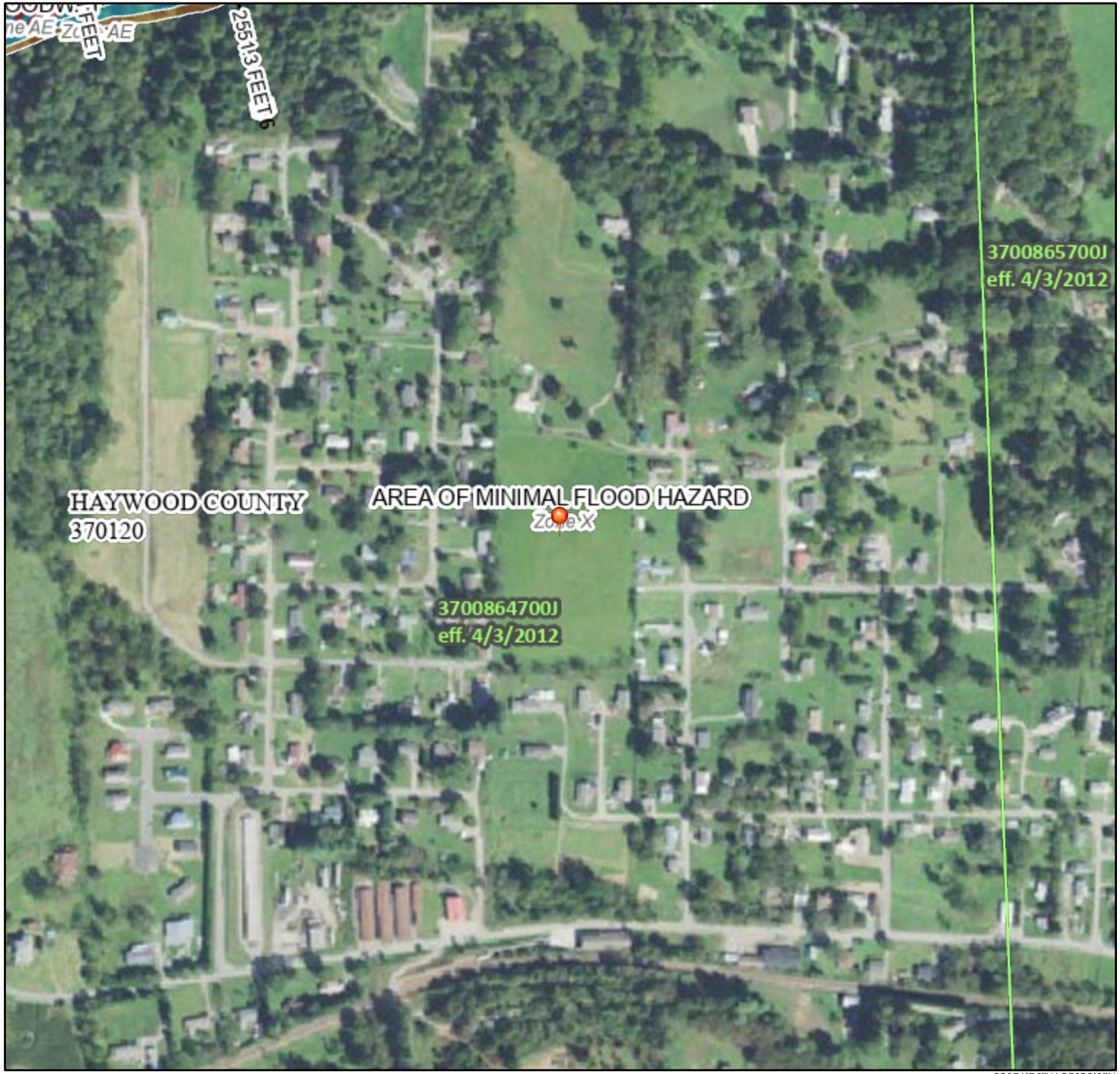
This map image may be void if one or more of the following map elements do not appear: basemap imagery, CBRS unit labels, prohibition date labels, legend, scale bar, map creation date. For additional information about flood insurance and the CBRS, visit: https://www.fws.gov/node/263838.

Flood Insurance

National Flood Hazard Layer FIRMette

FEMA

82°52'33"W 35°32'39"N



82°51'56"W 35°32'9"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/17/2026 at 6:32 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Clean Air

North Carolina Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

Data is current as of May 31, 2026

Listed by County, NAAQS, Area. The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 μg/m^3) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change the State:
NORTH CAROLINA GO

Important Notes

Download National Dataset: dbf | xls | Data dictionary (PDF)

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or Part County	Population (2010)	State/ County FIPS Codes
NORTH CAROLINA								
Cabarrus County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	04050607080910111213	01/02/2014	Moderate	Whole	178,011	37/025
Cabarrus County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	121314	08/27/2015	Marginal	Part	176,928	37/025
Catawba County	PM-2.5 (1997)-NAAQS revoked	Hickory-Morganton-Lenoir, NC	050607080910	12/19/2011 *	Former Subpart 1	Whole	154,358	37/035
Chatham County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Part	32,372	37/037
Davidson County	1-Hour Ozone (1979)-NAAQS revoked	Greensboro-Winston-Salem-High Point, NC	92	11/08/1993	Moderate	Whole	162,878	37/057
Davidson County	PM-2.5 (1997)-NAAQS revoked	Greensboro-Winston Salem-High Point, NC	050607080910	12/19/2011 *	Former Subpart 1	Whole	162,878	37/057
Davie County	1-Hour Ozone (1979)-NAAQS revoked	Greensboro-Winston-Salem-High Point, NC	92	11/08/1993	Moderate	Part	1	37/059
Durham County	1-Hour Ozone (1979)-NAAQS revoked	Raleigh-Durham, NC	9293	06/17/1994	Moderate	Whole	267,587	37/063
Durham County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	267,587	37/063
Durham County	Carbon Monoxide (1971)	Raleigh-Durham, NC	929394	09/18/1995	Moderate <= 12.7ppm	Whole	267,587	37/063
Edgecombe County	8-Hour Ozone (1997)-NAAQS revoked	Rocky Mount, NC	040506	01/05/2007	Former Subpart 1	Whole	56,552	37/065
Forsyth County	1-Hour Ozone (1979)-NAAQS revoked	Greensboro-Winston-Salem-High Point, NC	92	11/08/1993	Moderate	Whole	350,670	37/067
Forsyth County	Carbon Monoxide (1971)	Winston-Salem, NC	9293	11/07/1994	Moderate <= 12.7ppm	Whole	350,670	37/067
Franklin County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	60,619	37/069
Gaston County	1-Hour Ozone (1979)-NAAQS revoked	Charlotte-Gastonia, NC	929394	07/05/1995	Moderate	Whole	206,086	37/071
Gaston County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	04050607080910111213	01/02/2014	Moderate	Whole	206,086	37/071
Gaston County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	121314	08/27/2015	Marginal	Part	190,849	37/071
Granville County	1-Hour Ozone (1979)-NAAQS revoked	Raleigh-Durham, NC	9293	06/17/1994	Moderate	Part	17,725	37/077
Granville County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	59,916	37/077
Guilford County	1-Hour Ozone (1979)-NAAQS revoked	Greensboro-Winston-Salem-High Point, NC	92	11/08/1993	Moderate	Whole	488,406	37/081
Guilford County	PM-2.5 (1997)-NAAQS revoked	Greensboro-Winston Salem-High Point, NC	050607080910	12/19/2011 *	Former Subpart 1	Whole	488,406	37/081

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
Haywood County	8-Hour Ozone (1997)-NAAQS revoked	Haywood and Swain Counties (Great Smoky NP), NC	040506070809	01/06/2010	Former Subpart 1	Part	985	37/087
Iredell County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	040506070809101112 13	01/02/2014	Moderate	Part	68,089	37/097
Iredell County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	12 13 14	08/27/2015	Marginal	Part	65,899	37/097
Johnston County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	168,878	37/101
Lincoln County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	040506070809101112 13	01/02/2014	Moderate	Whole	78,265	37/109
Lincoln County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	12 13 14	08/27/2015	Marginal	Part	64,189	37/109
Mecklenburg County	1-Hour Ozone (1979)-NAAQS revoked	Charlotte-Gastonia, NC	929394	07/05/1995	Moderate	Whole	919,628	37/119
Mecklenburg County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	040506070809101112 13	01/02/2014	Moderate	Whole	919,628	37/119
Mecklenburg County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	12 13 14	08/27/2015	Marginal	Whole	919,628	37/119
Mecklenburg County	Carbon Monoxide (1971)	Charlotte, NC	929394	09/18/1995	Not Classified	Whole	919,628	37/119
Nash County	8-Hour Ozone (1997)-NAAQS revoked	Rocky Mount, NC	040506	01/05/2007	Former Subpart 1	Whole	95,840	37/127
Orange County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	133,801	37/135
Person County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	39,464	37/145
Rowan County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	040506070809101112 13	01/02/2014	Moderate	Whole	138,428	37/159
Rowan County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	12 13 14	08/27/2015	Marginal	Part	130,057	37/159
Swain County	8-Hour Ozone (1997)-NAAQS revoked	Haywood and Swain Counties (Great Smoky NP), NC	040506070809	01/06/2010	Former Subpart 1	Part	3,288	37/173
Union County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	040506070809101112 13	01/02/2014	Moderate	Whole	201,292	37/179
Union County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	12 13 14	08/27/2015	Marginal	Part	176,055	37/179
Wake County	1-Hour Ozone (1979)-NAAQS revoked	Raleigh-Durham, NC	9293	06/17/1994	Moderate	Whole	900,993	37/183
Wake County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	900,993	37/183
Wake County	Carbon Monoxide (1971)	Raleigh-Durham, NC	929394	09/18/1995	Moderate <= 12.7ppm	Whole	900,993	37/183

Important Notes

Discover. **Connect.** **Ask.**

Follow.

2026-06-02

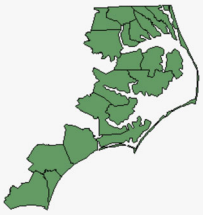
Coastal Zone Management

An official website of the State of North Carolina How you know

(/)

CAMA Counties

The following counties are subject to the rules and policies of the Coastal Resources Commission, which administers the Coastal Area Management Act. If you are planning to develop in one of these counties, check to see whether your project is also in an Area of Environmental Concern (https://deq.nc.gov/about/divisions/coastal-management/coastal-management-rules/coastal-development-rules). If it is, you may need a CAMA permit.

CAMA Counties		
• Beaufort • Bertie • Brunswick • Camden • Carteret • Chowan • Craven • Currituck • Dare • Gates	• Hertford • Hyde • New Hanover • Onslow • Pamlico • Pasquotank • Pender • Perquimans • Tyrrell • Washington	

Contamination and Toxic Substances

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

HARKINS AVENUE PROPERTY

HAYWOOD COUNTY, NC

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

HARKINS AVENUE PROPERTY

HAYWOOD COUNTY, NC

1240 19th Street Lane NW
Hickory, North Carolina, 28601
828.328.2024

Firm License No.: C-0459

JULY 2021

PROJECT NO. 21.00139

July 20, 2021

Heather Boyd, Executive Director
Mountain Projects, Inc.
2177 Asheville Road
Waynesville, North Carolina 28786

Re: Phase I ESA
Harkins Avenue Property
Haywood County, North Carolina

Dear Ms. Boyd:

McGill Associates, P.A. has completed a Phase I Environmental Site Assessment (ESA) for Mountain Projects, Inc. on the Harkins Avenue Property in Haywood County of North Carolina. This report describes the findings of the Phase I Environmental Site Assessment which was prepared in accordance with the American Society of Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments: Phase I ESA Process (ASTM Designation: E1527-13).

The purpose of this Phase I Environmental Site Assessment is to identify the existence of Recognized Environmental Conditions (REC), Controlled Recognized Environmental Conditions (CREC), Historical Recognized Environmental Conditions (HREC), or Vapor Encroachment Conditions (VEC) for the subject property. The findings in this report are based on examination of available environmental regulatory records, a site inspection completed on the subject property and surrounding area, interviews, and a review of historical documentation.

This report represents the professional judgment and opinion of McGill Associates, P.A. If there are any questions regarding this Phase I ESA report, please contact the undersigned at your convenience. Thank you for the opportunity to be of service to Mountain Projects, Inc..

Sincerely,
McGILL ASSOCIATES, P.A.

JON SWAIM
Project Manager

P:\2021\21.00139-MountainPro-Harkins Avenue Subdivision\Design\Reports & Planning\Phase 1 ESA

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LIST OF ABBREVIATIONS AND ACRONYMS

AMSL	Above Mean Sea Level
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
AUL	Activity Use Limitation
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CREC	Controlled Recognized Environmental Condition
EDR	Environmental Data Resources, Inc.
EP	Environmental Professional
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
HREC	Historic Recognized Environmental Condition
IMD	Incident Management Database
LAST	Leaking Aboveground Storage Tank
LUST	Leaking Underground Storage Tank
MSW	Municipal Solid Waste
NFA	No Further Action
NPL	National Priorities List
NRP	National Response Plan
REC	Recognized Environmental Condition
RCRA	Resource Conservation and Recovery Act
Subject Property	Harkins Avenue Property, Haywood County, NC
SHWS	State Hazardous Waste Site
UST	Underground Storage Tank
USDA	United States Department of Agriculture
USGS	United States Geological Survey
VEC	Vapor Encroachment Condition

SPECIAL TERMINOLOGY

- *Above gradient*- refers to a location topographically and hydraulically upstream of the site. Contaminants from above gradient locations could potentially impact the site if released on or beneath the ground surface.
- *Adjoining Properties*- any real property or properties the border of which is contiguous or partially contiguous with that of the subject property, or that would be contiguous or partially contiguous with that of the subject property but for a street, road, or other public thoroughfare separating them.

- *Activity and Use Limitations*- legal or physical restrictions on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the subject property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to endure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products.
- *Below gradient*- refers to a location topographically and hydraulically downstream of the site. Contaminants from below gradient locations generally would not impact the site if released on or beneath the ground surface.
- *Controlled Recognized Environmental Condition (CREC)* - a Recognized Environmental Condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject with the implementation of required controls (i.e. property use restrictions, activity and use limitations, institutional controls, or engineering controls).
- *De minimis conditions*- a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis conditions* are not Recognized Environmental Conditions.
- *Environment*- environment shall have the same meaning as the definition of environment in CERCLA 42 USC 9601(8)), "…any other surface water, ground water, drinking water supply, land surface or sub-surface strata, or ambient air within the United States or under the jurisdiction of the United States."
- *Environmental Professional (EP)*- a person meeting the education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in, or to a property, sufficient to meet objectives and performance factors. See additional conditions set forth in 40 CFR 312.10(b).
- *Engineering Controls*- physical modifications to a site or facility to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on the subject property. Engineering controls are a type of activity and use limitation.
- *Hazardous substance*- a substance defined as a hazardous substance pursuant to CERCLA 42 USA 9601(14), as interpreted by EPA regulations and the courts: "(A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound,

mixture, solution, or substance designated to section 9602 of this title, (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant under section 112 of the Clean Air Act, and (F) any imminently hazardous chemical substance or mixture to which the EPA has taken action pursuant to section 2606 of Title 15. The term does not include petroleum, natural gas, crude oil, liquefied natural gas, or synthetic gas.

- *Hazardous waste*- as defined pursuant to section 3001 of RCRA, as: "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may- (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
- *Historical Recognized Environmental Condition (HREC)* - a past release of any hazardous substances or petroleum products that has occurred in connection with the subject property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the subject property to any required controls. Before calling the past release a Historical Recognized Environmental Condition, the environmental professional must determine whether the past release is a Recognized Environmental Condition at the time of the Phase I Environmental Site Assessment. If the EP considers the past release to be a REC at the time of the Phase I ESA, the condition shall be included in the conclusions section of the report as a Recognized Environmental Condition.
- *LUST site* – state lists of Leaking Underground Storage Tank sites. RCRA gives EPA and states, under cooperative agreements with EPA, authority to clean up releases from UST systems or require owners and operators to do so.
- *Material threat*- a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the environmental professional, is threatening and might result in impact to public health or the environment.
- *Migrate, migration*- refers to the movement of hazardous substances or petroleum products in any form, including, solid and liquid at the surface or subsurface, and vapor in the subsurface.
- *Petroleum products*- crude oil, natural gas, natural gas liquids, liquefied natural gas, gasoline, kerosene, diesel oil, jet fuel, and fuel oil.
- *Recognized Environmental Condition (REC)* - the presence or likely presence of any hazardous substances or petroleum products in, on, or at the property (subject property): (1) due to

release to the environment; (2) under conditions indicative of a release to the environment; (3) under conditions that pose a material threat of a future release to the environment.

- *Release*- any spilling, leaking, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing hazardous substances or pollutants or contaminants), but excludes any release which results in exposure to persons solely within a workplace, with respect to a claim which such persons may assert.
- *Side-gradient*- refers to a location that is considered on level with the site.
- *Vapor intrusion/migration*- migration of volatile chemicals from contaminated groundwater or soil into an overlying building or property. Volatile chemicals can emit vapors that migrate through subsurface soils and into indoor air spaces of overlying buildings in ways that are similar to that of radon gas seeping into homes. Volatile chemicals include organic compounds, select semi volatile organic compounds, and some inorganic analytes, such as elemental mercury, radon, and hydrogen sulfide.
- *Vapor Encroachment Condition (VEC)* - release on or in the vicinity of the subject property and, based on the contaminant plume, evaluates the likelihood of vapors migrating to the subsurface of the subject property. Vapors, in this case, consist of hazardous substances or petroleum products.

1.0 EXECUTIVE SUMMARY

The executive summary is provided for convenience and should not substitute a complete review of this report, including all attachments. McGill Associates, P.A. understands that Mountain Projects, Inc. requested our services to complete a Phase I Environmental Site Assessment (ESA) on the Harkins Avenue property (subject property).

1.1 PHASE I ENVIRONMENTAL SITE ASSESSMENT PROCESS

This Phase I ESA identifies potential sources of environmental risk or liability on or within the proximity of the subject property which might constitute a Recognized Environmental Condition, Controlled Recognized Environmental Condition, Historical Recognized Environmental Condition, or Vapor Encroachment Condition. This assessment includes site reconnaissance, historical document research, environmental regulatory records review, and interviews with people affiliated or knowledgeable with the subject property. The intention of this report is to describe the procedures and findings of the Phase I Environmental Site Assessment, performed in accordance with the American Society of Testing and Materials, ASTM E 1527-13 Phase I Environmental Site Assessment Process.

1.2 FINDINGS AND OPINIONS

Findings	Analysis	Opinion
Reg BENFIELD CHEMICALS	State listed hazardous substance disposal site (HSDS) which appears to be associated with Benfield Chemical Company and/or Benfield Industries, Inc. located in Waynesville approximately 8.5 miles from the subject property. Due to distance, this site is unlikely to pose a threat to the subject property.	Not created a REC.
Reg CHAMPION LANDFILL #2	State listed HSDS is approximately 3,400 feet from the subject property and within a separate drainage area. Surface runoff or floodwater from the site would not flow towards the subject property. Due to distance and drainage, this site is unlikely to pose a threat to the subject property.	Not created a REC.
Reg CHAMPION LANDFILL #1	See EDR ID# 2 below.	Not created a REC.
Reg CHAMPION LANDFILL #3	See EDR ID# 5 below.	Not created a REC.

EDR ID # 1 (LONGS CHAPEL UNITED)	Petroleum leak with soil contamination discovered in 2000 upon closure of underground storage tank. Cleanup occurred in 2000 and incident closed out in 2011.	Not created a REC.
EDR ID# 2 (CHAMPION INTERNATIONAL LANDFILL NO 1)	State listed hazardous waste site (SHWS) which is the location of a former landfill used by Champion Paper between approximately 1960 to 1970 for disposal of waste treatment sludge containing contaminants including dioxin and furans. Key findings from a review of NCDEQ Records: 1. Two wells (one onsite and one offsite) were found to be contaminated prior to 1981. 2. According to a NC Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), testing in 1993 of a well located at 17 Riverview Drive (Harkins Residence) was found to be clean and considered safe to drink. Sampling of the Pigeon River adjacent to the site did not result in any significant findings of dioxin release into the river. 3. In 1995 NCDEQ provided the following opinion based on sampling and previous studies: "Low levels of soil contamination were identified at the site along with low level leachate contamination. However, based on the fact that no contaminated drinking water wells were identified, no releases of contaminants with significant bioaccumulation factors were identified in the Pigeon River, and there were no people living on contaminated soils at the site, it is recommended that this site receive a No Further Remedial Action Planned status under CERCLA." 4. In 1995 the EPA accepts the No Further Remedial Action Planned status. 5. In 2000 soil sampling was performed at 248 Ellen Avenue (Swann Residence) and the NCDEQ concluded the soil was within the acceptable risk range for residential properties. Conclusion: Based on the findings listed above and an analysis of the subject property drainage area (see map in	Not created a REC.

	Appendix B), it appears unlikely contamination at this site would pose a significant risk to the subject property.	
EDR ID# 3 (MEASE RESIDENCE (MILDRED))	Home heating oil UST release in 2003 approximately 2,130 feet from subject property. Only soil contamination detected. Cleanup reported in 2003, but no close-out reported. Site is outside subject property drainage area. Due to distance and drainage, this site is unlikely to pose a threat to the subject property.	Not created a REC.
EDR ID# 4 (PANTRY 421 FORMER)	State listed hazardous waste site located approximately 2,950 ft. from the subject property and within separate drainage. Groundwater contamination detected, but soil contamination not reported. Low levels of carbon tetrachloride and chloroform were detected in one monitoring well associated with a petroleum UST system. No apparent source has been identified. No close-out reported. Due to distance and drainage, this site is unlikely to pose a threat to the subject property.	Not created a REC.
EDR ID# 5 (CHAMPION LANDFILL NO 3)	State listed hazardous waste site approximately 2,300 feet from the subject property and separated by the Pigeon River. Due to distance and drainage, this site is unlikely to pose a threat to the subject property.	Not created a REC.
Barber Orchard (Orphan Site)	State listed hazardous waste site with address listed at Barber Hill Drive in Waynesville, NC approximately 12.5 miles from the subject property. Due to distance, this site is unlikely to pose a threat to the subject property.	Not created a REC.
Harrells Cleaners (Orphan Site)	Dry cleaning site located along Haywood Street in Waynesville, NC approximately 7 miles from the subject property. Due to distance, this site is unlikely to pose a threat to the subject property.	Not created a REC.
Aboveground Fuel tanks on Adjacent Residential Properties	Two aboveground fuel tanks were observed on adjacent properties to the east. There were no signs of deterioration or indication of spills or leaks that could be observed from the subject property.	Not created a REC.

McGill Associates, P.A. has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527 of 2177 Brevard Road (the subject property). Any exceptions

to, or deletions from, this practice are described in Section 2.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

1.3 RECOMMENDATIONS

While NCDEQ and EPA records indicate that movement of the on-site contamination associated with the Champion International Landfill NO 1 is unlikely, and that the site received 'No Further Remedial Action Planned' status under CERCLA, McGill Associates, P.A. recommends that any wells proposed for human use or consumption on the subject property should be tested by a NC Department of Health and Human Services approved facility prior to use.

2.0 INTRODUCTION

McGill Associates, P.A. initiated a Phase I ESA on the Harkins Avenue Property (see Figures in Appendix B) in Haywood County, North Carolina.

2.1 PURPOSE

The purpose of this Phase I ESA is to identify any potential sources of environmental risk or liability on or within the proximity of the subject property which might constitute a Recognized Environmental Condition, Controlled Recognized Environmental Condition, Historical Recognized Environmental Condition, or Vapor Encroachment Condition. This assessment includes site reconnaissance, historical document research, environmental regulatory records review, and interviews with people affiliated or knowledgeable with the subject property. The intention of this report is to describe the procedures and findings of the Phase I Environmental Site Assessment, performed in accordance with the American Society of Testing and Materials, ASTM E 1527-13 Phase I Environmental Site Assessment Process.

2.2 SCOPE OF SERVICES

The scope of work for this assessment is in general accordance with the ASTM Standard Practices for Environmental Site Assessments: Phase I ESA Process (ASTM Designation: E 1527-13). These methodologies described represent good commercial and customary practice for conducting a Phase I Environmental Site Assessment on properties in order to identify potential REC, CREC, HREC, and VEC sites.

2.3 SIGNIFICANT ASSUMPTIONS

While this report provides an overview of potential environmental concerns, both past and present, the environmental assessment is limited by the availability of information at the time of conducting the assessment. It is possible that unreported disposal of waste or illegal activities impairing the environmental status of the property might have occurred which could not be identified. The conclusions and recommendations regarding environmental conditions that are presented in this report are based on a scope of work authorized by Mountain Projects, Inc.

2.4 LIMITATIONS AND EXCEPTIONS

This report has been prepared in accordance with accepted environmental methodologies referred to in ASTM E 1527-13, and contains all of the limitations inherent in these

methodologies. No other warranties, expressed or implied, are made as to the professional services provided under the terms of our contract and included in this report. The conclusions of this report are based in part, on the information provided by others. There is the possibility that unknown or undetectable environmental conditions may be present at the site. In such an event, McGill Associates, P.A. should be notified in order to determine if modifications to the conclusions in this report are necessary.

The services performed and outlined in this report were based, in part, upon visual observations of the site and attendant structures. The objective of this report was to assess environmental conditions at the site, within the context of our contract and existing environmental regulations within the applicable jurisdiction. Evaluating compliance of past or future owners with applicable local, provincial and federal government laws and regulations was not included in this report. Our observations relating to the environmental conditions at the site are described in this report. It should be noted that compounds or materials other than those described could be present in the site environment and undetectable without laboratory testing.

2.5 USER RELIANCE

This report may be distributed and relied upon by Mountain Projects, Inc. and its successors and assigns. Reliance on the information and conclusions in this report by any other person or entity is not authorized without the written consent of McGill Associates, P.A.

3.0 PROPERTY DESCRIPTION

3.1 OWNERSHIP

Research of subject property ownership information through the Haywood County GIS system and Register of Deeds Office yielded two results:

Parcel Tax PIN	Owner	Size (acres)	Deed Book/Page
8647-83-7739	Warren, Tiffany Melissa	5.97	895/1456
Legal Description			
BEGINNING on a stake in the outside boundary line, said stake being the Southwest corner of a parcel of land deeded to James R. Stinnett, recorded in Deed Book 243, Page 117 and runs thence South 00 deg. 30 min. West 664 feet to a stake, comer of a tract of land conveyed to Robert A. Stinnett; thence East 400 feet to a stake in the outside boundary line; thence North 00 deg. 15 min. East 5 86 feet to a stake in the South margin of a driveway leading to James R. Stinnett's residence; thence with the South margin of said driveway, North 71 deg. 35 min. West 214 feet to a stake; thence West 190 feet to a stake, the BEGINNING point, containing 6.04 acres, more or less, and being a small portion of the lands awarded to Mazie E. Stinnett in a division of the J. S. Patton Estate lands as recorded in Deed Book 97, Page 145, Haywood County Registry. This deed is given and accepted subject to any rights of way of record in the Office of the Register of Deeds of Haywood County.			

3.2 TOPOGRAPHY

Topography on the subject property slopes from the northeast to the southwest at an approximate 11% gradient. The highest portion of the subject property is found in the northeast corner. The lowest portion of the subject property is located in the southwest corner. The northern property boundary follows a topographic ridgeline and the southern property boundary follows a valley bottom. Topography for the subject property is shown on USGS 7.5-minute, 1:24,000 topographic quadrangles 'Canton' and 'Clyde' (EDR Report).

3.3 SOILS

Soil data for the subject property is provided in the attached EDR report and is based on information provided through the United States Department of Agriculture, Natural Resource Conservation Services. The dominant soil composition in the general area of the subject property

is Hayesville loam. The Hayesville soil unit has moderate infiltration rates. Hayesville soils are deep to moderately deep, and well to moderately well drained. Hayesville has intermediate water holding capacity and the depth to water table is more than 6 feet. The soil unit is not classified as hydric.

3.4 HYDROLOGY

A tributary to Patton Branch approximately 50 feet north of the southern property boundary flows from east to west. The tributary is depicted on the Preliminary Stream and Wetland Delineation Map in Appendix B. On-site surface runoff generally flows from the northeast to the southwest into the tributary of Patton Branch which flows into the Pigeon River.

3.5 CURRENT USE

The subject property is currently vacant and used for agricultural purposes.

3.6 STRUCTURES, ROADS AND SITE IMPROVEMENTS

The only structure currently on the subject property is an overhead electric power pole.

3.7 CURRENT USES OF ADJOINING PROPERTIES

The following current uses of adjoining properties have been identified:

Direction	Current Land Use	Predicted Gradient
North	(2) single family residential	Side/Above-gradient
East	(5) single family residential	Side-gradient
East	(3 vacant lot	Side-gradient
South	(2) single family residential	Side-gradient
West	(6) single family residential	Side/Below-gradient

4.0 RECORDS REVIEW

The historical and regulatory records review process is used to help determine whether conditions exist on the subject property, or on properties within specified distances to the subject property, which might qualify as a REC, CREC, HREC, or VEC. Compliance with ASTM E 1527-13 requires a reasonable attempt to obtain and review historical records and data from as many sources as possible, spanning the longest time frame available. Refer to Table 2 below for a list of historical and regulatory records.

Table 2. Historical and Regulatory Records

Type of Source	Time-frame (if applicable)	Provider
Environmental Records	Current	Environmental Data Resources, Inc.
Historic Aerial Photos	1940-2016	Environmental Data Resources, Inc.; USGS; USDA; NAIP; DOQQ
USGS Historical Topo Maps	1905 to 2013	Environmental Data Resources, Inc.; USGS
Deed Search	2000s to Current	Haywood County Register of Deeds

4.1 STANDARD ENVIRONMENTAL RECORDS REVIEW

EDR performed a distance-based search of environmental regulatory documents, facilities, and hazardous waste records using the subject property boundary (per ASTM E 1527-13 standards). The full EDR report is attached in Appendix D. A summary of the findings in the EDR report are as follows:

EDR Findings	Description
Reg BENFIELD CHEMICALS	State listed hazardous substance disposal site which appears to be associated with Benfield Chemical Company and/or Benfield Industries, Inc. located in Waynesville approximately 8.5 miles from the subject property.
Reg CHAMPION LANDFILL #2	State listed hazardous substance disposal site is approximately 3,400 feet from the subject property and within a separate drainage area. Surface runoff or floodwater from the site would not flow towards the subject property.
Reg CHAMPION LANDFILL #1	See EDR ID# 2 below.

Reg CHAMPION LANDFILL #3	See EDR ID# 5 below.
EDR ID # 1 (LONGS CHAPEL UNITED)	Petroleum leak discovered in 2000 upon closure of underground storage tank. Cleanup occurred and incident closed out in 2011.
EDR ID# 2 (CHAMPION INTERNATIONAL LANDFILL NO 1)	State listed hazardous waste site which is the location of a former landfill used by Champion Paper between approximately 1960 to 1970 for disposal of waste treatment sludge containing dioxin and furans.
EDR ID# 3 (MEASE RESIDENCE (MILDRED))	Home heating oil UST release in 2003 approximately 2,130 feet from subject property. Only soil contamination detected. Cleanup reported in 2003, but no close-out reported. Site is outside subject property drainage area.
EDR ID# 4 (PANTRY 421 FORMER)	State listed hazardous waste site located approximately 2,950 ft. from the subject property and within separate drainage. Groundwater contamination detected, but soil contamination not reported. Low levels of carbon tetrachloride and chloroform were detected in one monitoring well associated with a petroleum UST system. No apparent source has been identified. No close-out reported.
EDR ID# 5 (CHAMPION LANDFILL NO 3)	State listed hazardous waste site approximately 2,300 feet from the subject property and separated by the Pigeon River.
Barber Orchard (Orphan Site)	State listed hazardous waste site with address listed at Barber Hill Drive in Waynesville, NC approximately 12.5 miles from the subject property.
Harrells Cleaners (Orphan Site)	Dry cleaning site located along Haywood Street in Waynesville, NC approximately 7 miles from the subject property.

4.2 ADDITIONAL ENVIRONMENTAL RECORDS REVIEW

McGill Associates was able to complete deed history research on the subject property parcel and make an evaluation on the existence of potential environmental liens or restrictions on the property. Deed records did not show any environmental liens or restrictions associated with the subject property.

4.3 HISTORICAL USE INFORMATION

4.3.1 USES OF THE SUBJECT PROPERTY

The following uses on the subject property have been identified based on a review of environmental records:

Date	Use
c. 1957 - current	Non-forested land with no structures possibly used for hay production or pasture.
c. 1935 - c. 1951	Non-forested land with no structures or development.
c. 1894 – c. 1935	Undeveloped land.
Prior to c. 1894	Unknown.

4.3.2 SIGNIFICANT USES OF PROPERTIES IN SURROUNDING AREA

The following historic land uses on surrounding properties have been identified based on a review of environmental records and are deemed significant to this report as follows:

Date	Use	Gradient
c. 1960 – c. 1970	Paper mill waste site	Above/side/below-gradient

5.0 SITE RECONNAISSANCE

Jonathan Herman an Environmental Professional with McGill Associates, P.A., conducted a site inspection on July 9, 2021 pursuant to ASTM E 1527-13 standards. Visual examination of the subject property outer boundaries was completed during the site inspection. Adjoining and surrounding properties were inspected for potential Recognized Environmental Conditions during the site inspection.

5.1 ENVIRONMENTAL SITE CONDITIONS

The following site conditions were specifically assessed for the potential to create an environmental risk, liability, or consideration as a Recognized Environmental Condition based on ASTM E 1527-13 standards. Please note that site conditions below are only based on what was observed on the day of the inspection.

Hazardous Material Storage, Use, and Handling: There was no evidence of hazardous material storage, use, or handling on the subject property.

Storage Tanks: There was no evidence of storage tanks on the subject property. Two aboveground storage tanks were noted on adjacent properties to east. No signs of deterioration of these tanks or spillage were observed.

Odors: No unidentified odors were detected during the site inspection.

Pools of Liquid: No pools of liquids likely to be hazardous substances or petroleum products were identified on the subject property.

Drums: There was no evidence of drums on the subject property.

Unidentified Substance Containers: There was no evidence of unidentified substance containers on the subject property.

Polychlorinated Biphenyls (PCBs): There was no evidence of equipment containing PCBs on the subject property.

Interior Observations: There was no evidence of structures with interior spaces on the subject property.

Heating-Cooling Fuels and Chemicals: There was no evidence of heating/cooling fuel and/or chemical use on the subject property. Two aboveground storage tanks were noted on adjacent properties to east. No signs of deterioration of these tanks or spillage were observed.

Staining/Corrosion: No signs of staining or corrosion were observed on the subject property.

Drains and Sumps: There was no evidence of drains or sumps identified on the subject property.

Pits, Ponds, or Lagoons: There was no evidence of pits, ponds, or lagoons identified on the subject property.

Stressed Vegetation: No areas of stressed vegetation were observed on the subject property or adjoining properties.

Solid Waste: There was no evidence of solid waste on the subject property.

Wastewater: A stream was identified along the southern property boundary. No turbidity, sheens, or other indicators of contamination were observed. There was no other evidence of wastewater, stormwater, or other discharges on the subject property.

Wells: There was no evidence of wells on the subject property.

Septic Systems: There was no evidence of septic systems on the subject property.

6.0 INTERVIEWS

The interview process is used to identify potential Recognized Environmental Conditions in connection with the subject property. Interviews consist of a series of questions asked in an attempt to obtain facts about property uses and conditions of the subject property and the adjoining properties. Individuals questioned were understood to have answered to the best extent of their knowledge and in good faith. However, the person to whom the questions were addressed had no obligation to reply and may have provided incorrect or incomplete answers.

6.1 TIFFANY WARREN

Current Owner of Subject Property

Ms. Warren was interviewed over the phone on July 14, 2021. Ms. Warren does not live near the property but visits it approximately once a month. She purchased the property from an uncle in approximately 2005 and co-owned the property until 2012 at which time she became the sole owner. She stated that her uncle lived adjacent to the property and believed that he mowed and maintained the property as a lawn. Since she purchased the property it has been used for hay production. She is not aware of any dumping of debris, stressed vegetation or any indicators that would suggest contamination. No structures have existed on the property since she has owned. She stated that, in general, she is not aware of any contamination or other environmental issues associated with the property.

6.2 CHARLOTTE JESNECK

Environmental Program Supervisor III, NCDEQ Division of Waste Management

Ms. Jesneck was send a request for interview via email on July, 2021. Ms. Jesneck was contacted to obtain further information regarding the Champion International Landfill #1 site (EDR #2). She stated that the Division of Waste Management cannot provide assurances as to whether contamination at this site would have any effect on the subject property. However, she did provide instructions for accessing Superfund File Records.

6.3 ANDREW C. MESSER

Fire Marshal, Haywood County Fire Department

Mr. Messer was sent and responded to a request for information on July 6, 2021. He stated that he has never been to an incident at the subject property address. He also included Tim Carver, the Fire Chief and Code Enforcement Officer with the Town of Canton and Bill Poole, Captain of the Canton Fire Department, on his response for any further records or knowledge of incidents they may be aware of. Neither Mr. Carver nor Mr. Poole responded.

7.0 FINDINGS AND CONCLUSIONS

Findings	Analysis	Opinion
Reg BENFIELD CHEMICALS	State listed hazardous substance disposal site which appears to be associated with Benfield Chemical Company and/or Benfield Industries, Inc. located in Waynesville approximately 8.5 miles from the subject property. Due to distance, this site is unlikely to pose a threat to the subject property.	Not created a REC.
Reg CHAMPION LANDFILL #2	State listed hazardous substance disposal site is approximately 3,400 feet from the subject property and within a separate drainage area. Surface runoff or floodwater from the site would not flow towards the subject property. Due to distance and drainage, this site is unlikely to pose a threat to the subject property.	Not created a REC.
Reg CHAMPION LANDFILL #1	See EDR ID# 2 below.	Not created a REC.
Reg CHAMPION LANDFILL #3	See EDR ID# 5 below.	Not created a REC.
EDR ID # 1 (LONGS CHAPEL UNITED)	Petroleum leak discovered in 2000 upon closure of underground storage tank. Cleanup occurred and incident closed out in 2011.	Not created a REC.
EDR ID# 2 (CHAMPION INTERNATIONAL LANDFILL NO 1)	State listed hazardous waste site which is the location of a former landfill used by Champion Paper between approximately 1960 to 1970 for disposal of waste treatment sludge containing dioxin and furans. Key findings from a 1995 Site Inspection Report available through NCDEQ records: 1) Dioxin is the contaminant of greatest concern at the site. The site has no liner, but dioxin is believed to pose very little risk to groundwater as dioxin compounds are highly immobile in groundwater. The largest threat associated with the site is believed to be through surface water.	Not created a REC.

	2) A recommendation for No Further Remedial Action Planned status was made based on the fact that no contaminated drinking water wells were identified, no releases of contaminants with significant bioaccumulation factors were identified in the Pigeon River, and there were no people living on contaminated soils at the site. Finding from correspondence with an adjacent landowner available through NCDEQ records: 1) NC Superfund Section concluded soil data collected at an adjacent residential property south of the site was within acceptable risk range for residential properties. Finding from analysis of drainage area: Based on field observations and an analysis of topography, it does not appear surface water at this site would drain towards the subject property. This suggests contamination of the subject property from surface water would be unlikely. Conclusion: While the site remains a Hazardous Waste Site, based on the findings above it appears unlikely contamination at this site would pose a significant risk to the subject property.	
EDR ID# 3 (MEASE RESIDENCE (MILDRED))	Home heating oil UST release in 2003 approximately 2,130 feet from subject property. Only soil contamination detected. Cleanup reported in 2003, but no close-out reported. Site is outside subject property drainage area. Due to distance and drainage, this site is unlikely to pose a threat to the subject property.	Not created a REC.
EDR ID# 4 (PANTRY 421 FORMER)	State listed hazardous waste site located approximately 2,950 ft. from the subject property and within separate drainage. Groundwater contamination detected, but soil contamination not reported. Low levels of carbon tetrachloride and chloroform were detected in one monitoring well associated with a petroleum UST system. No apparent source has been identified. No close-out reported. Due to distance and drainage, this site is unlikely to pose a threat to the subject property.	Not created a REC.

EDR ID# 5 (CHAMPION LANDFILL NO 3)	State listed hazardous waste site approximately 2,300 feet from the subject property and separated by the Pigeon River. Due to distance and drainage, this site is unlikely to pose a threat to the subject property.	Not created a REC.
Barber Orchard (Orphan Site)	State listed hazardous waste site with address listed at Barber Hill Drive in Waynesville, NC approximately 12.5 miles from the subject property. Due to distance, this site is unlikely to pose a threat to the subject property.	Not created a REC.
Harrells Cleaners (Orphan Site)	Dry cleaning site located along Haywood Street in Waynesville, NC approximately 7 miles from the subject property. Due to distance, this site is unlikely to pose a threat to the subject property.	Not created a REC.
Aboveground Fuel tanks on Adjacent Residential Properties	Two aboveground fuel tanks were observed on adjacent properties to the east. There were no signs of deterioration or indication of spills or leaks that could be observed from the subject property.	Not created a REC.

McGill Associates, P.A. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527 of 2177 Brevard Road (the subject property). Any exceptions to, or deletions from, this practice are described in Section 2.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

7.1 RECOMMENDATIONS

While NCDEQ and EPA records indicate that movement of the on-site contamination associated with the Champion International Landfill NO 1 is unlikely, and that the site received 'No Further Remedial Action Planned' status under CERCLA, McGill Associates, P.A. recommends that any wells proposed for human use or consumption on the subject property should be tested by a NC Department of Health and Human Services approved facility prior to use.

7.2 DATA GAP SUMMARY

1. No Sanborn maps were available for the subject property.
2. Individuals that may have knowledge of the subject property did not respond to interview requests.

3. Subsurface conditions were not investigated as a part of the site reconnaissance on the subject property.
4. Due to limited access, a thorough inspection could not be completed on adjoining properties. Certain site conditions of adjoining properties may have been hidden from view or not discernable at the distance that observations could be made within the subject property.

7.3 ENVIRONMENTAL PROFESSIONAL STATEMENT AND SIGNATURES

We declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental professional* as defined in 312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the *subject property.* We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Signature:_____

Jon Swaim, Project Manager
McGill Associates, P.A.

Signature: _____

Jonathan Herman, Environmental Planner
McGill Associates, P.A.

8.0 NON-SCOPE SERVICES

Non-scope conditions do not qualify as a Recognized Environmental Conditions under ASTM E 1527-13 standards. A request for non-scope services was not made.

APPENDIX A

ENVIRONMENTAL PROFESSIONAL QUALIFICATIONS

Jon Swaim has approximately 15 years of experience in the environmental field which has provided him the skills and abilities necessary to complete the tasks required by ASTM E1527-13. Significant elements of this experience are noted below:

* 2015-present. Project Manager, McGill Associates, P.A. Environmental Services Division, Boone, NC. Phase I ESA reports, stream and wetland delineations, 404/401 permitting, biological inventorying, T&E reports, Biological Assessments, GIS, GPS, CAD.
* 2013-2015. Registered Environmental Specialist, Registered Sanitarian, Appalachian District Health Department, Boone, NC. Residential and commercial septic and well permitting, inspection, and design. Public swimming pool inspection.
* 2008-2009. Environmental Specialist, Blue Ridge Engineering, Wilkesboro, NC. Phase I ESA reports, stream and wetland delineations, 404/401 permitting, biological inventorying, T&E reports, Biological Assessments, GIS, GPS, CAD.
* 2006-2008. Environmental Programs Coordinator, The Ginn Company, Boone, NC. Managed environmental partners, project management, assisted with T&E reports, Biological Assessments, GIS, GPS, CAD.
* 2006. Masters of Science, Aquaculture, Fisheries & Wildlife Biology, Clemson University.
* 1998. BS Industrial Technology, Appalachian State University.

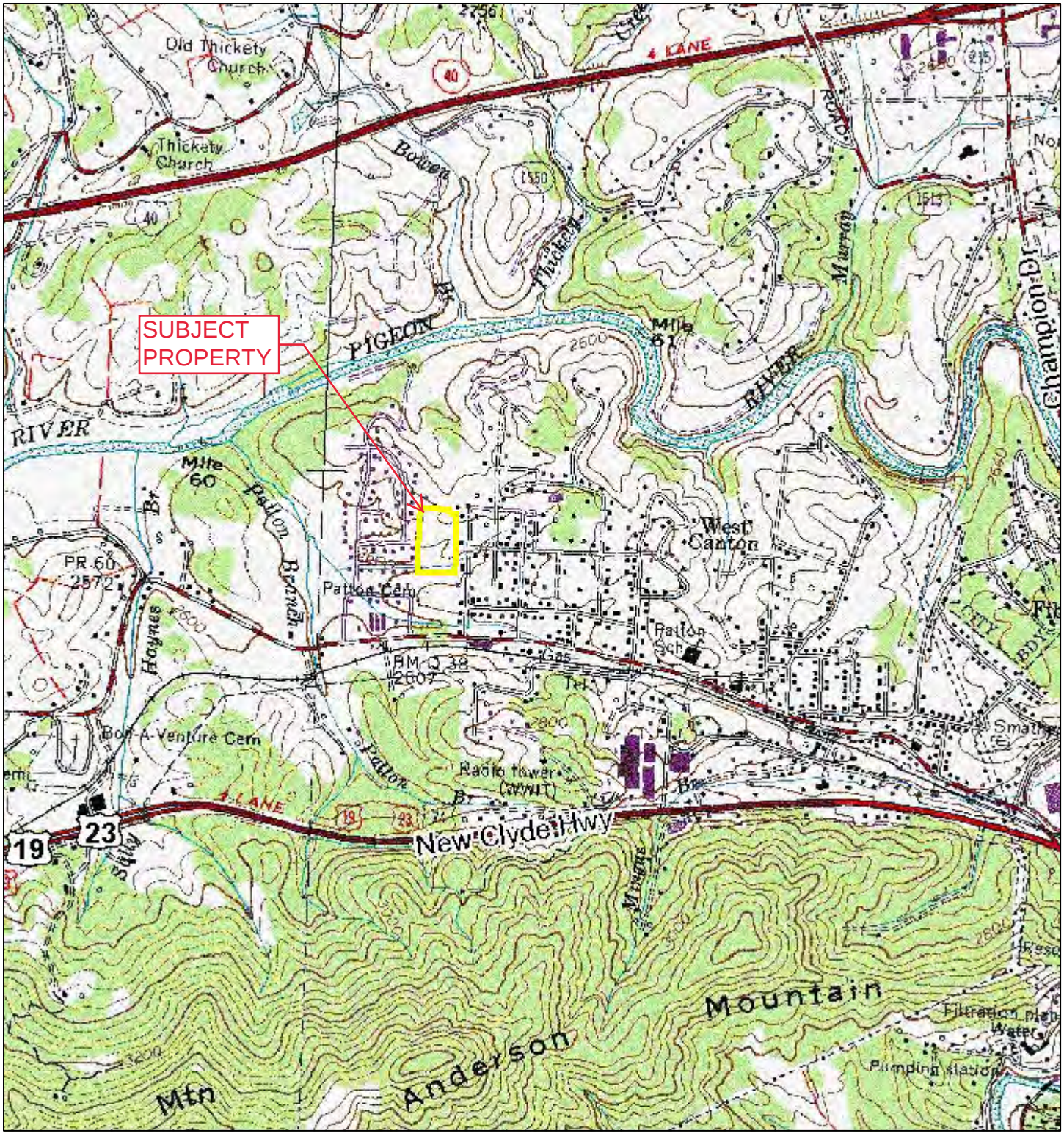
Jonathan Herman has approximately 15 years of experience in the environmental field which has provided him the skills and abilities necessary to complete the tasks required by ASTM E1527-13. Significant elements of this experience are noted below:

* 2018-present. Environmental Planner, McGill Associates, P.A. Environmental Services Division. Phase I ESA reports, stream and wetland delineations, 404/401 permitting, biological inventorying, T&E reports, NEPA documents, GIS, GPS, CAD.
* 2016-2018. Landscape Planner, Planning Department, City of Newport News, Virginia. Site and subdivision plan review, tree evaluations, site inspections.
* 2014-2016. Environmental Planner/Landscape Architect, Stantec Consulting Services, Williamsburg, VA. Stream and wetland restoration, wetland hydrology analysis, wetland mitigation monitoring, invasive species management, GIS, GPS, CAD.
* 2006-2014. Environmental Planner/Landscape Architect, Williamsburg Environmental Group, Williamsburg, VA. Stream and wetland restoration, wetland hydrology analysis, wetland mitigation monitoring, invasive species management, GIS, GPS, CAD.
* 2003. Bachelor of Landscape Architecture, North Carolina State University.
* Certified Arborist.
* Professional Landscape Architect, Virginia.

APPENDIX B

MAP FIGURES

USGS Map



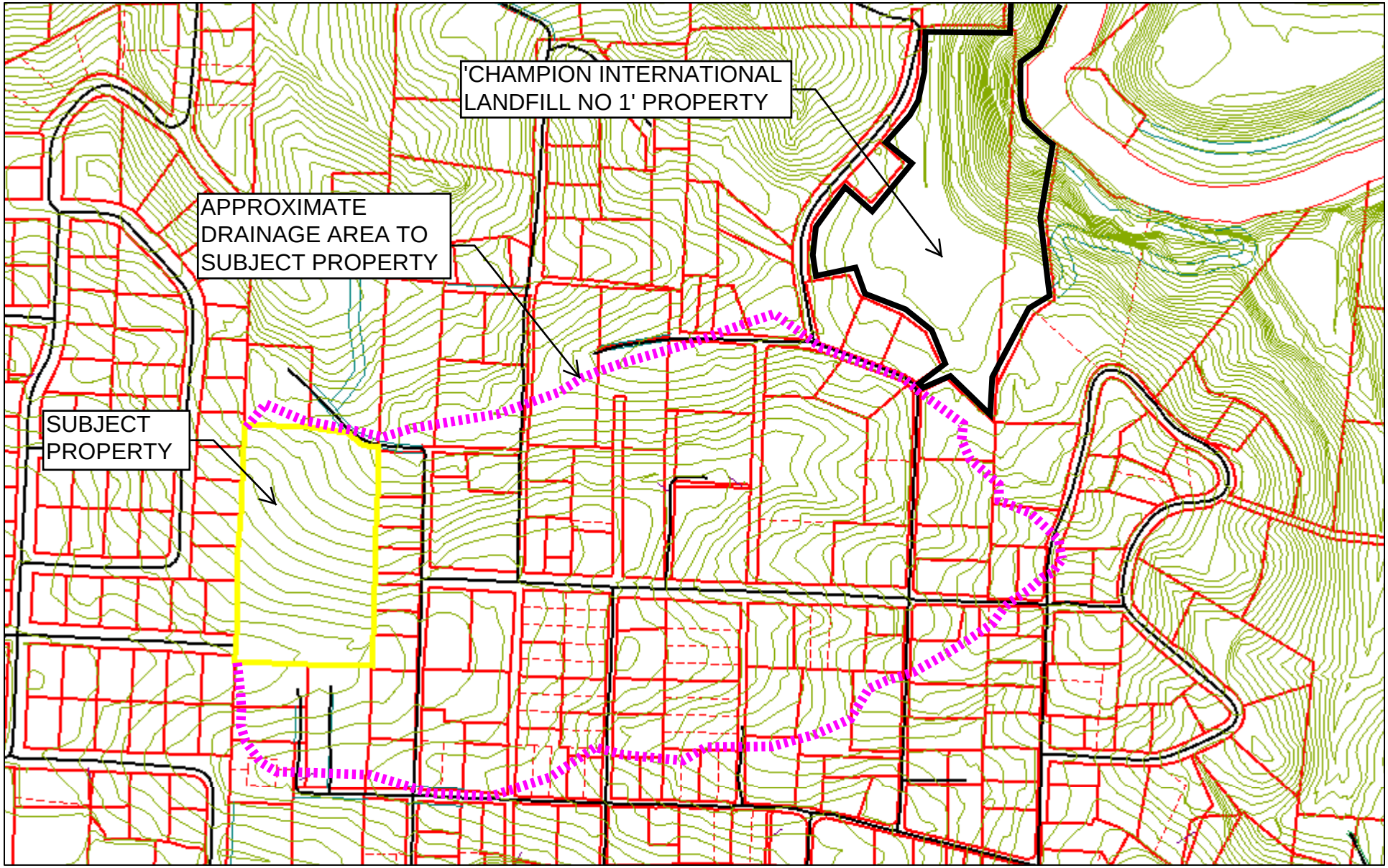
July 6, 2021

1:18,000

0 0.15 0.3 0.6 mi

0 0.225 0.45 0.9 km

Subject Property Drainage Area Map



July 13, 2021

1:4,800

0 0.04 0.08 0.16 mi

0 0.05 0.1 0.2 km

Note: This map is based on information provided by the Haywood County GIS Department. No topographic or parcel boundary surveys were performed to verify the accuracy , reliablity, or completeness of this information. As such, the information on this map should be consider approximate and no warranty of any kind, express or implied, is made concerning the accuracy, reliability, or completeness of the information.

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Hickory, NC 28601
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NC Firm License # C-0459
mcgillassociates.com

DATE 7/9/21	PROJECT # 21.00121
OFFICE MANAGER M. CATHEY	DELINEATOR J. HERMAN
PROJECT MANAGER S. BURWELL	REVIEWER J. SWAIM

HARKINS AVENUE SUBDIVISION

MOUNTAIN PROJECTS, INC.

HAYWOOD COUNTY, NORTH CAROLINA

100 0 50 100 200

GRAPHIC SCALE DIVISION VALUE = 100 FEET

PRELIMINARY STREAM AND WETLAND DELINEATION MAP

SHEET 1

\AD.MCGILLENGINEERS.COM\COMPANYSHARE\MCGILL PROJECTS\2021\21.00121-MOUNTAINPRO-BRADY CIRCLE DEVELOPMENT\DESIGN\PERMITS\DELINEATION\HARKINS AVE DELINEATION.DWG PLOT DATE 7/14/2021 9:30 AM JONATHAN M. HERMAN

APPENDIX C

PHOTO SHEETS

Photo One: View looking west along southern subject property limits. A stream (hidden from view) is among the trees shown. Adjacent residential properties are in the background.

Photo Two: View of pipe outlet along eastern subject property boundary. The pipe discharges water to stream on the subject property.

Photo Three: View looking south at subject property hay field in the foreground and adjacent residential properties in the background.

Photo Four: View looking east at subject property hay field in the foreground and adjacent residential properties in the background.

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mcgillassociates.com

DATE	7/9/2021
PROJECT #	21.00121
PROJECT MANAGER	S. BURWELL

HARKINS AVENUE SUBDIVISION

MOUNTAIN PROJECTS, INC.

HAYWOOD COUNTY, NORTH CAROLINA

PHOTOSHEET

SHEET 1

\\AD.MCGILLENGINEERS.COM\COMPANYSHARE\MCGILL PROJECTS\2021\21.00121-MOUNTAINPRO-BRADY CIRCLE DEVELOPMENT\DESIGN\PERMITS\PHASE 1 ESA\PHOTOSHEETS.DWG PLOT DATE 7/15/2021 2:05 PM JONATHAN M. HERMAN

Photo Five: View looking northwest at subject property hay field and utility pole. An adjacent residential property is in the background.

Photo Six: View looking southwest at subject property hay field in the foreground and adjacent residential properties in the background.

Photo Seven: View looking southeast at Champion International Landfill No 1 hazardous waste site (EDR Finding # 2). Northeastern portion of site is shown which slopes towards the Pigeon River away from the subject property drainage area.

Photo Eight: View looking south at the Champion International Landfill No 1 hazardous waste site (EDR Finding # 2). Southeastern portion of site is bowl-shaped and appears to direct surface water to a drainage inlet in the center of field. The inlet appears to transmit water to the pipe shown which discharges to a location outside of the subject property drainage area. A culvert headwall is shown in foreground which also directs surface water away from the subject property drainage area.

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DATE 7/9/2021
PROJECT # 21.00121
PROJECT MANAGER S. BURWELL

HARKINS AVENUE SUBDIVISION
MOUNTAIN PROJECTS, INC.
HAYWOOD COUNTY, NORTH CAROLINA

PHOTOSHEET

SHEET 2

\\AD.MCGILLENGINEERS.COM\COMPANYSHARE\MCGILL PROJECTS\2021\21.00121-MOUNTAINPRO-BRADY CIRCLE DEVELOPMENT\DESIGN\PERMITS\PHASE 1 ESA\PHOTOSHEETS.DWG PLOT DATE 7/15/2021 2:05 PM JONATHAN M. HERMAN

APPENDIX D

EDR REPORT

Harkins Avenue Property
111 KEITH ST
Canton, NC 28716

Inquiry Number: 6564985.2s
July 06, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

111 KEITH ST
CANTON, NC 28716

COORDINATES

Latitude (North):	35.5398670 - 35° 32' 23.52''
Longitude (West):	82.8707130 - 82° 52' 14.56''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	330409.3
UTM Y (Meters):	3934325.5
Elevation:	2649 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5948648 CANTON, NC
Version Date:	2013
Northwest Map:	5948476 CLYDE, NC
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20141019
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
111 KEITH ST
CANTON, NC 28716

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	BENFIELD CHEMICALS		NC HSDS	Same	999, 0.189, SE
Reg	CHAMPION LANDFILL #2		NC HSDS	Same	3451, 0.654, West
Reg	CHAMPION LANDFILL #1		NC HSDS	Same	1406, 0.266, ENE
Reg	CHAMPION LANDFILL #3		NC HSDS	Same	2303, 0.436, ENE
1	LONGS CHAPEL UNITED	175 OLD CLYDE HIGHWA	LUST, IMD	Lower	786, 0.149, SSE
2	CHAMPION INTERNATION	SR 1571 & 1573	SHWS	Higher	1674, 0.317, ENE
3	MEASE RESIDENCE (MIL	441 CIRCLE DRIVE	LUST, LUST TRUST, IMD	Higher	2126, 0.403, ENE
4	PANTRY 421 FORMER	P. O. BOX 1410	SHWS, IMD	Higher	2954, 0.559, SE
5	CHAMPION LANDFILL NO	SR 1550 I40	SHWS	Higher	3631, 0.688, ENE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROLS ..... Institutional Controls Sites List

Federal ERNS list

ERNS ..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ..... List of Solid Waste Facilities
OLI ..... Old Landfill Inventory
DEBRIS ..... Solid Waste Active Disaster Debris Sites Listing
LCID ..... Land-Clearing and Inert Debris (LCID) Landfill Notifications

State and tribal leaking storage tank lists

LAST ..... Leaking Aboveground Storage Tanks
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ..... Underground Storage Tank Listing
UST ..... Petroleum Underground Storage Tank Database
AST ..... AST Database
INDIAN UST ..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL ..... No Further Action Sites With Land Use Restrictions Monitoring

State and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing
VCP ..... Responsible Party Voluntary Action Sites

State and tribal Brownfields sites

BROWNFIELDS ..... Brownfields Projects Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF ..... Solid Waste Facility Listing
SWRCY ..... Recycling Center Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... Delisted National Clandestine Laboratory Register

US CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
SPILLS ..... Spills Incident Listing
SPILLS 90 ..... SPILLS 90 data from FirstSearch
SPILLS 80 ..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ..... RCRA - Non Generators / No Longer Regulated
FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem
US MINES ..... Mines Master Index File
ABANDONED MINES ..... Abandoned Mines
FINDS ..... Facility Index System/Facility Registry System
UXO ..... Unexploded Ordnance Sites
DOCKET HWC ..... Hazardous Waste Compliance Docket Listing
ECHO ..... Enforcement & Compliance History Information
FUELS PROGRAM ..... EPA Fuels Program Registered Listing
AIRS ..... Air Quality Permit Listing
ASBESTOS ..... ASBESTOS

COAL ASH ---- Coal Ash Disposal Sites
DRYCLEANERS ---- Drycleaning Sites
Financial Assurance ---- Financial Assurance Information Listing
NPDES ---- NPDES Facility Location Listing
UIC ---- Underground Injection Wells Listing
AOP ---- Animal Operation Permits Listing
CCB ---- Coal Ash Structural Fills (CCB) Listing
SEPT HAULERS ---- Permitted Septage Haulers Listing
PCSRP ---- Petroleum-Contaminated Soil Remediation Permits
MINES MRDS ---- Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner ---- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS ---- Recovered Government Archive State Hazardous Waste Facilities List
RGA LF ---- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent NPL

NC HSDS: The Hazardous Substance Disposal Sites list contains locations of uncontrolled and unregulated hazardous waste sites. The file contains sites on the national priority list as well as the state priority list. The data source is the North Carolina Center for Geographic Information and Analysis.

A review of the NC HSDS list, as provided by EDR, and dated 08/09/2011 has revealed that there are 4 NC HSDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BENFIELD CHEMICALS		SE 1/8 - 1/4 (0.189 mi.)	0	8
CHAMPION LANDFILL #2		W 1/2 - 1 (0.654 mi.)	0	8
CHAMPION LANDFILL #1		ENE 1/4 - 1/2 (0.266 mi.)	0	8
CHAMPION LANDFILL #3		ENE 1/4 - 1/2 (0.436 mi.)	0	9

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environment & Natural Resources' Inactive Hazardous Sites Program.

A review of the SHWS list, as provided by EDR, and dated 03/01/2021 has revealed that there are 3 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHAMPION INTERNATION Facility Id: NCD986188001	SR 1571 & 1573	ENE 1/4 - 1/2 (0.317 mi.)	2	13
PANTRY 421 FORMER Facility Id: NONCD0002262	***P. O. BOX 1410***	***SE 1/2 - 1 (0.559 mi.)***	***4***	***17***
CHAMPION LANDFILL NO Facility Id: NCD986188027	SR 1550 I40	ENE 1/2 - 1 (0.688 mi.)	5	19

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incidents Management Database contains an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environment, & Natural Resources' Incidents by Address.

A review of the LUST list, as provided by EDR, and dated 01/22/2021 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEASE RESIDENCE (MIL Incident Number: 28191 Product Type: PETROLEUM Current Status: File Located in House	***441 CIRCLE DRIVE***	***ENE 1/4 - 1/2 (0.403 mi.)***	***3***	***13***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LONGS CHAPEL UNITED Incident Number: 22679 Product Type: PETROLEUM Current Status: File Located in Archives Incident Phase: Closed Out	***175 OLD CLYDE HIGHWA***	***SSE 1/8 - 1/4 (0.149 mi.)***	***1***	***9***

LUST TRUST: This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

A review of the LUST TRUST list, as provided by EDR, and dated 04/02/2021 has revealed that there is 1 LUST TRUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEASE RESIDENCE (MIL Site ID: 28191	***441 CIRCLE DRIVE***	***ENE 1/4 - 1/2 (0.403 mi.)***	***3***	***13***

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

IMD: Incident Management Database.

A review of the IMD list, as provided by EDR, and dated 01/22/2021 has revealed that there are 2 IMD sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEASE RESIDENCE (MIL Facility Id: 28191	***441 CIRCLE DRIVE***	***ENE 1/4 - 1/2 (0.403 mi.)***	***3***	***13***

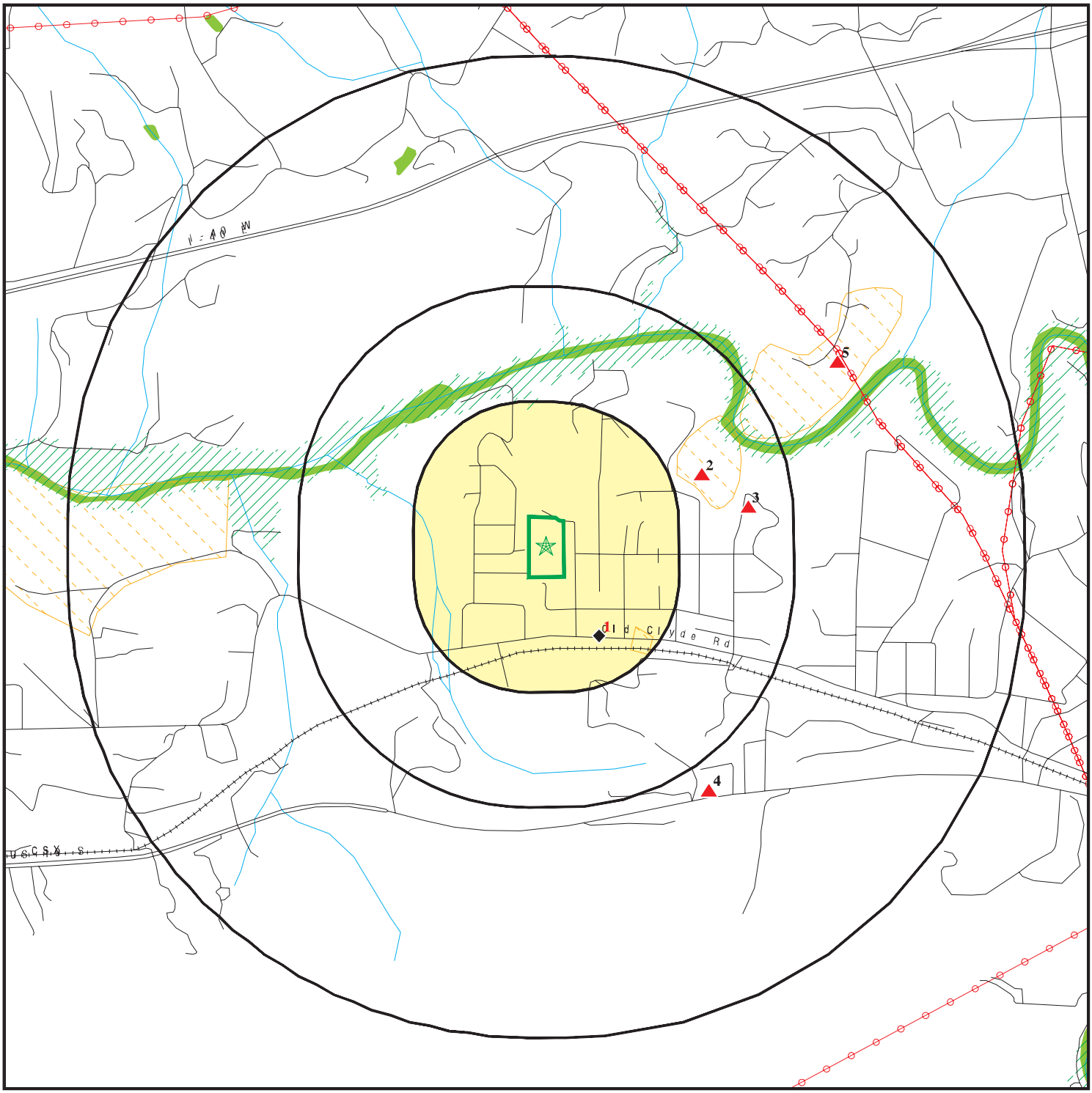
Lower Elevation	Address	Direction / Distance	Map ID	Page
LONGS CHAPEL UNITED Facility Id: 22679	***175 OLD CLYDE HIGHWA***	***SSE 1/8 - 1/4 (0.149 mi.)***	***1***	***9***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
BARBER ORCHARD	SHWS
HARRELLS CLEANERS	DRYCLEANERS

OVERVIEW MAP - 6564985.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Hazardous Substance Disposal Sites

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Brady Circle Development ADDRESS: 111 KEITH ST Canton NC 28716 LAT/LONG: 35.539867 / 82.870713	CLIENT: McGill Associates, P.A. CONTACT: Jonathan Herman INQUIRY #: 6564985.2s DATE: July 06, 2021 1:38 pm

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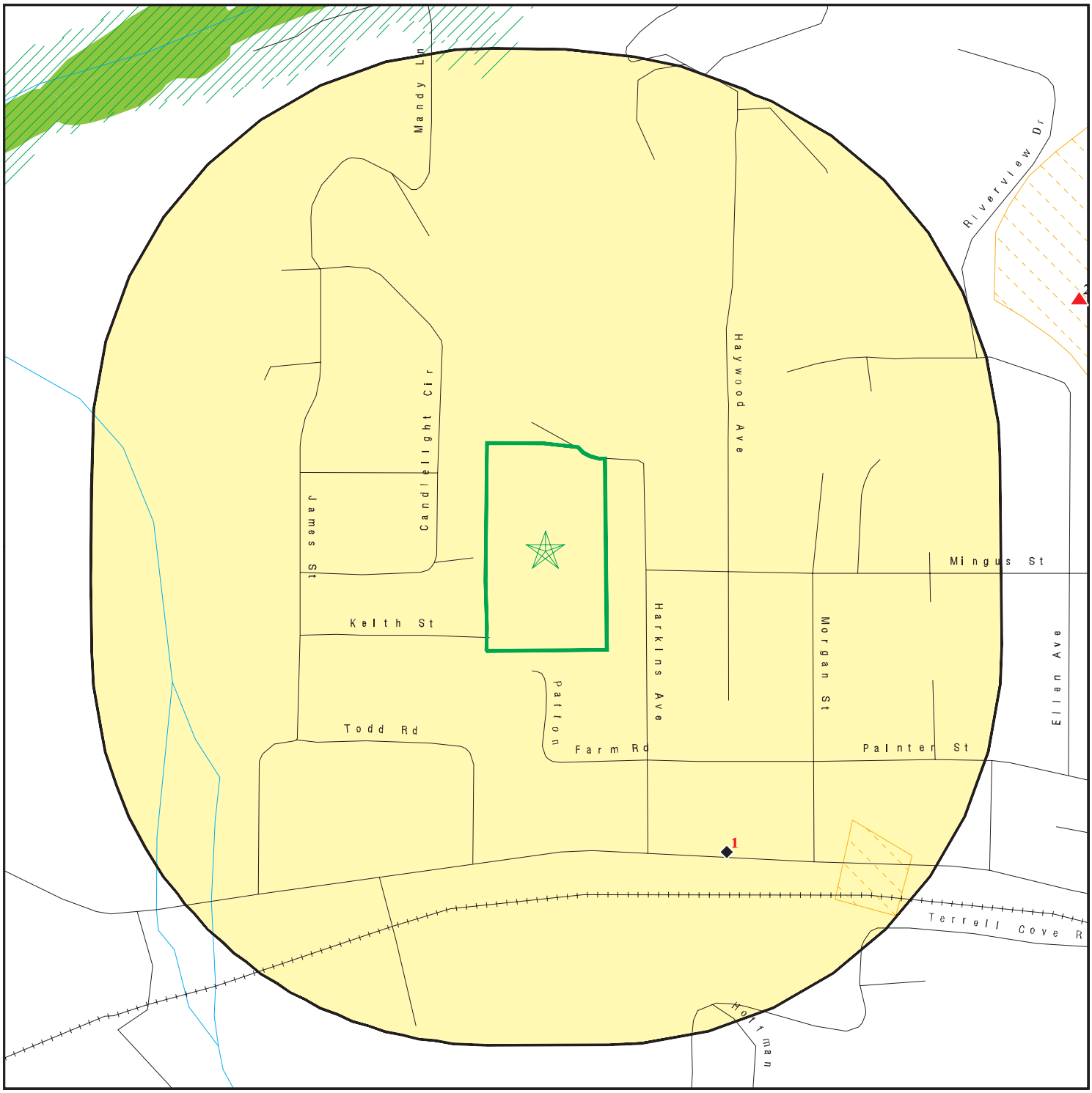
DETAIL MAP - 6564985.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Hazardous Substance Disposal Sites

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Brady Circle Development	CLIENT: McGill Associates, P.A.
ADDRESS: 111 KEITH ST Canton NC 28716	CONTACT: Jonathan Herman INQUIRY #: 6564985.2s
LAT/LONG: 35.539867 / 82.870713	DATE: July 06, 2021 1:41 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
NC HSDS	1.000		0	1	2	1	NR	4
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	1	2	NR	3
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
OLI	0.500		0	0	0	NR	NR	0
DEBRIS	0.500		0	0	0	NR	NR	0
LCID	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal leaking storage tank lists								
LAST	0.500		0	0	0	NR	NR	0
LUST	0.500		0	1	1	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
LUST TRUST	0.500		0	0	1	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
IMD	0.500		0	1	1	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
AOP	TP		NR	NR	NR	NR	NR	0
CCB	0.500		0	0	0	NR	NR	0
SEPT HAULERS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PCSRP	0.500		0	0	0	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	3	6	3	0	12

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

HSDS **BENFIELD CHEMICALS** **NC HSDS** **S102442578**
Region **N/A**
SE **, NC**
1/8-1/4
999 ft.

HSDS:

Name:	BENFIELD CHEMICALS
Address:	Not reported
City:	Not reported
Site Type:	1
Superfun Number:	Not reported
Total area in coverage units:	4813.37597656
Total perimeter in coverage units:	281.25808715
X-value coordinate in feet:	849802.3125
Y-value coordinate in feet:	672715
Sites designated as superfund cleanup sites:	458
Length of feature in internal units:	281.25796529
Area of feature in internal units squared:	4813.3729812

HSDS **CHAMPION LANDFILL #2** **NC HSDS** **S102442575**
Region **N/A**
West **, NC**
1/2-1
3451 ft.

HSDS:

Name:	CHAMPION LANDFILL #2
Address:	Not reported
City:	Not reported
Site Type:	1
Superfun Number:	Not reported
Total area in coverage units:	346735.125
Total perimeter in coverage units:	2891.08154296
X-value coordinate in feet:	843615.375
Y-value coordinate in feet:	674158.8125
Sites designated as superfund cleanup sites:	451
Length of feature in internal units:	2891.08167107
Area of feature in internal units squared:	346735.109201

HSDS **CHAMPION LANDFILL #1** **NC HSDS** **S102442574**
Region **N/A**
ENE **, NC**
1/4-1/2
1406 ft.

HSDS:

Name:	CHAMPION LANDFILL #1
Address:	Not reported
City:	Not reported
Site Type:	1
Superfun Number:	Not reported
Total area in coverage units:	49991.4023438
Total perimeter in coverage units:	851.33874511
X-value coordinate in feet:	850642.125
Y-value coordinate in feet:	674765.3125
Sites designated as superfund cleanup sites:	450
Length of feature in internal units:	851.338788807

CHAMPION LANDFILL #1 (Continued) **S102442574**

Area of feature in internal units squared: 49991.4088154

HSDS **CHAMPION LANDFILL #3** **NC HSDS** **S102442569**
Region **N/A**
ENE **, NC**
1/4-1/2
2303 ft.

HSDS:

Name:	CHAMPION LANDFILL #3
Address:	Not reported
City:	Not reported
Site Type:	1
Superfun Number:	Not reported
Total area in coverage units:	142490.625
Total perimeter in coverage units:	1770.49536132
X-value coordinate in feet:	851689.0625
Y-value coordinate in feet:	675476.9375
Sites designated as superfund cleanup sites:	444
Length of feature in internal units:	1770.49534677
Area of feature in internal units squared:	142490.619764

---

1 **LONGS CHAPEL UNITED METHODIST CHURCH** **LUST** **S104914630**
SSE **175 OLD CLYDE HIGHWAY** **IMD** **N/A**
1/8-1/4 **LAKE JUNALUSKA, NC 28745**
0.149 mi.
786 ft.

Relative:
Lower

Actual:
2640 ft.

LUST:

Name:	LONGS CHAPEL UNITED METHODIST CHURCH
Address:	175 OLD CLYDE HIGHWAY
City,State,Zip:	LAKE JUNALUSKA, NC 28745
Facility ID:	Not reported
UST Number:	AS-1917
Incident Number:	22679
Contamination Type:	Soil
Source Type:	Leak-underground
Product Type:	PETROLEUM
Date Reported:	12/18/2000
Date Occur:	10/27/2000
Cleanup:	12/18/2000
Closure Request:	Not reported
Close Out:	12/01/2011
Level Of Soil Cleanup Achieved:	Residential
Tank Regulated Status:	NON REGULATED
# Of Supply Wells:	0
Commercial/NonCommercial UST Site:	NON COMMERCIAL
Risk Classification:	H
Risk Class Based On Review:	L
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
NORR Issue Date:	Not reported
Site Priority:	Not reported
Phase Of LSA Req:	1
Site Risk Reason:	Not reported
Land Use:	Not reported

LONGS CHAPEL UNITED METHODIST CHURCH (Continued) **S104914630**

MTBE:	No
MTBE1:	Unknown
Flag:	No
Flag1:	No
LUR Filed:	Not reported
Release Detection:	0
Current Status:	File Located in Archives
RBCA GW:	Cleanups to 2L.0202 standards
PETOPT:	4
RPL:	False
CD Num:	540
Reel Num:	0
RPOW:	False
RPOP:	False
Error Flag:	0
Error Code:	Not reported
Valid:	False
Lat/Long Decimal:	35.5286 -82.9585
Testlat:	Not reported
Regional Officer Project Mgr:	JCA
Region:	ASH
Company:	LONG'S CHAPEL UMC
Contact Person:	MR. EDWARD GROSS
Telephone:	8284563993
RP Address:	PO BOX 459
RP City,St,Zip:	LAKE JUNALUSKA, NC 28745
RP County:	HAYWOOD
Comments:	Not reported
5 Min Quad:	Not reported

PIRF:

Facility Id:	22679
Date Occurred:	10/27/2000
Date Reported:	1/5/2001
Description Of Incident:	SOIL CONTAMINATION DISCOVERED UPON UST CLOSURE
Owner/Operator:	MR. EDWARD GROSS -CHAIRMAN, TRUSTEE
Ownership:	4
Operation Type:	4
Type:	4
Location:	7
Site Priority:	U
Priority Update:	1/5/2001
Wells Affected Y/N:	N
Samples Include:	Not reported
7#5 Minute Quad:	Not reported
5 Minute Quad:	Not reported
Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Not reported
Err Type:	2
Cause:	Not reported
Source:	Not reported
Ust Number:	C
Last Modified:	12/1/2011
Incident Phase:	**Closed Out**
NOV Issued:	Not reported
NORR Issued:	Not reported

LONGS CHAPEL UNITED METHODIST CHURCH (Continued) **S104914630**

45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

Click here to access the North Carolina DEQ records for this facility:

IMD:

Name:	LONGS CHAPEL UNITED METHODIST CHURCH
Address:	175 OLD CLYDE HIGHWAY
City:	LAKE JUNALUSKA
Region:	Not reported
Facility ID:	22679
Date Occurred:	2000-10-27 00:00:00
Submit Date:	2001-01-05 00:00:00
GW Contam:	Not reported
Soil Contam:	Not reported
Incident Desc:	SOIL CONTAMINATION DISCOVERED UPON UST CLOSURE
Operator:	MR. EDWARD GROSS -CHAIRMAN, TRUSTEE
Contact Phone:	Not reported
Owner Company:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Oper City,St,Zip:	Not reported
Ownership:	Private
Operation:	Educational/Religious
Material:	Not reported
Qty Lost 1:	Not reported
Qty Recovered 1:	Not reported
Source:	Not reported
Type:	Heating Oil
Location:	Residence
Setting:	Not reported
Risk Site:	Not reported
Site Priority:	U
Priority Code:	Not reported
Priority Update:	2001-01-05 00:00:00
Dem Contact:	Not reported
Wells Affected:	No
Num Affected:	Not reported
Wells Contam:	Not reported
Sampled By:	Not reported
Samples Include:	Not reported
7.5 Min Quad:	Not reported
5 Min Quad:	Not reported
Latitude:	35.528604072999997
Longitude:	-82.958514424000001
Latitude Number:	Not reported
Longitude Number:	Not reported
Latitude Decimal:	Not reported
Longitude Decimal:	Not reported
GPS:	Not reported
Agency:	Not reported

LONGS CHAPEL UNITED METHODIST CHURCH (Continued) **S104914630**

Facility ID:	22679
Last Modified:	2011-12-01 00:00:00
Incident Phase:	Closed Out
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Sighned:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

Name:	LONGS CHAPEL UNITED METHODIST
Address:	175 OLD CLYDE HIGHWAY
City:	LAKE JUNALUSKA
Region:	ASH
Facility ID:	22679
Date Occurred:	10/27/2000
Submit Date:	1/5/2001
GW Contam:	No Groundwater Contamination detected
Soil Contam:	Yes
Incident Desc:	SOIL CONTAMINATION DISCOVERED UPON UST CLOSURE
Operator:	MR. EDWARD GROSS
Contact Phone:	8284563993
Owner Company:	LONG'S CHAPEL UMC
Operator Address:	PO BOX 459
Operator City:	LAKE JUNALUSKA
Oper City,St,Zip:	LAKE JUNALUSKA, NC 28745-
Ownership:	Private
Operation:	Educational/Religious
Material:	Not reported
Qty Lost 1:	Not reported
Qty Recovered 1:	Not reported
Source:	Leak-underground
Type:	Gasoline/diesel
Location:	Residence
Setting:	Residential
Risk Site:	H
Site Priority:	U
Priority Code:	Not reported
Priority Update:	1/5/2001
Dem Contact:	JCA
Wells Affected:	No
Num Affected:	Not reported
Wells Contam:	Not reported
Sampled By:	Not reported
Samples Include:	Not reported
7.5 Min Quad:	Not reported
5 Min Quad:	Not reported
Latitude:	35.52833333
Longitude:	-82.95833333
Latitude Number:	353142
Longitude Number:	825730
Latitude Decimal:	35.5283333333333

LONGS CHAPEL UNITED METHODIST CHURCH (Continued) **S104914630**

Longitude Decimal:	82.9583333333333
GPS:	1
Agency:	DWM
Facility ID:	22679
Last Modified:	2011-12-01 00:00:00
Incident Phase:	Closed Out
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Sighned:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

2
ENE
1/4-1/2
0.317 mi.
1674 ft.

CHAMPION INTERNATIONAL LANDFILL NO 1 **SHWS** **S103554282**
SR 1571 & 1573 **N/A**
CANTON, NC

Relative:
Higher

Actual:
2665 ft.

SHWS:

Name:	CHAMPION INTERNATIONAL LANDFILL NO 1
Address:	SR 1571 & 1573
City,State,Zip:	CANTON, NC
EPAID:	NCD986188001
Lat/Longitude:	35.54217 / -82.86471
Geolocation Method:	On Screen Placement On Georeferenced Map

Click here to access the North Carolina DEQ records for this facility:

3
ENE
1/4-1/2
0.403 mi.
2126 ft.

MEASE RESIDENCE (MILDRED) **LUST** **S106195451**
441 CIRCLE DRIVE **LUST TRUST** **N/A**
CANTON, NC **IMD**

Relative:
Higher

Actual:
2737 ft.

LUST:

Name:	MEASE RESIDENCE (MILDRED)
Address:	441 CIRCLE DRIVE
City,State,Zip:	CANTON, NC
Facility ID:	Not reported
UST Number:	AS-2946
Incident Number:	28191
Contamination Type:	Soil
Source Type:	Leak-underground
Product Type:	PETROLEUM
Date Reported:	12/05/2003
Date Occur:	11/27/2003
Cleanup:	12/05/2003
Closure Request:	Not reported
Close Out:	Not reported
Level Of Soil Cleanup Achieved:	Not reported

MEASE RESIDENCE (MILDRED) (Continued) **S106195451**

Tank Regulated Status:	NON REGULATED
# Of Supply Wells:	0
Commercial/NonCommercial UST Site:	NON COMMERCIAL
Risk Classification:	H
Risk Class Based On Review:	H
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
NORR Issue Date:	Not reported
Site Priority:	Not reported
Phase Of LSA Req:	Not reported
Site Risk Reason:	Not reported
Land Use:	Not reported
MTBE:	No
MTBE1:	Unknown
Flag:	No
Flag1:	No
LUR Filed:	Not reported
Release Detection:	0
Current Status:	File Located in House
RBCA GW:	Not reported
PETOPT:	4
RPL:	False
CD Num:	0
Reel Num:	0
RPOW:	True
RPOP:	False
Error Flag:	0
Error Code:	Not reported
Valid:	False
Lat/Long Decimal:	35.5411 -82.8630
Testlat:	Not reported
Regional Officer Project Mgr:	JCA
Region:	ASH
Company:	Not reported
Contact Person:	MILDRED MEASE
Telephone:	Not reported
RP Address:	441 CIRCLE DRIVE
RP City,St,Zip:	CANTON, NC 28716
RP County:	Not reported
Comments:	Not reported
5 Min Quad:	Not reported

PIRF:

Facility Id:	28191
Date Occurred:	11/27/2003
Date Reported:	12/5/2003
Description Of Incident:	HOMEHEATING OIL UST RELEASE
Owner/Operator:	Not reported
Ownership:	4
Operation Type:	3
Type:	4
Location:	1
Site Priority:	Not reported
Priority Update:	Not reported
Wells Affected Y/N:	N
Samples Include:	Not reported
7#5 Minute Quad:	Y
5 Minute Quad:	Not reported

MEASE RESIDENCE (MILDRED) (Continued) **S106195451**

Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Not reported
Err Type:	2
Cause:	Not reported
Source:	Not reported
Ust Number:	E
Last Modified:	Not reported
Incident Phase:	**Not reported**
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

Click here to access the North Carolina DEQ records for this facility:

LUST TRUST:

Name:	MEASE RESIDENCE
Address:	441 CIRCLE DRIVE
City,State,Zip:	CANTON, NC
Facility ID:	Not reported
Site ID:	28191
Site Note:	Not reported
Site Eligible?:	True
Commercial Find:	100% Non-Commercial
Priority Rank:	Not reported
Deductable Amount:	0
3rd Party Deductable Amt:	100000
Sum 3rd Party Amt Applied:	0

IMD:

Name:	MEASE RESIDENCE (MILDRED)
Address:	441 CIRCLE DRIVE
City:	CANTON
Region:	Not reported
Facility ID:	28191
Date Occurred:	2003-11-27 00:00:00
Submit Date:	2003-12-05 00:00:00
GW Contam:	Not reported
Soil Contam:	Not reported
Incident Desc:	HOMEHEATING OIL UST RELEASE
Operator:	Not reported
Contact Phone:	Not reported
Owner Company:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Oper City,St,Zip:	Not reported
Ownership:	Private
Operation:	Residential

MEASE RESIDENCE (MILDRED) (Continued) **S106195451**

Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Not reported
Type: Heating Oil
Location: Facility
Setting: Not reported
Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: Not reported
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Y
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.541111100000002
Longitude: -82.863056
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: Not reported
Agency: Not reported
Facility ID: Not reported
Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Name: MEASE RESIDENCE (MILDRED)
Address: 441 CIRCLE DRIVE
City: CANTON
Region: ASH
Facility ID: 28191
Date Occurred: 11/27/2003
Submit Date: 12/5/2003
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: HOMEHEATING OIL UST RELEASE
Operator: MILDRED MEASE
Contact Phone: Not reported
Owner Company: Not reported
Operator Address: 441 CIRCLE DRIVE
Operator City: CANTON

MEASE RESIDENCE (MILDRED) (Continued) **S106195451**

Oper City,St,Zip:	CANTON, NC 28716
Ownership:	Private
Operation:	Residential
Material:	Not reported
Qty Lost 1:	Not reported
Qty Recovered 1:	Not reported
Source:	Leak-underground
Type:	Gasoline/diesel
Location:	Facility
Setting:	Not reported
Risk Site:	Unknown
Site Priority:	Not reported
Priority Code:	Not reported
Priority Update:	Not reported
Dem Contact:	JCA
Wells Affected:	No
Num Affected:	Not reported
Wells Contam:	Not reported
Sampled By:	Y
Samples Include:	Not reported
7.5 Min Quad:	Not reported
5 Min Quad:	Not reported
Latitude:	35.54083333
Longitude:	-82.86277777
Latitude Number:	353227
Longitude Number:	825146
Latitude Decimal:	35.5408333333333
Longitude Decimal:	82.8627777777778
GPS:	7
Agency:	DWM
Facility ID:	Not reported
Last Modified:	Not reported
Incident Phase:	Not reported
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Sighned:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

---

4 **PANTRY 421 FORMER** **SHWS S106022555**
SE **P. O. BOX 1410** **IMD N/A**
1/2-1 **CANTON, NC**
0.559 mi.
2954 ft.

Relative:
Higher

Actual:
2821 ft.

SHWS:

Name:	PANTRY 421 FORMER
Address:	P. O. BOX 1410
City,State,Zip:	CANTON, NC
EPAID:	NONCD0002262
Lat/Longitude:	35.532222 / -82.864444
Geolocation Method:	On Screen Placement On Georeferenced Map

PANTRY 421 FORMER (Continued) **S106022555**

Click here to access the North Carolina DEQ records for this facility:

IMD:

Name:	PANTRY 421 FORMER
Address:	P. O. BOX 1410
City:	CANTON
Region:	ASH
Facility ID:	86752
Date Occurred:	8/7/2003
Submit Date:	9/30/2003
GW Contam:	Yes, Groundwater Contamination has been detected
Soil Contam:	Not reported
Incident Desc:	LOW LEVELS OF CARBON TETRACHLORIDE AND CHLOROFORM WERE DETECTED IN ONE MW ASSOCIATED WITH AN PETROLEUM UST SYSTEM. NO APPARENT SOURCE HAS BEEN IDENTIFIED. THE P
Operator:	THOMAS, RENEE
Contact Phone:	919 774-6700
Owner Company:	PANTRY, INC.
Operator Address:	P. O. BOX 1410
Operator City:	SANFORD
Oper City,St,Zip:	SANFORD 919 774-6700
Ownership:	Federal
Operation:	8
Material:	Not reported
Qty Lost 1:	Not reported
Qty Recovered 1:	Not reported
Source:	Unknown
Type:	Other inorganics
Location:	Not reported
Setting:	Not reported
Risk Site:	Not reported
Site Priority:	40
Priority Code:	B
Priority Update:	Not reported
Dem Contact:	QQ
Wells Affected:	No
Num Affected:	0
Wells Contam:	Not reported
Sampled By:	Not reported
Samples Include:	Not reported
7.5 Min Quad:	Not reported
5 Min Quad:	Not reported
Latitude:	35.532222
Longitude:	-82.864444
Latitude Number:	Not reported
Longitude Number:	Not reported
Latitude Decimal:	Not reported
Longitude Decimal:	Not reported
GPS:	GPS
Agency:	DWQ
Facility ID:	Not reported
Last Modified:	Not reported
Incident Phase:	Not reported
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported

PANTRY 421 FORMER (Continued) **S106022555**

Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

5
ENE
1/2-1
0.688 mi.
3631 ft.

CHAMPION LANDFILL NO 3 **SHWS** **S105194128**
SR 1550 I40 **N/A**
CANTON, NC

Relative:
Higher

Actual:
2702 ft.

SHWS:
Name: CHAMPION LANDFILL NO 3
Address: SR 1550 I40
City,State,Zip: CANTON, NC
EPAID: NCD986188027
Lat/Longitude: 35.54571 / -82.85949
Geolocation Method: On Screen Placement On Georeferenced Map

Click here to access the North Carolina DEQ records for this facility:

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
WAYNESVILLE	S125674843	BARBER ORCHARD	BARBER HILL DRIVE		SHWS
WAYNESVILLE	S125089403	HARRELLS CLEANERS	HAYWOOD ST	28786	DRYCLEANERS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/30/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 39

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 02/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 02/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

HSDS: Hazardous Substance Disposal Site

Locations of uncontrolled and unregulated hazardous waste sites. The file includes sites on the National Priority List as well as those on the state priority list.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 11/08/2011
Date Made Active in Reports: 12/05/2011
Number of Days to Update: 27

Source: North Carolina Center for Geographic Information and Analysis
Telephone: 919-754-6580
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: No Update Planned

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Sites Inventory

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/10/2021
Date Made Active in Reports: 05/27/2021
Number of Days to Update: 78

Source: Department of Environment, Health and Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/10/2020
Date Data Arrived at EDR: 09/23/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 82

Source: Department of Environment and Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

OLI: Old Landfill Inventory

Old landfill inventory location information. (Does not include no further action sites and other agency lead sites).

Date of Government Version: 09/11/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/30/2020
Number of Days to Update: 82

Source: Department of Environment & Natural Resources
Telephone: 919-733-4996
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

DEBRIS: Solid Waste Active Disaster Debris Sites Listing
NCDEQ Division of Waste Management Solid Waste Section Temporary Disaster Debris Staging Site (TDDSS) Locations which are available to be activated in a disaster or emergency.. Disaster Debris Sites can only be used for temporary disaster debris storage if the site's responsible party activates the site for use by notifying the NCDEQ DWM Solid Waste Section staff during an emergency

Date of Government Version: 01/06/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/02/2021
Number of Days to Update: 78
Source: Department of Environmental Quality
Telephone: 919-707-8247
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Varies

LCID: Land-Clearing and Inert Debris (LCID) Landfill Notifications
A list all of the Land-Clearing and Inert Debris (LCID) Landfill Notification facilities (under 2 acres in size) in North Carolina.

Date of Government Version: 04/30/2020
Date Data Arrived at EDR: 07/09/2020
Date Made Active in Reports: 09/23/2020
Number of Days to Update: 76
Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LUST: Regional UST Database
This database contains information obtained from the Regional Offices. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database. Sites in this database with Incident Numbers are considered LUSTs.

Date of Government Version: 01/22/2021
Date Data Arrived at EDR: 02/03/2021
Date Made Active in Reports: 04/29/2021
Number of Days to Update: 85
Source: Department of Environment and Natural Resources
Telephone: 919-707-8200
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tanks
A listing of leaking aboveground storage tank site locations.

Date of Government Version: 01/22/2021
Date Data Arrived at EDR: 02/03/2021
Date Made Active in Reports: 04/29/2021
Number of Days to Update: 85
Source: Department of Environment & Natural Resources
Telephone: 877-623-6748
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

LUST TRUST: State Trust Fund Database
This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

Date of Government Version: 04/02/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 80
Source: Department of Environment and Natural Resources
Telephone: 919-733-1315
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

UST: Petroleum Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/22/2021
Date Data Arrived at EDR: 02/03/2021
Date Made Active in Reports: 04/28/2021
Number of Days to Update: 84

Source: Department of Environment and Natural Resources
Telephone: 919-733-1308
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

AST: AST Database
Facilities with aboveground storage tanks that have a capacity greater than 21,000 gallons.

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/03/2021
Number of Days to Update: 79

Source: Department of Environment and Natural Resources
Telephone: 919-715-6183
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: No Further Action Sites With Land Use Restrictions Monitoring

A land use restricted site is a property where there are limits or requirements on future use of the property due to varying levels of cleanup possible, practical, or necessary at the site.

Date of Government Version: 09/04/2020
Date Data Arrived at EDR: 09/09/2020
Date Made Active in Reports: 12/03/2020
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: 919-508-8400
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

VCP: Responsible Party Voluntary Action Sites
Responsible Party Voluntary Action site locations.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/10/2021
Date Made Active in Reports: 05/27/2021
Number of Days to Update: 78
Source: Department of Environment and Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Projects Inventory
A brownfield site is an abandoned, idled, or underused property where the threat of environmental contamination has hindered its redevelopment. All of the sites in the inventory are working toward a brownfield agreement for cleanup and liabitliy control.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/30/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 85
Source: Department of Environment and Natural Resources
Telephone: 919-733-4996
Last EDR Contact: 06/24/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/15/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Center Listing
A listing of recycling center locations.

Date of Government Version: 01/28/2021
Date Data Arrived at EDR: 01/29/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 84

Source: Department of Environment & Natural Resources
Telephone: 919-707-8137
Last EDR Contact: 04/22/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

HIST LF: Solid Waste Facility Listing
A listing of solid waste facilities.

Date of Government Version: 11/06/2006
Date Data Arrived at EDR: 02/13/2007
Date Made Active in Reports: 03/02/2007
Number of Days to Update: 17

Source: Department of Environment & Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/22/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/22/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

SPILLS: Spills Incident Listing

A listing spills, hazardous material releases, sanitary sewer overflows, wastewater treatment plant bypasses and upsets, citizen complaints, and any other environmental emergency calls reported to the agency.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 83

Source: Department of Environment & Natural Resources
Telephone: 919-807-6308
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

IMD: Incident Management Database

Groundwater and/or soil contamination incidents

Date of Government Version: 01/22/2021
Date Data Arrived at EDR: 02/03/2021
Date Made Active in Reports: 04/29/2021
Number of Days to Update: 85

Source: Department of Environment and Natural Resources
Telephone: 877-623-6748
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/27/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 06/14/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 47

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/17/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 60

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/22/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/28/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/27/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 84
Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 33
Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/04/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 80
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/17/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

AIRS: Air Quality Permit Listing

A listing of facilities with air quality permits.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/10/2021
Date Made Active in Reports: 05/27/2021
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 919-707-8726
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

ASBESTOS: ASBESTOS
Asbestos notification sites

Date of Government Version: 02/05/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 83

Source: Department of Health & Human Services
Telephone: 919-707-5973
Last EDR Contact: 05/06/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites
A listing of coal combustion products distribution permits issued by the Division for the treatment, storage, transportation, use and disposal of coal combustion products.

Date of Government Version: 09/10/2020
Date Data Arrived at EDR: 09/23/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 82

Source: Department of Environment & Natural Resources
Telephone: 919-807-6359
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Sites
Potential and known drycleaning sites, active and abandoned, that the Drycleaning Solvent Cleanup Program has knowledge of and entered into this database.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/16/2020
Date Made Active in Reports: 12/08/2020
Number of Days to Update: 83

Source: Department of Environment & Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/22/2021
Date Data Arrived at EDR: 02/03/2021
Date Made Active in Reports: 04/28/2021
Number of Days to Update: 84

Source: Department of Environment & Natural Resources
Telephone: 919-733-1322
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/03/2012
Date Made Active in Reports: 10/26/2012
Number of Days to Update: 23

Source: Department of Environmental & Natural Resources
Telephone: 919-508-8496
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information
Hazardous waste financial assurance information.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 05/26/2021
Number of Days to Update: 78
Source: Department of Environment & Natural Resources
Telephone: 919-707-8222
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

NPDES: NPDES Facility Location Listing
General information regarding NPDES(National Pollutant Discharge Elimination System) permits.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 01/27/2021
Date Made Active in Reports: 04/19/2021
Number of Days to Update: 82
Source: Department of Environment & Natural Resources
Telephone: 919-733-7015
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

UIC: Underground Injection Wells Listing
A listing of uncerground injection wells locations.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 12/07/2020
Number of Days to Update: 7
Source: Department of Environment & Natural Resources
Telephone: 919-807-6412
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

AOP: Animal Operation Permits Listing
This listing includes animal operations that are required to be permitted by the state.

Date of Government Version: 04/01/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 05/27/2020
Number of Days to Update: 1
Source: Department of Environmental Quality
Telephone: 919-707-9129
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

PCSRP: Petroleum-Contaminated Soil Remediation Permits
To treat petroleum-contaminated soil in order to protect North Carolinaa??s environment and the health of the citizens of North Carolina.

Date of Government Version: 04/05/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 79
Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

CCB: Coal Ash Structural Fills (CCB) Listing
These are not permitted Coal Ash landfills A list of all of the now closed Coal Ash Structural Fills (CCB) in North Carolina, in point data form. The purpose is to provide the public and other government entities a visual overview of coal ash structural fills throughout the state and increase public awareness of their current locations.

Date of Government Version: 02/27/2020
Date Data Arrived at EDR: 07/07/2020
Date Made Active in Reports: 09/23/2020
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

SEPT HAULERS: Permitted Septage Haulers Listing
This list of all active and permitted Septage Land Application Site (SLAS) and Septage Detention and Treatment Facility (SDTF) sites in North Carolina. The purpose of this map is to provide the public and government entities a visual overview of the businesses that manage septage and septage facilities throughout the state.

Date of Government Version: 03/25/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 79

Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/20/2013
Number of Days to Update: 172

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 10/05/2020
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 82

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List
Source: Department of Health & Human Services
Telephone: 919-662-4499

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: US Fish & Wildlife Service
Telephone: 703-358-2171

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BRADY CIRCLE DEVELOPMENT
111 KEITH ST
CANTON, NC 28716

TARGET PROPERTY COORDINATES

Latitude (North):	35.539867 - 35° 32' 23.52''
Longitude (West):	82.870713 - 82° 52' 14.57''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	330409.3
UTM Y (Meters):	3934325.5
Elevation:	2649 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5948648 CANTON, NC
Version Date:	2013
Northwest Map:	5948476 CLYDE, NC
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

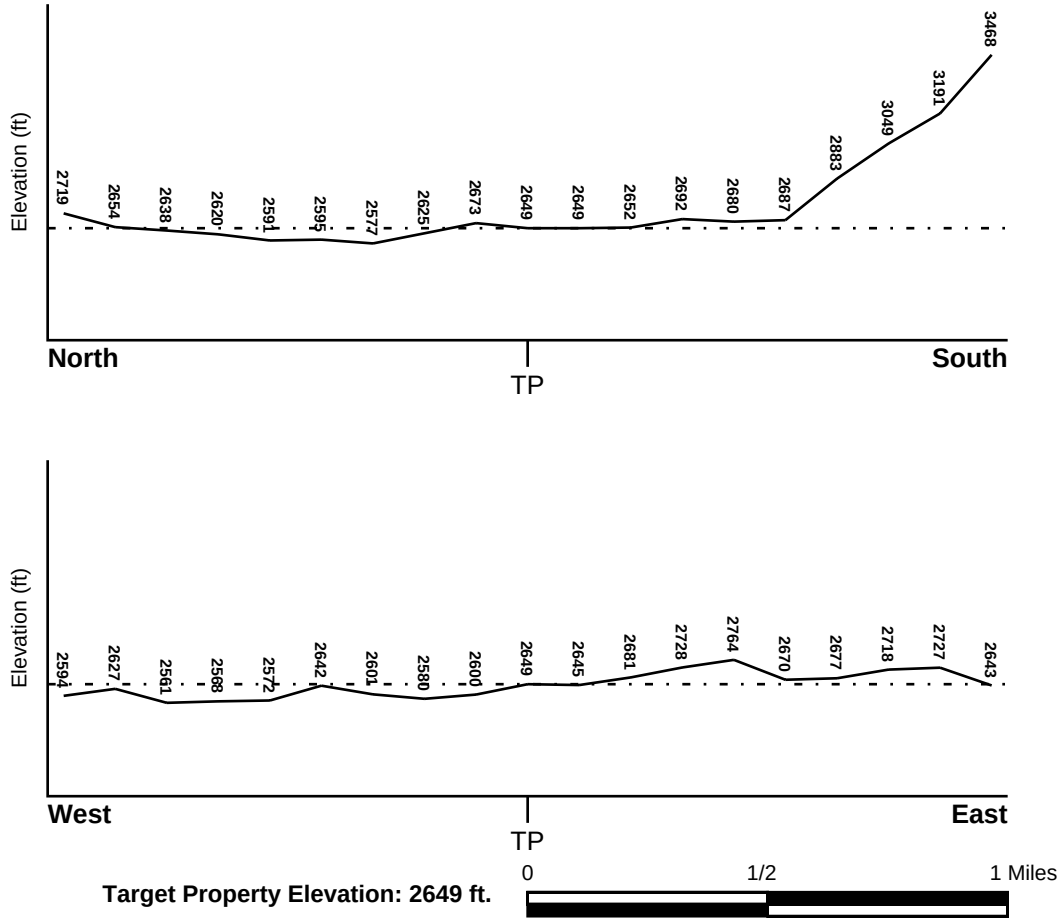
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 2649 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
3700864700J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
3700865700J	FEMA FIRM Flood data
3700865600J	FEMA FIRM Flood data
3700864600J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CANTON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Precambrian
System:	Precambrian
Series:	Paragneiss and schist
Code:	Ym *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Metamorphic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	HAYESVILLE
Soil Surface Texture:	loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 3.60
2	5 inches	38 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 3.60
3	38 inches	48 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 3.60
4	48 inches	60 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 6.00 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: gravelly - loam
sandy loam
fine sandy loam
silt loam

Surficial Soil Types: gravelly - loam
sandy loam
fine sandy loam
silt loam

Shallow Soil Types: sandy clay loam
silt loam

Deeper Soil Types: loam
stratified
sandy loam
gravelly - sand
clay loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000888374	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	NC0144589	1/2 - 1 Mile NW

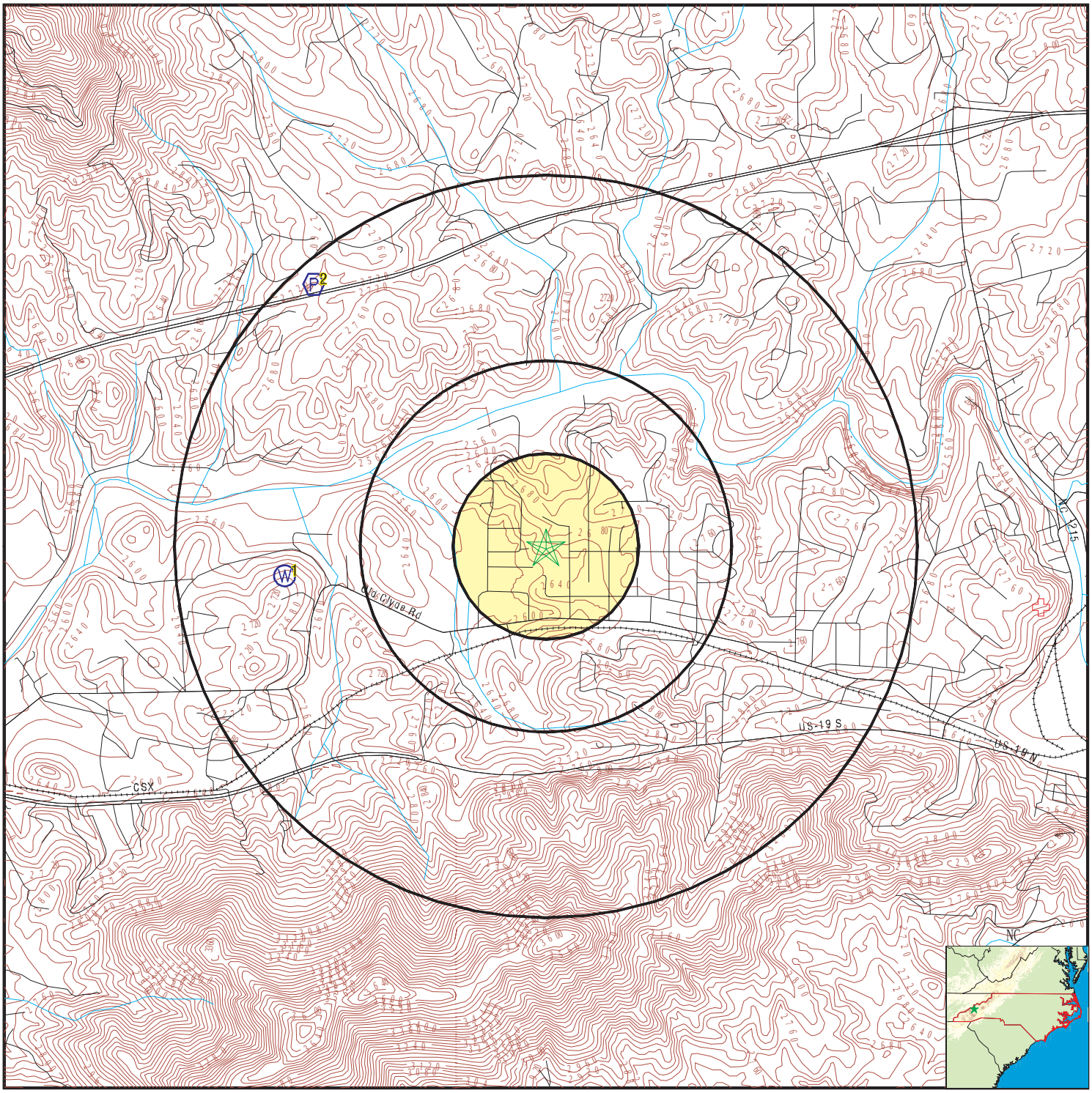
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

PHYSICAL SETTING SOURCE MAP - 6564985.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

0 1/4 1/2 1 Miles

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- Wildlife Areas
- Natural Areas
- Rare & Endangered Species

N

SITE NAME:	Brady Circle Development	CLIENT:	McGill Associates, P.A.
ADDRESS:	111 KEITH ST Canton NC 28716	CONTACT:	Jonathan Herman
LAT/LONG:	35.539867 / 82.870713	INQUIRY #:	6564985.2s
		DATE:	July 06, 2021 1:42 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
West
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000888374**

Organization ID:	USGS-NC		
Organization Name:	USGS North Carolina Water Science Center		
Monitor Location:	HW-027	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Mafic Gneiss	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	110
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

2
NW
1/2 - 1 Mile
Higher | **FRDS PWS** | **NC0144589**

Epa region:	04	State:	NC
Pwsid:	NC0144589	Pwsname:	THICKETY MISSIONARY BAPTIST
Cityserved:	Not Reported	Stateserved:	NC
Zipserved:	Not Reported	Fipscounty:	37087
Status:	Closed	Retpopsrvd:	25
Pwssvcconn:	1	Psource longname:	Groundwater
Pwstype:	TNCWS	Owner:	Private
Contact:	BRENT COCHRAN OR PASTOR NOW		
Contactorgname:	Not Reported	Contactphone:	Not Reported
Contactaddress1:	Not Reported	Contactaddress2:	2674 THICKETY RD
Contactcity:	CLYDE	Contactstate:	NC
Contactzip:	28721	Pwsactivitycode:	I
PWS ID:	NC0144589	PWS type:	System Owner/Responsible Party
PWS name:	BRENT COCHRAN OR PASTOR	PWS address:	Not Reported
PWS city:	CLYDE	PWS state:	NC
PWS zip:	28721	PWS ID:	NC0144589
PWS type:	System Owner/Responsible Party		
PWS name:	THICKETY MISS BAPTIST CH	PWS address:	Not Reported
PWS city:	CLYDE	PWS state:	NC
PWS zip:	28721	PWS ID:	NC0144589
Activity status:	Active	Date system activated:	8407
Date system deactivated:	Not Reported	Retail population:	00000040
System name:	THICKETY MISS BAPTIST CH	System address:	Not Reported
System city:	CLYDE	System state:	NC
System zip:	28721		
County FIPS:	044	City served:	CLYDE
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	353300	Longitude:	0825255
Violation id:	1001	Orig code:	S
State:	NC	Violation Year:	2000
Contamination code:	1040	Contamination Name:	Nitrate

Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2000
Cmp edt:	12/31/2000		

Violation id:	1101	Orig code:	S
State:	NC	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2001
Cmp edt:	03/31/2001		

Violation id:	1201	Orig code:	S
State:	NC	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2001
Cmp edt:	06/30/2001		

Violation id:	4359402	Orig code:	S
State:	NC	Violation Year:	2002
Contamination code:	7500	Contamination Name:	Public Notice
Violation code:	76		
Violation name:	PN Violation without NPDWR Violation		
Rule code:	410	Rule name:	PN rule
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	08/19/2002
Cmp edt:	Not Reported		

Violation id:	500	Orig code:	S
State:	NC	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2000
Cmp edt:	03/31/2000		

Violation id:	600	Orig code:	S
State:	NC	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2000
Cmp edt:	06/30/2000		

Violation id:	701	Orig code:	S
State:	NC	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2000
Cmp edt:	09/30/2000		

Violation id:	901	Orig code:	S

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

State:	NC	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2000
Cmp edt:	12/31/2000		

Violation ID:	1001	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	03/16/2001
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	1001	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	03/16/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	1101	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	06/11/2010
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal
Violation ID:	1101	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	06/11/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	05/01/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	1101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	05/01/2001
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	1201	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/08/2001
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	1201	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	06/11/2010
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Informal
Violation ID:	1201	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/08/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	1201	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	06/11/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	199	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/15/2000
Enforcement Detail:	St Admin Penalty assessed	Enforcement Category:	Formal
Violation ID:	199	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/15/2000
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	200	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/15/2000
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	200	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/15/2000

Enforcement Detail:	St Admin Penalty assessed	Enforcement Category:	Formal
Violation ID:	300	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/15/2000
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	300	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/15/2000
Enforcement Detail:	St Admin Penalty assessed	Enforcement Category:	Formal
Violation ID:	300	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/04/2000
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	300	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/04/2000
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	400	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	03/07/2000
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	400	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	03/07/2000
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	4359402	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	04/17/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	4359402	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	04/17/2010
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	500	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	05/03/2000
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	500	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	05/03/2000
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	600	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	08/11/2000
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	600	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	08/11/2000
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	701	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	11/08/2000
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	701	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	11/08/2000
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	801	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/29/2000
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal

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Violation ID:	801	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/29/2000
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	901	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	02/21/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	901	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	02/21/2001
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	Not Reported	Orig Code:	F
Enforcemnt FY:	2002	Enforcement Action:	03/14/2002
Enforcement Detail:	Fed Compliance achieved	Enforcement Category:	Not Reported
Violation ID:	Not Reported	Orig Code:	F
Enforcemnt FY:	2001	Enforcement Action:	07/06/2001
Enforcement Detail:	Fed FAO issued	Enforcement Category:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

NC_NHEO **NC50017996**

Elclass:	P	Precision1:	S
Eostat:	E	Gisid:	202776
Edr id:	NC50017996		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NC Radon

Radon Test Results

Num Results	Avg pCi/L	Min pCi/L	Max pCi/L
24	4.31	0.5	8.9
13	2.27	0.6	6.7

Federal EPA Radon Zone for HAYWOOD County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 28716

Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.220 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.150 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: US Fish & Wildlife Service
Telephone: 703-358-2171

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

North Carolina Public Water Supply Wells
Source: Department of Environmental Health
Telephone: 919-715-3243

OTHER STATE DATABASE INFORMATION

North Carolina Wildlife Resources/Game Lands
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
All publicly owned game lands managed by the North Carolina Wildlife Resources Commission and as listed in Hunting and Fishing Maps.

NC Natural Heritage Sites: Natural Heritage Element Occurrence Sites
Source: Natural Heritage Occurrence Sites Center for Geographic Information and Analysis
Telephone: 919-733-2090
A point coverage identifying locations of rare and endangered species, occurrences of exemplary or unique natural ecosystems (terrestrial or aquatic), and special animal habitats (e.g., colonial waterbird nesting sites).

NC Natural Areas: Significant Natural Heritage Areas
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
A polygon converage identifying sites (terrestrial or aquatic) that have particular biodiversity significance. A site's significance may be due to the presenceof rare species, rare or high quality natural communities, or other important ecological features.

RADON

State Database: NC Radon
Source: Department of Environment & Natural Resources
Telephone: 919-733-4984
Radon Statistical and Non Statiscal Data

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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Harkins Avenue Property

111 KEITH ST

Canton, NC 28716

Inquiry Number: 6564985.4

July 06, 2021

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/06/21

Site Name:

Harkins Avenue Property
111 KEITH ST
Canton, NC 28716
EDR Inquiry # 6564985.4

Client Name:

McGill Associates, P.A.
1013 State Farm Road
Boone, NC 28607
Contact: Jonathan Herman

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by McGill Associates, P.A. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 21.00139
Project: Harkins Avenue Property

Coordinates:

Latitude:	35.539867 35° 32' 24" North
Longitude:	-82.870713 -82° 52' 15" West
UTM Zone:	Zone 17 North
UTM X Meters:	330413.26
UTM Y Meters:	3934524.52
Elevation:	2650.57' above sea level

Maps Provided:

2013
1990
1978, 1979
1967
1942
1941
1935
1901
1894

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets

Canton
2013
7.5-minute, 24000

Clyde
2013
7.5-minute, 24000

1990 Source Sheets

Canton
1990
7.5-minute, 24000
Aerial Photo Revised 1988

1978, 1979 Source Sheets

Clyde
1978
7.5-minute, 24000
Aerial Photo Revised 1976

Canton
1979
7.5-minute, 24000
Aerial Photo Revised 1976

1967 Source Sheets

Canton
1967
7.5-minute, 24000
Aerial Photo Revised 1966

Clyde
1967
7.5-minute, 24000
Aerial Photo Revised 1966

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1942 Source Sheets

Clyde
1942
7.5-minute, 24000

Canton
1942
7.5-minute, 24000

1941 Source Sheets

Canton
1941
7.5-minute, 24000

Clyde
1941
7.5-minute, 24000

1935 Source Sheets

Clyde
1935
7.5-minute, 24000

Canton
1935
7.5-minute, 24000

1901 Source Sheets

Asheville
1901
30-minute, 125000

Topo Sheet Key

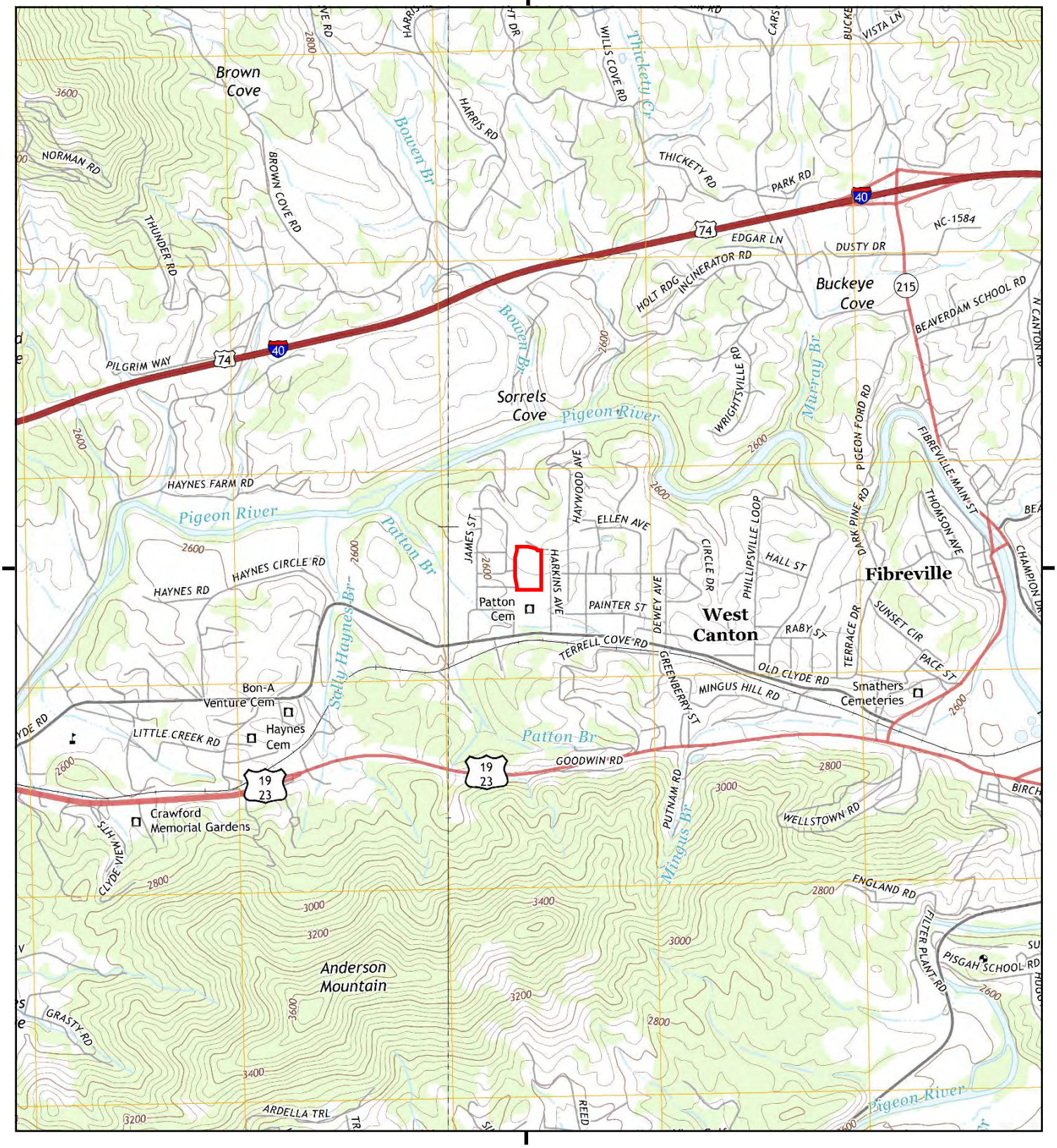
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1894 Source Sheets

Asheville
1894
30-minute, 125000

Historical Topo Map

2013



This report includes information from the following map sheet(s).

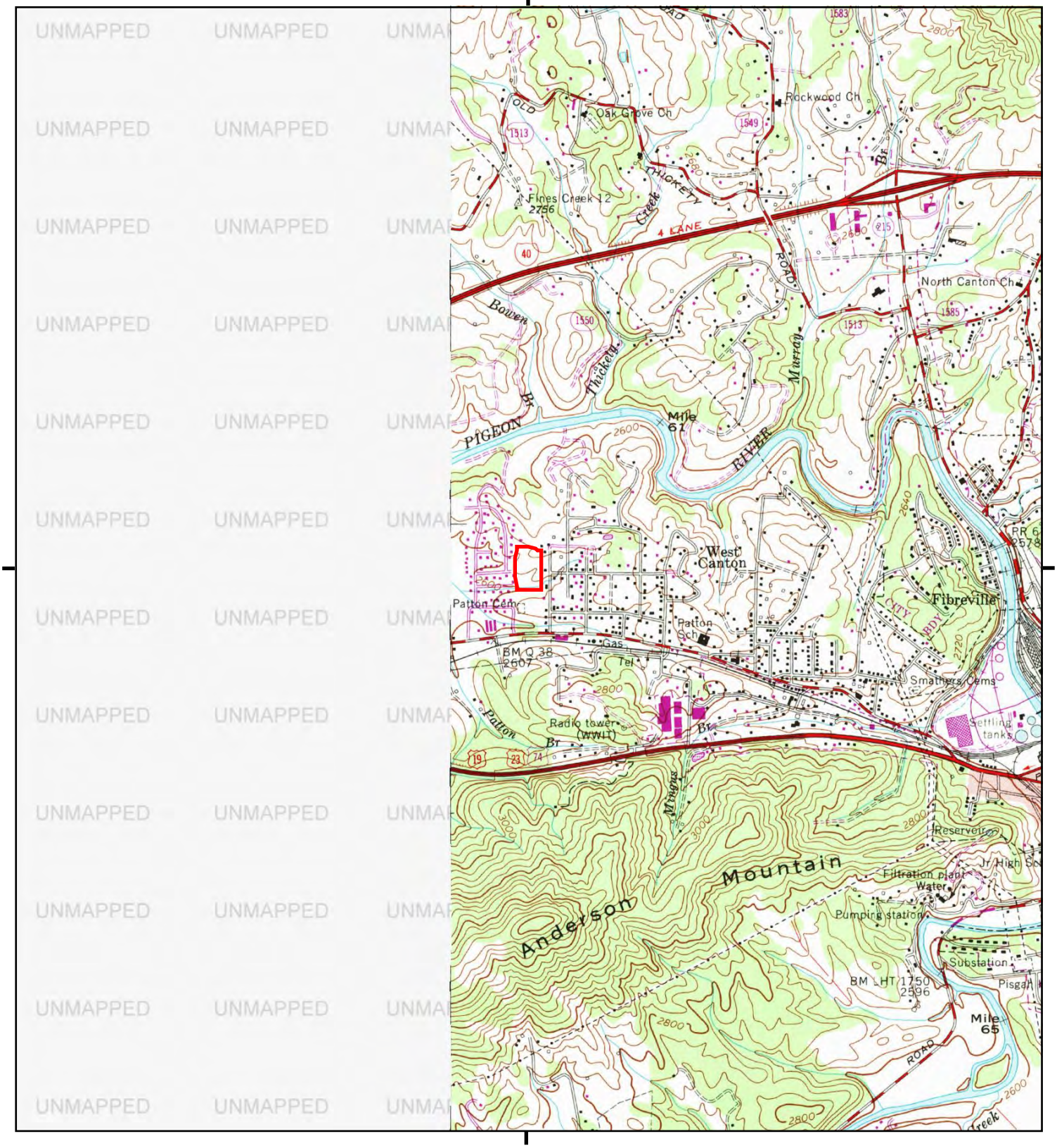
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Canton, 2013, 7.5-minute
NW, Clyde, 2013, 7.5-minute

SITE NAME: Brady Circle Development
ADDRESS: 111 KEITH ST
Canton, NC 28716
CLIENT: McGill Associates, P.A.

N



This report includes information from the following map sheet(s).

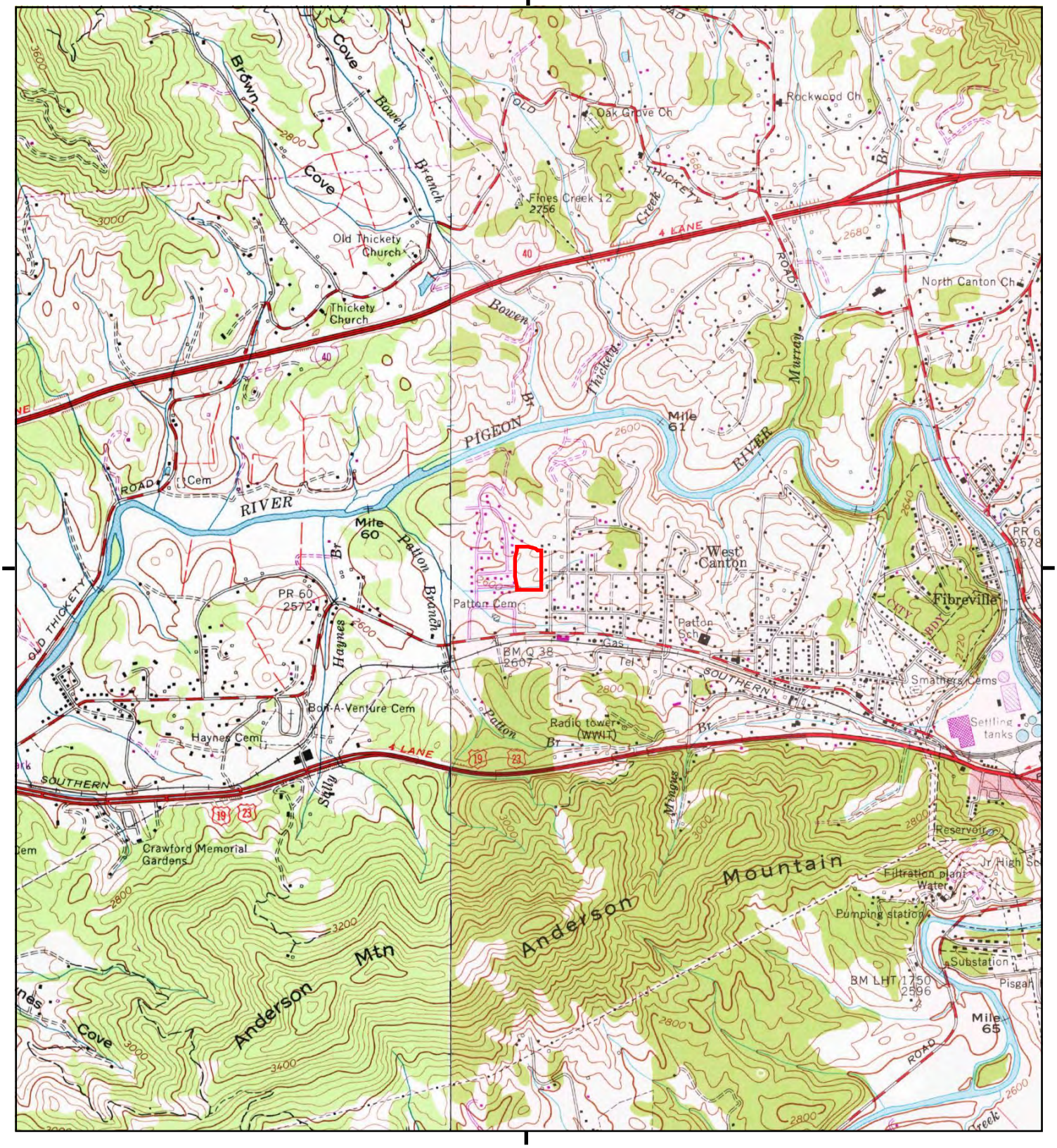
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Canton, 1990, 7.5-minute

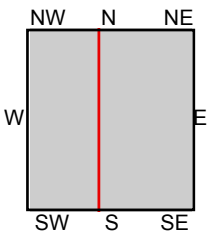
SITE NAME: Brady Circle Development
ADDRESS: 111 KEITH ST
Canton, NC 28716
CLIENT: McGill Associates, P.A.

N



This report includes information from the following map sheet(s).

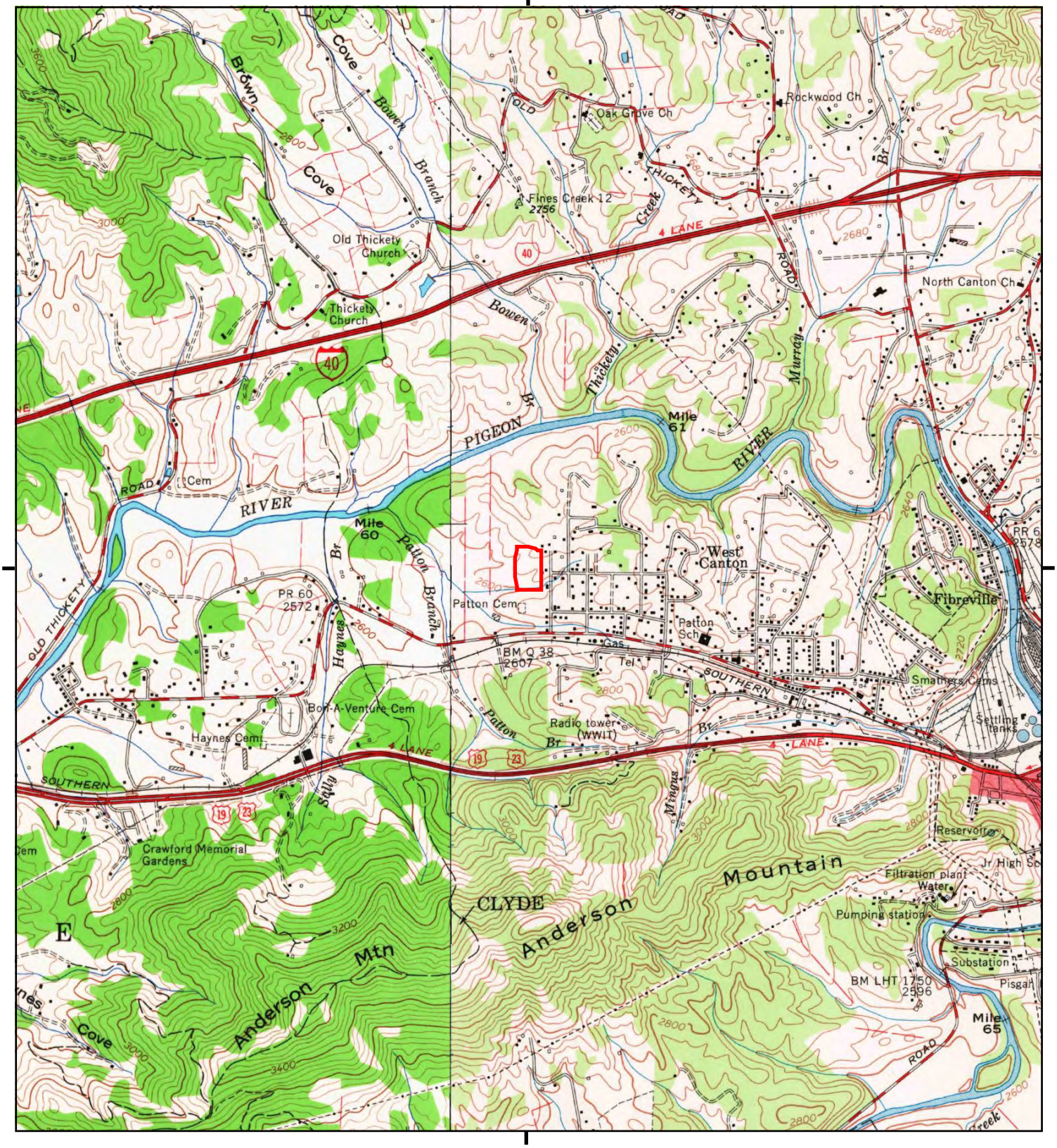
0 Miles 0.25 0.5 1 1.5



TP, Canton, 1979, 7.5-minute
NW, Clyde, 1978, 7.5-minute

SITE NAME: Brady Circle Development
ADDRESS: 111 KEITH ST
Canton, NC 28716
CLIENT: McGill Associates, P.A.

N



This report includes information from the following map sheet(s).

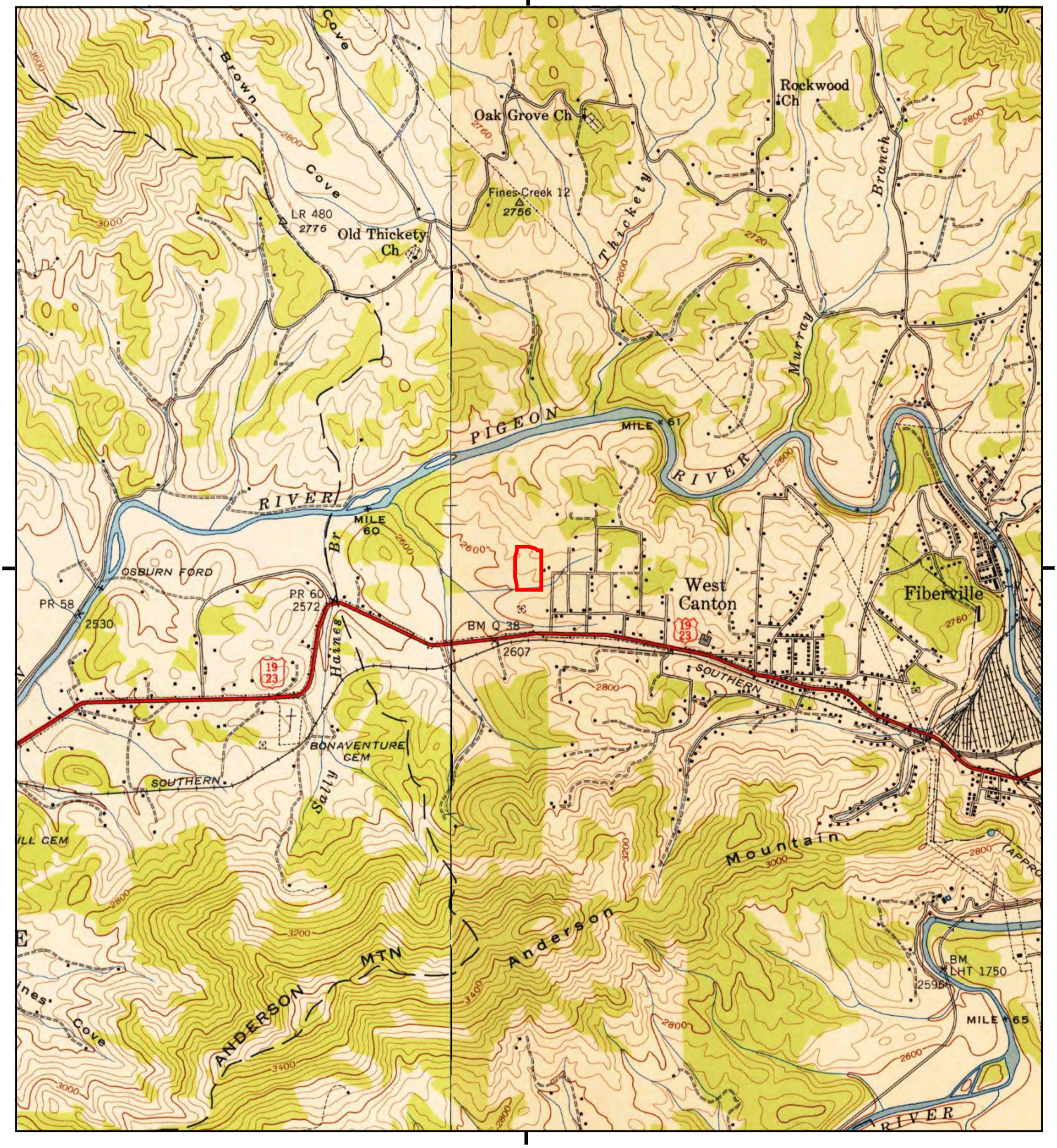
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Canton, 1967, 7.5-minute
NW, Clyde, 1967, 7.5-minute

SITE NAME: Brady Circle Development
ADDRESS: 111 KEITH ST
Canton, NC 28716
CLIENT: McGill Associates, P.A.

N



This report includes information from the following map sheet(s).

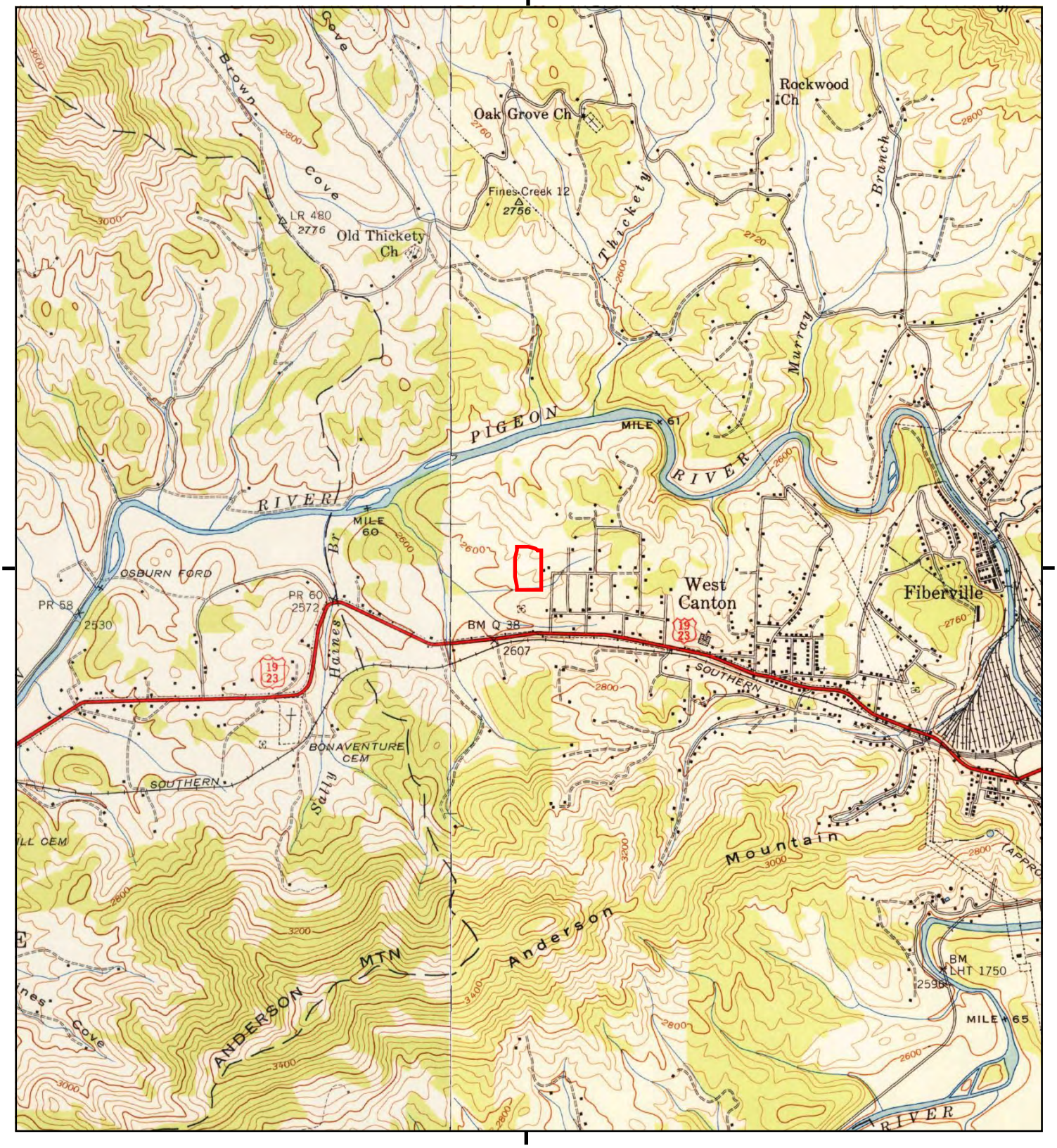
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Canton, 1942, 7.5-minute
NW, Clyde, 1942, 7.5-minute

SITE NAME: Brady Circle Development
ADDRESS: 111 KEITH ST
Canton, NC 28716
CLIENT: McGill Associates, P.A.

N



This report includes information from the following map sheet(s).

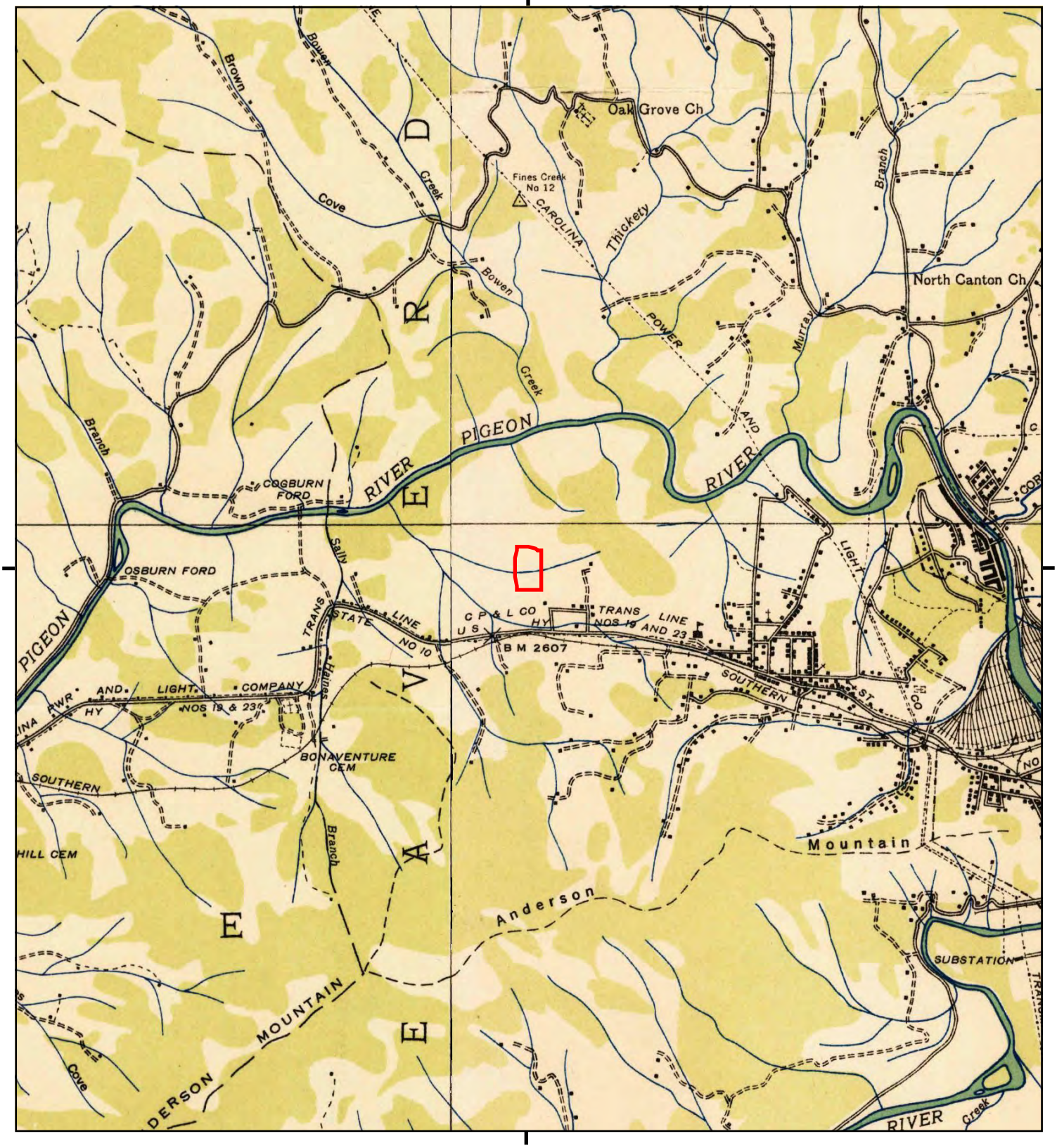
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Canton, 1941, 7.5-minute
NW, Clyde, 1941, 7.5-minute

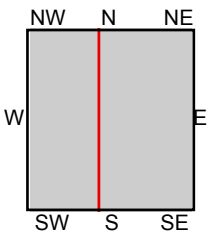
SITE NAME: Brady Circle Development
ADDRESS: 111 KEITH ST
Canton, NC 28716
CLIENT: McGill Associates, P.A.

N



This report includes information from the following map sheet(s).

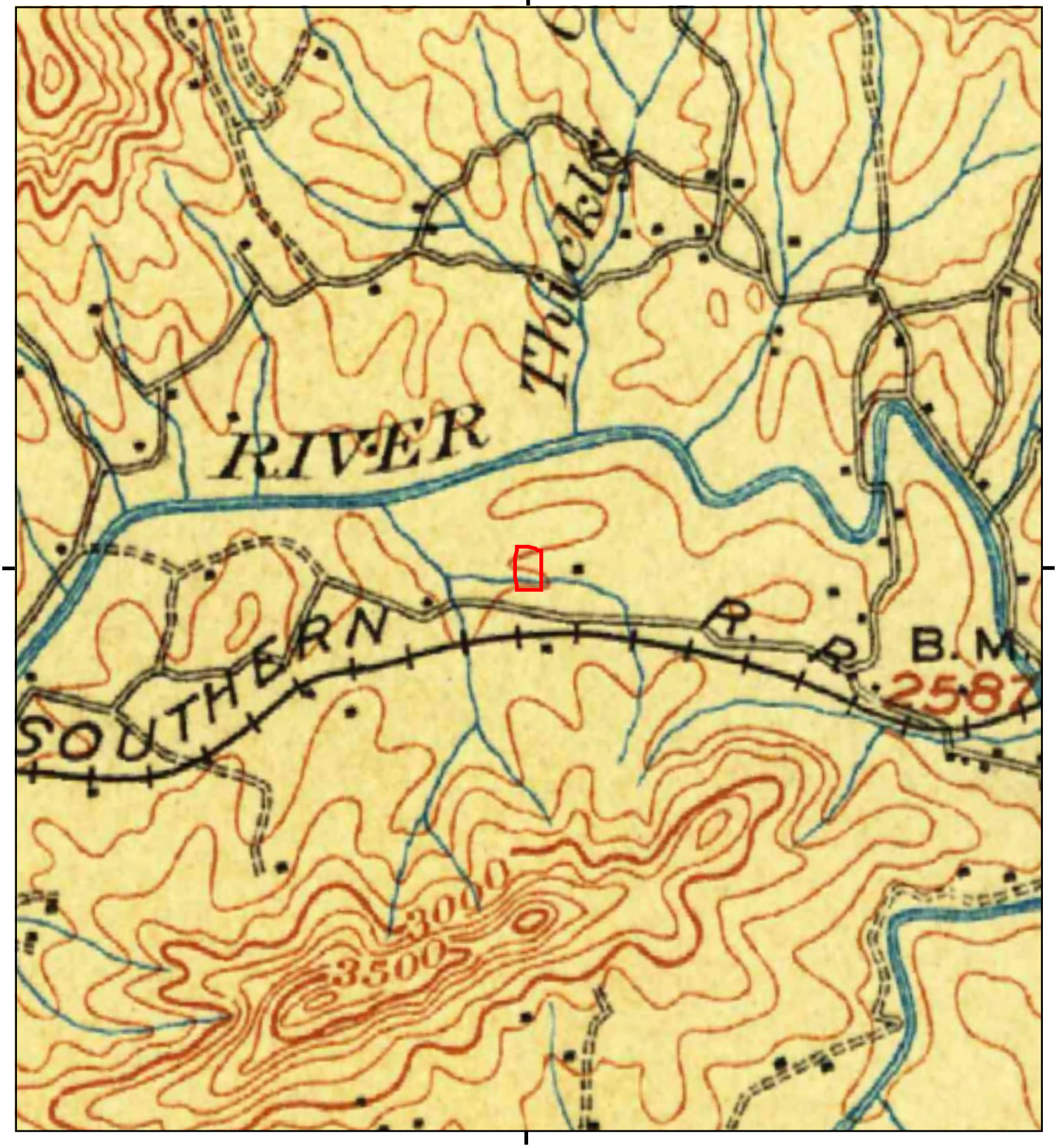
0 Miles 0.25 0.5 1 1.5



TP, Canton, 1935, 7.5-minute
NW, Clyde, 1935, 7.5-minute

SITE NAME: Brady Circle Development
ADDRESS: 111 KEITH ST
Canton, NC 28716
CLIENT: McGill Associates, P.A.

N



This report includes information from the following map sheet(s).

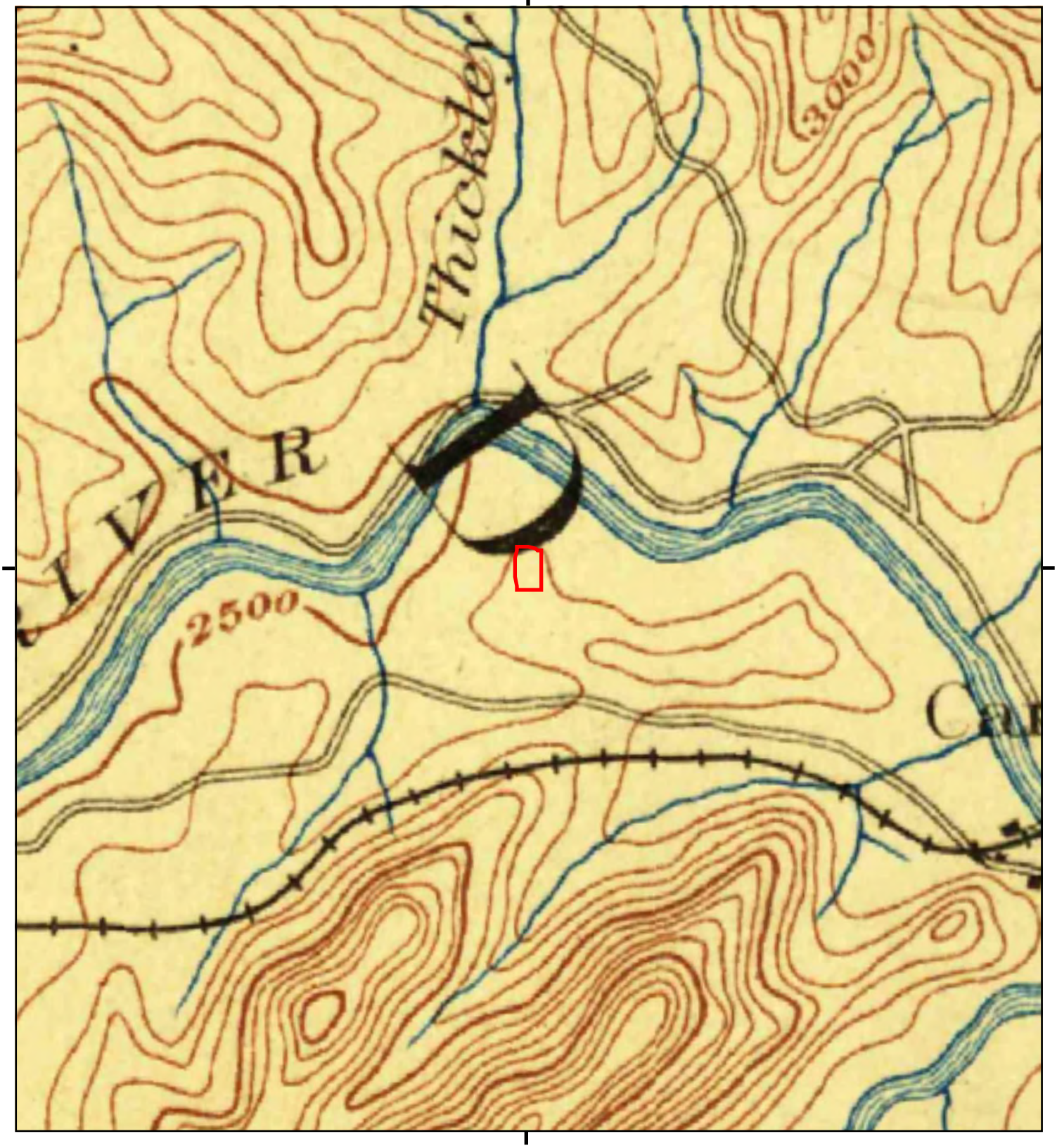
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Asheville, 1901, 30-minute

SITE NAME: Brady Circle Development
ADDRESS: 111 KEITH ST
Canton, NC 28716
CLIENT: McGill Associates, P.A.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Asheville, 1894, 30-minute

SITE NAME: Brady Circle Development
ADDRESS: 111 KEITH ST
Canton, NC 28716
CLIENT: McGill Associates, P.A.

N

Harkins Avenue Property

111 KEITH ST

Canton, NC 28716

Inquiry Number: 6564985.8

July 08, 2021

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/08/21

Site Name:

Harkins Avenue Property
111 KEITH ST
Canton, NC 28716
EDR Inquiry # 6564985.8

Client Name:

McGill Associates, P.A.
1013 State Farm Road
Boone, NC 28607
Contact: Jonathan Herman

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Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Acquisition Date: January 01, 1998	USGS/DOQQ
1995	1"=500'	Acquisition Date: January 01, 1995	USGS/DOQQ
1989	1"=500'	Flight Date: February 01, 1989	USDA
1985	1"=500'	Flight Date: April 10, 1985	USDA
1969	1"=500'	Flight Date: August 25, 1969	USGS
1957	1"=500'	Flight Date: March 16, 1957	NCDOT

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INQUIRY #: 6564985.8
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 6564985.8
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 6564985.8
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 6564985.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 6564985.8
YEAR: 1998
= 500'
N
EDR

INQUIRY #: 6564985.8
YEAR: 1995
= 500'
N
EDR

INQUIRY #: 6564985.8
YEAR: 1989
= 500'
N
EDR

INQUIRY #: 6564985.8
YEAR: 1985
= 500'
N
EDR

INQUIRY #: 6564985.8
YEAR: 1969
= 500'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 6564985.8

YEAR: 1957

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

Harkins Avenue Property
111 KEITH ST
Canton, NC 28716

Inquiry Number: 6564985.5
July 08, 2021

The EDR-City Directory Image Report

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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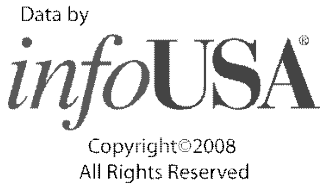

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2017	☑	☐	EDR Digital Archive
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive

FINDINGS

TARGET PROPERTY STREET

111 KEITH ST
Canton, NC 28716

Year	*CD Image*	*Source*
KEITH DR		
2017	pg A1	EDR Digital Archive
2014	pg A2	EDR Digital Archive
2010	pg A3	EDR Digital Archive
2005	pg A4	EDR Digital Archive
2000	pg A5	EDR Digital Archive
1995	pg A6	EDR Digital Archive
1992	pg A7	EDR Digital Archive

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KEITH DR 2017

43	KEITH, TERRY H
75	MAIER, JOAN Y
131	DAVIS, MICHAEL T
134	HAUPT, KELLY J
167	BALL, TROY E
178	BLAKE, PATRICIA M
205	MCCALL, CHERYL D
286	WILSON, STEVE C
308	COOK, RON L
312	MOORE, KIMBERLY D
314	WHITTED, CARL F
335	JUSTICE, TERRY N
350	FAULKNER, EVERETT R
361	MOORE, CHRISTOPHER L
479	STANBERRY, JULIE R
480	GARCIA-MARTHIER, MARGARET A

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KEITH DR 2014

34	OCCUPANT UNKNOWN,
43	KEITH, TERRY H
96	CLONTZ, PATRICK A
100	PRESNELL, TERA
131	DAVIS, MICHAEL T
167	BALL, TROY E
205	MCCALL, CHERYL D
286	OCCUPANT UNKNOWN,
308	COOK, RON L
312	MOORE, KIMBERLY D
314	WHITTED, KATHLEEN S
335	JUSTICE, TERRY N
350	FAULKNER, EVERETT R
361	MOORE, CHRISTOPHER L
370	OCCUPANT UNKNOWN,
479	WORLEY, CHAD M
480	PICCOLO, THOMAS E

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KEITH DR 2010

13	DIES, BRITTANY
34	OCCUPANT UNKNOWN,
43	KEITH, TERRY H
75	MODLIN, MATTHEW D
96	CLONTZ, PATRICK A
131	DAVIS, ROBERT K
167	BALL, TROY E
178	POWELL, RICHARD E
205	MCCALL, HERMAN I
248	RICE, TIMOTHY
286	OCCUPANT UNKNOWN,
308	COOK, RON L
312	MOORE, KIMBERLY D
314	WHITTED, KATHLEEN S
335	JUSTICE, TERRY N
350	FAULKNER, EVERETT R
370	AYERS, ROGER A
479	WORLEY, CHAD M
480	PICCOLO, THOMAS E

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KEITH DR 2005

13	DIES, BRITTANY
34	COX, DELLA
43	KEITH, TERRY H
56	THOMPSON, CHRISTINE B
75	MAIER, JOAN
94	THOMASON, CECIL F
96	CLONTZ, PATRICK A
100	JOHNSON, BOBBY L
131	LAVINE, CYNTHIA A
167	BALL, TROY E
178	POWELL, RICHARD E
286	WILSON, JEFF D
308	BELT, ROGER W
312	WHITTED, CHARLES D
314	WHITTED, KATHLEEN S
335	JUSTICE, TERRY M
350	FAULKNER, EVERETT
370	AYERS, ROGER A
479	WORLEY, LARRY E
480	THOMAS, BRUCE R

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KEITH DR 2000

56	THOMPSON, HOMER
94	THOMASON, CECIL F
100	JOHNSON, BOBBY L
167	BALL, TROY
178	KEITH, TERRY H
335	JUSTICE, TERRY N
480	THOMAS, BRUCE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KEITH DR 1995

4	THOMPSON, HOMER
8	THOMASON, CECIL F
15	EDDY, JAMES R
17	BALL, DEE R
20	OCCUPANT UNKNOWNN
21	BENSON, HAROLD
22	KEITH, TERRY H
30	OCCUPANT UNKNOWNN
34	HEAD, RICKY
54	AYERS, ROGER

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KEITH DR 1992

54 AYERS, ROGER

Harkins Avenue Property
111 Keith Street
Canton, NC 28716

Inquiry Number: 6564985.3

July 06, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/06/21

Site Name:

Harkins Avenue Property
111 KEITH ST
Canton, NC 28716
EDR Inquiry # 6564985.3

Client Name:

McGill Associates, P.A.
1013 State Farm Road
Boone, NC 28607
Contact: Jonathan Herman

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # A86E-4A93-8B33

PO # 21.00139

Project Harkins Avenue Property

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: A86E-4A93-8B33

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX E

SELECTED RECORDS FROM NCDEQ DATABASE FOR 'CHAMPION INTERNATIONAL LANDFILL NO 1' SITE

NCDENR

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF WASTE MANAGEMENT

JAMES B. HUNT JR.
GOVERNOR

BILL HOLMAN
SECRETARY

WILLIAM L. MEYER
DIRECTOR

May 10, 2000

Ms. Barbara Swann
Post Office Box 1732
Canton, North Carolina 28716

SUBJECT: Soil Sampling Results
Canton, Haywood County, North Carolina

Dear Ms. Swann:

As you are aware, the NC Superfund Section collected samples from your property on July 27, 1999 at your request. The samples were analyzed for organic and inorganic compounds by the Department of Health and Human Services, State Lab of Public Health, Environmental Sciences Unit. These chemicals are listed on the attached sheets. The dioxin samples were analyzed under the Environmental Protection Agency Contract Laboratory Program and these chemicals are also listed on the attached sheets.

These results were reviewed by Hanna Assefa, Environmental Toxicologist for the NC Superfund Section, and she has concluded that the soil data collected are within the acceptable risk range for residential properties. A copy of her evaluation is attached for your information.

If you have any questions regarding health concerns, please contact Hanna Assefa at (919) 733-2801 ext. 279. If you have any other questions, please contact Stephanie Grubbs, Superfund Section at (919)733-2801 ext. 315.

Sincerely,

Bruce Nicholson
Special Remediation Branch Head
Superfund Section

attachments
cc: Jack Butler
Dan Lamontagne
Charlotte Jesneck
Donna Keith
Stephanie Grubbs
Hanna Assefa
File

1646 MAIL SERVICE CENTER, RALEIGH, NORTH CAROLINA 27699-1646
401 OBERLIN ROAD, SUITE 150, RALEIGH, NC 27605
PHONE 919-733-4996 FAX 919-715-3605
AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER - 50% RECYCLED/10% POST-CONSUMER PAPER

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

RECEIVED
SEP 18 1995
SUPERFUND SECTION

September 11, 1995

Ms. Pat DeRosa, Head
CERCLA Branch
North Carolina Department of Environment,
Health and Natural Resources
Division of Solid Waste Management
P.O. Box 27687
Raleigh, North Carolina 27611-7687

Dear Ms. DeRosa:

The following reports have recently been reviewed and accepted by EPA - Region IV Site Assessment Section:

Preliminary Assessment

Tom Sadler Road Wells Mecklenburg County NCD 986 231 967	Further Action (FA)

Combined Preliminary Assessment / Site Inspections (PA/SIs)

Jimmy Green Metals Nash County NC0 000 195 743	FA

Site Inspections (SIs)

Champion Landfill No. 1 Haywood County NCD 986 188 001	No Further Remedial Action Planned (NFRAP)
Champion Landfill No. 2 Haywood County NCD 986 188 019	NFRAP
Champion Landfill No. 3 Haywood County NCD 986 188 027	NFRAP

Site Inspection Prioritizations (SIPs)

Amoco New Hanover County NCD 040 049 173	NFRAP
Ashe Pattern Shop Gaston County NCD 986 175 636	NFRAP
Gen. Elect. Med. Steam Turbine Durham County NCD 072 018 252	NFRAP
National Starch & Chemical Brunswick County NCD 091 572 073	NFRAP
Northeast Chemical Co. New Hanover County NCD 053 530 234	NFRAP
Texasgulf, Inc. Beaufort County NCD 041 519 364	FA
Union Carbide Corp. Pitt County NCD 003 184 249	NFRAP
Weyerhauser Co/ Plymouth Martin County NCD 991 278 540	FA
Wilmington Branch Brunswick County NCD 001 704 980	NFRAP

Enclosed please find the Remedial Site Assessment Decision Forms for each report generated by the North Carolina Superfund program and a copy of the actual report generated by the EPA Contractor.

If you have any questions concerning these site decisions, please call me at (404) 347-7791, Extension 2031.

Sincerely,

Cynthia K. Gurley

Cynthia K. Gurley
North Carolina, PO

One Champion Plaza
Stamford, Connecticut 06921
203 358-6935 [redacted]

PAT / [redacted]
I would consider this
A voluntary remedial action
And request A copy of ENGINEERS
report "AS CONSTRUCTED"
Bill
12/23/93

Champion
Champion International Corporation

December 6, 1993

Ms. Pat DeRosa
CERCLA Environmel
Division of Soli
Department of En
Natural Resource
41 Oberlin Road, Suite 150
Raleigh, NC 27605

RECEIVED
DEC 2 9 1993
SUPERFUND SECTION

RE: Canton No. 1 Landfill

Dear Ms. DeRosa:

Following our meeting on November 9, 1993, I spoke to Charlotte Jensneck, head of the Inactive Sites Branch, at your suggestion. I advised Ms. Jesneck that, based upon the results of well water, leachate, sedement and soil analyses, there is no reason to believe that contamination is being or will be released from the Canton mill's No. 1 Landfill. I told her that what we are dealing with is a need to maintain the structural integrity of the landfill slope. We discussed your idea that repair of the slope might be handled under the auspices of the Inactive Site Branch, but Ms. Jesneck, for good reason, did not think that such a project fit within her group's mandate.

As a result of my conversations with you, Ms. Jesneck and Bill Myer, Champion has decided to proceed with an evaluation of the alternatives to assure slope integrity in area of concern at the No. 1 Landfill. That process will be conducted by Champion engineers with the possible assistance, if necessary, of consulting engineers. When we have selected an alternative, I will send you information on the alternatives evaluated, the basis of our decision and a projected schedule for completion of the work. If you have any comments on any of this material, I certainly will be pleased to receive them.

In the meantime, if you would like to discuss this matter further, I am available at your convenience at (203) 358-6935.

Sincerely,

JC/AW

xc: [redacted]
Charlotte Jesneck

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Solid Waste Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

DEHNR

September 17, 1993

Mr. Dewey Harkins
17 Riverview Drive
Canton, NC 28716

Subject: Champion Landfill No. 1
Results of Residential Well Sampling

Dear Mr. Harkins:

The laboratory analyses for the private well samples collected at your residence by the North Carolina Superfund Section on May 5, 1993 have been completed. Your well was sampled as a part of the Site Inspection performed on Champion Landfill No. 1. The samples were analyzed for dioxin and furans, extractable and volatile organics, and inorganics. The dioxin and furan analyses were performed by a private laboratory under the US EPA's Contract Laboratory Program. The other samples were analyzed by the North Carolina State Laboratory.

No contaminants were detected in the water samples collected from your well. Copies of the appropriate laboratory data sheets containing the actual laboratory results have been attached. Based upon the results of the samples that we analyzed, the water from your well is considered safe to drink. If you have any questions regarding the results of your private well sampling, please contact me at (919) 733-2801. Thank you for your cooperation in permitting samples to be collected from your well.

Sincerely,

Robert E. Gandley
Environmental Engineer
North Carolina Superfund Section

cc: Derric Brown

May 14, 1992

To: Champion Landfill No. 1 File

From: Bruce Nicholson BN

Subj: Telecon with Mr. Don Link, NC Division of Environmental Management, Asheville, NC (704)251-6208.

I spoke with Mr. Link about the 1984 memo by Louis Justus at Champion which states that the groundwater beneath Landfill No. 1 is contaminated and that it had been reclassified as "Restricted". Mr. Link confirmed that the groundwater was contaminated (he will forward the data to us), but he said as far as he knows, the groundwater has not been reclassified.

He said that in the late 1960's a private well was sampled and found to be contaminated (he will forward this data too). He thought that soon afterwards that water lines were run from Canton for the whole neighborhood.

All of the analyses run on the groundwater were for inorganics and indicator parameters. There have been no organic sampling results.

bin\tel\champ5

CP 7064

TELEPHONE MESSAGE

TIME A.M. / P.M. | DATE May 4, 1984

MESSAGE FROM: Don Link (Regional NCDEM-Hydrologist II)

TO: Louie Justus

ITEMS DISCUSSED:

Groundwater Classification:

No.1 Landfill (Green Hill) - Mr. Link informed us that the groundwater at this site had been classified "RS" under the new regulations promulgated December 31, 1983. This information has been reported to the N.C. Department of Environmental Management, Raleigh. The classification was made because the chloride content in 1980 was 440 ppm and in 1981 was 380 ppm. The dissolved solids were 1220 and 1000 respectively. The groundwater well at this site is 261 feet deep.

RS classification - "RESTRICTED" (see (C) on attached page)

Groundwater = water below 20 feet or above if in the saturated zone.

{Don Link + Ted Minnick visited Canton Mill April 26, 1984
M.L. Ransmeier + Louie Justus toured WTP}

ACTION PLANNED OR TAKEN:

Mr. Link indicated that the tests showed a clearing of the water and was not recommending any action at this time.

xc: Bob Marlewski
Bob Moran
Dave Smiley
Bob Phillips
Mary Lee Ransmeier
Otto Tysland

Stamford:
Ed Clem
Harold Judd

SIGNED: Louie Justus

PHASE I ENVIRONMENTAL SITE ASSESSMENT

HARKINS AVENUE
WEST CANTON, HAYWOOD COUNTY
NORTH CAROLINA

Prepared For:
Mountain Projects
168 Patton Avenue
Asheville, North Carolina 28801

BLE Project Number 21-16546-02

October 14, 2025

BUNNELL LAMMONS ENGINEERING
30 Park Ridge Drive, Fletcher, NC 28732
828.277.0100 828.277.0110 info@blecorp.com
BLECORP.COM

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1.0 EXECUTIVE SUMMARY

As authorized by acceptance of our Proposal No. P21-16546-02 Rev1 by Mountain Projects (Mountain Projects) representatives, Bunnell-Lammons Engineering, Inc. (BLE) performed a Phase I Environmental Site Assessment (ESA) of the property identified as Haywood County Parcel Number 8647-83-7739 located at Harkins Avenue in West Canton, Haywood County, North Carolina (herein referred to as the "Site"). The purpose of the Phase I ESA was to identify Recognized Environmental Conditions (RECs) in general accordance with the American Society for Testing and Materials (ASTM) E 1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The Site location is indicated on the attached Figures 1 through 3 (**Appendix A**).

Findings & Opinions
BLE performed the Phase I ESA Site reconnaissance on September 24, 2025. BLE was provided access to the Site by Mr. Si Simmons, the Executive Director at Mountain Projects; however, BLE performed the Site reconnaissance unescorted. The following is a summary of BLE's findings and opinions of this assessment:

- The Site consists of one parcel of land identified by the Haywood County Tax Assessor as Parcel Number 8647-83-7739, totaling approximately 5.97 acres. The Site is located approximately 1.7 miles west of downtown Canton, North Carolina. The Site is generally bound by Harkins Avenue to the north and east, followed by residences along Candlelight Circuit to the west.

- At the time of the September 24, 2025 Site reconnaissance, the Site was composed of an undeveloped, vegetated field.

- Historical records indicate the Site has not been developed beyond a vegetated field or possible agricultural use. The current state of the Site is a vegetated field with varying topography throughout.

- Surrounding properties generally consist of residences.

- The surrounding area consisted primarily of agricultural and undeveloped land from at least the early 1950s through the late 1970s. Residential development began to appear and grow extensively in the 1980s. Commercial development would soon follow to the south of the Site in the mid to late 1980s.

Conclusions
We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E 1527-21 of Haywood County Parcel Number 8647-83-7739 located at Harkins Avenue in West Canton, Haywood County, North Carolina, the Site. Any exceptions to, or deletions from, this practice are described in Section 2.2 and/or Section 6.6 of this report. This assessment has revealed no REC(s) in connection with the Site.

In addition, no controlled recognized environmental conditions (CRECs), historical recognized environmental conditions (HRECs), *de minimis* conditions, or significant data gaps were identified during this assessment.

2.0 INTRODUCTION

This report documents the findings, opinions, and conclusions of a Phase I ESA of the Site, which is identified as Haywood County Parcel Number 8647-83-7739 located at Harkins Avenue in West Canton, Haywood County, North Carolina. BLE was retained by Mountain Projects, the Site owner, to prepare this report, which was performed in general accordance with ASTM E 1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The methods and terms used in this report are defined in the referenced proposal.

2.1 Purpose/Scope of Services

Good commercial and customary practice for conducting environmental site assessments has the goal of conducting all appropriate inquiries by providing an independent, professional opinion regarding recognized environmental conditions (RECs), as defined by ASTM, associated with the Site. The term REC means (1) the presence of hazardous substances or petroleum products in, on, or at the Site due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Site due to a likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Site under conditions that pose a material threat of a future release to the environment.

A *de minimis* condition is defined as a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate regulatory agencies. A condition determined to be *de minimis* is not a recognized environmental condition nor a controlled recognized environmental condition.

A historical recognized environmental condition (HREC) is defined as a previous release of hazardous substances or petroleum products affecting the Site that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Site to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

A controlled recognized environmental condition (CREC) is defined as a recognized environmental condition affecting the Site that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

Generally, the assessment included the following components:

- A review of readily-available information on general geology and topography of the Site, local groundwater conditions, sources of water, power, and sewer, and proximity to ecologically sensitive receptors, such as streams, that might be impacted by RECs and environmental issues.

- An investigation of the historical use of the Site through reasonably ascertainable ASTM Standard Historical Sources for evidence of prior land use that could have led to RECs. These Standard Historical Sources may include: aerial photography, fire insurance maps, property tax files, United States Geological Survey (USGS) topographic maps, local street directories, building department records, and/or zoning/land use records.

- A review of environmental records available from the client, Site owner, or Site contact including regulatory agency reports, permits, registrations, and consultant reports for evidence of RECs and Activity and Land Use Limitations (AULs).

- A review of a commercial database summary of ASTM Standard Federal, State, and Tribal regulatory agency records pertinent to the Site and off-site facilities located within ASTM-specified search distances from the Site.

- Interviews regarding current and previous uses of the Site, particularly activities involving hazardous substances and petroleum products.

- A reconnaissance of the Site for visual evidence of RECs, including, but not limited to: existing or potential sources of soil, water, or vapor contamination, as evidenced by soil or pavement staining or discoloration; stressed vegetation; indications of waste dumping or burial (pits, ponds, or lagoons); containers of hazardous substances or petroleum products; electrical and hydraulic equipment that may contain polychlorinated biphenyls (PCBs), such as electrical transformers and hydraulic hoists; underground and aboveground storage tanks (USTs and ASTs, respectively); etc.

- A visual assessment (from the line of the Site and/or public right-of-ways) of adjacent properties for evidence of potential off-Site environmental conditions that may affect the Site.

- An evaluation for the migration of hazardous substances or petroleum products in any form onto the Site, including the migration of solid, liquid, and/or vapor.

- An evaluation of the information gathered during the assessment by an Environmental Professional (as defined in §312.10 of 40 CFR 312) to reach conclusions concerning RECs, and development of this report.

This assessment did not include sampling or analysis of soil, groundwater, surface water, soil gas, or other media; however, in accordance with ASTM E 1527-21, this assessment did include evaluation of existing or potential sources of contamination from these various environmental media that may have resulted in the identification of a REC in, on or at the Site.

2.2 Assumptions, Limitations, and Exceptions

Information for the assessment was obtained from sources referenced in the report. This information, to the extent it was relied on to form our opinion, is assumed to be correct and complete. BLE is not responsible for the quality or content of information from these sources.

BLE has prepared this Phase I ESA using reasonable efforts in each phase of its work to identify RECs associated with hazardous substances or petroleum products at the Site. The scope-of-work for this Phase I ESA was consistent with the ASTM E 1527-21. Findings within this report are based on information collected from observations made on the day of the Site reconnaissance and from reasonably ascertainable information obtained from governing public agencies and referenced sources.

BLE's observations of the Site were generally from public right-of-ways, accessible Site pathways, areas within the Site boundaries, and/or interior and exterior areas of Site structures, if present and accessible. BLE determined the approximate Site boundaries from interpretation of aerial photographs, tax map records

obtained by referencing the Site address, on-Site survey markers (if present), and/or documents provided by the User.

This report is not definitive and should not be assumed to be a complete or specific definition of all conditions above or below grade. Subsurface conditions may differ from the conditions implied by the surface observations and can only be reliably evaluated through intrusive techniques. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes. BLE makes no representation or warranty that past or current operations at the Site are or have been in compliance with all applicable federal, state, and local laws, regulations, and codes. BLE's attempt to observe the Site for the presence or absence of hazardous substances or petroleum products, generation, treatment, storage, or disposal of such materials, and equipment that utilizes oils which potentially contain PCBs should not be considered exhaustive.

Regardless of the findings stated in this report, BLE is not responsible for consequences or conditions arising from illegal or improper site activities after our Site visit, facts that were concealed, withheld, or not fully disclosed at the time the assessment was conducted. This report does not warrant against past, present, or future operations or conditions, nor does it warrant against operations or conditions present of any type or at a location not investigated.

The regulatory database report provided is based on an evaluation of the data collected and compiled by a contracted data research company. The report focuses on the Site and neighboring properties that could impact the Site. Neighboring properties listed in governmental environmental records are identified within specific search distances. The search distance varies depending upon the particular government record being checked. The regulatory research is designed to meet the requirements of ASTM E 1527-21. The information provided in the regulatory database report is assumed to be correct and complete unless obviously contradicted by field observation or other reviewed sources.

Reasonable efforts have been made during this assessment to identify the presence or likely presence of any hazardous substances or petroleum products in, on, or at the Site. "Reasonable efforts" are limited to information gained from visual observation of largely unobstructed areas, recorded database information held in public record and available information gathered from interviews. Such methods may not identify subsurface equipment that may have been hidden from view due to paving, construction debris pile storage, vegetation, or incorrect information from available sources. Furthermore, *reasonably ascertainable* information includes information that is 1) publicly available, 2) obtainable from its source within reasonable time and cost constraints, and 3) practically reviewable.

BLE is not a professional title insurance firm and makes no guarantee, explicit or implied, that any land title records reviewed represent a comprehensive or precise delineation of past Site ownership or occupancy for legal purposes.

2.3 Special Terms and Conditions (User Reliance)

This report is for the use and benefit of, and may be relied upon by the User of this report (Mountain Projects), pursuant to previously agreed upon terms and conditions. Reliance on this document by any party other than Mountain Projects may occur only upon the express written consent of Mountains Projects, Inc., and upon the relying third party's execution of a written Secondary Client Agreement between the relying third party and BLE. The services provided have been performed for Mountain Projects and this report may or may not be suitable for any and/or all of the purposes of the relying third party. Use of this report for purposes beyond those reasonably intended by Mountain Projects and BLE will be at the sole risk of the

User. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations placed on the scope, nature and type of BLE's services as stated in BLE's proposal and/or this report, and with the acknowledgment that actual Site conditions may change with time, and hidden conditions may exist at the Site that were not discoverable within the authorized scope of the assessment. BLE makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied.

2.4 Report Validity

According to ASTM E 1527-21, certain components of the Phase I ESA will expire 180 days from the date of the component and subsequently may require updating in order to satisfy All Appropriate Inquiry. The issuance date of this report may not represent the date the individual components of All Appropriate Inquiries were completed and should not be used when evaluating compliance with the 180-days or 1-year All Appropriate Inquiries requirements. If 180 days have passed since the completion of a component of the Phase I ESA, the report should be updated to remain compliant with the All Appropriate Inquires requirement. The entire report will expire one year from the earliest date of a given component.

The following table lists the dates of completion for pertinent components:

Component	Date of Initiation
Environmental Database Search	September 16, 2025
Site Reconnaissance	September 24, 2025
Interviews	September 24, 2025
Declaration by Environmental Professional	October 14, 2025

2.4.1 Client's Obligations Under ASTM 1527-21

It should be understood by Client (as the "User") that BLE's search of institutional and engineering control databases do not necessarily meet the full intent of the rule for All Appropriate Inquiries, but instead, the User must review reasonably ascertainable and practically reviewable (i) transaction-related title insurance documentation including, but not necessarily limited to, preliminary title reports and title commitments; and/or (ii) title search information reports from third party vendors (provided that the reports meet certain specifications.) In the event that such documents or reports could reveal the actual or likely presence of any matters of environmental concern, it is our concern that the User's failure to procure and review such documents and reports may negatively impact the ability of the User to successfully claim that All Appropriate Inquiry was satisfied.

3.0 SITE DESCRIPTION

3.1 Location and Description

The Site consists of one parcel of land identified by the Haywood County Tax Assessor as Parcel Number 8647-83-7739, totaling approximately 5.97 acres. The Site is located approximately 1.7 miles west of downtown Canton, North Carolina. The Site is generally bound by Harkins Avenue to the north and east, followed by residences along Candlelight Circuit to the west.

3.2 Site Characteristics and Current Site Use

At the time of the September 24, 2025 Site reconnaissance, the Site was composed of an undeveloped, vegetated field.

3.3 Site Utilities

At the time of the Site reconnaissance, the Site consisted of undeveloped land and active utility services were not identified.

3.4 Surrounding Area General Characteristics

Surrounding properties generally consist of residences.

3.5 Current Use of Adjoining Properties

The current general uses and the inferred gradient of the adjoining and/or surrounding properties are provided in the following table. Up-gradient properties, if present, are generally inferred to be topographically and hydraulically upstream of the Site. Conversely, down-gradient properties, if present, are generally inferred to be topographically and hydraulicly downstream of the Site. Cross-gradient properties, if present, are generally at the same elevation as the Site.

Direction	Current Development	Inferred Gradient
North	Residential	Up-Gradient
Northeast	Residential	Up-Gradient
East	Residential	Cross-Gradient
Southeast	Residential	Cross-Gradient
South	Residential	Down-Gradient
Southwest	Residential	Down-Gradient
West	Residential	Down-Gradient
Northwest	Residential	Cross-Gradient

4.0 USER PROVIDED INFORMATION

ASTM E 1527-21 defines "User" as the party seeking to use Practice E 1527 to complete an environmental site assessment of the Site, and in this case, the User is Mountain Projects ASTM E 1527-21 specifies that certain tasks associated with identifying potential RECs at the Site should be performed by the User and provided to the Environmental Professional. ASTM E 1527-21 provides a User Questionnaire to assist the User and the Environmental Professional in gathering information from the User that may be material to identifying RECs.

As such, BLE provided a User/Client Questionnaire to Mountain Projects requesting specific information regarding the Site. The completed User/Client Questionnaire is included within **Appendix B** of this report.

4.1 Land Title and Judicial Records for Environmental Liens and Activity and Use Limitations

No land title record information was provided to BLE for review as part of this assessment. The process of searching and evaluating land title records or judicial records (as applicable) ordinarily requires specialized expertise provided by title insurance companies or title search professionals. ASTM 1527-21 indicates reviewing land title records for activity use limitations and environmental liens, or judicial records where applicable, is a User Responsibility. The procurement of such documents was not included in BLE's scope of services for this assessment.

BLE did not encounter evidence of environmental liens or activity and land use limitations during review of regulatory database records or reasonably ascertainable land title records. BLE's review of reasonably ascertainable records related to institutional and engineering control databases is not intended to fully satisfy the rule for this component of the Phase I ESA, as review of land title and judicial records is a User responsibility.

Refer to Section 6.2.3 for reasonably ascertainable land title records reviewed by BLE.

4.2 Specialized Knowledge, Actual Knowledge, and/or Experience

The User did not report to BLE specialized knowledge, actual knowledge, and/or experience related to environmental liens or activity use limitations encumbering the Site or in connection with the Site.

4.3 Significant Valuation Reduction for Environmental Issues

No commonly known or reasonably ascertainable information regarding valuation reduction for environmental issues associated with the Site was provided to BLE for this assessment.

4.4 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information material to RECs associated with the Site was provided to BLE for this assessment.

4.5 Degree of Obviousness

The User did not report to BLE the presence or likely presence of a release at the Site.

4.6 Owner, Property Manager, and Occupant Information

According to the User, the current Site owner is Mountain Projects The current Site occupant is Mountain Projects The current Site manager is Mr. Si Simmons, the Executive Director of Mountain Projects.

4.7 Reason for Performing Phase I ESA

BLE understands the main objective of this Phase I ESA was to identify the presence or likely presence, use, or release on the Site of hazardous substances or petroleum products as defined in ASTM Practice E 1527-21 as a REC. BLE assumes the purpose of this Phase I ESA is to perform environmental due diligence to assist the User in qualifying for Landowner Liability Protection through the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The Phase I ESA is one of the threshold criteria required to qualify for Landowner Liability Protection through CERCLA.

4.8 Other User-Provided Documents

No documents were provided by the User during this assessment.

5.0 SITE RECONNAISSANCE

The Site reconnaissance consisted of visual and/or physical observations of the Site and adjoining properties from public right-of-ways and easily accessible pathways. Site photograph documentation is included in **Appendix C**. A Site Location Map and an Aerial Photograph Map of the Site are included in **Appendix A**.

Mr. Colby T. Clark, a Staff Professional, performed the Site reconnaissance on September 24, 2025, under the supervision of Mr. David R. Loftis, a Professional Engineer and an Environmental Professional as defined in §312.10 of 40 CFR 312. At the time of the Site reconnaissance, BLE was accompanied by BLE was provided access to the Site by Mr. Si Simmons, the Executive Director at Mountain Projects; however, BLE performed the Site reconnaissance unescorted.

At the time of the Site visit, the weather was clear and sunny. Suitable visibility was present at the time of the Site reconnaissance. The following is a summary of visual and/or physical observations of the Site on the day of the Site visit.

5.1 Site Operations, Processes, and Equipment

Site Operations, Processes, and Equipment	
Item or Feature	Observed
Emergency generator(s)	No
Air compressors	No
Dry cleaning	No
Waste treatment system(s) and/or water treatment system(s)	No
Other processes or equipment	No

The Site consists of 5.97 acres of undeveloped vegetated field. Operations, processes, and equipment were not observed during the Site reconnaissance.

5.2 Petroleum, Chemical, or Waste Storage

Petroleum, Chemical, or Waste Storage	
Item or Feature	Observed
UST(s) or ancillary UST equipment	No
Aboveground storage tank(s)	No
Drum(s), barrel(s), and/or container(s) > 5 gallons	No
Parts Washer(s)	No
Solid Waste Dumpster(s)	No
Other	No

Petroleum, chemical, and waste storage were not observed during the Site reconnaissance.

5.3 Drainage and Collection Systems

Draining and Collection Systems	
Item or Feature	Observed
Grease trap(s)	No
Septic tank(s) and/or leach field(s)	No
Interior Floor Drain(s)	No
Oil-water separator(s)	No
Other	No

Drainage and collection systems were not observed on the Site during the Site reconnaissance.

5.4 Electrical Transformers and PCB Containing Equipment

Electrical Transformers and PCB Containing Equipment	
Item or Feature	Observed
Pad or pole mounted transformer(s)	No
Hydraulic Lift(s)	No
Hydraulic Equipment	No
Other equipment	No

The Site consists of 5.97 acres of undeveloped wooded land. Electrical transformers and PCB containing equipment was not observed during the Site reconnaissance.

5.5 Other Notable Site Features

Item or Feature	Observed
Surface water bodies	Yes
Quarries or pits	No
Well(s)	No
Sump(s), cistern(s), catch basin(s)	No
Stormwater / runoff management	No
Pipeline marker(s)	No
Other Site features	No

A small stream was observed on the southern edge of the Site boundary.

5.6 Releases or Potential Releases

Item or Feature	Observed
Stressed vegetation	No
Stained soil	No

Item or Feature	Observed
Stained pavement or similar surface	No
Leachate and/or waste seep(s)	No
Trash, debris and/or other waste material(s)	No
Dumping or disposal area(s)	No
Construction/demolition debris and/or dumped fill dirt	No
Surface water discoloration, odor, sheen, and/or free-floating product	No
Strong, pungent, or noxious odor(s)	No
Exterior pipe discharge(s) and/or other effluent discharge(s)	No
Other	No

Evidence of releases or potential releases were not observed during the Site reconnaissance.

6.0 RECORDS REVIEW

The objective of compiling and analyzing historical Site information and developing a history of the previous uses of the Site, adjoining properties, and surrounding area is to help identify the likelihood of past uses having led to RECs in connection with the Site. As such, BLE reviewed the following historical sources, as part of the historical research for this Phase I ESA.

6.1 Standard Environmental Records

The regulatory agency database report discussed in this section, provided by Environmental Data Resources Inc. (EDR), was reviewed for information regarding reported releases of hazardous substances and/or petroleum products on or near the Site. BLE also reviewed the "unmappable" (sometimes referred to as "orphan") listings within the database report, cross-referencing available address information, and facility names when possible. Unmappable properties are listings that could not be plotted with confidence, but are identified as being located within the general area of the Site based on the submitted Site information. The *EDR Radius Map Report* is included in **Appendix D** of this report. The following table is a summary of the findings from the EDR report:

Regulatory Database	ASTM E 1527-21 Minimum Search Distance
Lists of Federal NPL (Superfund) sites	1.0 mile
Lists of Federal Delisted NPL sites	0.5 mile
Lists of Federal sites subject to CERCLA removals and CERCLA orders	0.5 mile
Lists of Federal CERCLA sites with NFRAP	0.5 mile
Lists of Federal RCRA facilities undergoing Corrective Action	1.0 mile
Lists of Federal RCRA TSD facilities	0.5 mile
Lists of Federal RCRA generators	Site or adjoining properties
Federal institutional control/engineering control registries	Site
Federal ERNS list	Site
Lists of state- and tribal "Superfund" equivalent sites	1.0 mile
Lists of state- and tribal hazardous waste facilities	1.0 mile
Lists of state and tribal landfills and solid waste disposal facilities	0.5 mile
Lists of state and tribal leaking storage tanks	0.5 mile
Lists of state and tribal registered storage tanks	Site or adjoining properties
State and tribal institutional control/ engineering control registries	Site
Lists of state and tribal voluntary cleanup sites	0.5 mile
Lists of state and tribal brownfield sites	0.5 mile

6.1.1 Summary of State and Federal Environmental Database Records Review

Site
The Site was not listed on the applicable state and/or federal environmental databases.

Adjoining Properties
Adjoining properties were not listed on the applicable state and/or federal environmental databases.

Surrounding Properties
Surrounding properties were not listed on the applicable state and/or federal environmental databases.

Additional surrounding properties were identified in the environmental databases and reviewed by BLE. However, it is BLE's opinion these properties do not represent a REC, due to their topographic gradient, hydrogeologic separation from the Site, and/or the information provided in available regulatory database records.

6.2 Local Regulatory Agency Findings

BLE researched practically reviewable and reasonably ascertainable information from local agencies in an effort to obtain historical use information and/or information regarding RECs that may be associated with the Site. Local agencies contacted and records reviewed are discussed throughout applicable portions of this report and are further summarized below.

6.2.1 State Regulatory File Review

A Freedom of Information (FOI) request was submitted to the North Carolina Department of Environmental Quality (NCDEQ) FOI Office in an attempt to identify available regulatory records on-file associated with the Site and the adjoining properties listed in the applicable regulatory databases (See Section 6.1). At the time of issuance of this report, the NCDEQ had denied the existence of department files associated with the Site. Should relevant files become available, BLE will notify the Client and issue an addendum to this report upon request.

In addition, BLE searched the North Carolina Department of Environmental Quality (NCDEQ) Division of Waste Management Laserfiche Weblink and Geographic Information System (GIS) Maps online for additional information pertaining to the Site. The NCDEQ programs searched include Brownfields, Hazardous Waste, Solid Waste, Superfund, underground storage tanks (USTs), and DSCA. Information obtained is included in applicable sections of this report. Documents obtained are included in **Appendix E**.

6.2.2 Fire Department Records

BLE contacted the Haywood County Fire Marshal office in an attempt to identify available records on-file associated with the fire department's responses to the Site. At the time of issuance of this report, the fire department had neither confirmed nor denied the existence of department files associated with the Site. Should relevant files become available, BLE will notify the Client and issue an addendum to this report upon request.

6.2.3 Recorded Land Title Records

Haywood County Tax records indicate the current Site owner is Mountain Project, Inc. Refer to the following table for the most recent property transaction reviewed by BLE.

Property Transaction			
Owner	Date	Deed Book	Deed Page
Mountain Project, Inc.	September 27, 2021	1043	1001-1003
Tiffany Melissa Warren	Prior to September 27, 2021	1043	1001-1003

Refer to **Appendix E** for the property card(s) providing historical ownership information reviewed by BLE. Additional property transactions were not reviewed by BLE nor included within the scope of services for this Phase I ESA. In the event a title search is performed, BLE requests to review the provided information and issue an addendum letter to this Phase I ESA if the information alters the findings and conclusions of this report.

6.3 Standard Historical Record Sources

Historical sources were reviewed to develop a history of past uses of the Site as well as the adjoining and surrounding area. The findings obtained from these historical sources are discussed in the following sections.

6.3.1 Aerial Photographs

Aerial photographs, ranging from 1957 to 2022 and provided by EDR, were reviewed for information regarding past uses of the Site and surrounding properties. The aerial photographs are included in **Appendix F**. The following table provides information related to the reviewed aerial photographs.

Year	Site	Adjoining and Surrounding Properties
1957 1969	The Site is an undeveloped, vegetated field.	North – Suspected agricultural land. East – Suspected residential structures. South – Suspected agricultural land. West – Suspected agricultural land.
1985	The Site is an undeveloped, vegetated field.	North – Suspected residential structures. East – Suspected residential structures. South – Suspected agricultural land. West – Suspected residential structures.
1989	The Site is an undeveloped, vegetated field.	North – Suspected residential structures. East – Suspected residential structures. South – Suspected agricultural land. West – Suspected residential structures.
1995	The Site is an undeveloped, vegetated field.	North – Suspected residential structures. East – Suspected residential structures. South – Suspected agricultural land. West – Suspected residential structures.

Year	Site	Adjoining and Surrounding Properties
1998 2006 2010 2014 2018 2022	The Site is an undeveloped, vegetated field.	North – Suspected residential structures. East – Suspected residential structures. South – Suspected residential structures. West – Suspected residential structures.

6.3.2 Fire Insurance Maps

A search of available Sanborn Fire Insurance Maps (Sanborn Maps) was conducted on behalf of BLE by EDR. According to EDR, Sanborn Map coverage of the Site and the immediately surrounding area was not identified. The "No Coverage" letter provided by EDR is provided in **Appendix G**.

6.3.3 City Directories

City directory records obtained by EDR, ranging from 1974 to 2022, were reviewed for information regarding past uses of the Site and surrounding properties. The City Directory records are attached in **Appendix H**. Properties along Harkins Avenue were generally listed with names indicative of residential development.

The following table provides a general overview of the reviewed city directory records.

Year	Site *Harkins Avenue, West Canton, North Carolina*	Notable Adjoining Properties	Notable Surrounding Properties
1974	Not Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed	Harkins Avenue: None Listed Old Clyde Road: 165 – Canton Chemical Co Inc 141 – Cole Frank Auto & Eqpt Repair, Gillett Paint & Body Shop 63 – Pace Body Shop
1980	Not Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed	Harkins Avenue: None Listed Old Clyde Road: 141- Cole Frank Automotv & Eqpt Repair, Gillett Paint & Body Shop
1985	Not Listed	Harkins Avenue: None Listed Old Clyde Road:	Harkins Avenue: None Listed Old Clyde Road:

Year	Site *Harkins Avenue, West Canton, North Carolina*	Notable Adjoining Properties	Notable Surrounding Properties
		None Listed	141 – Cole Frank Automotv & Eqpt Repair, Gillett Paint & Body Shop 102 – Haywood Tech College Green House
1987	Not Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed	Harkins Avenue: None Listed Old Clyde Road: -- Browning Truck & Eqpt Sales 141 – Cole Frank Automotv & Eqpt Repair, Gillett Paint & Body Shop
1992	Not Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed
1995	Not Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed
2000	Not Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed	Harkins Avenue: None Listed Old Clyde Road: 5760 – Clark Trucking Company 6106 – A 1 Mobile Truck And Towing Service, A1 Towing Services Incorporated
2005	Not Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed
2010	Not Listed	Harkins Avenue: None Listed Old Clyde Road:	Harkins Avenue: None Listed Old Clyde Road:

Year	Site *Harkins Avenue, West Canton, North Carolina*	Notable Adjoining Properties	Notable Surrounding Properties
		None Listed	6110 – Brigman Electric Motors Inc
2014	Not Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed	Harkins Avenue: None Listed Old Clyde Road: 6110 – Brigman Electric Motors Inc
2017	Not Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed	Harkins Avenue: None Listed Old Clyde Road: 6110 – Brigman Electric Motors Inc, Brigman Electric Sales & Services
2022	Not Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed	Harkins Avenue: None Listed Old Clyde Road: None Listed

6.3.4 Historical USGS Topographic Quadrangles

Topographic maps obtained by EDR, ranging from 1894 to 2022, were reviewed for information regarding past uses of the Site and surrounding properties. The topographic maps are attached in **Appendix I**. The following table provides information related to the reviewed topographic maps.

Year	Site	Adjoining and Surrounding Properties
1894	No structures depicted on Site.	North – Pigeon River. East – No structures or landmarks depicted. South – No structures or landmarks depicted. West – No structures or landmarks depicted.
1901	Stream depicted in the southern portion of the Site flowing east to west.	North – Pigeon River. East – Stream. South – Roadway and railway. West – Stream.

Year	Site	Adjoining and Surrounding Properties
1935	Stream depicted in the central portion of the Site flowing east to west.	North – Stream. East – Stream, roadway, and suspected residential structure. South – Roadway and railway. West – Stream.
1941 1942 1967	Stream depicted in the southern portion of the Site flowing east to west.	North – Suspected residential structure. East – Stream, roadway, and suspected residential structure. South – Stream Roadway, railway, and suspected residential structure. West – Stream.
1978,1979 1990	Stream depicted in the southern portion of the Site flowing east to west.	North – Suspected residential structure. East – Stream, roadway, and suspected residential structure. South – Roadway, railway, and suspected residential structure. West – Stream, roadway, and suspected commercial and residential structure.
2013 2016 2019 2022	The maps depict major topographic features and roadways. Buildings are not depicted on these maps. North of the Site is the Pigeon River, to the east is the town of West Canton, south is Patton Cemetery, and to the west is Candlelight Circuit.	

6.3.5 Building Department Records

BLE performed a review of reasonably ascertainable and readily available publicly city and/or county building department records. The building department records review included reviewing building records obtained from West Canton, Haywood County, and/or standard regulatory database services. BLE contacted the Haywood County Planning and Development Department which stated that there were no building records associated with the Site.

6.3.6 Zoning/Land Use Records

According to the Haywood County Zoning Map, the Site does not appear to be zoned.

6.3.7 Property Tax Files

The Site consists of one parcel of land identified as Haywood County Parcel Number 8647-83-7739. BLE reviewed readily available tax files for the Site as maintained by Haywood County. Indications of *RECs* or environmental liens were not identified by BLE through the reviewed tax files. In addition, the User did not report tax liens or environmental liens associated with the Site.

6.4 Historical Review Summary

Historical records indicate the Site has not been developed beyond a vegetated field or possible agricultural use. The current state of the Site is a vegetated field with varying topography throughout.

The surrounding area consisted primarily of agricultural and undeveloped land from at least the early 1950s through the late 1970s. Residential development began to appear and grow extensively in the 1980s. Commercial development would soon follow to the south of the Site in the mid to late 1980s.

6.5 Physical Setting Sources

6.5.1 Topography

ASTM E 1527-21 requires a review of a current United States Geological Survey 7.5-minute topographic maps. Additional physical setting sources may be reviewed to assist in evaluating the potential for hazardous substances or petroleum products to migrate to the Site from an off-Site source.

According to the *Canton and Clyde,* North Carolina USGS Topographic Map, 7.5-Minute Series, dated 2022, elevation at the Site is approximately 2,650 feet above mean sea level. BLE utilized a USGS topographic map to generate the Site Location Map, which is included in **Appendix A**. The Site has a general topographic gradient to the south and west, toward a stream named Patton Branch.

6.5.2 Geology/Hydrogeology

The following table provides geologic information obtained during the course of this Phase I ESA:

Geology / Hydrogeology	
Rock Stratigraphic Unit	Precambrian, Precambrian, Paragneiss and schist (Ym)
Description	Metamorphic Rocks
Inferred Hydrogeologic Gradient (Site)	Southwest

6.5.3 Soils

According to the United States Department of Agriculture's (USDA) Soil Conservation Service (SCS), surficial (i.e., on or near the surface) soil composition in the immediate vicinity of the Site is classified under the Hayesville Group. The Hayesville Group has a surficial soil texture of a loam and is classified in the hydrologic group as "Class B": moderate infiltration rates, deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

6.6 Data Gap Summary

The accuracy and completeness of this report may be limited by the following:

- Access Limitations – No access limitations were encountered during the course of this assessment.
- Physical Obstructions to Observations – No physical obstruction limitations were encountered during this assessment.
- Historical Data Source Failure – BLE obtained and reviewed reasonably ascertainable historical sources as listed in ASTM E 1527-21 for the Site and adjoining properties. Based on our review, historical data source failures were not encountered during the course of this assessment.
- Interviews – BLE attempted to conduct interviews with past and present Site owners, operators, and occupants as well as state and local officials to obtain information associated with the Site. Not

all interview requests were returned during the time frame of this report. Additional information regarding interviews is detailed in Section 7.0.

- Other – There are intervals greater than five years between selected standard historical sources because the standard historical sources to achieve that level of documentation were not reasonably ascertainable.

Considering the history of land use as documented on available historical sources as well as current Site findings, no limitations were identified that are considered significant enough to have affected our ability to identify RECs in connection with the Site.

Should additional information become available, which differs significantly from that observed during the Site reconnaissance, interviews, and research performed during the completion of this assessment, we request that this information be brought to our attention so that we may reassess the conclusions provided herein.

7.0 INTERVIEW SUMMARY

The following persons were contacted to obtain information regarding RECs in connection with the Site and/or general information regarding the Site:

Name	Title	Company	Contact Method Date	Summary of Interview
Si Simmons	Site Owner/Executive Director of Mountain Properties Inc.	Mountain Properties, Inc.	Owner Interview/User Questionnaire	See Below
General Staff	N/A	NCDEQ	Email Date September 18, 2025	See Section 6.2.1
General Staff	N/A	Haywood County Building and Development Department	Phone	See Section 6.3.5

Information obtained during interviews is incorporated throughout applicable portions of this report.

BLE requested that Mr. Si Simmons complete the BLE User Questionnaire to obtain information regarding the Site. Mr. Simmons indicated that he had no knowledge of any potential contamination or prior chemical releases on Site. Furthermore, he stated that to the best of his knowledge there are no ASTs, USTs, or other equipment on Site, and no other known contacts with knowledge of the Site and its history.

8.0 FINDINGS

BLE performed a Phase I ESA in general conformance with the scope and limitations of ASTM E 1527-21, as outlined in BLE Proposal No. P21-16546-02 Rev1, for the Site identified as Haywood County Parcel Number 8647-83-7739 located at Harkins Avenue in West Canton, Haywood County, North Carolina. The following is a summary of BLE's findings and opinions of this assessment:

- The Site consists of one parcel of land identified by the Haywood County Tax Assessor as Parcel Number 8647-83-7739, totaling approximately 5.97 acres. The Site is located approximately 1.7 miles west of downtown Canton, North Carolina. The Site is generally bound by Harkins Avenue to the north and east, followed by residences along Candlelight Circuit to the west.

- At the time of the September 24, 2025 Site reconnaissance, the Site was composed of an undeveloped, vegetated field.

- Historical records indicate the Site has not been developed beyond a vegetated field or possible agricultural use. The current state of the Site is a vegetated field with varying topography throughout.

- Surrounding properties generally consist of residences.

- The surrounding area consisted primarily of agricultural and undeveloped land from at least the early 1950s through the late 1970s. Residential development began to appear and grow extensively in the 1980s. Commercial development would soon follow to the south of the Site in the mid to late 1980s.

9.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E 1527-21 of Haywood County Parcel Number 8647-83-7739 located at Harkins Avenue in West Canton, Haywood County, North Carolina, the Site. Any exceptions to, or deletions from, this practice are described in Section 2.2 and/or Section 6.6 of this Phase I ESA. This assessment has revealed the following:

9.1 Recognized Environmental Conditions (RECs)

No RECs were identified during this assessment.

9.2 Controlled Recognized Environmental Conditions (CRECs)

No CRECs were identified during this assessment.

9.3 Historical Recognized Environmental Conditions (HRECs)

No HRECs were identified during this assessment.

9.4 De Minimis Conditions

No *de minimis* conditions were identified during this assessment.

9.5 Significant Data Gaps

No significant data gaps were encountered during this assessment.

10.0 CERTIFICATION OF ENVIRONMENTAL PROFESSIONALS

BLE has performed this ESA of Haywood County Parcel Number 8647-83-7739 located at Harkins Avenue in West Canton, Haywood County, North Carolina, the Site. The scope of the ESA was generally consistent with ASTM E 1527-21. Resumes for the following environmental professionals are included in **Appendix J**.

This assessment was prepared under the supervision of Mr. David R. Loftis, Asheville Branch Manager and an Environmental Professional as defined by 40 CFR 312.10. We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 C.F.R. § 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. Part 312. The User may have additional responsibilities to fully qualify for the Landowner Liability Protections through CERCLA and such items are not the responsibilities of the Environmental Professionals.

Sincerely,

BUNNELL-LAMMONS ENGINEERING INC.

Site Assessor and Report Author:

Colby T. Clark, G.I.T.
Staff Professional

Environmental Professional:

David R. Loftis, P.E.
Asheville Branch Manager

11.0 REFERENCES

ASTM, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process,* ASTM Designation E 1527-21

EDR Standard Package
- Aerial Photo Decade Package
- EDR City Directory Abstract Report
- EDR Historical Topographic Map Report
- EDR Radius Map Report
- EDR Sanborn Map Report

Geographic Information System (GIS) Database of Haywood County, North Carolina – https://maps.haywoodcountync.gov/gisweb/default.htm

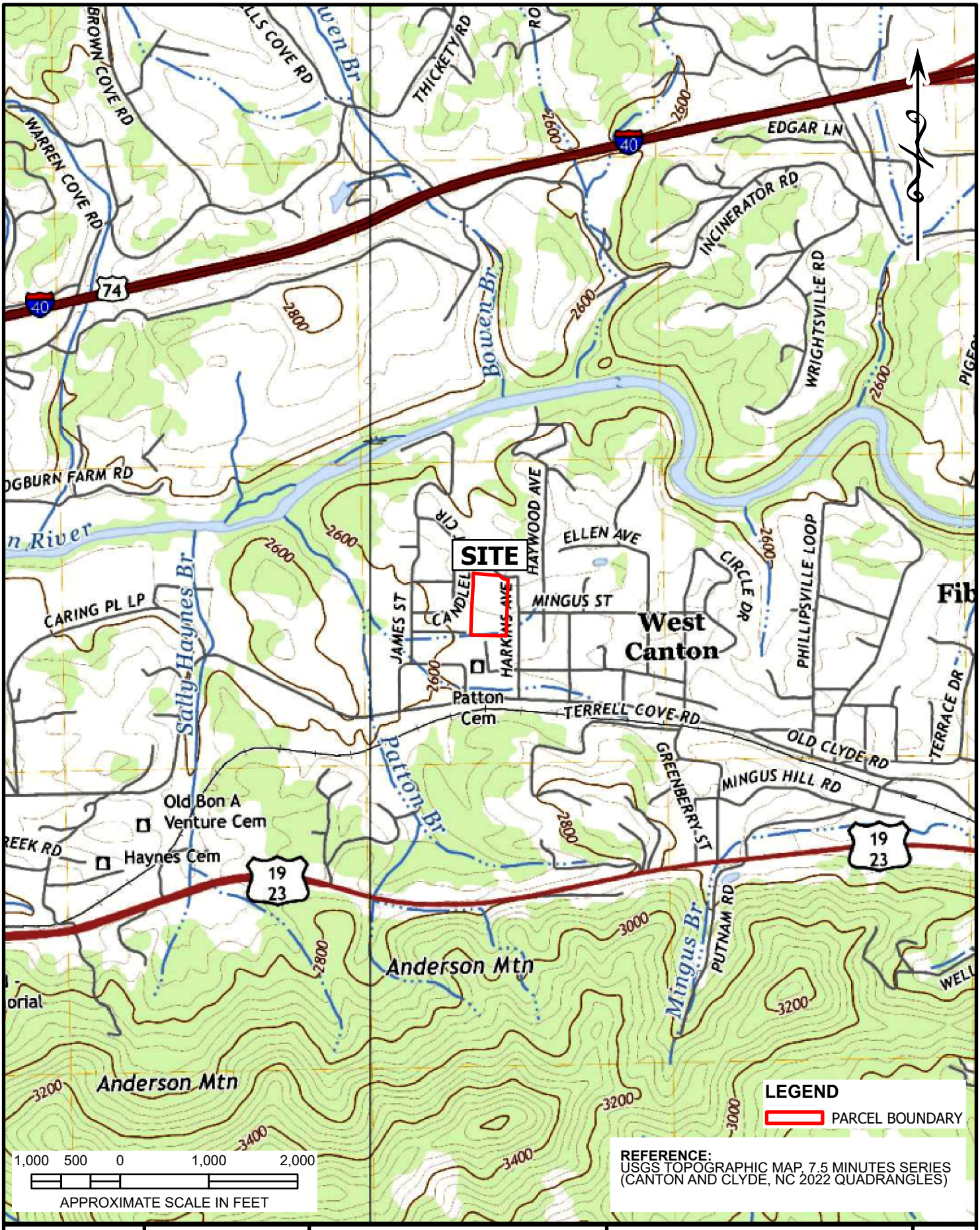
Haywood County Government Website - https://www.haywoodcountync.gov/

NCDEQ Laserfiche Weblink - https://edocs.deq.nc.gov/WasteManagement/?dbid=0&repo=WasteManagement

NCDEQ Waste Management GIS and Maps - https://deq.nc.gov/about/divisions/waste-management/science-data-and-reports/waste-management-gis-data-and-maps

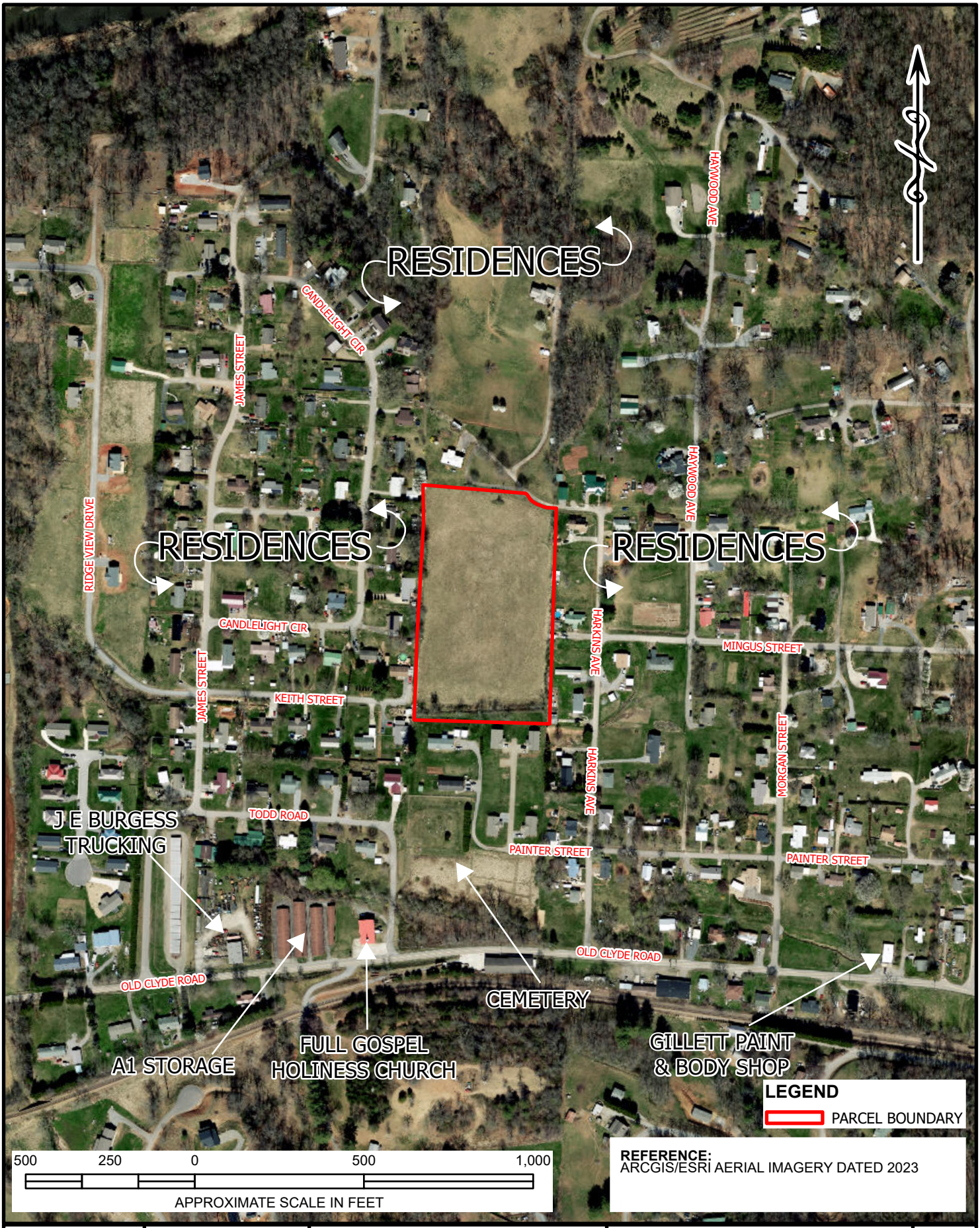
EPA ECHO - https://echo.epa.gov/facilities/facility-search

Appendix A
Figures



DRAWN BY: CTC	DATE: 9/16/2025	BUNNELL LAMMONS ENGINEERING	FIGURE
CHECKED BY: DRM	FILE NAME: FIGURE1-SLM	SITE LOCATION MAP HARKINS AVENUE HAYWOOD COUNTY, NORTH CAROLINA	1
APPROVED BY: DRL	JOB NO: 21-16546.02		

DRAWN BY: CTC	DATE: 9/16/2025	BUNNELL LAMMONS ENGINEERING	AERIAL PHOTOGRAPH OF SITE HARKINS AVENUE HAYWOOD COUNTY, NORTH CAROLINA	FIGURE 2
CHECKED BY: DRM	FILE NAME: FIGURE2-APSS			
APPROVED BY: DRL	JOB NO: 25-16546.02			



DRAWN BY: CTC	DATE: 9/16/2025	BUNNELL LAMMONS ENGINEERING	SURROUNDING PROPERTIES MAP HARKINS AVENUE HAYWOOD COUNTY, NORTH CAROLINA	FIGURE 3
CHECKED BY: DRM	FILE NAME: FIGURE3-SPM			
APPROVED BY: DRL	JOB NO: 25-16546.02			

Appendix B
User/Client Questionnaire

BUNNELL LAMMONS ENGINEERING

USER/CLIENT QUESTIONNAIRE
ASTM PRACTICE E 1527-21

To be returned to BLE with the authorized proposal

To be eligible for one of the requirements to qualify for one of the *Landowner Liability Protections* offered under CERCLA, please provide the following information (if available) to BLE for inclusion in our assessment report. According to the referenced ASTM standard, missing or incomplete information could result in a determination that "*all appropriate inquiry*" is not complete. If you have any questions, please contact your BLE representative.

GENERAL INFORMATION

User/client name(s):	Mountain Projects, Inc.
Property name and address:	PIN # 8647-83-7739 Harkins Ave Canton NC, 28716
Property type/use:	Open Field
Type of property transaction:	***(Purchase, sale, exchange, etc.)*** Mountain Projects, Inc.
Reason ESA is being performed:	***(Lender requirement, insurance requirement, risk management, etc.)*** Funding Agency Requirement
Property contact(s) information:	Si Simmons, Executive Director Mountain Projects, Inc. 828-507-7303
Other contact(s) with knowledge of property history:	None known

REQUIRED INFORMATION *(if "yes" to any question, please provide information to BLE)*

1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

No

2. Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).
Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

No

3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).
As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No

4. Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).
Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

Not applicable, the property is already owned by Mountain Projects, Inc.

5. Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).
Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,
(a.) Do you know the past uses of the *property*? No
(b.) Do you know of specific chemicals that are present or once were present at the *property*? No
(c.) Do you know of spills or other chemical releases that have taken place at the *property*? No
(d.) Do you know of any environmental cleanups that have taken place at the *property*? No

6. The degree of obviousness of the presence or likely presence of contamination at the *property* and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).
As the *user* of this *ESA*, based on your knowledge and experience related to the *property*, are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?

No

SIGNATURE

It is understood that the information presented in this form is an integral part of the requested ASTM E 1527-21 Phase I ESA process and that BLE will evaluate and rely on this information in the development of the final Phase I ESA report.

Prepared By:

Print/Type Name: Si Simmons

Title: Executive Director

Company: Mountain Projects, Inc.

Date: September 24, 2025

According to the referenced standard, the user/client is under obligation to provide the environmental professional (BLE) with current and/or historical documents regarding environmental conditions at the subject property. Listed below are some examples of the types of documents that may help us complete the ESA:

- Maps showing property boundary, County Assessor parcel number, and major subject property features, Aerial photographs and fire insurance maps;
- Environmental liens, Recorded Activity and Use Limitations (AULs), prior Phase I ESA/Transaction Screen reports, Phase II ESA reports, reports of soil/groundwater sampling data, report of any subsurface investigations, Phase III Cleanup or Remediation documentation, Risk Assessment reports, Geotechnical Investigation reports, Environmental Compliance Audit reports, asbestos/lead paint/radon/mold/indoor air quality reports, wetland/natural resources assessments;
- Underground/Aboveground Storage Tank (UST/AST) registrations, installation dates, construction type, capacity, location information, documentation for other underground equipment such as associated UST piping, sumps, cisterns, clarifiers, oil/water separators, catch basins, wells (including dry wells), and underground injection systems, regulatory agency inspection records and violation history, notices or other correspondence from local, state, and federal regulatory agencies relating to past or current violations of environmental laws, spill/release notification reports, SARA 313 (Form R) reports, hazardous waste generator notices, hazardous waste manifests, environmental permits and registrations (such as solid waste and/or hazardous waste disposal, wastewater discharge permits with local sewer districts and/or NPDES, hazardous waste treatment, including Permit-By-Rule, Conditional Authorization, and/or Conditional Exemption), air emission permits (for boilers, paint booths, etc.), including boilers, paint booths, etc.;
- Safety plans, preparedness and prevention plans, spill prevention, countermeasure and control plans, etc. Community right-to-know plans.

BLE appreciates your cooperation and values the opportunity to provide you with these services.

Thank you.

Appendix C
Photograph Log

Photo 1: Facing north from the southern portion of the Site.

Photo 2: Eastern portion of the Site facing west.

Photo 3: Western portion of the south facing north.

Photo 4: Small stream located in the southern portion of the Site.

Photo 5: Residential area located west of the Site.

Photo 6: Residential area located south of the Site.

Photo 7: Residential area located east of the Site.

Photo 8: Residential area located north of the Site.

Photo 9: Full Gospel Holiness Church located to the south of the Site.

Photo 10: A1 Storage located to the south of the Site.

Appendix D
Regulatory Database Report

Harkins Avenue
Harkins Avenue, Haywood County, North Carolina
Canton, NC 28716

Inquiry Number: 8109381.2s
September 16, 2025

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

HARKINS AVENUE, HAYWOOD COUNTY, NORTH CAROLINA
CANTON, NC 28716

COORDINATES

Latitude (North):	35.5398660 - 35° 32' 23.51''
Longitude (West):	82.8707170 - 82° 52' 14.58''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	330408.9
UTM Y (Meters):	3934325.2
Elevation:	2649 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	50022426 CANTON, NC
Version Date:	2022
Northwest Map:	50022429 CLYDE, NC
Version Date:	2022

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20220923, 20221007
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
HARKINS AVENUE, HAYWOOD COUNTY, NORTH CAROLINA
CANTON, NC 28716

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	BENFIELD CHEMICALS		NC HSDS	Same	999, 0.189, SE
Reg	CHAMPION LANDFILL #2		NC HSDS	Same	3451, 0.654, West
Reg	CHAMPION LANDFILL #1		NC HSDS	Same	1406, 0.266, ENE
Reg	CHAMPION LANDFILL #3		NC HSDS	Same	2303, 0.436, ENE
A1	LONGS CHAPEL UNITED	175 OLD CLYDE HIGHWA	LUST, IMD	Lower	786, 0.149, SSE
A2	BENFIELD CHEMICALS	OLD CANTON CLYDE HYW	SEMS-ARCHIVE, SHWS	Lower	827, 0.157, SSE
3	CHAMPION INTERNATION	SR 1571 & 1573	SHWS	Higher	1674, 0.317, ENE
4	MEASE RESIDENCE (MIL	441 CIRCLE DRIVE	LUST, LUST TRUST, IMD	Higher	2079, 0.394, ENE
5	PANTRY 421 FORMER	P. O. BOX 1410	SHWS, IMD	Higher	2954, 0.559, SE
6	CHAMPION LANDFILL NO	SR 1550 I40	SHWS	Higher	3631, 0.688, ENE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

EXECUTIVE SUMMARY

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ---- List of Solid Waste Facilities
DEBRIS ---- Solid Waste Active Disaster Debris Sites Listing
OLI ---- Old Landfill Inventory
LCID ---- Land-Clearing and Inert Debris (LCID) Landfill Notifications

Lists of state and tribal leaking storage tanks

LAST ---- Leaking Aboveground Storage Tanks
INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST ---- Underground Storage Tank Listing
UST ---- Petroleum Underground Storage Tank Database
AST ---- AST Database
INDIAN UST ---- Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL ---- No Further Action Sites With Land Use Restrictions Monitoring

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Responsible Party Voluntary Action Sites

Lists of state and tribal brownfield sites

BROWNFIELDS ---- Brownfields Projects Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ---- Recycling Center Listing
HIST LF ---- Solid Waste Facility Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
US CDL ---- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---- CERCLA Lien Information

EXECUTIVE SUMMARY

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Spills Incident Listing
SPILLS 90	SPILLS 90 data from FirstSearch
SPILLS 80	SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
MINES MRDS	Mineral Resources Data System
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing

PFAS WQP ..... Ambient Environmental Sampling for PFAS
PFAS NPDES ..... Clean Water Act Discharge Monitoring Information
PFAS PROJECT ..... NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS ECHO ..... Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAIN ..... Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT ..... All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC ..... Aqueous Foam Related Incidents Listing
BIOSOLIDS ..... ICIS-NPDES Biosolids Facility Data
UST FINDER RELEASE ..... UST Finder Releases Database
UST FINDER ..... UST Finder Database
E MANIFEST ..... Hazardous Waste Electronic Manifest System
PFAS ..... PFAS Contamination Site Listing
AIRS ..... Air Quality Permit Listing
ASBESTOS ..... Asbestos Permits & Notifications Information
CCB ..... Coal Ash Structural Fills (CCB) Listing
COAL ASH ..... Coal Ash Disposal Sites
DRYCLEANERS ..... Drycleaning Sites
Financial Assurance ..... Financial Assurance Information Listing
NPDES ..... NPDES Facility Location Listing
PCSRP ..... Petroleum-Contaminated Soil Remediation Permits
SEPT HAULERS ..... Permitted Septage Haulers Listing
UIC ..... Underground Injection Wells Listing
AOP ..... Animal Operation Permits Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ..... EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner ..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS ..... Recovered Government Archive State Hazardous Waste Facilities List
RGA LF ..... Recovered Government Archive Solid Waste Facilities List
RGA LUST ..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 06/26/2025 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BENFIELD CHEMICALS	***OLD CANTON CLYDE HYW***	***SSE 1/8 - 1/4 (0.157 mi.)***	***A2***	***13***

Lists of state- and tribal (Superfund) equivalent sites

NC HSDS: The Hazardous Substance Disposal Sites list contains locations of uncontrolled and unregulated hazardous waste sites. The file contains sites on the national priority list as well as the state priority list. The data source is the North Carolina Center for Geographic Information and Analysis.

A review of the NC HSDS list, as provided by EDR, and dated 08/09/2011 has revealed that there are 4 NC HSDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BENFIELD CHEMICALS		SE 1/8 - 1/4 (0.189 mi.)	0	8
CHAMPION LANDFILL #2		W 1/2 - 1 (0.654 mi.)	0	8
CHAMPION LANDFILL #1		ENE 1/4 - 1/2 (0.266 mi.)	0	8
CHAMPION LANDFILL #3		ENE 1/4 - 1/2 (0.436 mi.)	0	9

Lists of state- and tribal hazardous waste facilities

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environment & Natural Resources' Inactive Hazardous Sites Program.

A review of the SHWS list, as provided by EDR, and dated 04/30/2025 has revealed that there are 4 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHAMPION INTERNATION	SR 1571 & 1573	ENE 1/4 - 1/2 (0.317 mi.)	3	14

Facility Id: NCD986188001				
PANTRY 421 FORMER	***P. O. BOX 1410***	***SE 1/2 - 1 (0.559 mi.)***	***5***	***18***
Facility Id: NONCD0002262				
CHAMPION LANDFILL NO	SR 1550 I40	ENE 1/2 - 1 (0.688 mi.)	6	20
Facility Id: NCD986188027				

Lower Elevation	Address	Direction / Distance	Map ID	Page
BENFIELD CHEMICALS	***OLD CANTON CLYDE HYW***	***SSE 1/8 - 1/4 (0.157 mi.)***	***A2***	***13***
Facility Id: NCD986171445				

Lists of state and tribal leaking storage tanks

LUST: The Leaking Underground Storage Tank Incidents Management Database contains an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environment, & Natural Resources' Incidents by Address.

A review of the LUST list, as provided by EDR, and dated 01/24/2025 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEASE RESIDENCE (MIL	***441 CIRCLE DRIVE***	***ENE 1/4 - 1/2 (0.394 mi.)***	***4***	***15***
Incident Number: 28191				
Current Status: File Located in House				

Lower Elevation	Address	Direction / Distance	Map ID	Page
LONGS CHAPEL UNITED	***175 OLD CLYDE HIGHWA***	***SSE 1/8 - 1/4 (0.149 mi.)***	***A1***	***9***
Incident Phase: CO				
Incident Number: 22679				
Current Status: File Located in Archives				

LUST TRUST: This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

A review of the LUST TRUST list, as provided by EDR, and dated 12/27/2024 has revealed that there is 1 LUST TRUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEASE RESIDENCE (MIL	***441 CIRCLE DRIVE***	***ENE 1/4 - 1/2 (0.394 mi.)***	***4***	***15***
Site ID: 28191				

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

IMD: Incident Management Database.

A review of the IMD list, as provided by EDR, and dated 04/04/2025 has revealed that there are 2 IMD sites within approximately 0.5 miles of the target property.

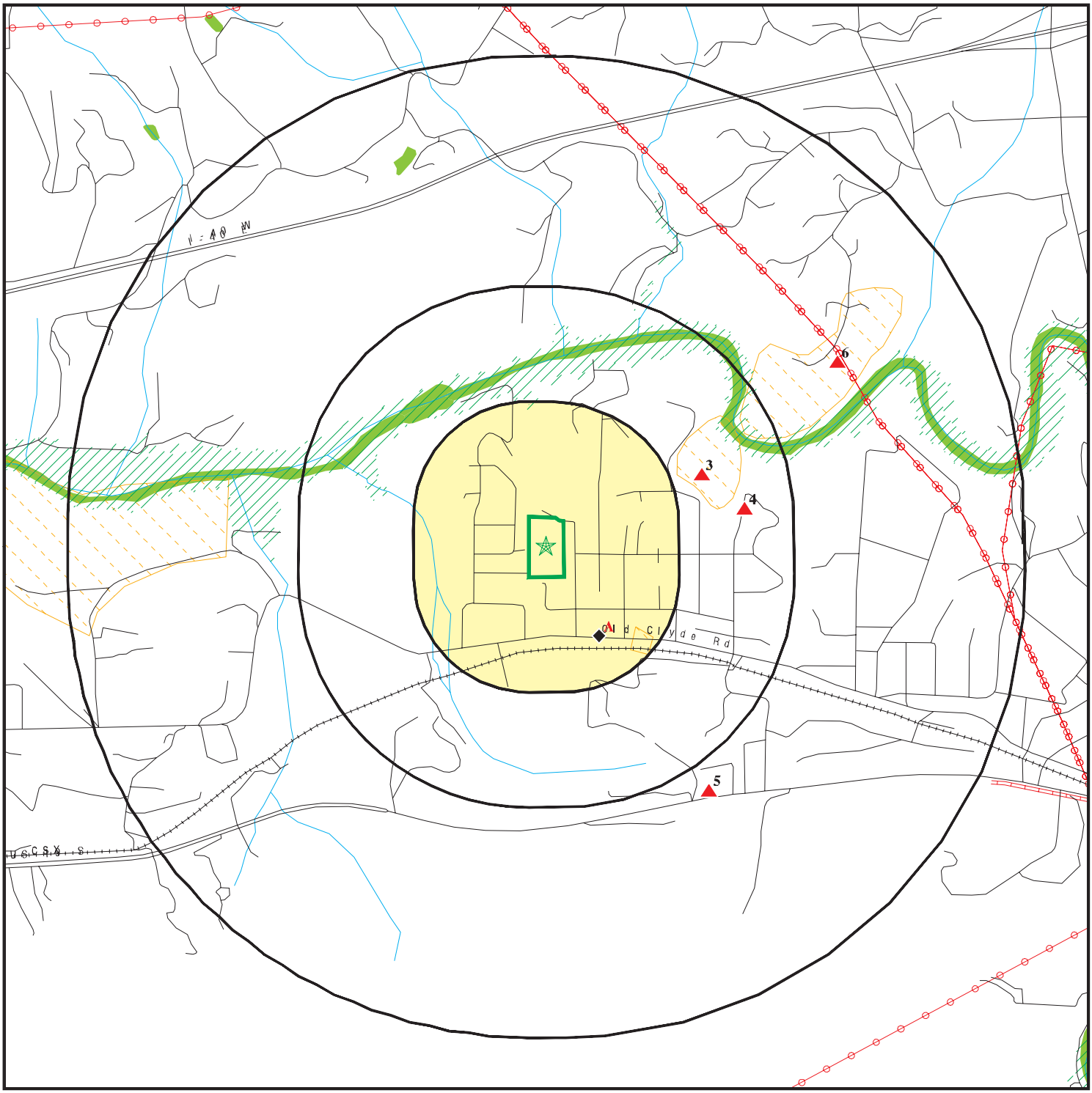
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEASE RESIDENCE (MIL Facility Id: 28191	***441 CIRCLE DRIVE***	***ENE 1/4 - 1/2 (0.394 mi.)***	***4***	***15***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LONGS CHAPEL UNITED Facility Id: 22679	***175 OLD CLYDE HIGHWA***	***SSE 1/8 - 1/4 (0.149 mi.)***	***A1***	***9***

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 8109381.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Pipelines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Hazardous Substance Disposal Sites

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Harkins Avenue	CLIENT:	Bunnell-Lammons Engineering
ADDRESS:	Harkins Avenue, Haywood County, North Carolina Canton NC 28716	CONTACT:	Colby Clark
		INQUIRY #:	8109381.2s
LAT/LONG:	35.539866 / 82.870717	DATE:	September 16, 2025 9:36 am

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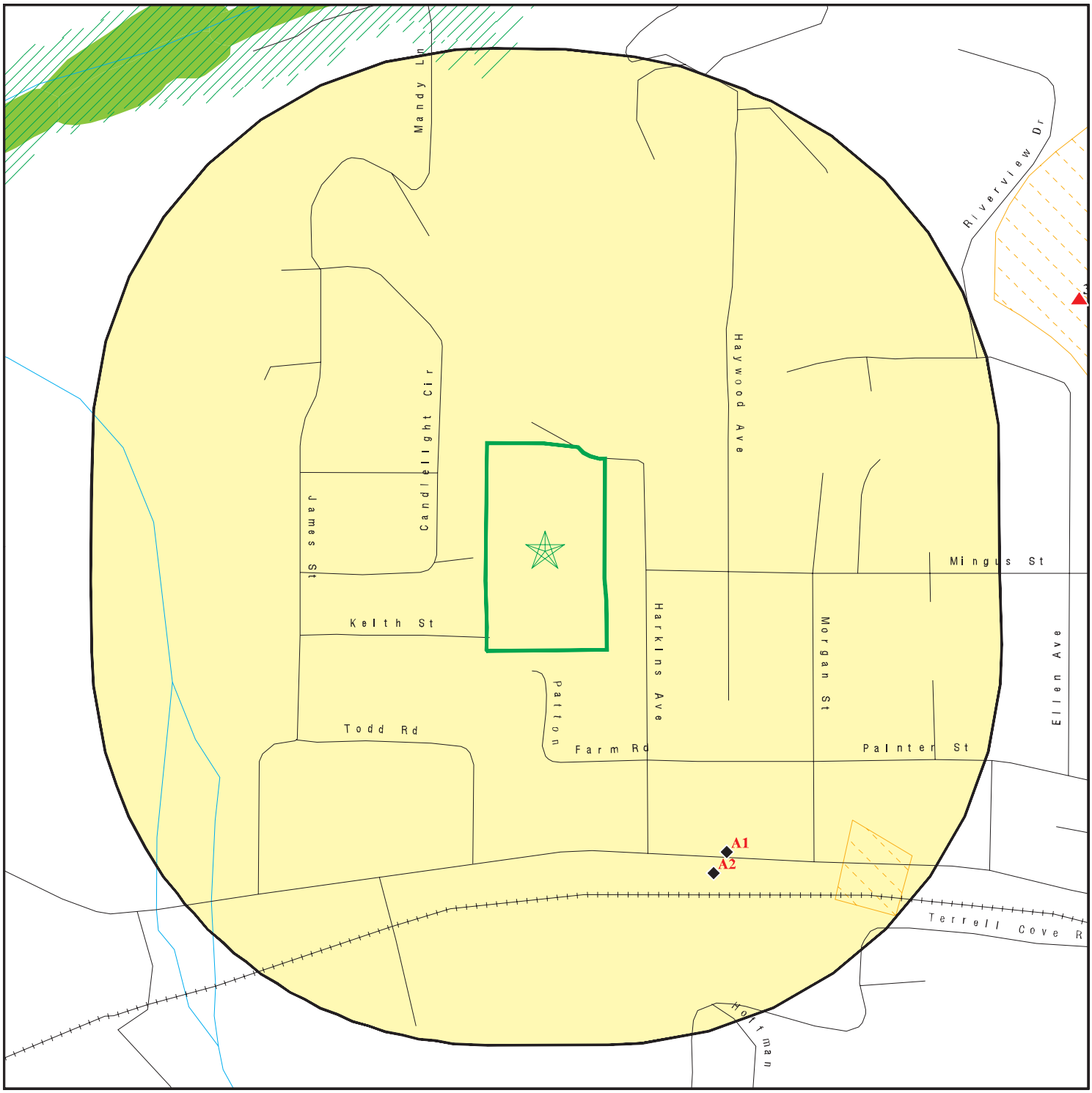
DETAIL MAP - 8109381.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Hazardous Substance Disposal Sites

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Harkins Avenue	CLIENT:	Bunnell-Lammons Engineering
ADDRESS:	Harkins Avenue, Haywood County, North Carolina Canton NC 28716	CONTACT:	Colby Clark
		INQUIRY #:	8109381.2s
LAT/LONG:	35.539866 / 82.870717	DATE:	September 16, 2025 9:38 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	1	0	NR	NR	1
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
NC HSDS	1.000		0	1	2	1	NR	4
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000		0	1	1	2	NR	4
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEBRIS	0.500		0	0	0	NR	NR	0
OLI	0.500		0	0	0	NR	NR	0
LCID	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LAST	0.500		0	0	0	NR	NR	0
LUST	0.500		0	1	1	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
LUST TRUST	0.500		0	0	1	NR	NR	1
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS	0.001		0	NR	NR	NR	NR	0
IMD	0.500		0	1	1	NR	NR	2
SPILLS 90	0.001		0	NR	NR	NR	NR	0
SPILLS 80	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	0	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
E MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
ASBESTOS	0.001		0	NR	NR	NR	NR	0
CCB	0.500		0	0	0	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PCSRP	0.500		0	0	0	NR	NR	0
SEPT HAULERS	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
AOP	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	0	5	6	3	0	14

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

HSDS **BENFIELD CHEMICALS** **NC HSDS** **S102442578**
Region **N/A**
SE **, NC**
1/8-1/4
999 ft.

HSDS:

Name:	BENFIELD CHEMICALS
Address:	Not reported
City:	Not reported
Site Type:	1
Superfun Number:	Not reported
Total area in coverage units:	4813.37597656
Total perimeter in coverage units:	281.25808715
X-value coordinate in feet:	849802.3125
Y-value coordinate in feet:	672715
Sites designated as superfund cleanup sites:	458
Length of feature in internal units:	281.25796529
Area of feature in internal units squared:	4813.3729812

HSDS **CHAMPION LANDFILL #2** **NC HSDS** **S102442575**
Region **N/A**
West **, NC**
1/2-1
3451 ft.

HSDS:

Name:	CHAMPION LANDFILL #2
Address:	Not reported
City:	Not reported
Site Type:	1
Superfun Number:	Not reported
Total area in coverage units:	346735.125
Total perimeter in coverage units:	2891.08154296
X-value coordinate in feet:	843615.375
Y-value coordinate in feet:	674158.8125
Sites designated as superfund cleanup sites:	451
Length of feature in internal units:	2891.08167107
Area of feature in internal units squared:	346735.109201

HSDS **CHAMPION LANDFILL #1** **NC HSDS** **S102442574**
Region **N/A**
ENE **, NC**
1/4-1/2
1406 ft.

HSDS:

Name:	CHAMPION LANDFILL #1
Address:	Not reported
City:	Not reported
Site Type:	1
Superfun Number:	Not reported
Total area in coverage units:	49991.4023438
Total perimeter in coverage units:	851.33874511
X-value coordinate in feet:	850642.125
Y-value coordinate in feet:	674765.3125
Sites designated as superfund cleanup sites:	450
Length of feature in internal units:	851.338788807

CHAMPION LANDFILL #1 (Continued) **S102442574**

Area of feature in internal units squared: 49991.4088154

HSDS **CHAMPION LANDFILL #3** **NC HSDS** **S102442569**
Region **N/A**
ENE
1/4-1/2
2303 ft. **, NC**

HSDS:

Name:	CHAMPION LANDFILL #3
Address:	Not reported
City:	Not reported
Site Type:	1
Superfun Number:	Not reported
Total area in coverage units:	142490.625
Total perimeter in coverage units:	1770.49536132
X-value coordinate in feet:	851689.0625
Y-value coordinate in feet:	675476.9375
Sites designated as superfund cleanup sites:	444
Length of feature in internal units:	1770.49534677
Area of feature in internal units squared:	142490.619764

A1 **LONGS CHAPEL UNITED METHODIST CHURCH** **LUST** **S104914630**
SSE **175 OLD CLYDE HIGHWAY** **IMD** **N/A**
1/8-1/4 **LAKE JUNALUSKA, NC 28745**
0.149 mi.
786 ft. **Site 1 of 2 in cluster A**

Relative: LUST:
Lower

Name:	LONGS CHAPEL UNITED METHODIST CHURCH
Address:	175 OLD CLYDE HIGHWAY
City,State,Zip:	LAKE JUNALUSKA, NC 28745
Facility ID:	Not reported
UST Number:	AS-1917
Incident Number:	22679
Source Type:	3
Date Reported:	12/18/2000
Closure Request:	Not reported
Close Out:	12/01/2011
Level Of Soil Cleanup Achieved:	S1
# Of Supply Wells:	0
Commercial/NonCommercial UST Site:	N
Risk Classification:	H
Risk Class Based On Review:	L
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
Site Priority:	Not reported
Phase Of LSA Req:	1
Site Risk Reason:	Not reported
Land Use:	Not reported
MTBE:	0
MTBE1:	U
Flag:	0
Flag1:	0
LUR Filed:	Not reported
GPS Confirmed:	13

Actual:
2640 ft.

LONGS CHAPEL UNITED METHODIST CHURCH (Continued) **S104914630**

Current Status Code:	A
Current Status:	Archived
RBCA GW:	G1
PETOPT:	4
RPL:	False
CD Num:	540
Reel Num:	0
RPOW:	False
RPOP:	False
Error Flag:	0
Error Code:	Not reported
Valid:	False
Testlat:	Not reported
Regional Officer Project Mgr:	JCA
Company:	LONG'S CHAPEL UMC
Telephone:	8284563993
5 Min Quad:	Not reported

LUST:

ERR Type:	Not reported
UST Number:	AS-1917
Facility Id:	22679
Date Occurred:	10/27/2000
Date Reported:	1/5/2001
Owner/Operator:	MR. EDWARD GROSS -CHAIRMAN, TRUSTEE
Ownership:	4
Operation Type:	4
Type:	4
Location:	7
Priority Update:	1/5/2001
Wells Affected Y/N:	N
Samples Include:	Not reported
7#5 Minute Quad:	Not reported
5 Minute Quad:	Not reported
Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Not reported
Err Type:	2
Cause:	Not reported
Source:	Not reported
UST Number:	C

LUST:

Incident Number:	22679
Last Modified:	12/1/2011
Incident Phase:	CO
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

LONGS CHAPEL UNITED METHODIST CHURCH (Continued) **S104914630**

IMD:

Facility ID:	22679
Name:	LONGS CHAPEL UNITED METHODIST
Address:	175 OLD CLYDE HIGHWAY
City,State,Zip:	LAKE JUNALUSKA, NC
Date Occurred:	10/27/2000
Submit Date:	1/5/2001
Incident Desc:	SOIL CONTAMINATION DISCOVERED UPON UST CLOSURE
Operator:	MR. EDWARD GROSS
UST ID:	Not reported
Incident ID:	Not reported
Initials of UST Regional Contact:	Not reported
Regional Office:	Not reported
Responsible Party/Company Name:	Not reported
Ownership:	4
Responsible Party Contact Name:	Not reported
Operation:	4
Responsible Party Mailing Address:	Not reported
Responsible Party City,State,Zip:	Not reported
Ownership:	Private
Operation Type:	Educ/Religios
Responsible Party County:	Not reported
Source:	Leak-underground
Type:	GASOLINE/DIESEL
Location:	7
Petroleum Type:	Not reported
Date Incident Reported:	Not reported
Whether Tank is Commercial or Non Commercial:	Not reported
Site Priority:	U
Whether Tank is Regulated:	Not reported
Priority Update:	1/5/2001
Notice of Regulatory Requirement:	Not reported
Wells Affected:	No
Notice of Violation:	Not reported
Phase 1 or Phase 2:	Not reported
Num Affected:	Not reported
Site Priority:	Not reported
Location:	Residence
Current Risk Condition:	Not reported
Sampled By:	Not reported
Samples Include:	Not reported
Initial reported risk of incident (never changes):	Not reported
7.5 Min Quad:	Not reported
5 Min Quad:	Not reported
Intermediate Condition Present:	Not reported
Latitude:	35.52833333
Longitude:	-82.95833333
Use of Land, Industrial:	Not reported
Corrective Action Plan Selected - up to 5:	Not reported
RBCA:	Not reported
Date Close Review Requested From RP or Owner:	Not reported
Date Case Closed:	Not reported
Extent of Contamination:	Not reported
Number of Supply Wells Located on Property:	Not reported
MTBE in Well Y/N/U Yes, No or Unknown:	Not reported
Facility Phone Number:	Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown:	Not reported

LONGS CHAPEL UNITED METHODIST CHURCH (Continued) **S104914630**

Date Land Use Restriction Filed:	Not reported
Date Cleanup Initiated:	Not reported
Record Status:	Not reported
RBCA GW Codes:	Not reported
RBCA GW:	Not reported
Pollutant Type Present:	Not reported
Reference Number for Media Disk for Archived Record:	Not reported
RP Owner?:	Not reported
RP Operator?:	Not reported
RP Landowner?:	Not reported
Comments:	Not reported
GW Contam:	No Groundwater Contamination detected
Soil Contam:	Yes
Contact Phone:	8284563993
Owner Company:	LONG'S CHAPEL UMC
Operator Address:	PO BOX 459
Operator City,State,Zip:	LAKE JUNALUSKA, NC 28745-
Operator County:	HAYWO
Material:	Not reported
Qty Lost 1:	Not reported
Qty Recovered 1:	Not reported
Setting:	1
Risk Site:	H
Priority Code:	Not reported
Dem Contact:	JCA
Wells Contam:	Not reported
Latitude Number:	353142
Longitude Number:	825730
Latitude Decimal:	35.5283333333333
Longitude Decimal:	82.9583333333333
GPS:	1
Agency:	DWM

Status:

Facility ID:	22679
Last Modified:	12/1/2011
Incident Phase:	CO
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Sighned:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

A2 **BENFIELD CHEMICALS** **SEMS-ARCHIVE** **1000665994**
SSE **OLD CANTON CLYDE HYW** **SHWS** **NCD986171445**
1/8-1/4 **CANTON, NC 28716**
0.157 mi.
827 ft. **Site 2 of 2 in cluster A**

Relative:
Lower

Actual:
2646 ft.

SEMS Archive:

Site ID:	0405340
EPA ID:	NCD986171445
Name:	BENFIELD CHEMICALS
Address:	OLD CANTON CLYDE HYW
Address 2:	Not reported
City,State,Zip:	CANTON, NC 28716
Cong District:	11
FIPS Code:	37087
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	04
Site ID:	0405340
EPA ID:	NCD986171445
Site Name:	BENFIELD CHEMICALS
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1990-03-14 05:00:00
Finish Date:	1990-03-15 05:00:00
Qual:	L
Current Action Lead:	St Perf

Region:	04
Site ID:	0405340
EPA ID:	NCD986171445
Site Name:	BENFIELD CHEMICALS
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1989-10-10 04:00:00
Finish Date:	1989-10-10 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	04
Site ID:	0405340
EPA ID:	NCD986171445
Site Name:	BENFIELD CHEMICALS
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1

BENFIELD CHEMICALS (Continued) **1000665994**

Start Date:	Not reported
Finish Date:	1997-06-09 04:00:00
Qual:	N
Current Action Lead:	St Perf
Region:	04
Site ID:	0405340
EPA ID:	NCD986171445
Site Name:	BENFIELD CHEMICALS
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	2017-02-13 05:00:00
Finish Date:	2017-02-13 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

SHWS:

Name:	BENFIELD CHEMICALS
Address:	OLD CANTON CLYDE HWY
City,State,Zip:	CANTON, NC
EPAID:	NCD986171445
Lat/Longitude:	Not reported
Geolocation Method:	Not reported

Click here to access the North Carolina DEQ records for this facility:

Name:	BENFIELD CHEMICALS
Address:	OLD CANTON CLYDE HWY
City,State,Zip:	CANTON, NC
EPAID:	NCD986171445
Lat/Longitude:	35.536885 / -82.868823
Geolocation Method:	ON SCREEN PLACEMENT ON GEOREFERENCED MAP

Click here to access the North Carolina DEQ records for this facility:

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3 **CHAMPION INTERNATIONAL LANDFILL NO 1** **SHWS** **S103554282**
ENE **SR 1571 & 1573** **N/A**
1/4-1/2 **CANTON, NC**
0.317 mi.
1674 ft.

Relative:
Higher

Actual:
2665 ft.

SHWS:

Name:	CHAMPION INTERNATIONAL LANDFILL NO 1
Address:	SR 1571 & 1573
City,State,Zip:	CANTON, NC
EPAID:	NCD986188001
Lat/Longitude:	Not reported
Geolocation Method:	Not reported

Click here to access the North Carolina DEQ records for this facility:

Name: CHAMPION INTERNATIONAL LANDFILL NO 1

CHAMPION INTERNATIONAL LANDFILL NO 1 (Continued) **S103554282**

Address:	SR 1571 & 1573
City,State,Zip:	CANTON, NC
EPAID:	NCD986188001
Lat/Longitude:	35.54217 / -82.86471
Geolocation Method:	ON SCREEN PLACEMENT ON GEOREFERENCED MAP

Click here to access the North Carolina DEQ records for this facility:

4
ENE
1/4-1/2
0.394 mi.
2079 ft.

MEASE RESIDENCE (MILDRED)
441 CIRCLE DRIVE
CANTON, NC

LUST **S106195451**
LUST TRUST **N/A**
IMD

Relative:
Higher

Actual:
2736 ft.

LUST:

Name:	MEASE RESIDENCE (MILDRED)
Address:	441 CIRCLE DRIVE
City,State,Zip:	CANTON, NC
Facility ID:	Not reported
UST Number:	AS-2946
Incident Number:	28191
Source Type:	3
Date Reported:	12/05/2003
Closure Request:	Not reported
Close Out:	Not reported
Level Of Soil Cleanup Achieved:	Not reported
# Of Supply Wells:	0
Commercial/NonCommercial UST Site:	N
Risk Classification:	H
Risk Class Based On Review:	H
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
Site Priority:	Not reported
Phase Of LSA Req:	Not reported
Site Risk Reason:	Not reported
Land Use:	Not reported
MTBE:	0
MTBE1:	U
Flag:	0
Flag1:	0
LUR Filed:	Not reported
GPS Confirmed:	99
Current Status Code:	C
Current Status:	Current
RBCA GW:	Not reported
PETOPT:	4
RPL:	False
CD Num:	0
Reel Num:	0
RPOW:	True
RPOP:	False
Error Flag:	0
Error Code:	Not reported
Valid:	False
Testlat:	Not reported
Regional Officer Project Mgr:	JCA
Company:	Not reported
Telephone:	Not reported

MEASE RESIDENCE (MILDRED) (Continued) **S106195451**

5 Min Quad: Not reported

LUST:
ERR Type: Not reported
UST Number: AS-2946
Facility Id: 28191
Date Occurred: 11/27/2003
Date Reported: 12/5/2003
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 1
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: Not reported
Source: Not reported
UST Number: E

LUST TRUST:
Name: MEASE RESIDENCE
Address: 441 CIRCLE DRIVE
City,State,Zip: CANTON, NC
Facility ID: Not reported
Site ID: 28191
Site Note: Not reported
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 100000
Sum 3rd Party Amt Applied: 0

IMD:
Facility ID: 28191
Name: MEASE RESIDENCE (MILDRED)
Address: 441 CIRCLE DRIVE
City,State,Zip: CANTON, NC
Date Occurred: 11/27/2003
Submit Date: 12/5/2003
Incident Desc: HOMEHEATING OIL UST RELEASE
Operator: MILDRED MEASE
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: 4
Responsible Party Contact Name: Not reported

MEASE RESIDENCE (MILDRED) (Continued) **S106195451**

Operation:	3
Responsible Party Mailing Address:	Not reported
Responsible Party City,State,Zip:	Not reported
Ownership:	Private
Operation Type:	Residential
Responsible Party County:	Not reported
Source:	Leak-underground
Type:	GASOLINE/DIESEL
Location:	1
Petroleum Type:	Not reported
Date Incident Reported:	Not reported
Whether Tank is Commercial or Non Commercial:	Not reported
Site Priority:	Not reported
Whether Tank is Regulated:	Not reported
Priority Update:	Not reported
Notice of Regulatory Requirement:	Not reported
Wells Affected:	No
Notice of Violation:	Not reported
Phase 1 or Phase 2:	Not reported
Num Affected:	Not reported
Site Priority:	Not reported
Location:	Facility
Current Risk Condition:	Not reported
Sampled By:	Y
Samples Include:	Not reported
Initial reported risk of incident (never changes):	Not reported
7.5 Min Quad:	Not reported
5 Min Quad:	Not reported
Intermediate Condition Present:	Not reported
Latitude:	35.54083333
Longitude:	-82.86277777
Use of Land, Industrial:	Not reported
Corrective Action Plan Selected - up to 5:	Not reported
RBCA:	Not reported
Date Close Review Requested From RP or Owner:	Not reported
Date Case Closed:	Not reported
Extent of Contamination:	Not reported
Number of Supply Wells Located on Property:	Not reported
MTBE in Well Y/N/U Yes, No or Unknown:	Not reported
Facility Phone Number:	Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown:	Not reported
Date Land Use Restriction Filed:	Not reported
Date Cleanup Initiated:	Not reported
Record Status:	Not reported
RBCA GW Codes:	Not reported
RBCA GW:	Not reported
Pollutant Type Present:	Not reported
Reference Number for Media Disk for Archived Record:	Not reported
RP Owner?:	Not reported
RP Operator?:	Not reported
RP Landowner?:	Not reported
Comments:	Not reported
GW Contam:	No Groundwater Contamination detected
Soil Contam:	Yes
Contact Phone:	Not reported
Owner Company:	Not reported
Operator Address:	441 CIRCLE DRIVE

MEASE RESIDENCE (MILDRED) (Continued) **S106195451**

Operator City,State,Zip:	CANTON, NC 28716
Operator County:	Not reported
Material:	Not reported
Qty Lost 1:	Not reported
Qty Recovered 1:	Not reported
Setting:	Not reported
Risk Site:	U
Priority Code:	Not reported
Dem Contact:	JCA
Wells Contam:	Not reported
Latitude Number:	353227
Longitude Number:	825146
Latitude Decimal:	35.5408333333333
Longitude Decimal:	82.8627777777778
GPS:	7
Agency:	DWM

5
SE
1/2-1
0.559 mi.
2954 ft.

PANTRY 421 FORMER **SHWS** **S106022555**
P. O. BOX 1410 **IMD** **N/A**
CANTON, NC

Relative:
Higher

Actual:
2821 ft.

SHWS:

Name:	PANTRY 421 FORMER
Address:	P. O. BOX 1410
City,State,Zip:	CANTON, NC
EPAID:	NONCD0002262
Lat/Longitude:	Not reported
Geolocation Method:	Not reported

Click here to access the North Carolina DEQ records for this facility:

Name:	PANTRY 421 FORMER
Address:	P. O. BOX 1410
City,State,Zip:	CANTON, NC
EPAID:	NONCD0002262
Lat/Longitude:	35.532222 / -82.864444
Geolocation Method:	ON SCREEN PLACEMENT ON GEOREFERENCED MAP

Click here to access the North Carolina DEQ records for this facility:

IMD:

Facility ID:	86752
Name:	PANTRY 421 FORMER
Address:	P. O. BOX 1410
City,State,Zip:	CANTON, NC
Date Occurred:	8/7/2003
Submit Date:	9/30/2003
Incident Desc:	LOW LEVELS OF CARBON TETRACHLORIDE AND CHLOROFORM WERE DETECTED IN ONE MW ASSOCIATED WITH AN PETROLEUM UST SYSTEM. NO APPARENT SOURCE HAS BEEN IDENTIFIED. THE P
Operator:	THOMAS, RENEE
UST ID:	Not reported
Incident ID:	Not reported
Initials of UST Regional Contact:	Not reported
Regional Office:	Not reported

PANTRY 421 FORMER (Continued) **S106022555**

Responsible Party/Company Name:	Not reported
Ownership:	5
Responsible Party Contact Name:	Not reported
Operation:	8
Responsible Party Mailing Address:	Not reported
Responsible Party City,State,Zip:	Not reported
Ownership:	Federal
Operation Type:	Not reported
Responsible Party County:	Not reported
Source:	Unknown
Type:	OTHER INORGANICS
Location:	Not reported
Petroleum Type:	Not reported
Date Incident Reported:	Not reported
Whether Tank is Commercial or Non Commercial:	Not reported
Site Priority:	40
Whether Tank is Regulated:	Not reported
Priority Update:	Not reported
Notice of Regulatory Requirement:	Not reported
Wells Affected:	No
Notice of Violation:	Not reported
Phase 1 or Phase 2:	Not reported
Num Affected:	0
Site Priority:	Not reported
Location:	Not reported
Current Risk Condition:	Not reported
Sampled By:	Not reported
Samples Include:	Not reported
Initial reported risk of incident (never changes):	Not reported
7.5 Min Quad:	Not reported
5 Min Quad:	Not reported
Intermediate Condition Present:	Not reported
Latitude:	35.532222
Longitude:	-82.864444
Use of Land, Industrial:	Not reported
Corrective Action Plan Selected - up to 5:	Not reported
RBCA:	Not reported
Date Close Review Requested From RP or Owner:	Not reported
Date Case Closed:	Not reported
Extent of Contamination:	Not reported
Number of Supply Wells Located on Property:	Not reported
MTBE in Well Y/N/U Yes, No or Unknown:	Not reported
Facility Phone Number:	Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown:	Not reported
Date Land Use Restriction Filed:	Not reported
Date Cleanup Initiated:	Not reported
Record Status:	Not reported
RBCA GW Codes:	Not reported
RBCA GW:	Not reported
Pollutant Type Present:	Not reported
Reference Number for Media Disk for Archived Record:	Not reported
RP Owner?:	Not reported
RP Operator?:	Not reported
RP Landowner?:	Not reported
Comments:	Not reported
GW Contam:	Yes, Groundwater Contamination has been detected
Soil Contam:	Not reported

PANTRY 421 FORMER (Continued) **S106022555**

Contact Phone:	919 774-6700
Owner Company:	PANTRY, INC.
Operator Address:	P. O. BOX 1410
Operator City,State,Zip:	SANFORD 919 774-6700
Operator County:	Not reported
Material:	Not reported
Qty Lost 1:	Not reported
Qty Recovered 1:	Not reported
Setting:	Not reported
Risk Site:	Not reported
Priority Code:	B
Dem Contact:	QQ
Wells Contam:	Not reported
Latitude Number:	Not reported
Longitude Number:	Not reported
Latitude Decimal:	Not reported
Longitude Decimal:	Not reported
GPS:	GPS
Agency:	DWQ

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6 **CHAMPION LANDFILL NO 3** **SHWS** **S105194128**
ENE **SR 1550 I40** **N/A**
1/2-1 **CANTON, NC**
0.688 mi.
3631 ft.

Relative:
Higher

Actual:
2702 ft.

SHWS:

Name:	CHAMPION LANDFILL NO 3
Address:	SR 1550 I40
City,State,Zip:	CANTON, NC
EPAID:	NCD986188027
Lat/Longitude:	Not reported
Geolocation Method:	Not reported

Click here to access the North Carolina DEQ records for this facility:

Name:	CHAMPION LANDFILL NO 3
Address:	SR 1550 I40
City,State,Zip:	CANTON, NC
EPAID:	NCD986188027
Lat/Longitude:	35.54571 / -82.85949
Geolocation Method:	ON SCREEN PLACEMENT ON GEOREFERENCED MAP

Click here to access the North Carolina DEQ records for this facility:

Count: 0 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 06/26/2025
Date Data Arrived at EDR: 07/01/2025
Date Made Active in Reports: 07/17/2025
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 09/02/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 06/26/2025
Date Data Arrived at EDR: 07/01/2025
Date Made Active in Reports: 07/17/2025
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 09/02/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 06/26/2025
Date Data Arrived at EDR: 07/01/2025
Date Made Active in Reports: 07/17/2025
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 09/02/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/05/2025
Date Data Arrived at EDR: 06/20/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/20/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/26/2025
Date Data Arrived at EDR: 07/01/2025
Date Made Active in Reports: 07/17/2025
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/02/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 06/26/2025
Date Data Arrived at EDR: 07/01/2025
Date Made Active in Reports: 07/17/2025
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/02/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/03/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 13

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 03/11/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 06/24/2025
Number of Days to Update: 83

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/29/2025
Next Scheduled EDR Contact: 11/17/2025
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/19/2025
Date Data Arrived at EDR: 05/20/2025
Date Made Active in Reports: 07/29/2025
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/15/2025
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/19/2025
Date Data Arrived at EDR: 05/20/2025
Date Made Active in Reports: 07/29/2025
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/15/2025
Next Scheduled EDR Contact: 12/01/2025
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/10/2025
Date Data Arrived at EDR: 06/12/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 4

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

HSDS: Hazardous Substance Disposal Site

Locations of uncontrolled and unregulated hazardous waste sites. The file includes sites on the National Priority List as well as those on the state priority list.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 11/08/2011
Date Made Active in Reports: 12/05/2011
Number of Days to Update: 27

Source: North Carolina Center for Geographic Information and Analysis
Telephone: 919-754-6580
Last EDR Contact: 07/08/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: No Update Planned

Lists of state- and tribal hazardous waste facilities

SHWS: Inactive Hazardous Sites Inventory

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/30/2025
Date Data Arrived at EDR: 06/03/2025
Date Made Active in Reports: 08/28/2025
Number of Days to Update: 86

Source: Department of Environment, Health and Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 09/03/2025
Next Scheduled EDR Contact: 12/15/2025
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: List of Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/04/2024
Date Data Arrived at EDR: 12/12/2024
Date Made Active in Reports: 03/04/2025
Number of Days to Update: 82

Source: Department of Environment and Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 06/18/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

OLI: Old Landfill Inventory

Old landfill inventory location information. (Does not include no further action sites and other agency lead sites).

Date of Government Version: 07/29/2024
Date Data Arrived at EDR: 10/02/2024
Date Made Active in Reports: 12/17/2024
Number of Days to Update: 76

Source: Department of Environment & Natural Resources
Telephone: 919-733-4996
Last EDR Contact: 07/02/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

DEBRIS: Solid Waste Active Disaster Debris Sites Listing
NCDEQ Division of Waste Management Solid Waste Section Temporary Disaster Debris Staging Site (TDDSS) Locations which are available to be activated in a disaster or emergency.. Disaster Debris Sites can only be used for temporary disaster debris storage if the site's responsible party activates the site for use by notifying the NCDEQ DWM Solid Waste Section staff during an emergency

Date of Government Version: 06/09/2025
Date Data Arrived at EDR: 06/10/2025
Date Made Active in Reports: 08/29/2025
Number of Days to Update: 80
Source: Department of Environmental Quality
Telephone: 919-707-8247
Last EDR Contact: 09/05/2025
Next Scheduled EDR Contact: 12/22/2025
Data Release Frequency: Varies

LCID: Land-Clearing and Inert Debris (LCID) Landfill Notifications
A list all of the Land-Clearing and Inert Debris (LCID) Landfill Notification facilities (under 2 acres in size) in North Carolina.

Date of Government Version: 12/14/2023
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 07/02/2024
Number of Days to Update: 89
Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/02/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

Lists of state and tribal leaking storage tanks

LUST: Regional UST Database
This database contains information obtained from the Regional Offices. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database. Sites in this database with Incident Numbers are considered LUSTs.

Date of Government Version: 01/24/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 79
Source: Department of Environment and Natural Resources
Telephone: 919-707-8200
Last EDR Contact: 09/04/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tanks
A listing of leaking aboveground storage tank site locations.

Date of Government Version: 04/04/2025
Date Data Arrived at EDR: 04/29/2025
Date Made Active in Reports: 07/21/2025
Number of Days to Update: 83
Source: Department of Environment & Natural Resources
Telephone: 877-623-6748
Last EDR Contact: 07/21/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

LUST TRUST: State Trust Fund Database
This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

Date of Government Version: 12/27/2024
Date Data Arrived at EDR: 12/30/2024
Date Made Active in Reports: 03/18/2025
Number of Days to Update: 78

Source: Department of Environment and Natural Resources
Telephone: 919-733-1315
Last EDR Contact: 07/21/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 04/08/2025
Date Data Arrived at EDR: 04/23/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 1

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/24/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

UST: Petroleum Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 04/04/2025
Date Data Arrived at EDR: 04/29/2025
Date Made Active in Reports: 07/21/2025
Number of Days to Update: 83

Source: Department of Environment and Natural Resources
Telephone: 919-733-1308
Last EDR Contact: 07/21/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Quarterly

AST: AST Database
Facilities with aboveground storage tanks that have a capacity greater than 21,000 gallons.

Date of Government Version: 02/25/2025
Date Data Arrived at EDR: 03/07/2025
Date Made Active in Reports: 05/16/2025
Number of Days to Update: 70

Source: Department of Environment and Natural Resources
Telephone: 919-715-6183
Last EDR Contact: 09/04/2025
Next Scheduled EDR Contact: 12/22/2025
Data Release Frequency: Semi-Annually

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/08/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: No Further Action Sites With Land Use Restrictions Monitoring

A land use restricted site is a property where there are limits or requirements on future use of the property due to varying levels of cleanup possible, practical, or necessary at the site.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/02/2025
Date Made Active in Reports: 08/20/2025
Number of Days to Update: 79

Source: Department of Environmental Quality
Telephone: 919-508-8400
Last EDR Contact: 09/03/2025
Next Scheduled EDR Contact: 12/15/2025
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/09/2025
Next Scheduled EDR Contact: 12/29/2025
Data Release Frequency: Varies

VCP: Responsible Party Voluntary Action Sites
Responsible Party Voluntary Action site locations.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/02/2025
Date Made Active in Reports: 08/20/2025
Number of Days to Update: 79

Source: Department of Environment and Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 09/03/2025
Next Scheduled EDR Contact: 12/15/2025
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Projects Inventory
A brownfield site is an abandoned, idled, or underused property where the threat of environmental contamination has hindered its redevelopment. All of the sites in the inventory are working toward a brownfield agreement for cleanup and liabitliy control.

Date of Government Version: 08/01/2024
Date Data Arrived at EDR: 09/24/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 56

Source: Department of Environment and Natural Resources
Telephone: 919-733-4996
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 12/06/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/04/2025
Next Scheduled EDR Contact: 12/22/2025
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Center Listing
A listing of recycling center locations.

Date of Government Version: 01/31/2022
Date Data Arrived at EDR: 02/02/2022
Date Made Active in Reports: 04/29/2022
Number of Days to Update: 86

Source: Department of Environment & Natural Resources
Telephone: 919-707-8137
Last EDR Contact: 07/15/2025
Next Scheduled EDR Contact: 11/03/2025
Data Release Frequency: Varies

HIST LF: Solid Waste Facility Listing
A listing of solid waste facilities.

Date of Government Version: 11/06/2006
Date Data Arrived at EDR: 02/13/2007
Date Made Active in Reports: 03/02/2007
Number of Days to Update: 17

Source: Department of Environment & Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/15/2025
Next Scheduled EDR Contact: 11/03/2025
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/08/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 11/13/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 6

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/17/2025
Next Scheduled EDR Contact: 11/03/2025
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 04/04/2025
Date Data Arrived at EDR: 06/02/2025
Date Made Active in Reports: 08/12/2025
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/21/2025
Next Scheduled EDR Contact: 12/01/2025
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 04/04/2025
Date Data Arrived at EDR: 06/02/2025
Date Made Active in Reports: 08/12/2025
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/21/2025
Next Scheduled EDR Contact: 12/01/2025
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 06/26/2025
Date Data Arrived at EDR: 07/01/2025
Date Made Active in Reports: 07/17/2025
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 09/02/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/11/2025
Date Data Arrived at EDR: 06/12/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 4

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

SPILLS: Spills Incident Listing

A listing spills, hazardous material releases, sanitary sewer overflows, wastewater treatment plant bypasses and upsets, citizen complaints, and any other environmental emergency calls reported to the agency.

Date of Government Version: 06/27/2024
Date Data Arrived at EDR: 07/19/2024
Date Made Active in Reports: 10/07/2024
Number of Days to Update: 80

Source: Department of Environment & Natural Resources
Telephone: 919-807-6308
Last EDR Contact: 08/27/2025
Next Scheduled EDR Contact: 12/15/2025
Data Release Frequency: Quarterly

IMD: Incident Management Database

Groundwater and/or soil contamination incidents

Date of Government Version: 04/04/2025
Date Data Arrived at EDR: 04/29/2025
Date Made Active in Reports: 07/21/2025
Number of Days to Update: 83

Source: Department of Environment and Natural Resources
Telephone: 877-623-6748
Last EDR Contact: 09/04/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/27/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 06/14/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 07/23/2025
Date Data Arrived at EDR: 07/23/2025
Date Made Active in Reports: 07/29/2025
Number of Days to Update: 6

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/23/2025
Next Scheduled EDR Contact: 11/24/2025
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/07/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 06/25/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/07/2025
Next Scheduled EDR Contact: 11/17/2025
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/03/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/24/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 07/31/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/11/2025
Next Scheduled EDR Contact: 12/22/2025
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 7

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/11/2025
Next Scheduled EDR Contact: 11/24/2025
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 04/14/2025
Date Data Arrived at EDR: 04/15/2025
Date Made Active in Reports: 07/08/2025
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/14/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/29/2025
Date Data Arrived at EDR: 08/04/2025
Date Made Active in Reports: 08/12/2025
Number of Days to Update: 8

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/02/2025
Next Scheduled EDR Contact: 12/08/2025
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/05/2025
Date Data Arrived at EDR: 04/11/2025
Date Made Active in Reports: 07/08/2025
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/09/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 06/26/2025
Date Data Arrived at EDR: 07/01/2025
Date Made Active in Reports: 07/29/2025
Number of Days to Update: 28

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 09/02/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 10/02/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 100

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/02/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 05/07/2025
Date Data Arrived at EDR: 05/07/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 27
Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 07/08/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 90
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 08/28/2025
Next Scheduled EDR Contact: 12/08/2025
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/21/2025
Next Scheduled EDR Contact: 12/08/2025
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/31/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/22/2025
Date Made Active in Reports: 07/17/2025
Number of Days to Update: 86

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/17/2025
Next Scheduled EDR Contact: 11/03/2025
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 05/02/2025
Date Made Active in Reports: 07/17/2025
Number of Days to Update: 76

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/24/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/07/2025
Number of Days to Update: 16

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 06/25/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/28/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 05/15/2025
Date Data Arrived at EDR: 05/15/2025
Date Made Active in Reports: 07/29/2025
Number of Days to Update: 75

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/11/2025
Next Scheduled EDR Contact: 11/24/2025
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 06/26/2025
Date Data Arrived at EDR: 07/01/2025
Date Made Active in Reports: 07/17/2025
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/02/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/01/2025
Date Data Arrived at EDR: 05/20/2025
Date Made Active in Reports: 07/29/2025
Number of Days to Update: 70

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/18/2025
Next Scheduled EDR Contact: 12/01/2025
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 04/01/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 06/24/2025
Number of Days to Update: 83

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 12/01/2025
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 04/08/2025
Date Data Arrived at EDR: 05/20/2025
Date Made Active in Reports: 08/12/2025
Number of Days to Update: 84

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/21/2025
Next Scheduled EDR Contact: 12/01/2025
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/21/2025
Next Scheduled EDR Contact: 12/01/2025
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 05/28/2025
Date Data Arrived at EDR: 05/28/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 6

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/09/2025
Next Scheduled EDR Contact: 12/15/2025
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 06/04/2024
Date Data Arrived at EDR: 11/22/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 88

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/21/2025
Next Scheduled EDR Contact: 12/01/2025
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/22/2025
Date Data Arrived at EDR: 05/05/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 16

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 08/21/2025
Next Scheduled EDR Contact: 12/08/2025
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/22/2025
Date Data Arrived at EDR: 06/25/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/25/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/12/2025
Next Scheduled EDR Contact: 12/01/2025
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 02/14/2025
Date Data Arrived at EDR: 03/11/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 84

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/02/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/07/2025
Date Data Arrived at EDR: 05/13/2025
Date Made Active in Reports: 07/29/2025
Number of Days to Update: 77

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/07/2025
Next Scheduled EDR Contact: 11/24/2025
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 06/23/2025
Date Data Arrived at EDR: 06/26/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 06/23/2025
Date Data Arrived at EDR: 06/26/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 06/23/2025
Date Data Arrived at EDR: 06/26/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 06/23/2025
Date Data Arrived at EDR: 06/26/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 03/23/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 07/16/2025
Next Scheduled EDR Contact: 11/03/2025
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 06/23/2025
Date Data Arrived at EDR: 06/26/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 06/23/2025
Date Data Arrived at EDR: 06/26/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/15/2024
Date Data Arrived at EDR: 03/06/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 89

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 09/02/2025
Next Scheduled EDR Contact: 12/15/2025
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 06/23/2025
Date Data Arrived at EDR: 06/26/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 06/23/2025
Date Data Arrived at EDR: 06/26/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 06/23/2025
Date Data Arrived at EDR: 06/26/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 06/23/2025
Date Data Arrived at EDR: 06/26/2025
Date Made Active in Reports: 08/27/2025
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 04/13/2025
Date Data Arrived at EDR: 04/15/2025
Date Made Active in Reports: 07/08/2025
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 07/10/2025
Next Scheduled EDR Contact: 10/27/2025
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 08/13/2025
Next Scheduled EDR Contact: 11/17/2025
Data Release Frequency: Semi-Annually

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 08/13/2025
Next Scheduled EDR Contact: 11/17/2025
Data Release Frequency: Varies

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 08/13/2025
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Listing

List of PFAS facilities

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 08/21/2024
Date Made Active in Reports: 12/04/2024
Number of Days to Update: 105

Source: Department of Environmental Quality
Telephone: 919-707-8233
Last EDR Contact: 07/31/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Varies

AIRS: Air Quality Permit Listing

A listing of facilities with air quality permits.

Date of Government Version: 04/30/2025
Date Data Arrived at EDR: 06/02/2025
Date Made Active in Reports: 08/20/2025
Number of Days to Update: 79

Source: Department of Environmental Quality
Telephone: 919-707-8726
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

ASBESTOS: Asbestos Permits & Notifications Information

Asbestos notification sites

Date of Government Version: 04/30/2025
Date Data Arrived at EDR: 05/14/2025
Date Made Active in Reports: 08/04/2025
Number of Days to Update: 82

Source: Department of Health & Human Services
Telephone: 919-707-5973
Last EDR Contact: 08/06/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Varies

CCB: Coal Ash Structural Fills (CCB) Listing

These are not permitted Coal Ash landfills A list all of the now closed Coal Ash Structural Fills (CCB) in North Carolina, in point data form. The purpose is to provide the public and other government entities a visual overview of coal ash structural fills throughout the state and increase public awareness of their current locations.

Date of Government Version: 03/27/2024
Date Data Arrived at EDR: 10/02/2024
Date Made Active in Reports: 11/20/2024
Number of Days to Update: 49

Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/02/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of coal combustion products distribution permits issued by the Division for the treatment, storage, transportation, use and disposal of coal combustion products.

Date of Government Version: 11/04/2024
Date Data Arrived at EDR: 12/12/2024
Date Made Active in Reports: 03/04/2025
Number of Days to Update: 82

Source: Department of Environment & Natural Resources
Telephone: 919-807-6359
Last EDR Contact: 06/18/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Sites

Potential and known drycleaning sites, active and abandoned, that the Drycleaning Solvent Cleanup Program has knowledge of and entered into this database.

Date of Government Version: 04/01/2025
Date Data Arrived at EDR: 06/12/2025
Date Made Active in Reports: 09/08/2025
Number of Days to Update: 88

Source: Department of Environment & Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 09/11/2025
Next Scheduled EDR Contact: 12/22/2025
Data Release Frequency: Varies

FIN ASSURANCE 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 04/04/2025
Date Data Arrived at EDR: 04/29/2025
Date Made Active in Reports: 07/21/2025
Number of Days to Update: 83
Source: Department of Environment & Natural Resources
Telephone: 919-733-1322
Last EDR Contact: 07/21/2025
Next Scheduled EDR Contact: 11/10/2025
Data Release Frequency: Quarterly

FIN ASSURANCE 2: Financial Assurance Information Listing
Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/03/2012
Date Made Active in Reports: 10/26/2012
Number of Days to Update: 23
Source: Department of Environmental & Natural Resources
Telephone: 919-508-8496
Last EDR Contact: 09/10/2025
Next Scheduled EDR Contact: 12/29/2025
Data Release Frequency: Varies

FIN ASSURANCE 3: Financial Assurance Information
Hazardous waste financial assurance information.

Date of Government Version: 03/04/2025
Date Data Arrived at EDR: 03/05/2025
Date Made Active in Reports: 05/16/2025
Number of Days to Update: 72
Source: Department of Environment & Natural Resources
Telephone: 919-707-8222
Last EDR Contact: 08/26/2025
Next Scheduled EDR Contact: 12/15/2025
Data Release Frequency: Varies

NPDES: NPDES Facility Location Listing
General information regarding NPDES(National Pollutant Discharge Elimination System) permits.

Date of Government Version: 03/02/2025
Date Data Arrived at EDR: 04/22/2025
Date Made Active in Reports: 07/11/2025
Number of Days to Update: 80
Source: Department of Environment & Natural Resources
Telephone: 919-733-7015
Last EDR Contact: 07/21/2025
Next Scheduled EDR Contact: 11/03/2025
Data Release Frequency: Varies

PCSRP: Petroleum-Contaminated Soil Remediation Permits
To treat petroleum-contaminated soil in order to protect North Carolinaa??s environment and the health of the citizens of North Carolina.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/02/2024
Date Made Active in Reports: 09/24/2024
Number of Days to Update: 84
Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/02/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

SEPT HAULERS: Permitted Septage Haulers Listing
This list of all active and permitted Septage Land Application Site (SLAS) and Septage Detention and Treatment Facility (SDTF) sites in North Carolina. The purpose of this map is to provide the public and government entities a visual overview of the businesses that manage septage and septage facilities throughout the state.

Date of Government Version: 01/22/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 06/20/2025
Number of Days to Update: 80
Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/02/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

UIC: Underground Injection Wells Listing
A listing of uncerground injection wells locations.

Date of Government Version: 04/02/2025
Date Data Arrived at EDR: 05/27/2025
Date Made Active in Reports: 08/20/2025
Number of Days to Update: 85

Source: Department of Environment & Natural Resources
Telephone: 919-807-6412
Last EDR Contact: 08/28/2025
Next Scheduled EDR Contact: 12/08/2025
Data Release Frequency: Quarterly

AOP: Animal Operation Permits Listing
This listing includes animal operations that are required to be permitted by the state.

Date of Government Version: 11/04/2024
Date Data Arrived at EDR: 11/25/2024
Date Made Active in Reports: 11/27/2024
Number of Days to Update: 2

Source: Department of Environmental Quality
Telephone: 919-707-9129
Last EDR Contact: 06/05/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/20/2013
Number of Days to Update: 172

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/04/2025
Date Data Arrived at EDR: 05/06/2025
Date Made Active in Reports: 07/21/2025
Number of Days to Update: 76

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 07/31/2025
Next Scheduled EDR Contact: 11/17/2025
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/17/2025
Next Scheduled EDR Contact: 11/03/2025
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/06/2025
Next Scheduled EDR Contact: 11/24/2025
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/27/2025
Next Scheduled EDR Contact: 12/15/2025
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List
Source: Department of Health & Human Services
Telephone: 919-662-4499

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: US Fish & Wildlife Service
Telephone: 703-358-2171

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

HARKINS AVENUE
HARKINS AVENUE, HAYWOOD COUNTY, NORTH CAROLINA
CANTON, NC 28716

TARGET PROPERTY COORDINATES

Latitude (North):	35.539866 - 35° 32' 23.52''
Longitude (West):	82.870717 - 82° 52' 14.58''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	330408.9
UTM Y (Meters):	3934325.2
Elevation:	2649 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50022426 CANTON, NC
Version Date:	2022
Northwest Map:	50022429 CLYDE, NC
Version Date:	2022

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

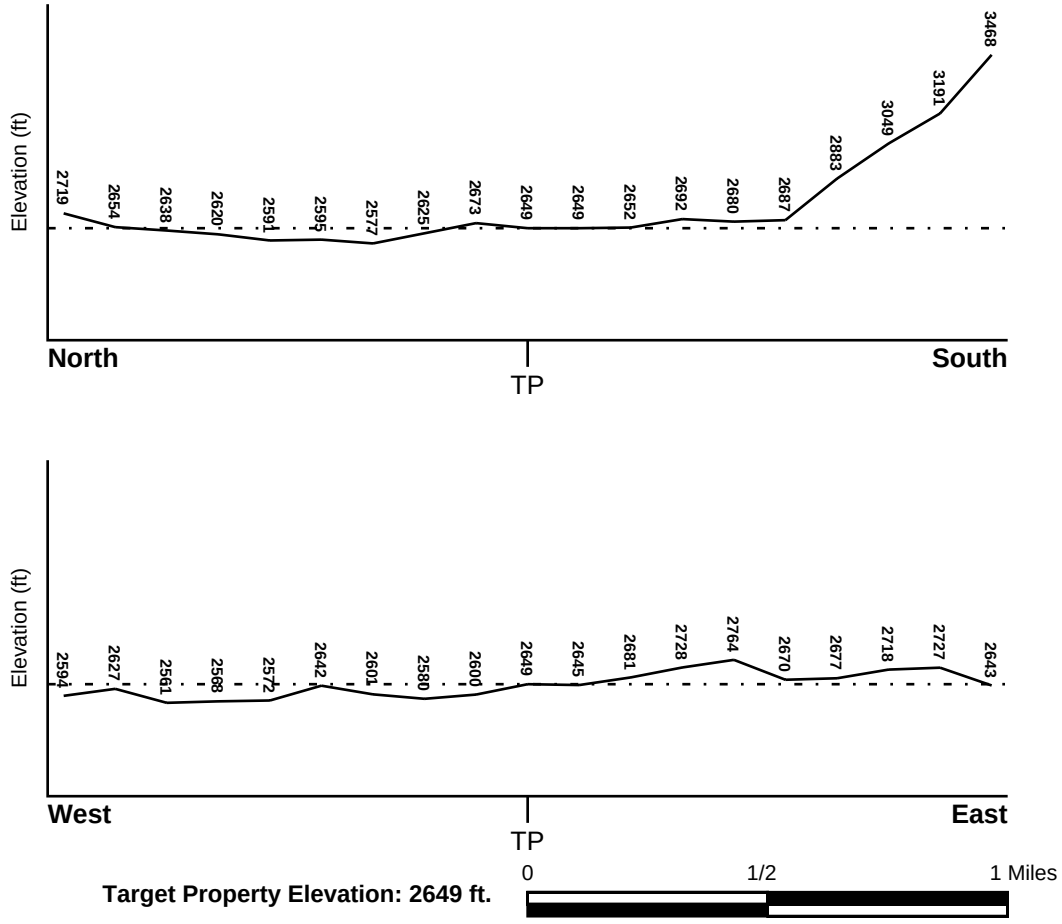
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 2649 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
3700864700J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
3700865700J	FEMA FIRM Flood data
3700865600J	FEMA FIRM Flood data
3700864600J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CANTON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Precambrian
System:	Precambrian
Series:	Paragneiss and schist
Code:	Ym *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Metamorphic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	HAYESVILLE
Soil Surface Texture:	loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 3.60
2	5 inches	38 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 3.60
3	38 inches	48 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 3.60
4	48 inches	60 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 6.00 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: gravelly - loam
sandy loam
fine sandy loam
silt loam

Surficial Soil Types: gravelly - loam
sandy loam
fine sandy loam
silt loam

Shallow Soil Types: sandy clay loam
silt loam

Deeper Soil Types: loam
stratified
sandy loam
gravelly - sand
clay loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000888374	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

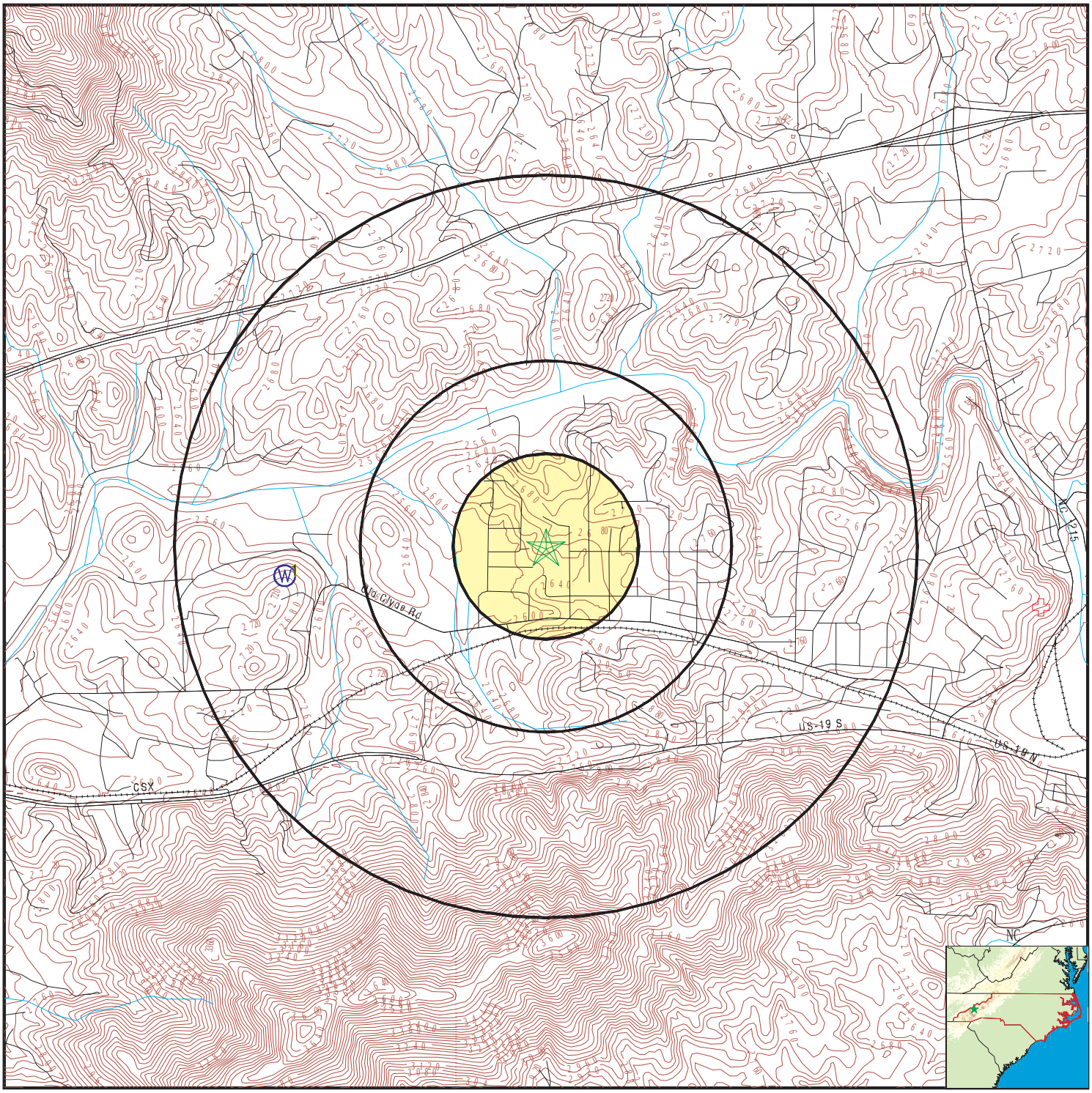
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

PHYSICAL SETTING SOURCE MAP - 8109381.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- Wildlife Areas
- Natural Areas
- Rare & Endangered Species

SITE NAME:	Harkins Avenue	CLIENT:	Bunnell-Lammons Engineering
ADDRESS:	Harkins Avenue, Haywood County, North Carolina Canton NC 28716	CONTACT:	Colby Clark
		INQUIRY #:	8109381.2s
LAT/LONG:	35.539866 / 82.870717	DATE:	September 16, 2025 9:39 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
West
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000888374**

Organization ID:	USGS-NC		
Organization Name:	USGS North Carolina Water Science Center		
Monitor Location:	HW-027	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Mafic Gneiss	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	110
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

NC_NHEO **NC50017996**

Elclass:	P	Precision1:	S
Eostat:	E	Gisid:	202776
Edr id:	NC50017996		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NC Radon

Radon Test Results

Num Results	Avg pCi/L	Min pCi/L	Max pCi/L
24	4.31	0.5	8.9
13	2.27	0.6	6.7

Federal EPA Radon Zone for HAYWOOD County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 28716

Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.220 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.150 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: US Fish & Wildlife Service
Telephone: 703-358-2171

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

North Carolina Public Water Supply Wells
Source: Department of Environmental Health
Telephone: 919-715-3243

OTHER STATE DATABASE INFORMATION

North Carolina Wildlife Resources/Game Lands
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
All publicly owned game lands managed by the North Carolina Wildlife Resources Commission and as listed in Hunting and Fishing Maps.

NC Natural Heritage Sites: Natural Heritage Element Occurrence Sites
Source: Natural Heritage Occurrence Sites Center for Geographic Information and Analysis
Telephone: 919-733-2090
A point coverage identifying locations of rare and endangered species, occurrences of exemplary or unique natural ecosystems (terrestrial or aquatic), and special animal habitats (e.g., colonial waterbird nesting sites).

NC Natural Areas: Significant Natural Heritage Areas
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
A polygon converage identifying sites (terrestrial or aquatic) that have particular biodiversity significance. A site's significance may be due to the presenceof rare species, rare or high quality natural communities, or other important ecological features.

RADON

State Database: NC Radon
Source: Department of Environment & Natural Resources
Telephone: 919-733-4984
Radon Statistical and Non Statiscal Data

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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Appendix E
Supporting Documentation

NOT REVIEW FOR TAX LISTING

DATE 09/28/2021

2021012001
HAYWOOD CO, NC FEE $26.00
STATE OF NC REAL ESTATE EXTX
$600.00
PRESENTED & RECORDED:
09-28-2021 01:14:32 PM
SHERRI C. ROGERS
REGISTER OF DEEDS
BY: HAVEN MUSE
DEPUTY
BK: RB 1043
PG: 1001-1003

Drafted by:
PAVEY LAW FIRM, P.A.
Attorney & Counselor at Law
33 Dillsboro Road
Sylva, North Carolina 28779

Delinquent taxes, if any, to be paid by the closing attorney to the county tax collector upon disbursement of closing proceeds.

Brief Description for index:
PIN# 8647-83-7739, 5.97 +/- acres
Beaverdam Township, Haywood County, NC

Revenue $600.00

NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this the 27 day of September, 2021, by and between, **TIFFANY MELISSA WARREN, divorced and un-remarried**, of P.O. Box 402, Lake Junaluska, North Carolina 28745 (hereinafter referred to as "Grantor"); and **MOUNTAIN PROJECTS, INC., a North Carolina Non-Profit Corporation**, of 2177 Asheville Road, Waynesville, North Carolina 28786 (hereinafter referred to as "Grantee").

WITNESSETH

The Grantor, for good and valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has, and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all of that certain lot or parcel of land situated in Beaverdam Township, Haywood County, North Carolina, and more particularly described as follows:

BEING AND COMPREHENDING a tract of land more particularly described on the attached **Exhibit "A"**, to which reference is hereby made and is fully incorporated herein.

AND BEING the same and premises lands and premises described and conveyed unto the Grantor herein by deed recorded in Book 895, Page 1456, Haywood County Public Registry.

This conveyance is made subject to the lien for ad valorem taxes for the current year and all easements, restrictions and conditions of record and affecting said property.

All or a portion of the property herein conveyed does not include the primary residence of the Grantor.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions noted herein.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors and assigns, and shall include the singular, plural, masculine, feminine or neuter as required by context.

IN WITNESS WHEREOF, the Grantor has hereunto set her hand and seal the day and year first written above.

Tiffany Melissa Warren (SEAL)
TIFFANY MELISSA WARREN

STATE OF North Carolina

COUNTY OF Jackson

I, Ashley Bonds, a Notary Public of the State of North Carolina, County of Jackson, do certify that before me personally appeared **TIFFANY MELISSA WARREN, divorced and unremarried**, Grantor, personally known to me, or who proved to me by satisfactory evidence (NC DL), to be the person who signed the preceding or attached record and acknowledged to me that she signed it voluntarily for its stated purpose.

Witness my hand and official seal, this the 27 day of September, 2021.

(Official Seal)

ASHLEY BONDS
Notary Public
North Carolina
Jackson County

Ashley Bonds
(Signature of Notary Public)

My Commission Expires: 9/10/2024

GENERAL WARRANTY DEED

EXHIBIT "A"

TIFFANY MELISSA WARREN, DIVORCED AND UN-REMARRIED

TO

MOUNTAIN PROJECTS, INC., a North Carolina Non-Profit Corporation

BEGINNING on a stake in the outside boundary line, said stake being the Southwest corner of a parcel of land deeded to James R. Stinnett (DB 243/117) and runs thence South 00 deg. 30 min. West 664 feet to a stake, corner of a tract of land conveyed to Robert A. Stinnett; thence East 400 feet to a stake in the outside boundary line; thence North 00 deg. 15 min. East 586 feet to a stake in the South margin of a driveway leading to James R. Stinnett's residence; thence with the South margin of said driveway, North 71 deg. 35 min. West 214 feet to a stake; thence West 190 feet to a stake, the BEGINNING POINT, containing 6.04 acres, more or less.

AND BEING the same lands and premises described and conveyed by deed dated March 18, 2015, from Kelly B. Warren, to Tiffany Melissa Warren, recorded in Book 895, Page 1456, Haywood County Public Registry.

This instrument is made and given SUBJECT TO all utility easements, rights of ways, facts and matters of record.

This instrument is made and given SUBJECT TO an Easement conveyed unto Carolina Power & Light Company, recorded in Book 482, Page 1830, Haywood County Public Registry.

This instrument is made and given SUBJECT TO an Easement Agreement conveyed unto West Canton Water and Sewer District, recorded in Book 586, Page 755, Haywood County Public Registry.

Outlook

Confirmation - North Carolina Department of Environmental Quality Public Records Request

From Smartsheet Forms <forms@app.smartsheet.com>
Date Thu 9/18/2025 9:07 AM
To Colby Clark <colby.clark@blecorp.com>

Thank you for submitting your request. A copy is included below for your records.

North Carolina Department of Environmental Quality Public Records Request

Your Name	Colby Clark
Your Email	Colby.Clark@blecorp.com
Your Phone Number	8284903317
Your Organization	Bunnell-Lammons Engineering
Division	All Divisions
I'm Looking For This Type Of Record	Phase 1
Site or Company Names	Harkins Avenue
Site or Company Addresses	Harkins Avenue, West Canton, NC 28716
Request Description	All available files.

File Attachments

Harkins Ave Parcel.png (1348k)

Powered by Smartsheet Forms
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MOUNTAIN PROJECTS INC	HARKINS AVE	Tax Year:2025 Valuation Year:2025 ID:2229124 Group:0	9/16/2025 3:59:41 PM Page 1 of 1

ACCT	TOWNSHIP	PIN #	TAX CODES
40597	02-BEAVERDAM	8647-83-7739	F01

SALE DATE	SALE PRICE	VALID	BOOK/PAGE	DATE APP	BY	PREVIOUS VALUE	
09/28/2021	300000		1043/1001	07/31/2020	EDS	LAND	0

NEIGHBORHOOD	LAND MODEL	ACRES		
02R008		5.9700	BUILDINGS	0
			TOTAL	0

MTHD	TYPE	ACR/ SQFT	RD	CODE / ADJUSTMENT	PUV	APPRAISED VALUE	DEFERRED	USE VALUE	EX
AC	OP	5.460	P			41,000			
AC	WD	0.510	P			3,800			

GENERAL REMARKS

METHOD		DESCRIPTION		BUILDING DEPRECIATION						% COMPLETE	USE	TOTAL BUILDING VALUE
SECTIONS		REMARKS		PHYS		FUNC			ECONOMIC			
# ROOMS				FEATURES					REPLACEMENT VALUE			Tax Exempt
												Charitable Low or Moderate

TYPE	AREA	OCC	WL HGT	STORIES	EXT WALL	BASEMENT	BSMT% FINSHD	RECRM% FINSHD	FUS	UUS	ATTIC	BED	BATH	FIREPLACE OPEN/STACK	HEAT	AIR	SPRNKLR	PERIMETR	GRADE	YR BLT	EFF AGE	CDU	DESIGN	PHY DEP	FUNC DEP	MKT FAC	REP VALUE	DEP TAX VALUE

MTHD	TYPE	% CMPLT	COUNT	WIDTH	LNGTH	AREA	STORIES	EXT WALL	AIR	HEAT	GRADE	YR BLT	EFF AGE	CDU	FUNC DEP	ECONOMIC DEPR.	TAX VALUE	REMARKS

Haywood County - Property Record Card

APPRAISED VALUE SUMMARY		USE VALUE SUMMARY		TOTAL TAX VALUE
LAND	BUILDING	LAND	BUILDING	
44,800	0			44,800

Appendix F
Aerial Photographs

Harkins Avenue

Harkins Avenue, Haywood County, North Carolina

Canton, NC 28716

Inquiry Number: 8109381.8

September 16, 2025

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

09/16/25

Site Name:

Harkins Avenue
Harkins Avenue, Haywood Cou
Canton, NC 28716
EDR Inquiry # 8109381.8

Client Name:

Bunnell-Lammons Engineering
30 Park Ridge Drive
Fletcher, NC 28732
Contact: Colby Clark

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2022	1"=500'	Flight Year: 2022	USDA/NAIP
2018	1"=500'	Flight Year: 2018	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Year: 1998	USGS/DOQQ
1995	1"=500'	Flight Date: March 25, 1995	USGS
1989	1"=500'	Flight Date: February 01, 1989	USDA
1985	1"=500'	Flight Date: April 10, 1985	USDA
1969	1"=500'	Flight Date: August 25, 1969	USGS
1957	1"=500'	Flight Date: March 16, 1957	NCDOT

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

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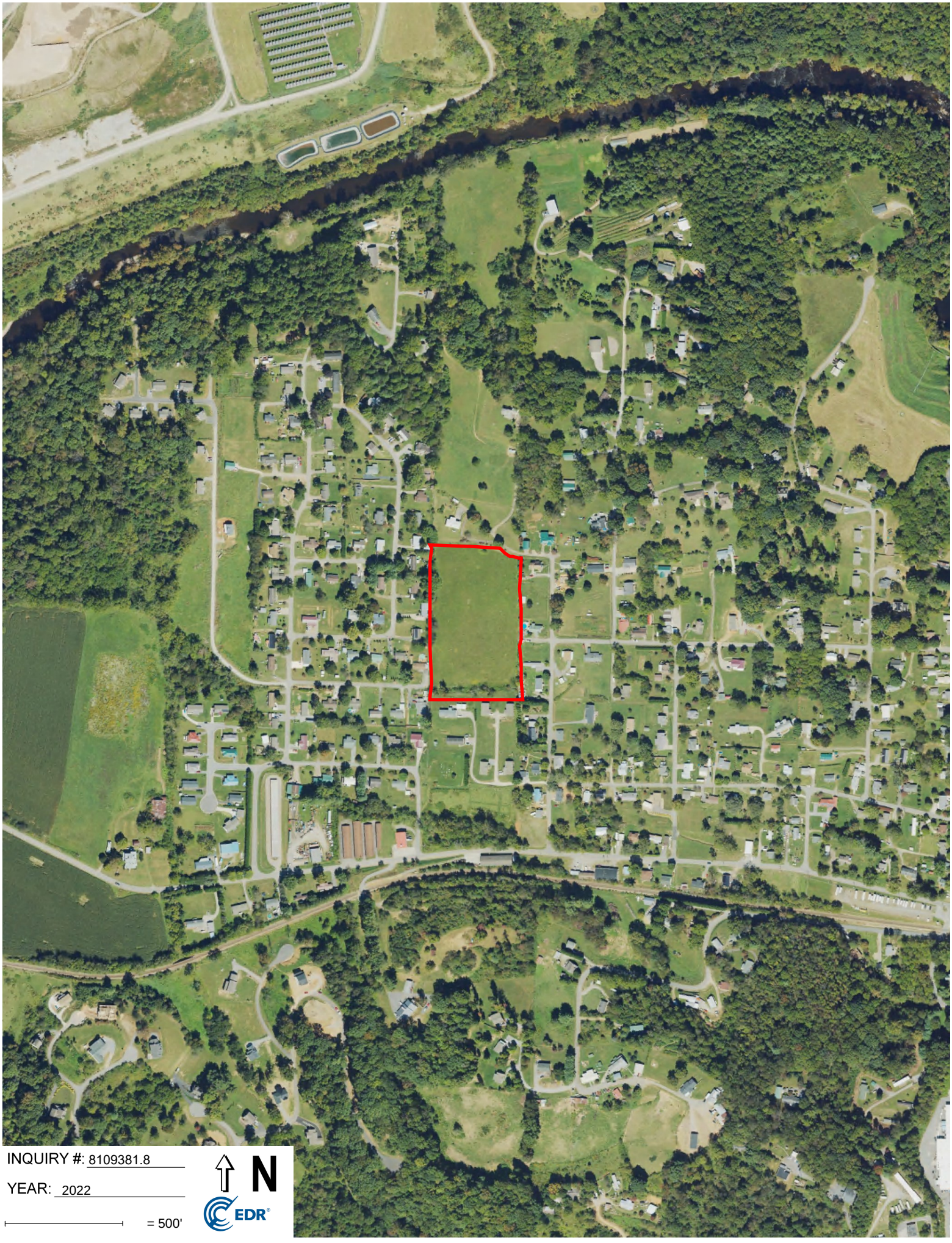

INQUIRY #: 8109381.8
YEAR: 2022
= 500'
N
EDR

INQUIRY #: 8109381.8
YEAR: 2018
= 500'
N
EDR

INQUIRY #: 8109381.8
YEAR: 2014
= 500'
N
EDR

INQUIRY #: 8109381.8
YEAR: 2010
= 500'
N
EDR

INQUIRY #: 8109381.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 8109381.8
YEAR: 1998
= 500'
N
EDR

INQUIRY #: 8109381.8

YEAR: 1995

= 500'

N

EDR

INQUIRY #: 8109381.8

YEAR: 1995

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

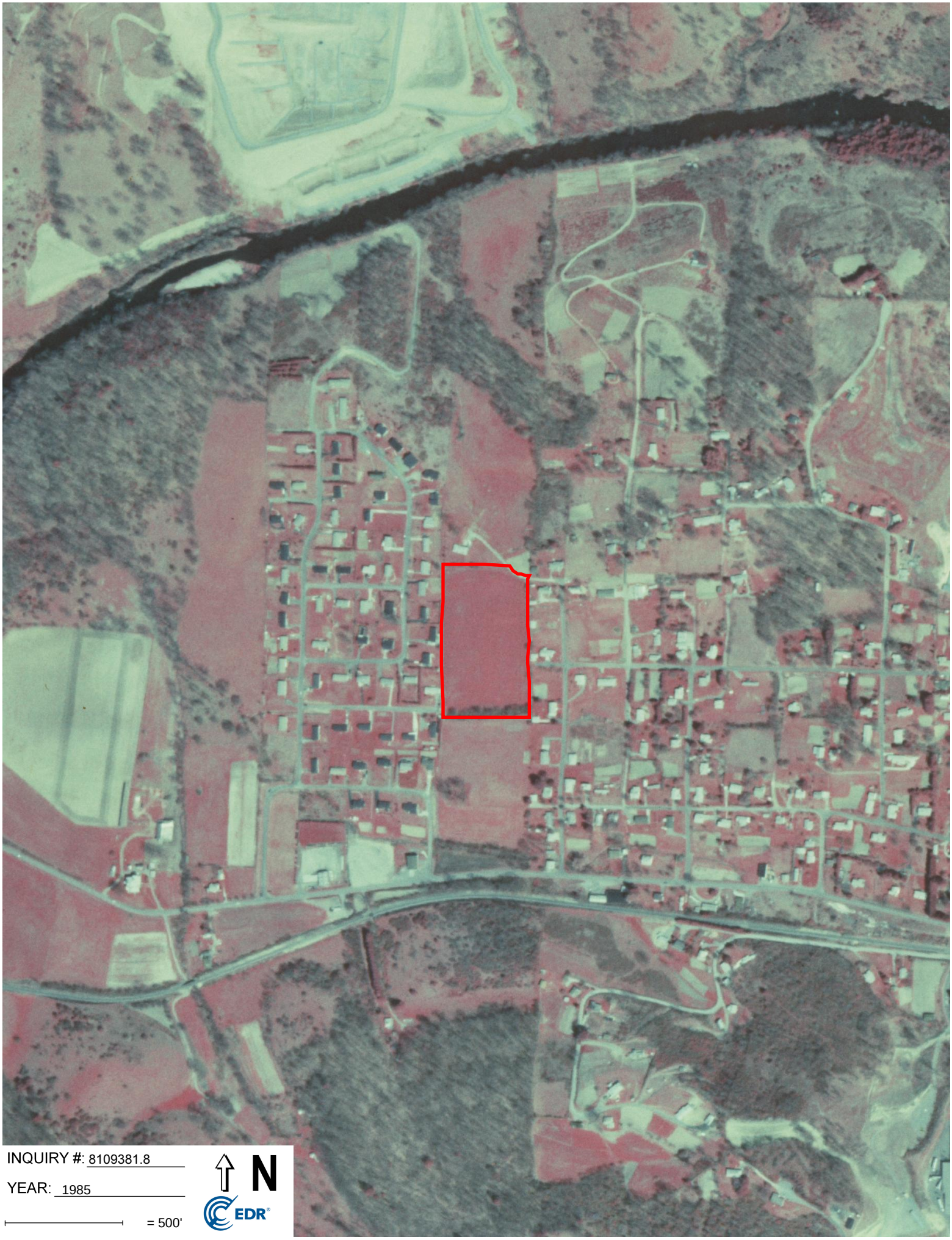
INQUIRY #: 8109381.8

YEAR: 1989

= 500'

N

EDR


INQUIRY #: 8109381.8
YEAR: 1985
= 500'
N
EDR

INQUIRY #: 8109381.8
YEAR: 1969
= 500'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 8109381.8

YEAR: 1957

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

Appendix G
Fire Insurance Maps

Harkins Avenue

Harkins Avenue, Haywood County, North Carolina

Canton, NC 28716

Inquiry Number: 8109381.3

September 16, 2025

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

09/16/25

Site Name:

Harkins Avenue
Harkins Avenue, Haywood Cou
Canton, NC 28716
EDR Inquiry # 8109381.3

Client Name:

Bunnell-Lammons Engineering
30 Park Ridge Drive
Fletcher, NC 28732
Contact: Colby Clark

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Bunnell-Lammons Engineering were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 19FA-4271-BDBD

PO # 21-16546-02 Rev1

Project Harkins Ave

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 19FA-4271-BDBD

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Appendix H
City Directory Records

Harkins Avenue
Harkins Avenue, Haywood County, North Carolina
Canton, NC 28716

Inquiry Number: 8109381.5
September 18, 2025

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

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City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2022	☑	☑	EDR Digital Archive
2017	☑	☑	Cole Information
2014	☑	☑	Cole Information
2010	☑	☑	Cole Information
2005	☑	☑	Cole Information
2000	☑	☑	Cole Information
1995	☑	☐	Cole Information
	☑	☐	EDR Digital Archive
1992	☑	☐	Cole Information
	☑	☐	EDR Digital Archive
1987	☑	☑	City Publishing Co
1985	☑	☑	City Publishing Co
1980	☑	☑	City Publishing Co
1974	☑	☑	City Publishing Co

FINDINGS

TARGET PROPERTY STREET

Harkins Avenue, Haywood County, North Carolina
Canton, NC 28716

Year	*CD Image*	*Source*

HARKINS AVE

2022	pg A1	EDR Digital Archive
2017	pg A3	Cole Information
2014	pg A5	Cole Information
2010	pg A7	Cole Information
2005	pg A9	Cole Information
2000	pg A11	Cole Information
1995	pg A13	Cole Information
1992	pg A14	Cole Information
1987	pg A15	City Publishing Co
1985	pg A17	City Publishing Co
1980	pg A19	City Publishing Co
1974	pg A21	City Publishing Co

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
OLD CLYDE RD			
2022	pg. A2	EDR Digital Archive	
2017	pg. A4	Cole Information	
2014	pg. A6	Cole Information	
2010	pg. A8	Cole Information	
2005	pg. A10	Cole Information	
2000	pg. A12	Cole Information	
1995	-	EDR Digital Archive	Target and Adjoining not listed in Source
1992	-	EDR Digital Archive	Target and Adjoining not listed in Source
1987	pg. A16	City Publishing Co	
1985	pg. A18	City Publishing Co	
1980	pg. A20	City Publishing Co	
1974	pg. A22	City Publishing Co	

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

HARKINS AVE 2022

33	LORRIE GRADELESS
39	ELDON CHAMBERS
93	CONNIE MOZELEWSKI
	JOHN MOZELEWSKI
	PATRICIA MOZELEWSKI
108	CHRISTOPHER BUCKNER
	LINDSEY BUCKNER
131	ANTHONY SORRELLS
	JESSIE SORRELLS
	R SORRELLS
148	YVONNE MYERS
155	ANTHONY SORRELLS
179	SHEILA SHAW
	VICTOR SHAW
	WILLIAM SHAW
183	TERESA SHAW
	WILLIAM SHAW
235	HANNAH SHAW
	HARLEY SHAW
	RUTH SHOOK
250	MARIE BUEKER
260	HOLLIE GREEN
314	ANA LILIA TORRES
	RENE CORREA
339	JAMES STINNETT
	JANICE STINNETT
	MARTIN STINNETT
	RICHARD STINNETT

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

OLD CLYDE RD 2022

5593	JAMES PATTON
	SARAH PATTON
5636	AMANDA COOKE
	JONATHAN COOKE
5660	DIEGO MARTIN
	EUGENIA ORTIZ
	MARGARITO MARTIN
5696	RONALD CONN
	VICKIE BANKS
5700	REBECCA LEDBETTE

Target Street	Cross Street	Source
✓	-	Cole Information

HARKINS AVE 2017

33	SMITH, DAN
39	CHAMBERS, ELDON B
93	MOZELEWSKI, JOHN A
108	LINDSEY, NICOLE
131	SORRELLS, ANTHONY B
148	CALDWELL TECHNOLOGIES
	WALKER, JAMES T
179	SHAW, WILLIE T
235	SHOOK, JR
250	GOSNELL, HANNAH D
314	CORREA, RENE G
339	STINNETT, JAMES R

Target Street	Cross Street	Source
-	✓	Cole Information

OLD CLYDE RD 2017

5593	PATTON, ROY H
5636	COOKE, JONATHAN L
5744	MCPHERSON, TERRY
6110	BRIGMAN ELECTRIC MOTORS INC
	BRIGMAN ELECTRIC SALES & SERVICES
6113	WRIGHT, AMANDA L

Target Street	Cross Street	Source
✓	-	Cole Information

HARKINS AVE 2014

93	MOZELEWSKI, JOHN A
108	OCCUPANT UNKNOWN,
131	SORRELLS, ANTHONY B
148	OCCUPANT UNKNOWN,
179	OCCUPANT UNKNOWN,
235	SHOOK, JR
250	OCCUPANT UNKNOWN,
314	MILNER, JUSTIN
339	MARTIN, ED J
	STINNETT, JAMES R

Target Street	Cross Street	Source
-	✓	Cole Information

OLD CLYDE RD 2014

5375	DICKENS, DARRELL L
5593	PATTON, ROY H
5636	OCCUPANT UNKNOWN,
5700	OCCUPANT UNKNOWN,
5744	MCCOY, WANDA M
6110	BRIGMAN ELECTRIC MOTORS INC
6113	EDWARDS, HALEY
6117	CODY, BILLY M
6146	RHINEHART, JOHNNY
	WATSON, CHARLES J
6147	WILLIAMS, S
6157	CODY, DENEEN
6166	CAGLE, RICHARD D

Target Street	Cross Street	Source
✓	-	Cole Information

HARKINS AVE 2010

33	AULDREDGE, DUSTAN
	CALLAHANS TREE SVC
39	BAKER, BETTY M
40	WARD, GUY
93	MOZELEWSKI, JOHN A
108	ROSS, MARGARET
131	SORRELLS, ROBERT E
148	SUTTLES, JACOB
179	SHAW, WILLIAM T
235	SHOOK, RUTH P
250	OCCUPANT UNKNOWN,
314	STINNETT, JAMES P
339	STINNETT, JAMES R

Target Street	Cross Street	Source
-	✓	Cole Information

OLD CLYDE RD 2010

5329	HUTCHISON, GWENDOLYN H
5333	RUTZ, ANTHONY E
5361	JENKINS, DOCK J
5375	DICKENS, DARRELL L
5634	OCCUPANT UNKNOWN,
5636	OCCUPANT UNKNOWN,
5696	FINCANNON, DANIEL E
	LIBERTY CORNER ENTERPRISE
5700	OCCUPANT UNKNOWN,
5744	MCCOY, WANDA M
6110	BRIGMAN ELECTRIC MOTORS INC
6113	ZUJKOWSKI, AMANDA

Target Street	Cross Street	Source
✓	-	Cole Information

HARKINS AVE 2005

33	SMITH, DAN
39	BAKER, BETTY M
40	WARD, GUY
59	STINNETT, RICHARD L
93	OCCUPANT UNKNOWN,
108	ROBINSON, LEIGH A
131	SORRELLS, ROBERT E
148	SUTTLES, WILMA M
179	CAPPS, TERESA
235	SHOOK, THOMAS E
250	HYATT, ROBERT H
314	STINNETT, JAMES
339	STINNETT, JAMES R

Target Street	Cross Street	Source
-	✓	Cole Information

OLD CLYDE RD 2005

5329	HUTCHISON, WILLIAM F
5333	RUTZ, ANTHONY E
5357	MACKEY, CARL E
5361	JENKINS, D J
5375	DICKENS, DARRELL L
5593	PATTON, ROY H
5634	PILKINGTON, JAMES H
5636	OCCUPANT UNKNOWN,
5696	FINCANNON, DANIEL E
5700	LEDBETTER, REBECCA
5744	OCCUPANT UNKNOWN,
5760	CLARK TRANSPORTATION INC
6106	RACK WORX INC
6117	CODY, BILLY P

Target Street	Cross Street	Source
✓	-	Cole Information

HARKINS AVE 2000

39 BAKER, R V

Target Street	Cross Street	Source
-	✓	Cole Information

OLD CLYDE RD 2000

5329	HUTCHISON, WILLIAM F
5696	FINCANNON, DANIEL
5700	BERK, WILMA J
5760	CLARK TRUCKING COMPANY
6106	A 1 MOBILE TRUCK AND TOWING SERVICE
	A 1 TOWING SERVICES INCORPORATED
6174	BROWN, PENNY M

Target Street	Cross Street	Source
✓	-	Cole Information

HARKINS AVE 1995

9	BAKER, ROBERT V
	STINNETT, JAMES
11	STINNETT, C N
20	WEST MAINTENANCE
21	MOZELEWSKI, JOHN A
29	SORRELLS, ROBERT E
39	POE, EARL
49	REED, RENYA M
51	SHOOK, THOMAS E JR
52	BURKETT, S T
54	GREENE, HIRAM C

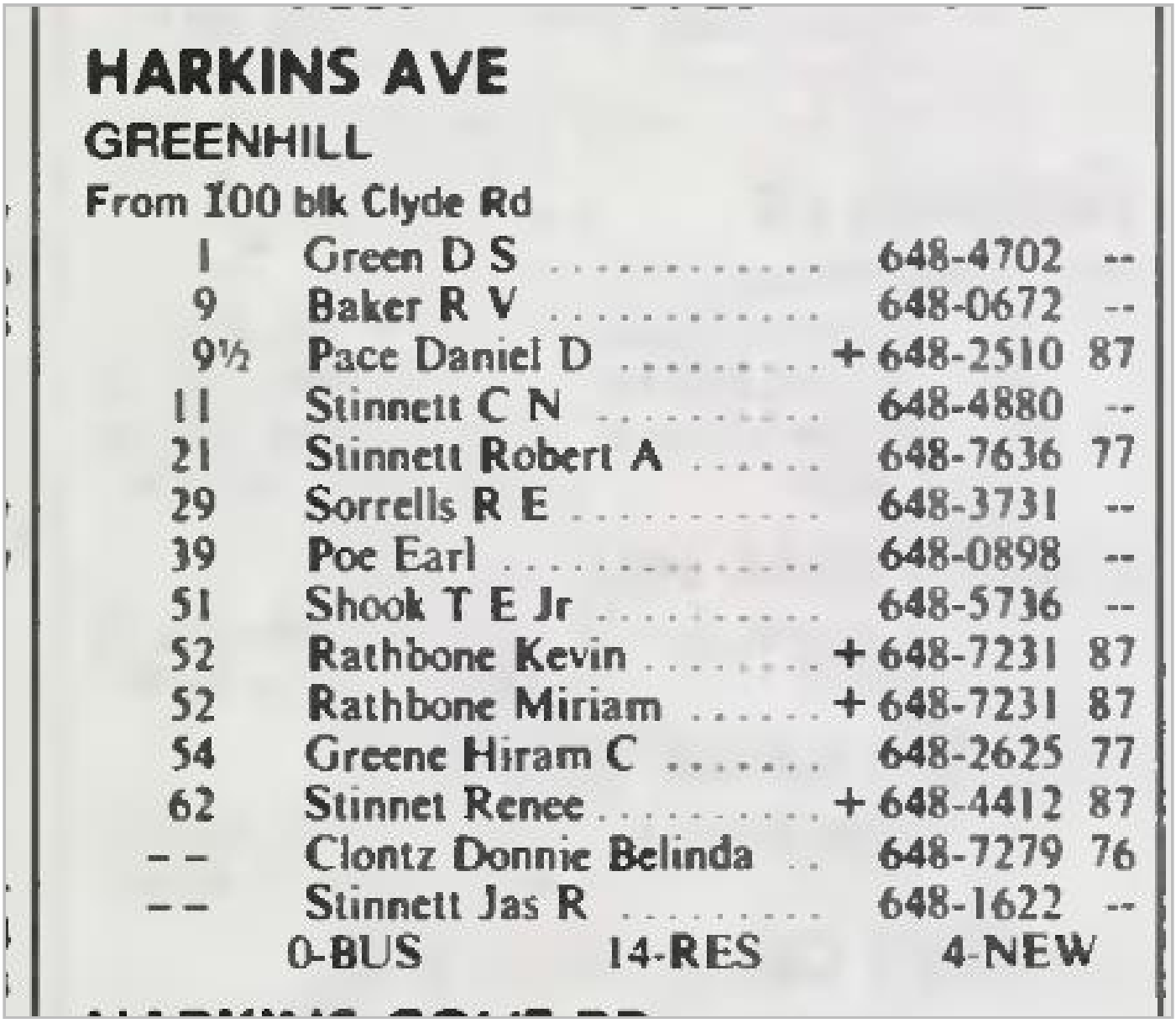
Target Street	Cross Street	Source
✓	-	Cole Information

HARKINS AVE 1992

9	BAKER, ROBERT V
11	STINNETT, C N
20	WEST MAINTENANCE
21	MOZELEWSKI, JOHN A
29	SORRELLS, ROBERT E
39	POE, EARL
51	SHOOK, THOMAS E JR
54	GREENE, HIRAM C

Target Street	Cross Street	Source
✓	-	City Publishing Co

HARKINS AVE 1987



HARKINS AVE

GREENHILL

From 100 blk Clyde Rd

1	Green D S		648-4702	--
9	Baker R V		648-0672	--
9½	Pace Daniel D	+	648-2510	87
11	Stinnett C N		648-4880	--
21	Stinnett Robert A		648-7636	77
29	Sorrells R E		648-3731	--
39	Poe Earl		648-0898	--
51	Shook T E Jr		648-5736	--
52	Rathbone Kevin	+	648-7231	87
52	Rathbone Miriam	+	648-7231	87
54	Greene Hiram C		648-2625	77
62	Stinnet Renee	+	648-4412	87
--	Clontz Donnie Belinda		648-7279	76
--	Stinnett Jas R		648-1622	--

0-BUS 14-RES 4-NEW

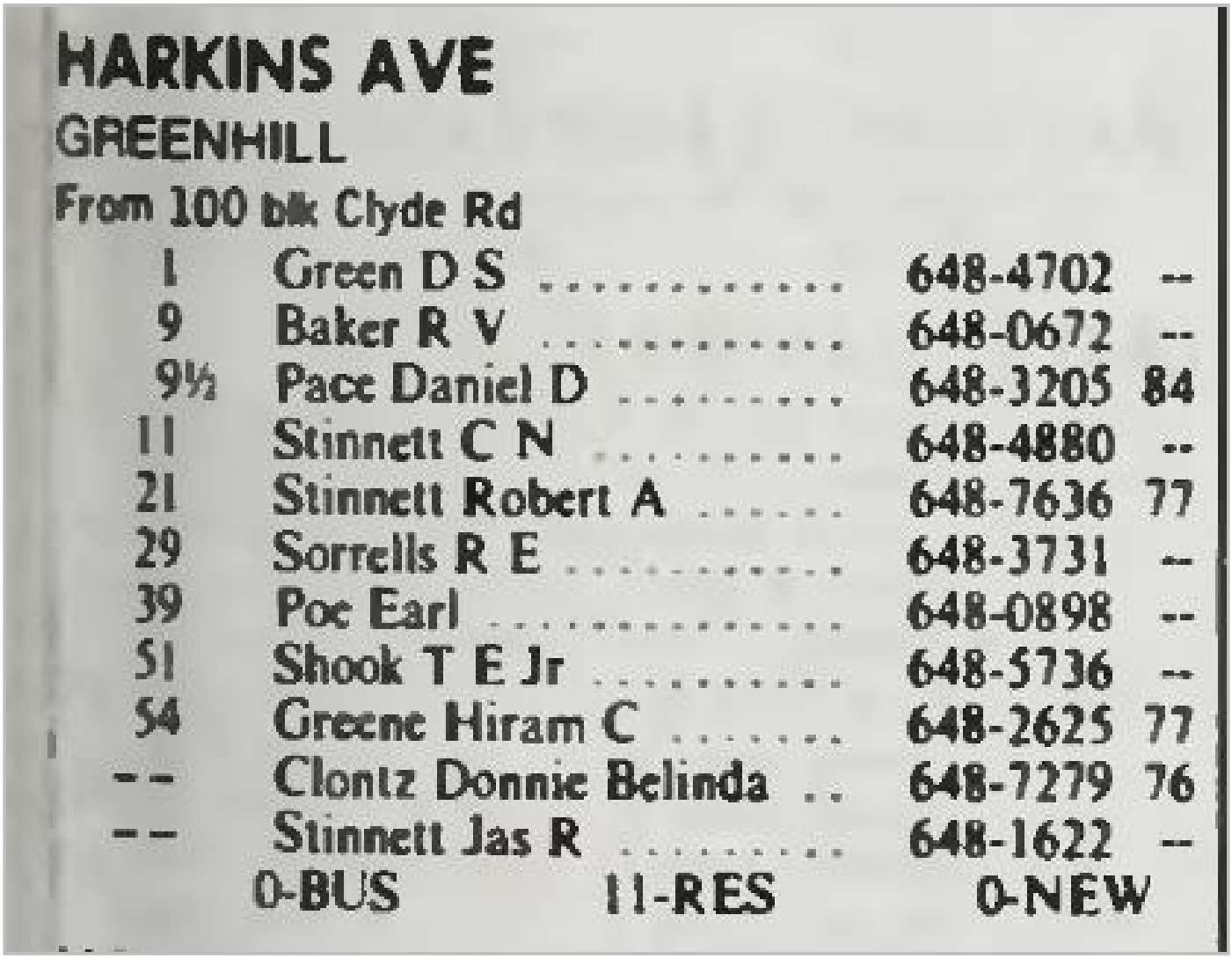
Target Street	Cross Street	Source
-	✓	City Publishing Co

OLD CLYDE RD 1987

	study		648-6623	--
94	Jamison Mary H		648-6703	79
102	★Haywood Tech Col Patton School		648-4163	85
110	Queen J R		648-1407	84
112	Hall Geo		648-3668	--
115	Burrell Lewin D		648-0645	82
115	Privett Jimmy E		648-3837	86
115	Shelton Lisa R	+	648-6877	87
118	Deaver V C		648-4290	--
122	Mathis D J	+	648-3330	87
124	Clark Theodore B		648-1288	--
141	★Cole Frank Automotv & Eqpt Repair		648-6955	--
141	★Gillett Paint & Body Shop		648-1103	--
153	Cagle Ruth D	+	648-4421	87
156	Green Ronald C		648-1144	79
159	Thomason Laine T		648-1773	79
162	Clontz Ada A		648-0220	79
170	McDonald Fred		648-7579	82
175	Jones Ernest A		627-9534	77
--	★B & J Tarheel Home Improvements		627-2350	84
--	★Beck Construction Co		627-2350	85
--	Beck Thomas C		627-2350	84
--	Blazer Gerald		627-6780	78
--	Brown Ada Lee	+	627-6376	87
--	★Browning Truck & Eqpt Sales		648-0147	83

Target Street	Cross Street	Source
✓	-	City Publishing Co

HARKINS AVE 1985



HARKINS AVE

GREENHILL

From 100 blk Clyde Rd

1	Green D S	648-4702	--
9	Baker R V	648-0672	--
9½	Pace Daniel D	648-3205	84
11	Stinnett C N	648-4880	--
21	Stinnett Robert A	648-7636	77
29	Sorrells R E	648-3731	--
39	Poe Earl	648-0898	--
51	Shook T E Jr	648-5736	--
54	Greene Hiram C	648-2625	77
--	Clontz Donnie Belinda	648-7279	76
--	Stinnett Jas R	648-1622	--

0-BUS 11-RES 0-NEW

Target Street	Cross Street	Source
-	✓	City Publishing Co

OLD CLYDE RD 1985

75		Mintz Beverly J	648-8159	78
77	★	T & M Appliance Store	+ 648-0955	85
88		Jamison Paul J	648-6608	79
90		Britt C Wallace Rev	648-1273	80
90	★	West Canton Bapt Ch	648-5561	77
90	★	West Canton Bapt Ch study	648-6623	--
94		Jamison Mary H	648-6703	79
102	★	Haywood Tech Col Patton School	+ 648-4163	85
102	★	Haywood Tech College Green House	627-9871	81
110		Queen J R	648-1407	84
112		Hall Geo	648-3668	--
115		Burrell Lewin D	648-0645	82
118		Deaver V C	648-4290	--
124		Clark Theodore B	648-1288	--
141	★	Cole Frank Automotv & Eqpt Repair	648-6955	--
141	★	Gillett Paint & Body Shop	648-1103	--
156		Green Ronald C	648-1144	79
159		Thomason Laine T	648-1773	79
162		Clontz Ada A	648-0220	79
170		McDonald Fred	648-7579	82
175		Jones Ernest A	627-9534	77
--	★	B & J Tarheel Home Improvements	627-2350	84
--	★	Beck Construction Co	+ 627-2350	85

Target Street	Cross Street	Source
✓	-	City Publishing Co

HARKINS AVE 1980

HARKINS AVE

GREENHILL

From 100 blk Clyde Rd

1	Green D S	648-4702
9	Baker R V	648-0672
9½	Garland Terry M	648-7256
11	Stinnett C N	648-4880
21	Stinnett Robert A	648-7636
29	Sorrells R E	648-3731
36	Myers Odis	648-1150
39	Poe Earl	648-0898
51	Shook T E Jr	648-5736
52	Garland Phillip H	*648-7216
52	Shipman Wade F Jr	*648-7213
54	Greene Hiram C	648-2625
--	Clontz Donnie Belinda	648-7279
--	Stinnett Jas R	648-1622

Target Street	Cross Street	Source
-	✓	City Publishing Co

OLD CLYDE RD 1980

90	*Dial A Message	*648-1603
90	*West Canton Bapt Ch	648-5561
90	*West Canton Bapt Ch Study	648-6623
94	Jamison Mary H	643-6703
98	Lowe Olive Mrs	648-1450
102	*Dale C R ofc	648-6960
102	*Western Regional Education Cntr	648-6960
106	Messer Chas E	648-6486
112	Hall Geo	648-3668
116	*Amway Prodt Distrbrs	*648-1592
116	*Amway Prodts Distrs	*648-1592
116	Cooper Geoff	648-1592
116	Crisp Malcolm M	648-4786
118	Deaver V C	648-4290
122	Goodwin Larry	648-2060
124	Clark Theodore B	648-1288
128	Clark Fred W	648-5634
141	*Cole Frank Automotv & Eqpt Repair	648-6955
141	*Gillett Paint & Body Shop	648-1103
156	Green Ronald C	648-1144
159	Thomason Laine T	648-1773
162	Clontz Ada A	648-0220
--	*Browning Constn & Trucking Co	648-0147
--	*Canton Block & Pipe	648-3572
--	*Hurley's Superette	648-6296
--	Patton J S Mrs	648-0364
--	Patton Weaver	648-5094
--	*Ray's Cab	648-5000
--	*Ruan Leasing Co	648-7357
--	*Stamey Roofing & Mtl	648-3553

Target Street	Cross Street	Source
✓	-	City Publishing Co

HARKINS AVE 1974

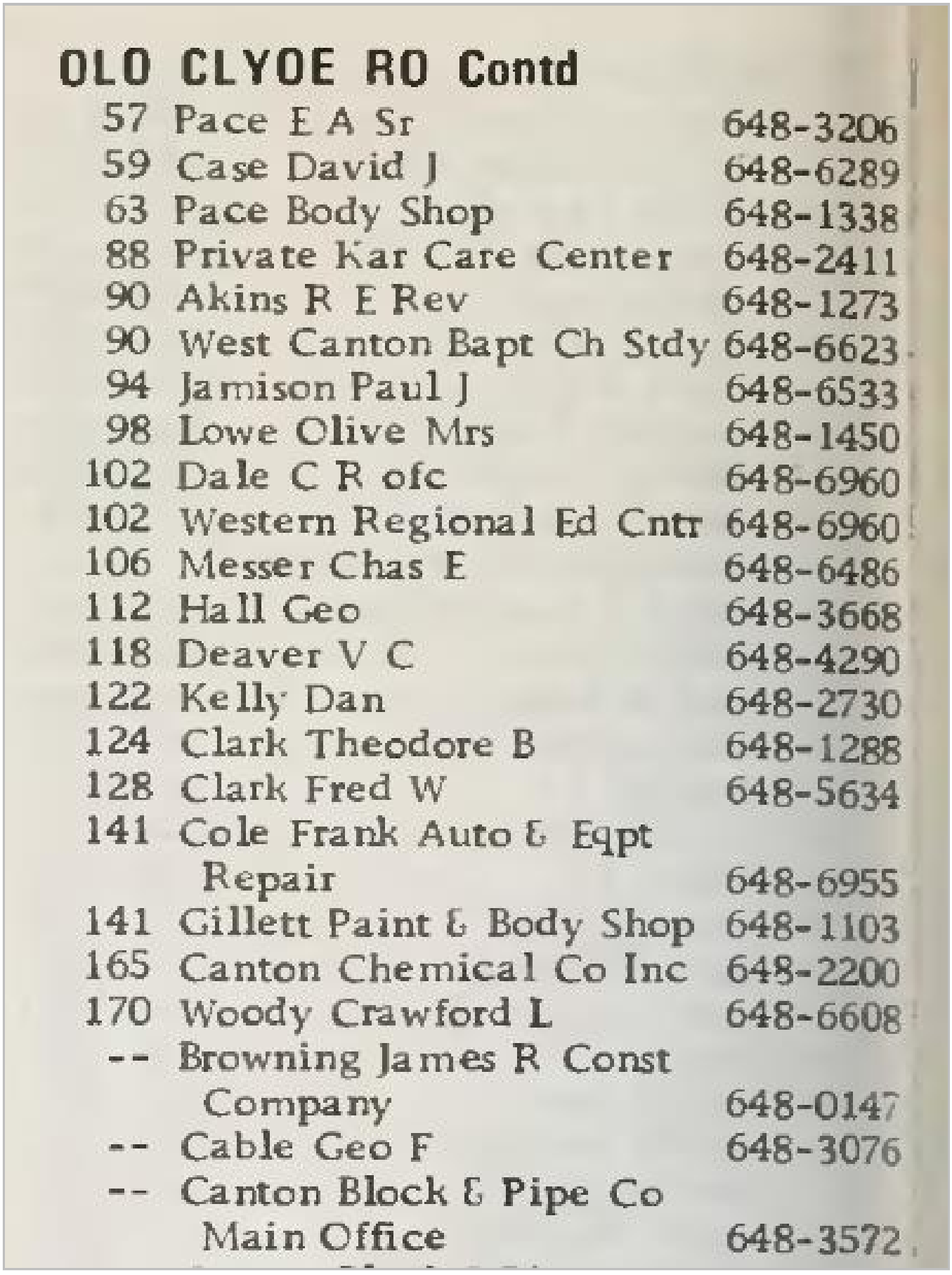
HARKINS AVE (Greenhill)

From 100 blk Clyde Rd

1	Green D S	648-4702
9	Baker R V	648-0672
11	Stinnett C N	648-4880
29	Sorrells R E	648-3731
36	Myers Odis	648-1150
39	Poe Earl	648-0898
39	Reed Dennis Allen	648-2527
51	Shook T E Jr	648-5736
54	Green Hiram C	648-2625
52	Buchanan Ronald L	648-5012
--	Stinnett Jas R	648-1622

Target Street	Cross Street	Source
-	✓	City Publishing Co

OLD CLYDE RD 1974



OLO CLYOE RO Contd

57	Pace E A Sr	648-3206
59	Case David J	648-6289
63	Pace Body Shop	648-1338
88	Private Kar Care Center	648-2411
90	Akins R E Rev	648-1273
90	West Canton Bapt Ch Stdy	648-6623
94	Jamison Paul J	648-6533
98	Lowe Olive Mrs	648-1450
102	Dale C R ofc	648-6960
102	Western Regional Ed Cntr	648-6960
106	Messer Chas E	648-6486
112	Hall Geo	648-3668
118	Deaver V C	648-4290
122	Kelly Dan	648-2730
124	Clark Theodore B	648-1288
128	Clark Fred W	648-5634
141	Cole Frank Auto & Eqpt Repair	648-6955
141	Gillett Paint & Body Shop	648-1103
165	Canton Chemical Co Inc	648-2200
170	Woody Crawford L	648-6608
--	Browning James R Const Company	648-0147
--	Cable Geo F	648-3076
--	Canton Block & Pipe Co Main Office	648-3572

Appendix I
Historic Topographic Maps

Harkins Avenue

Harkins Avenue, Haywood County, North Carolina

Canton, NC 28716

Inquiry Number: 8109381.4

September 16, 2025

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

09/16/25

Site Name:	Client Name:
Harkins Avenue	Bunnell-Lammons Engineering
Harkins Avenue, Haywood Cou	30 Park Ridge Drive
Canton, NC 28716	Fletcher, NC 28732
EDR Inquiry # 8109381.4	Contact: Colby Clark

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Bunnell-Lammons Engineering were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 21-16546-02 Rev1

Project: Harkins Ave

Coordinates:

Latitude:	35.539866 35° 32' 24" North
Longitude:	-82.870717 -82° 52' 15" West
UTM Zone:	Zone 17 North
UTM X Meters:	330412.89
UTM Y Meters:	3934524.42
Elevation:	2650.57' above sea level

Maps Provided:

2022	1941
2019	1935
2016	1901
2013	1894
1990	
1978, 1979	
1967	
1942	

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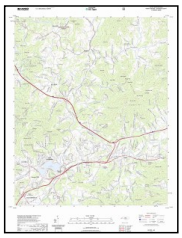
Topo Sheet Key

T□□□ EDR T□□□ M□□ R□□□r□□□ □□□□d □□□□ □□□ □□□□□□ □□□ USGS □□□□□r□□□□□ □ □□ □□□□□□.

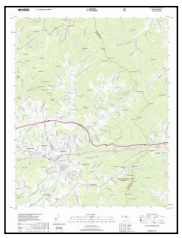
2022 Source Sheets

Canton
2022
7.5-minute, 24000

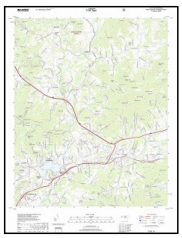


Clyde
2022
7.5-minute, 24000

2019 Source Sheets



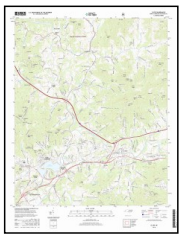
Canton
2019
7.5-minute, 24000



Clyde
2019
7.5-minute, 24000

2016 Source Sheets

Canton
2016
7.5-minute, 24000



Clyde
2016
7.5-minute, 24000

2013 Source Sheets

Canton
2013
7.5-minute, 24000

Clyde
2013
7.5-minute, 24000

Topo Sheet Key

T□□□ EDR T□□□ M□□ R□□□r□□□ □□□□d □□□□ □□□ □□□□□□ □□□ USGS □□□□□r□□□□□ □ □□ □□□□□□.

1990 Source Sheets

Canton
1990
7.5-minute, 24000
Aerial Photo Revised 1988

1978, 1979 Source Sheets

Clyde
1978
7.5-minute, 24000
Aerial Photo Revised 1976

Canton
1979
7.5-minute, 24000
Aerial Photo Revised 1976

1967 Source Sheets

Canton
1967
7.5-minute, 24000
Aerial Photo Revised 1966

Clyde
1967
7.5-minute, 24000
Aerial Photo Revised 1966

1942 Source Sheets

Clyde
1942
7.5-minute, 24000

Canton
1942
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report provided data from the USGS publication.

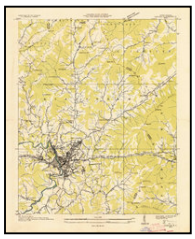
1941 Source Sheets

Canton
1941
7.5-minute, 24000

Clyde
1941
7.5-minute, 24000

1935 Source Sheets

Clyde
1935
7.5-minute, 24000



Canton
1935
7.5-minute, 24000

1901 Source Sheets

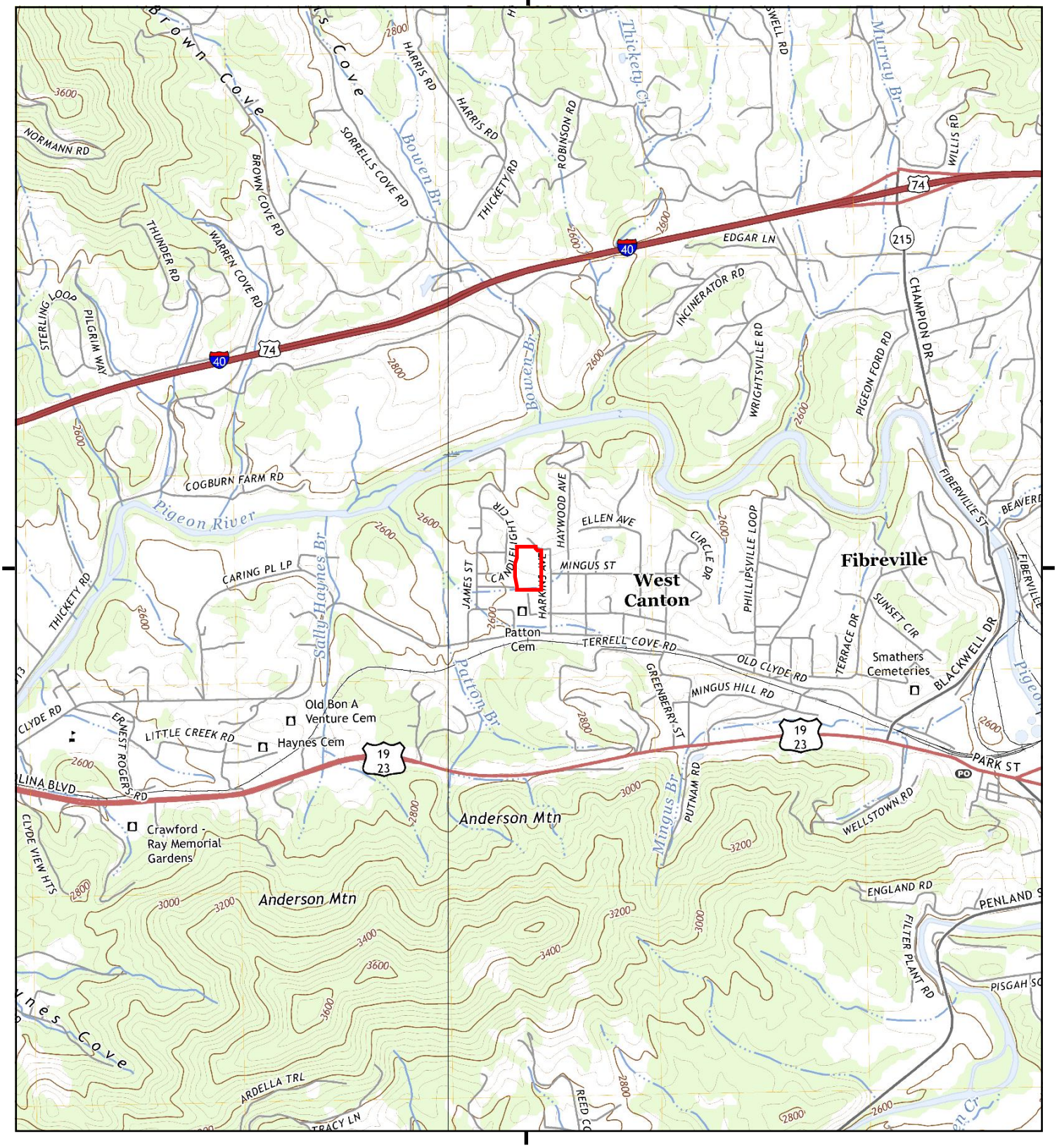
Asheville
1901
30-minute, 125000

1894 Source Sheets

Asheville
1894
30-minute, 125000

Historical Topo Map

2022



This map is derived from multiple sources. The quality of the original source data may affect the appearance of this map.

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
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TP, Canton, 2022, 7.5-minute
NW, Clyde, 2022, 7.5-minute

SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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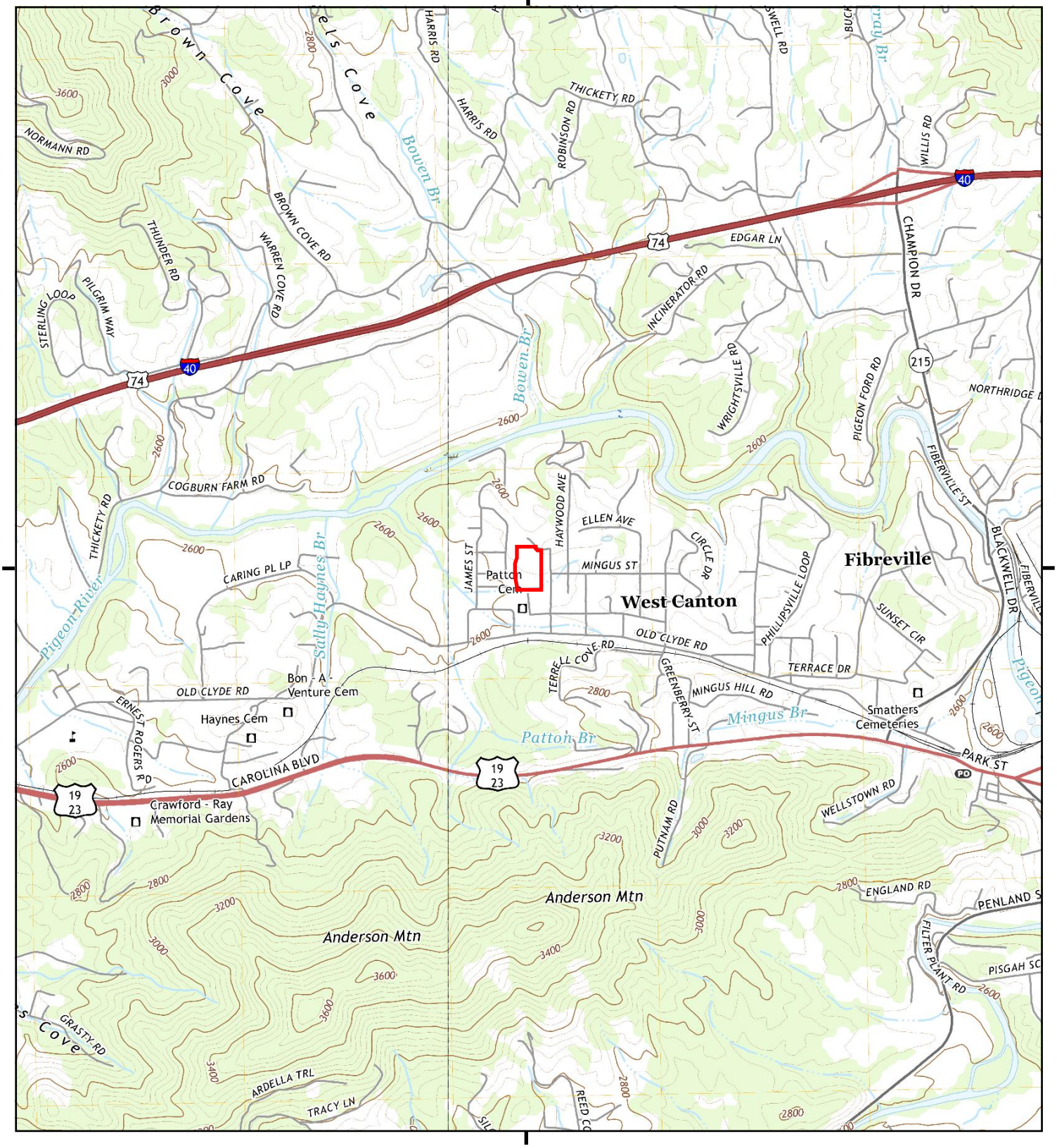
Historical Topo Map

2019



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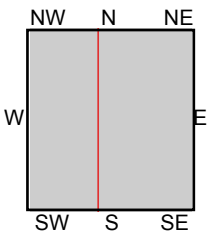

TP, Canton, 2019, 7.5-minute
NW, Clyde, 2019, 7.5-minute

SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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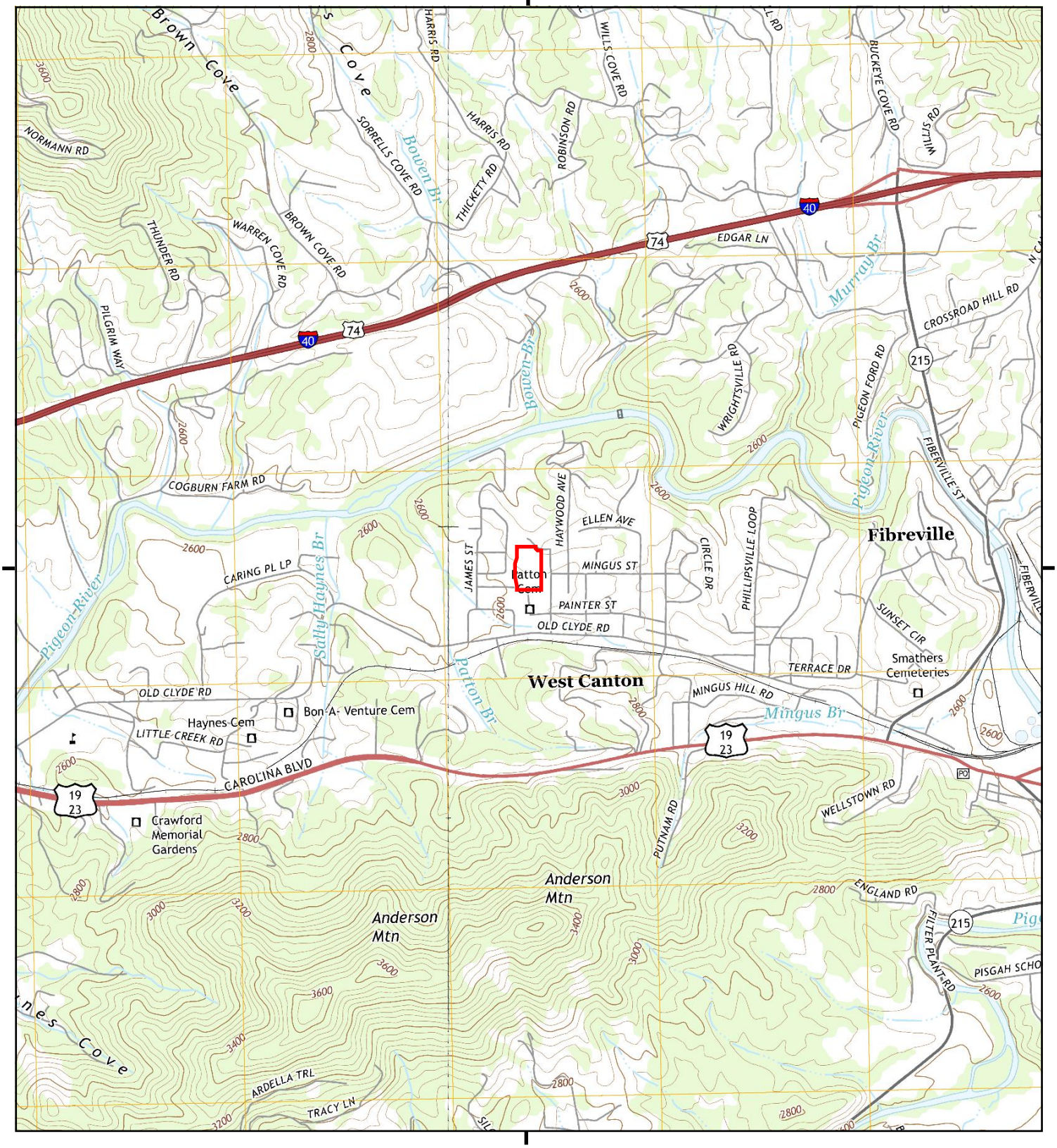
Historical Topo Map

2016



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TP, Canton, 2016, 7.5-minute
NW, Clyde, 2016, 7.5-minute

SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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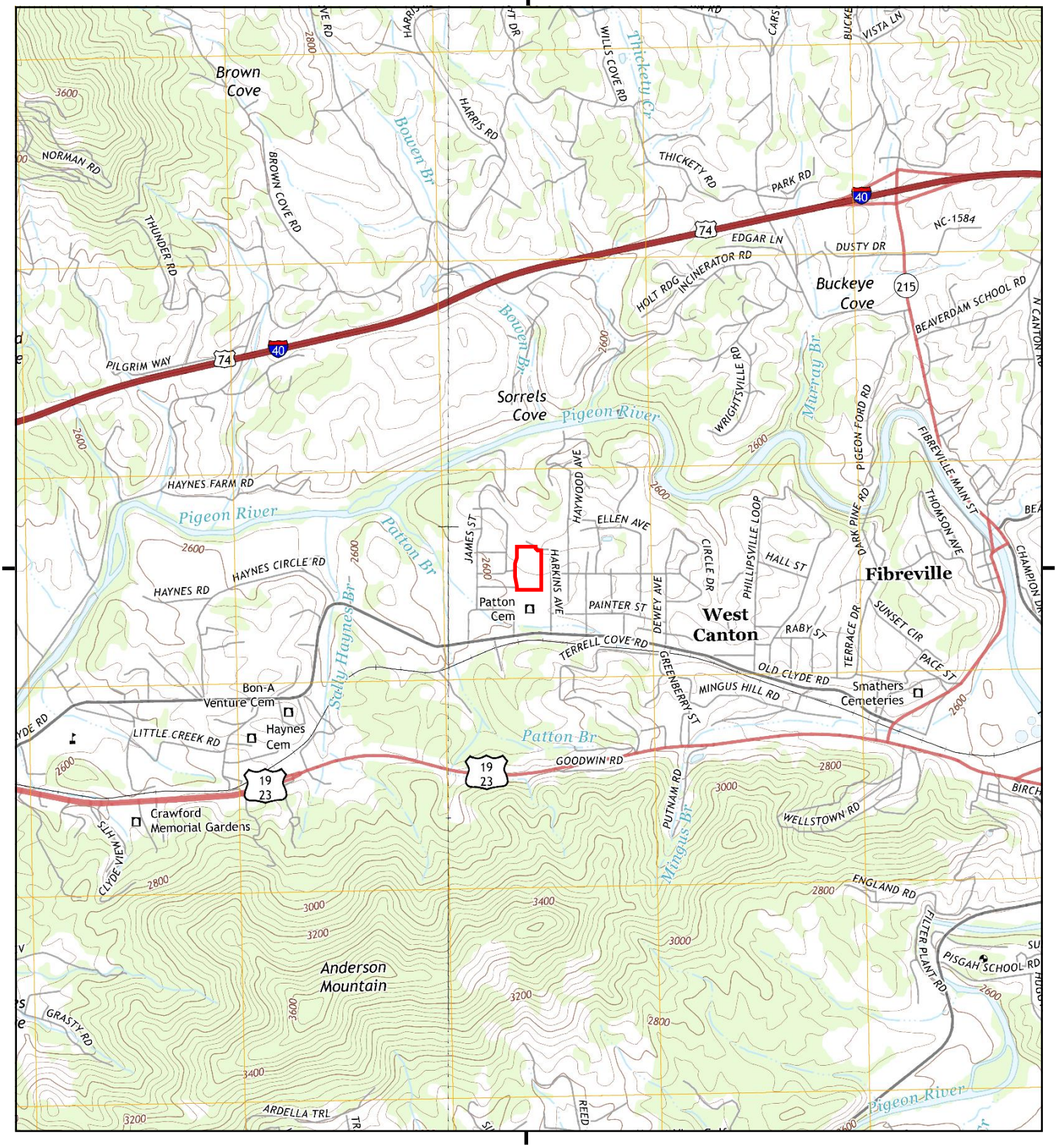
Historical Topo Map

2013



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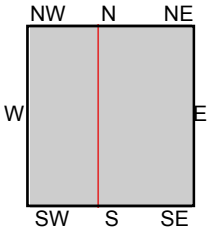

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ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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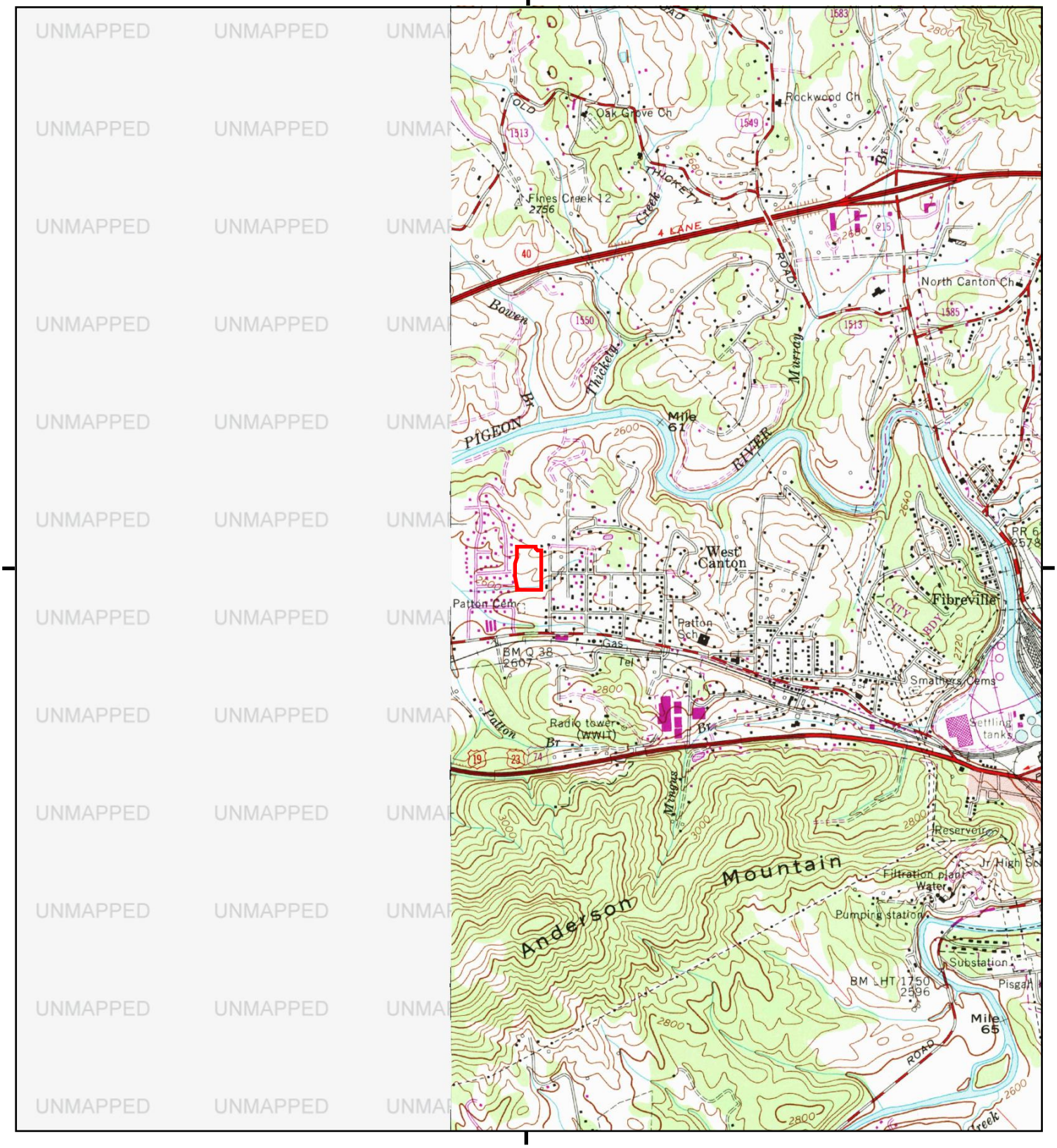
Historical Topo Map

1990



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SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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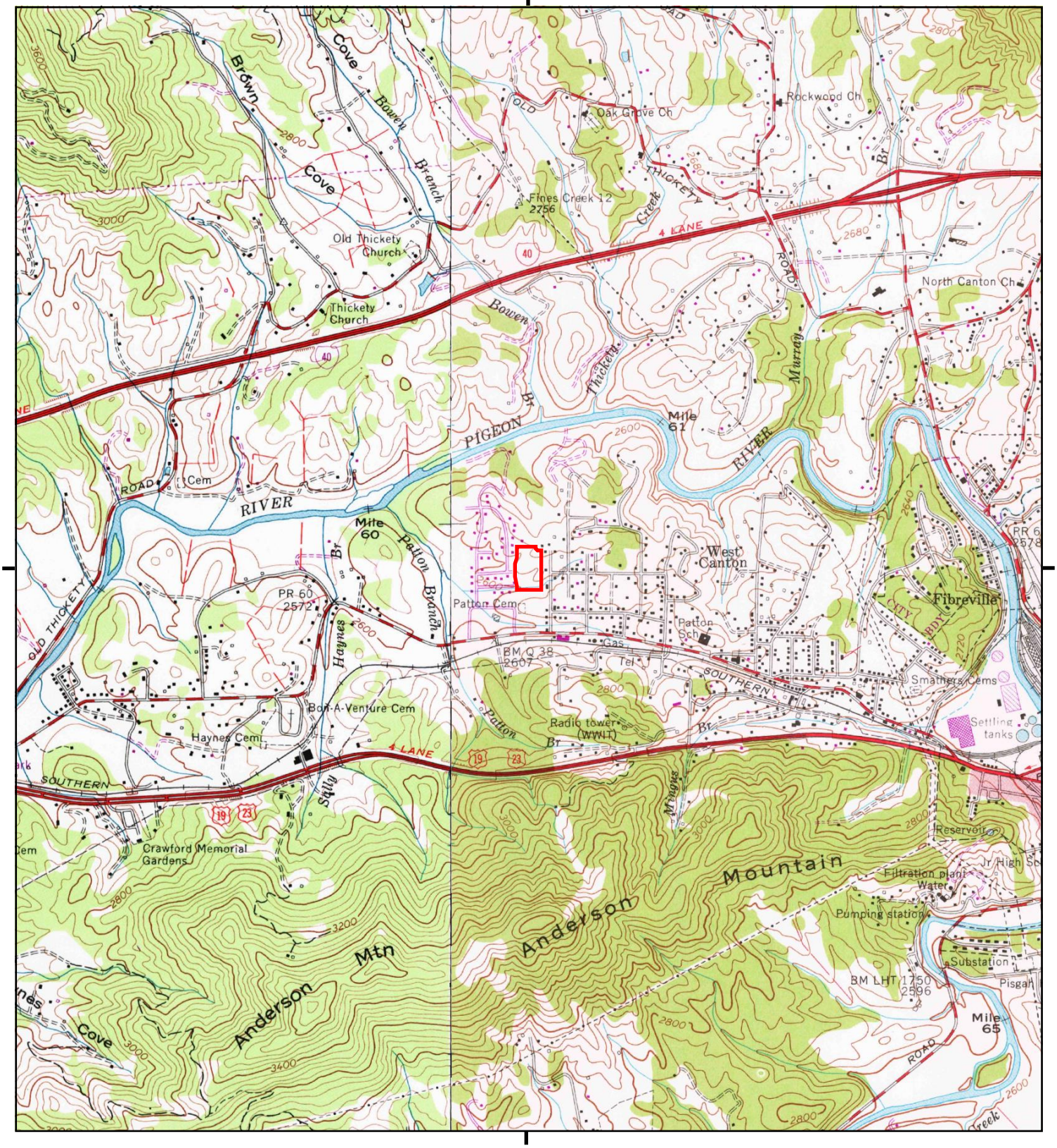
Historical Topo Map

1978, 1979



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SW S SE

TP, Canton, 1979, 7.5-minute
NW, Clyde, 1978, 7.5-minute

SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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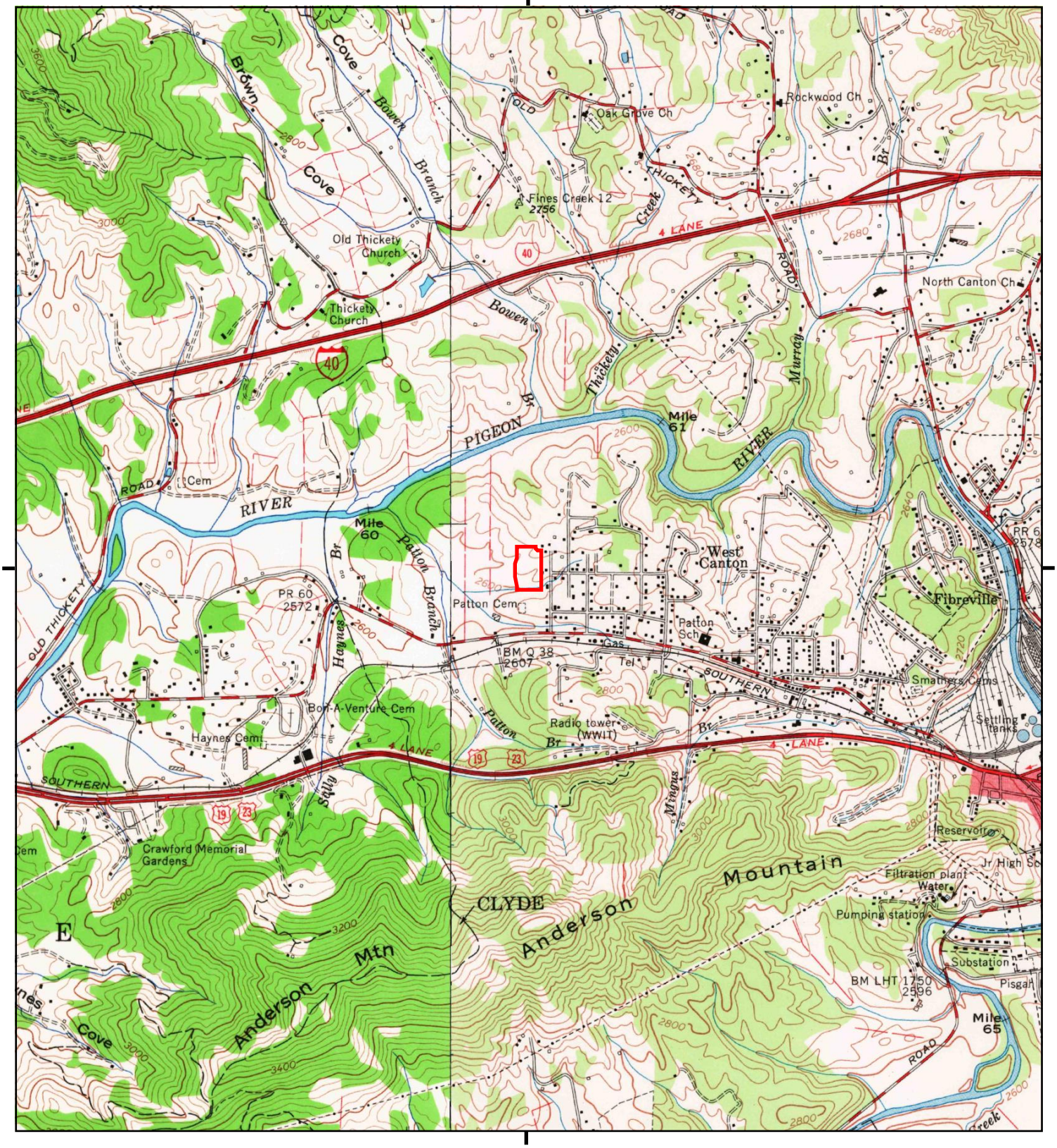

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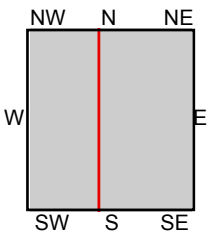

TP, Canton, 1967, 7.5-minute
NW, Clyde, 1967, 7.5-minute

SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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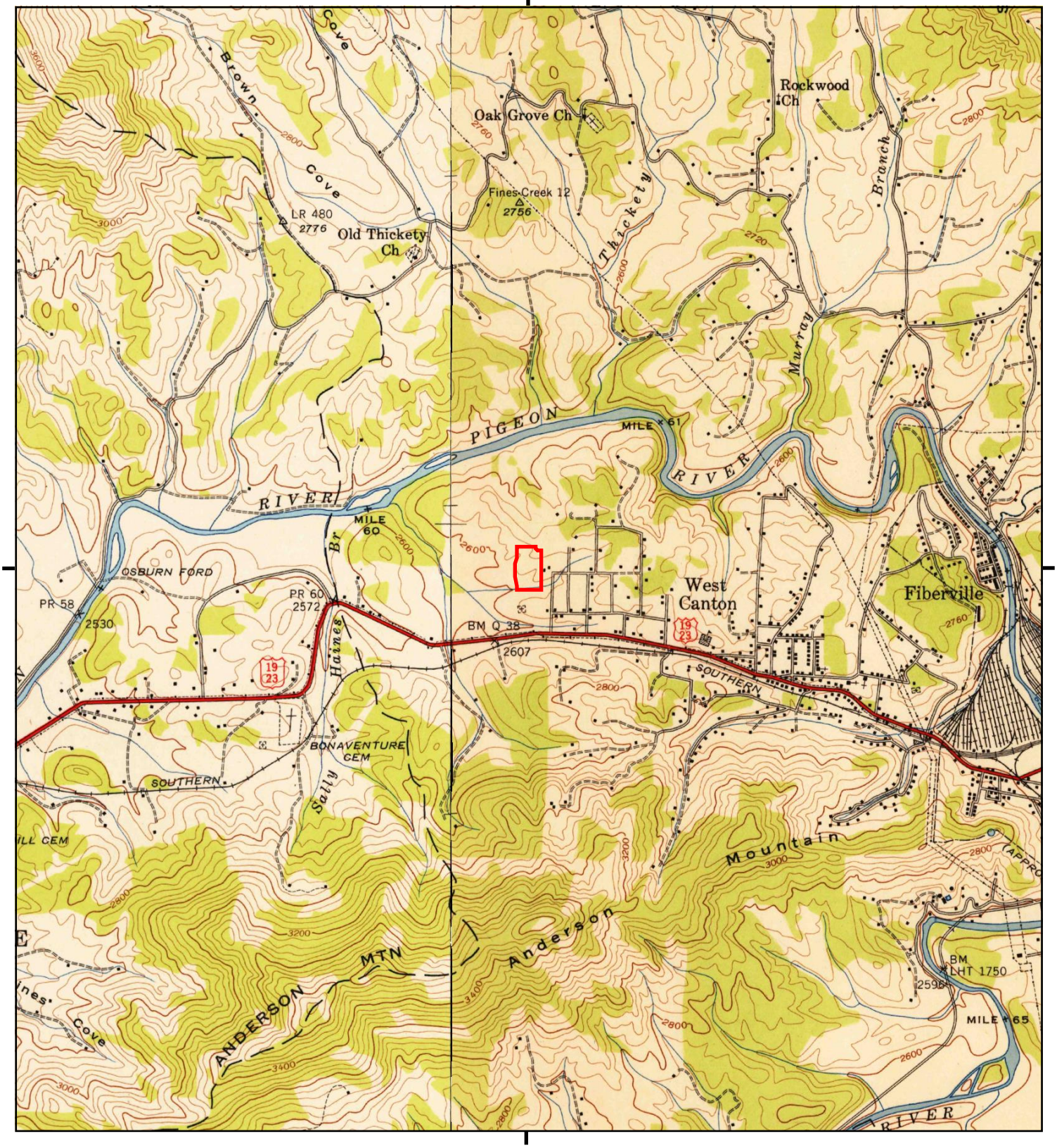

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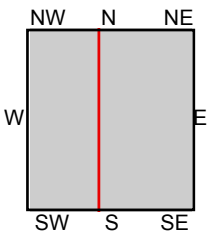

TP, Canton, 1942, 7.5-minute
NW, Clyde, 1942, 7.5-minute

SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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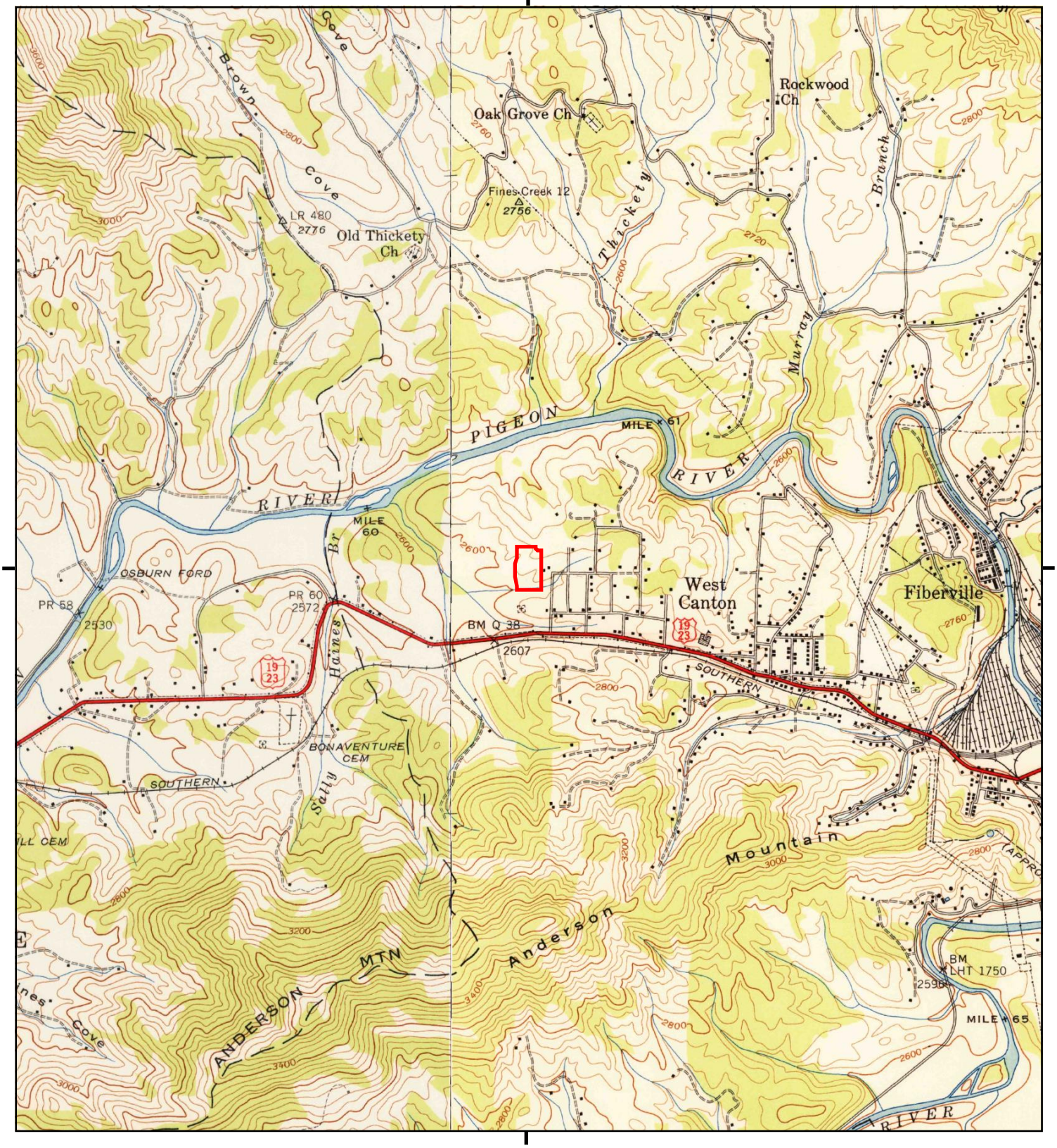
Historical Topo Map

1941



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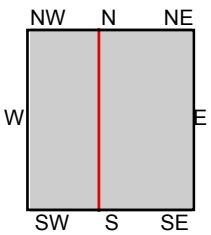

TP, Canton, 1941, 7.5-minute
NW, Clyde, 1941, 7.5-minute

SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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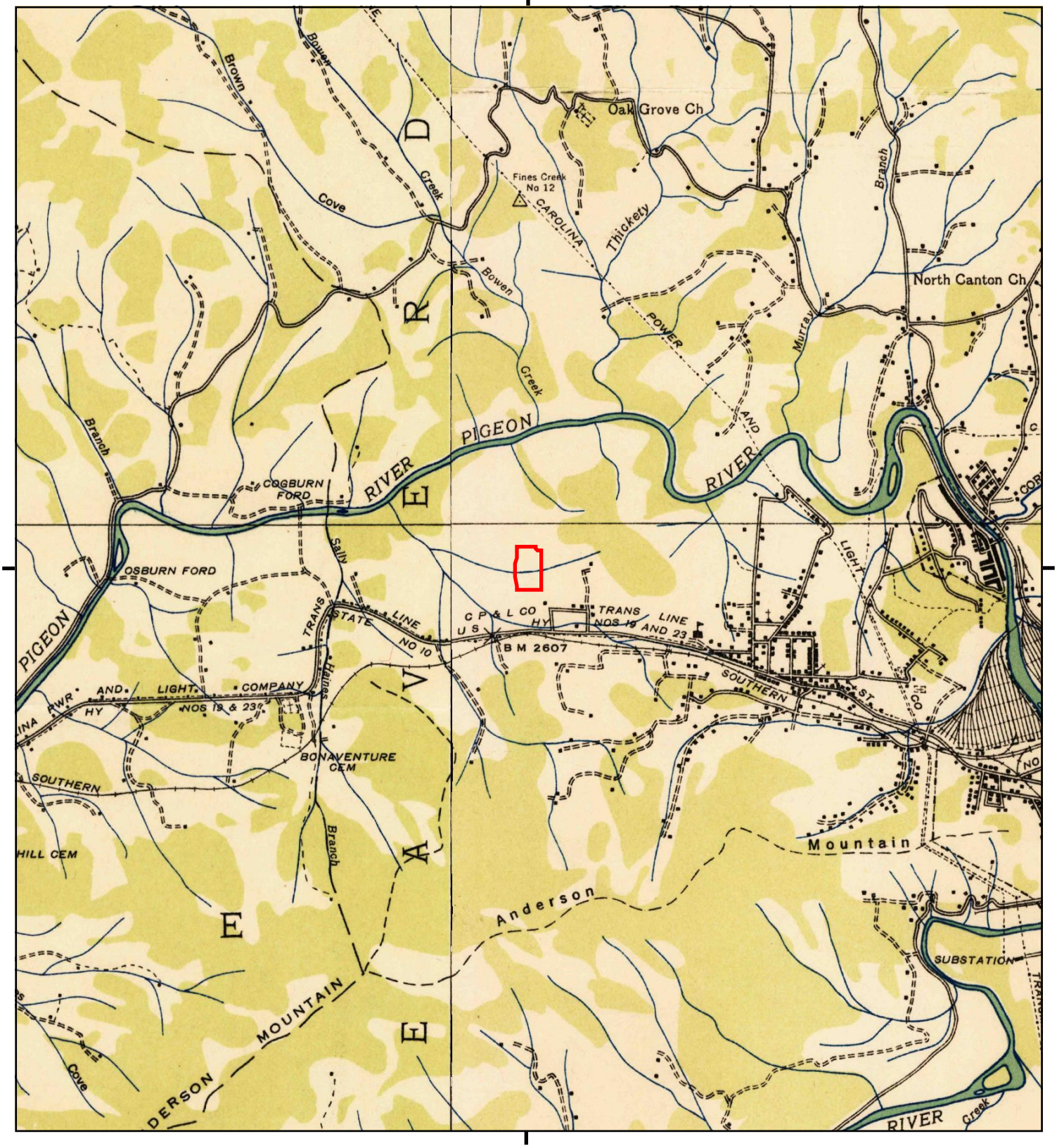
Historical Topo Map

1935



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TP, Canton, 1935, 7.5-minute
NW, Clyde, 1935, 7.5-minute

SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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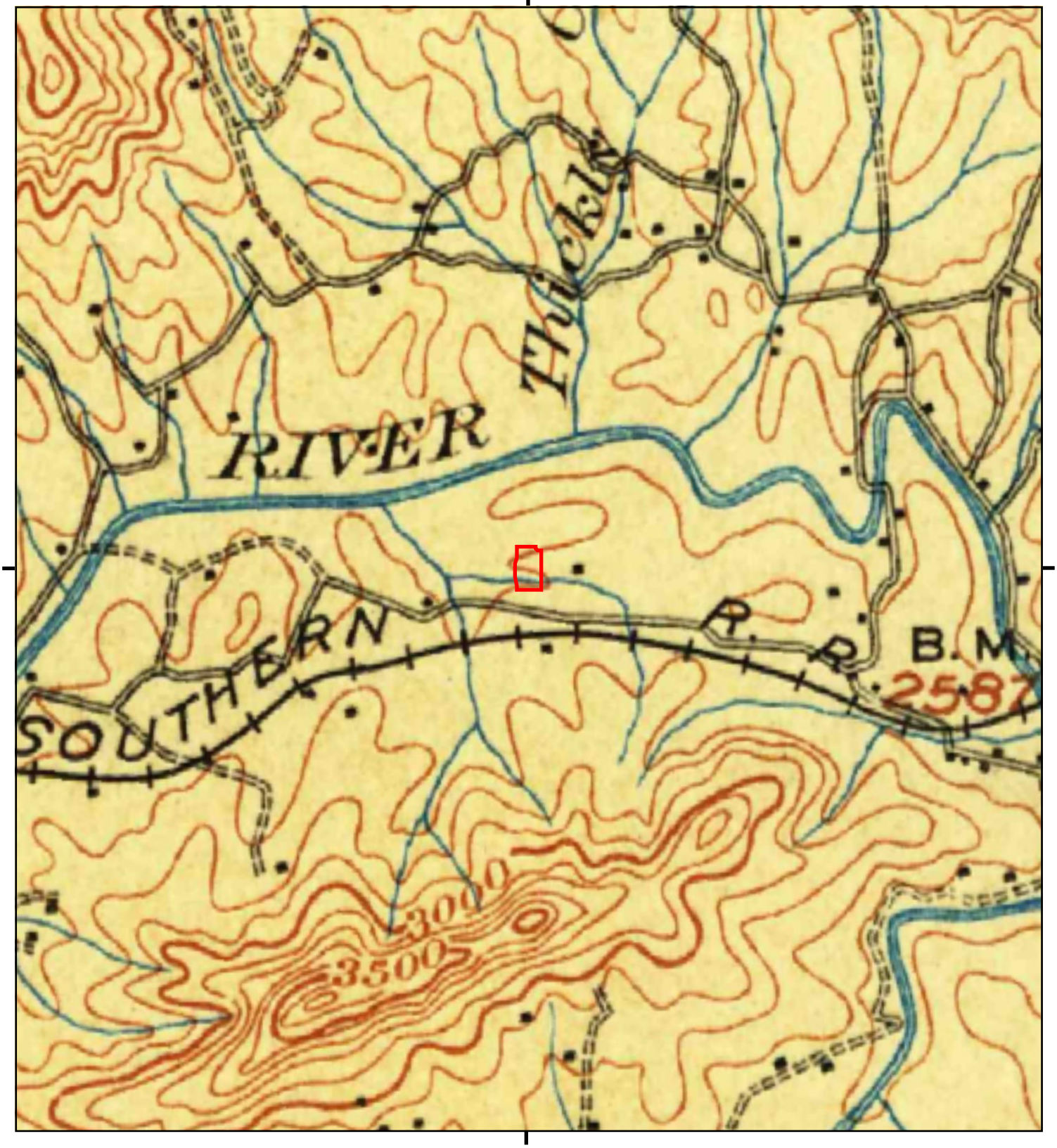
Historical Topo Map

1901



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NW N NE
W E
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TP, Asheville, 1901, 30-minute

SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

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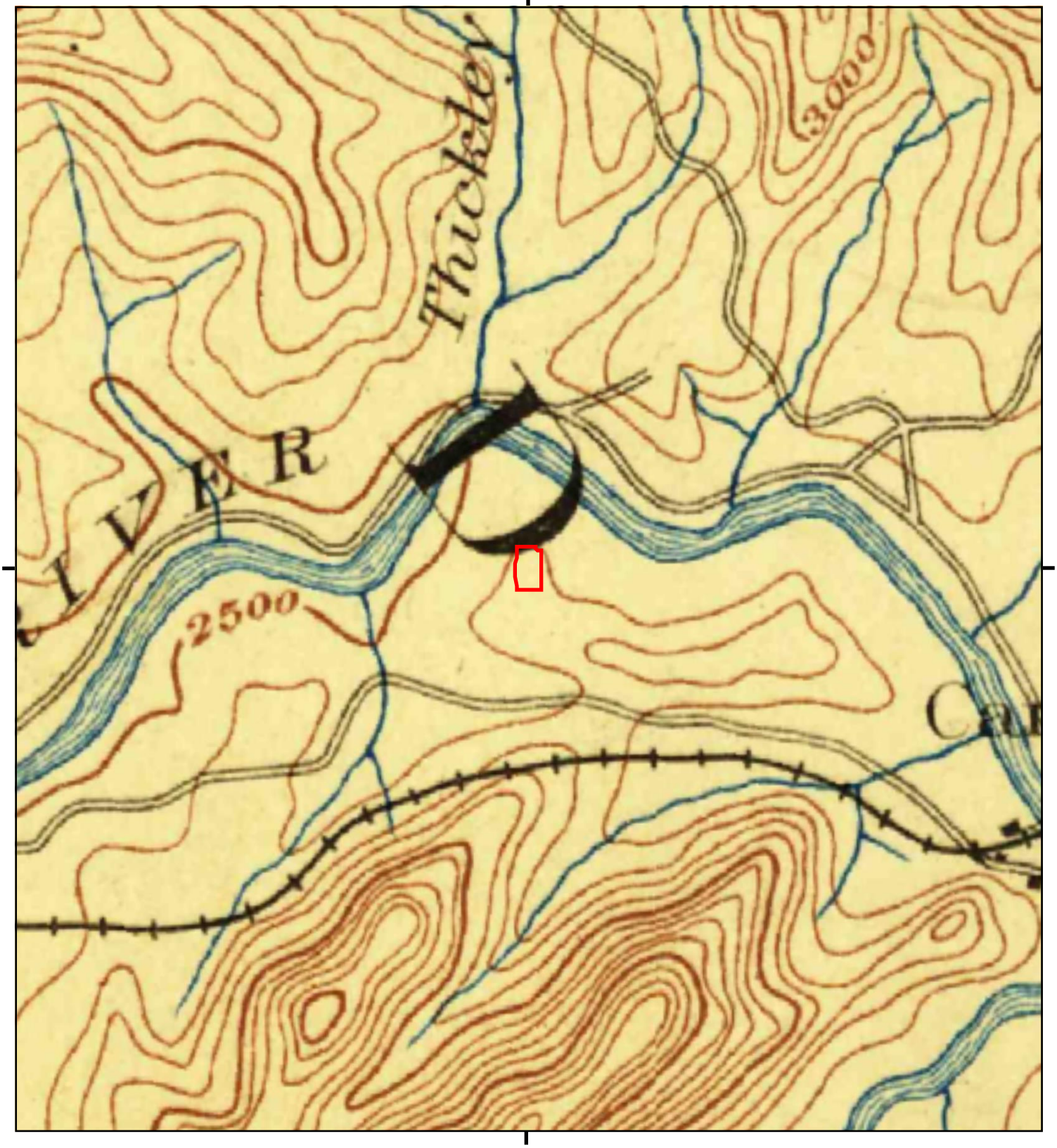
Historical Topo Map

1894



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Asheville, 1894, 30-minute

SITE NAME: Harkins Avenue
ADDRESS: Harkins Avenue, Haywood County, North Canton, NC 28716
CLIENT: Bunnell-Lammons Engineering

N

Appendix J
Resumes

DAVID R. LOFTIS, P. E.
Asheville Office Branch Manager

Years of Experience
24

Education
M.S. Civil Engineering, Virginia Polytechnic Institute and State University (1999)

B.S. Civil Engineering, Virginia Polytechnic Institute and State University (1997)

Certifications
Professional Engineer – NC, SC

40-hour HAZWOPER / 8-Hour refresher / 8-Hour Supervisor Training

Career Summary

Mr. Loftis is a Senior Engineer and the Branch Manager for BLE's Asheville, North Carolina office. Mr. Loftis offers over 20 years of experience with environmental site assessments, receptor surveys, remediation system design, site monitoring, remediation system operations and maintenance, hydrogeologic studies, finite difference groundwater modeling, stormwater monitoring, OSHA site specific health and safety plans, and stormwater pollution prevention plans.

Typical projects worked on by Mr. Loftis include the following:

- General due diligence services such as Phase I and II Environmental Site Assessments (ESA) and North Carolina Brownfields assessments and agreement negotiations
- Assessment and remediation of sites with soil and groundwater impacted by petroleum releases
- Hydrogeologic studies

Project Experience

- **Undisclosed Proposed Mine – South Carolina**
  Client Manager and Senior Engineer for a hydrogeologic study on a proposed aggregate mine in South Carolina. S&ME's scope of work includes siting, permitting, and installation of up to four groundwater extraction wells up to 500 feet below grade for the purposes of the performing pump testing. The results of the pump testing will be used to prepare a hydraulic groundwater model to evaluate the potential effects of the mine pit dewatering and operation of production water supply wells on nearby residential water supply wells and water features such as wetlands and creeks.
- **DC Mart – Charlotte, North Carolina**
  Client Manager and Project Manager for the remediation of petroleum-impacted soil and groundwater at an active gas station in Charlotte, North Carolina. There have been two documented releases of petroleum materials at the site. The initial release was remediated in 2014, while the cleanup of the second release has

been ongoing since 2015. Air sparging coupled with soil vapor extraction is being employed for the remediation effort.

- **Car Dealership & Gas Station – Fletcher, North Carolina**
  Senior Engineer for a Phase I Environment Site Assessment and assessment of soil and groundwater at an active automobile dealership and active gas station. Testing of soil and groundwater took place around underground storage tank systems, heating oil underground storage tanks, oil/water separator, former leachate field, and a former hydraulic lift.

- **Haywood Coal & Taxi – Asheville, North Carolina**
  Senior Engineer for soil, groundwater, and soil gas assessment activities at a facility that was formerly used for coal storage and sales. The site is in the North Carolina Brownfields Program and will likely be redeveloped with retail and residential space.

Professional Membership + Associations

OHSA 29 CFR 1919.120 Hazardous Waste Operations and Emergency Response Health and Safety Training (40 Hours), August 13, 1999

OSHA 29 CFR 1910.120, Site Supervisors Health and Safety Training for Hazardous Waste Sites, August 23, 1999

American Red Cross Standard First Aid & Adult CPR Course

COLBY CLARK, GIT
Staff Professional

Years of Experience
1

Education
B.S. Geology, North Carolina State University (2024)

Certifications
Geologist-in-Training

40-Hour OSHA HAZWOPER

Career Summary

Mr. Clark is a Staff Professional for the Environmental group in our Asheville office. He is responsible for performing Phase I & II Environmental Site Assessments (ESAs) and assisting with North Carolina Brownfields projects. He also performs ArcGIS Pro Mapping generating figures for various service lines.

Project Experience

- **Ecusta Mill Landfills – Brevard, NC**
  Mr. Clark performs maintenance at a multi-location landfill facility and has completed soil boring exploration at the site. He addresses issues that may arise with the existing well pumps that control the flow of water in and out of the site. Mr. Clark provides updates to the different project groups and alerts them to necessary changes that need to be made at the Site.

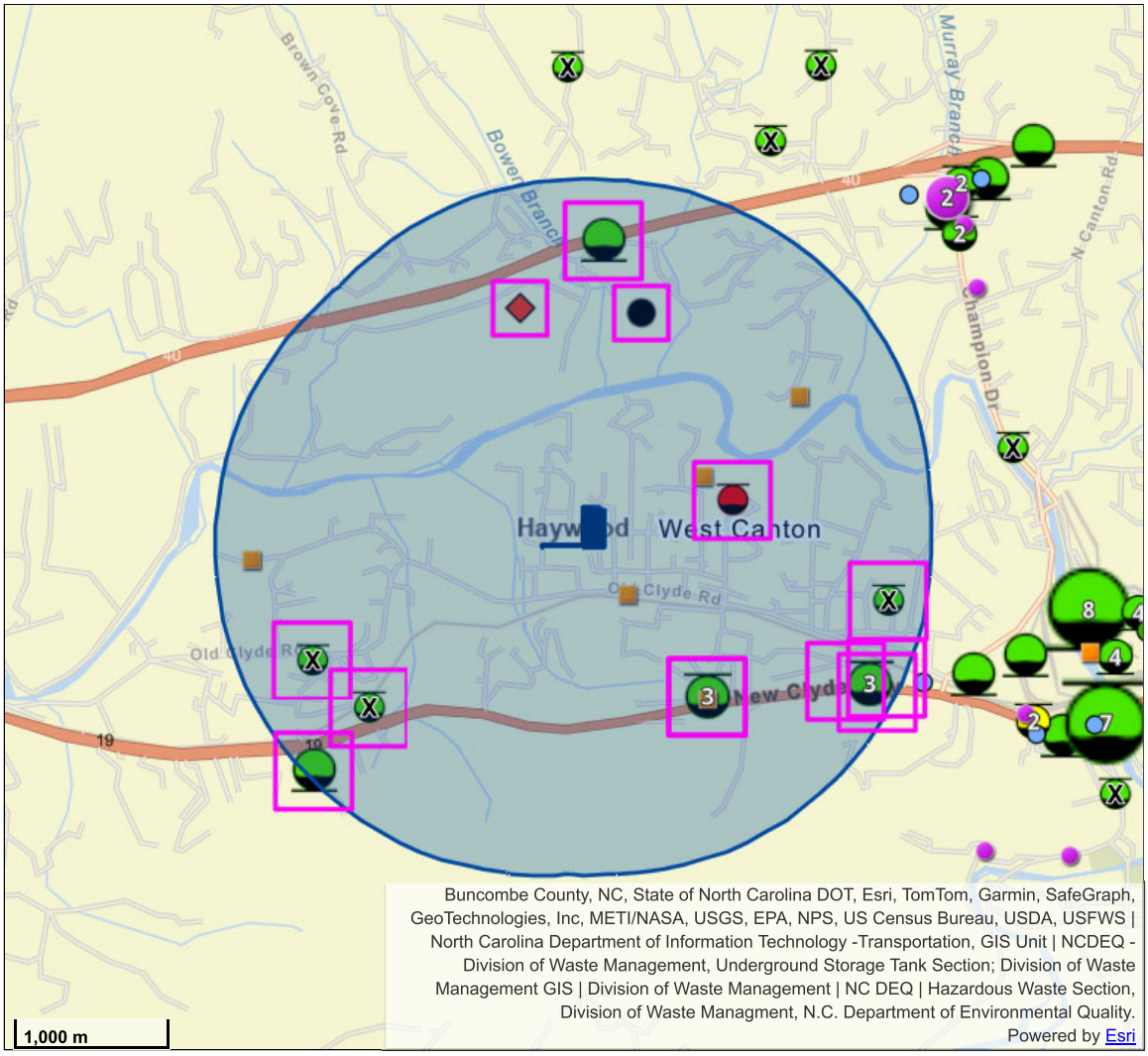
- **South French Broad – Asheville, NC**
  As a part of due diligence services for a potential property transaction, Mr. Clark performed a Phase I ESA at the Site to review the historical and current uses of the Site and surrounding properties for potential environmental concerns. Subsequently, he performed a soil vapor intrusion assessment to assess the existing structures for potential vapor intrusion issues associated with an off-Site drycleaner.

Harkins Ave - NCDEQ DWM Site Locator Tool - Near Me Report

Area of Interest (AOI) Information

Area: 3.74 mi²

Date: Mon Jul 06 2026 13:37:29 GMT-0500 (Central Daylight Time)



Harkins Avenue Subdivision Development
Harkins Avenue Subdivision Development
Harkins Avenue Subdivision Development

Polygon
default

DWM Site Layers

Brownfields Redevelopment Sites

Hazardous Waste Facilities
Large Quantity Generators
Small Quantity Generators

NCDOT County Boundaries

County Boundary

Inactive Hazardous Sites | Total count: 5 | Search Radii: 1.0 mi

#	EPAID	SITENAME	SITEADDR	CLOSEST APPROXIMATE DISTANCE	WITHIN SEARCH RADII?
1	NCD986171445	BENFIELD CHEMICALS	OLD CANTON CLYDE HWY	0.16 MI	YES
2	NCD986188001	CHAMPION INTERNATIONAL LANDFILL NO 1	SR 1571 & 1573	0.32 MI	YES
3	NONCD0002262	PANTRY 421 FORMER	P. O. BOX 1410	0.56 MI	YES
4	NCD986188027	CHAMPION LANDFILL NO 3	SR 1550 I40	0.69 MI	YES
5	NCD986188019	CHAMPION LANDFILL NO 2	SR 1539	0.89 MI	YES

Permitted Solid Waste Landfills | Total count: 1 | Search Radii: 0.5 mi

#	EPAID	SITENAME	SITEADDR	CLOSEST APPROXIMATE DISTANCE	WITHIN SEARCH RADII?
1	4406-INDUS-1984	TBD LANDFILL, LLC	1155 INCINERATOR ROAD	0.63 MI	NO

Other Permitted Solid Waste Facilities | Total count: 1 | Search Radii: 0.5 mi

#	PERMITID	FACILNAME	FACILADDRESS	CLOSEST APPROXIMATE DISTANCE	WITHIN SEARCH RADII?
1	4409TP-MWP	HAYWOOD COUNTY C&D MRF (STOCKPILED 1999)	675 INCINERATOR ROAD	0.61 MI	NO

UST Incidents | Total count: 10 | Search Radii: 0.5 mi

#	SITEID (UST INCIDENT #)	SITENAME	SITEADDR	CLOSEST APPROXIMATE DISTANCE	WITHIN SEARCH RADII?
1	28191	MEASE RESIDENCE (MILDRED)	441 CIRCLE DRIVE	0.4 MI	YES
2	28597	SINGLE STOP II	84 NEW CLYDE HIGHWAY	0.55 MI	NO
3	22470	THE PANTRY #421	84 NEW CLYDE HIGHWAY	0.55 MI	NO
4	48758	SINGLE STOP II	84 NEW CLYDE HIGHWAY	0.55 MI	NO
5	49351	MIDWAY MEDICAL CENTER	6750 CAROLINA BOULEVARD	0.72 MI	NO
6	41219	HANNAH PROPERTY (STAN)	4784 OLD CLYDE ROAD	0.78 MI	NO
7	20461	CANTON FUEL OIL COMPANY	12 NEW CLYDE RD	0.84 MI	NO
8	41444	SMITH PROPERTY (JOHN)	95 SHADY DRIVE	0.88 MI	NO
9	10134	RUAN LEASING CO. (FORMER)	HIGHWAY 19-23 WEST	0.94 MI	NO
10	10687	BELUE TRUCKING, INC.	18 NEW CLYDE HIGHWAY	0.95 MI	NO

Non-UST Incidents | Total count: 2 | Search Radii: 0.5 mi

#	INCIDENTNUMBER	INCIDENTNAME	ADDRESS	CLOSEST APPROXIMATE DISTANCE	WITHIN SEARCH RADII?
1	89163	UPS TRUCK RELEASE	I-40 MM #30	0.81 MI	NO
2	89019	STRUM PROPERTY	6983 CAROLINA BLVD	0.98 MI	NO

UST Active Facilities | Total count: 1 | Search Radii: Site or Adjoining Property

#	FACILID	FACILNAME	FACILADDRESS	CLOSEST APPROXIMATE DISTANCE	WITHIN SEARCH RADII?
1	00-0-0000013095	SINGLE STOP #2 RADIO HILL	84 NEW CLYDE HWY	0.55 MI	NO

National Environmental Public Health Tracking Network

RADON TESTS FROM STATES | ANNUAL NUMBER OF BUILDINGS TESTED | NORTH CAROLINA

Year	Annual Number of Buildings Tested	Annual Mean Pre-Mitigation Radon Measurement in Tested Buildings (pCi/L)
Haywood County, NC		
2022	15	1.4
2021	88	3.2
2020	171	3.2
2019	-	-
2018	-	-
2017	-	-
2016	-	-
2015	-	-
2014	165	3.1
2013	142	3.6
	Average	**2.9 pCi/L**

NC DEPARTMENT of COMMERCE
COMMUNITY REVITALIZATION

Josh Stein
GOVERNOR

Lee Lilley
SECRETARY

Stephanie McGarrah
DEPUTY SECRETARY

Electronic Delivery Via: Michael.Scott@deq.nc.gov

May 1, 2026

Mr. Michael Scott, Director
North Carolina Department of Environmental Quality
Division of Waste Management
217 West Jones Street
Raleigh, NC 276032

RE: Site Contamination and Hazardous Waste
Harkins Avenue Subdivision Development, Haywood County
North Carolina Department of Commerce, Division of Community Revitalization and the North Carolina Office of Recovery and Resiliency

Dear Mr. Scott,

The North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) is proposing to use Community Development Block Grant - Disaster Recovery funds for construction of the Harkins Avenue Subdivision Development. The project proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is located in West Canton, Haywood County, North Carolina (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: -82.870754, 35.540037).

In accordance with 24 CFR § 58.4, DCR has assumed the role of Responsible Entity, and responsibility for environmental review, decision-making, and any other action that would otherwise apply to HUD under National Environmental Policy Act (NEPA) and other provisions of law that further the purposes of NEPA, as specified in § 58.5. Based on the size, extent and potential for impacts to environmental resources, DCR is evaluating the project at an Environmental Assessment level of review per 24 CFR § 58.36.

All property proposed for use in HUD programs must be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of occupants or conflict with the intended utilization of the property. The subject property is located in the vicinity of facilities and sites that are subject to the rules and policies of the North Carolina Department of Environmental Quality's Waste Management Division; however, project implementation is not anticipated to create or modify these regulated facilities, including Solid Waste Facilities, Superfund Sites, Underground Storage Tanks, Brownfields or other areas with known contamination. A Phase I ESA was performed in October 2025, and found no Recognized Environmental Conditions (RECs), Controlled Recognized Environmental Conditions (CRECs), Historical Recognized Environmental Conditions (HRECs), de minimis conditions or significant data gaps. Additionally, there were no indications of on-site contamination, and the subject property is not anticipated to be adversely impacted by any known

potential off-site contamination sources. The Phase I ESA Executive Summary is attached and the full document is available upon request.

The project will be required to comply with local and state rules and regulations regarding the removal, handling and disposal of any waste or debris generated as a result of project activities; however, based on the types of activities proposed, all activities are anticipated to be consistent with the Division of Waste Management (DWM) rules and no further consultation or permitting related to DWM managed resources, would be necessary.

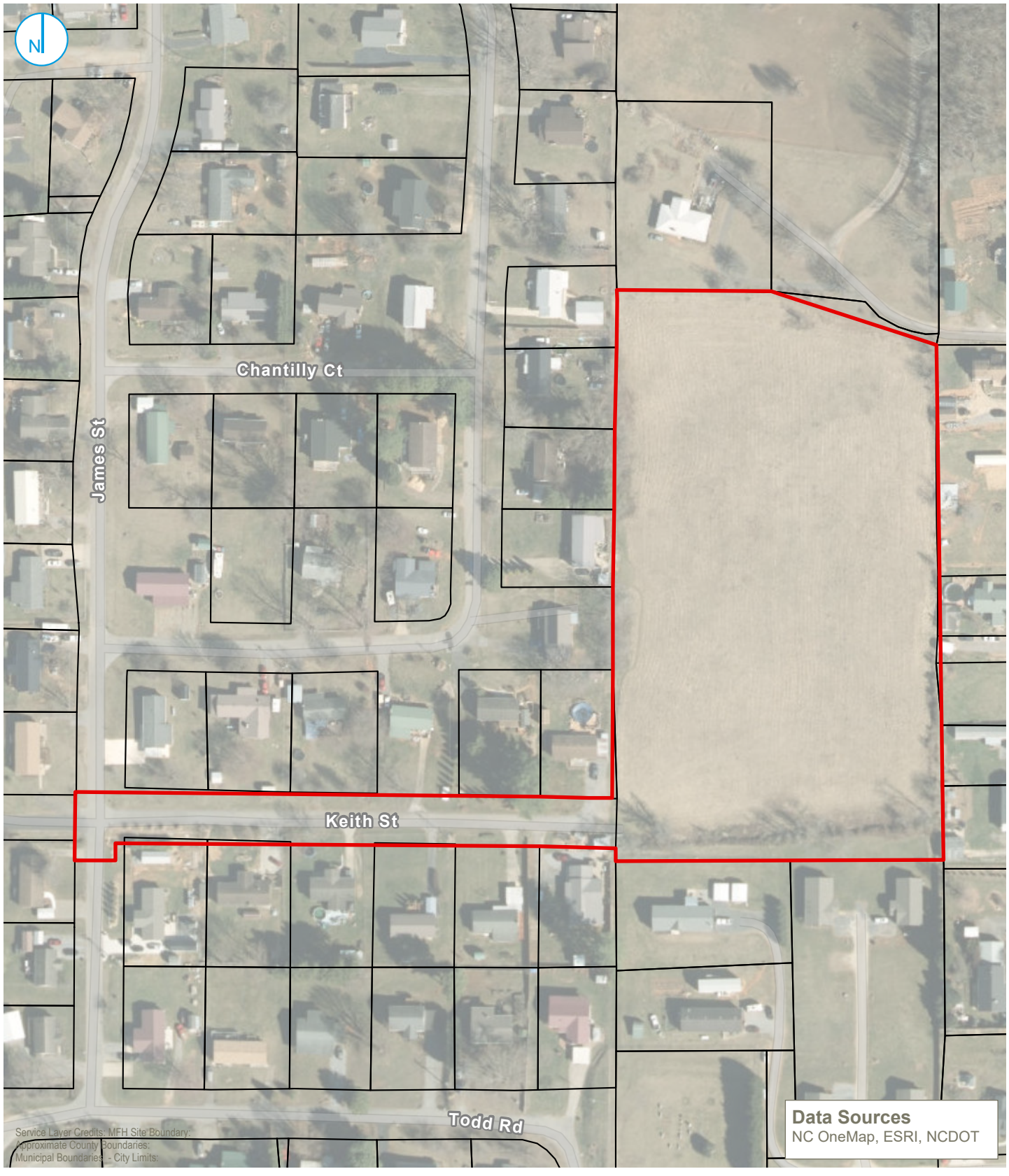
With this solicitation, the DCR is requesting comments and feedback on the proposed activities as well as any concerns you may have regarding the proposed project with respect to compliance with North Carolina's Waste Management Rules & Regulations.

To facilitate compliance with these policies and expedite the review process, we respectfully request this information and/or any concerns, comments or objections related to the proposed project be provided within 30 days from receipt of this letter. We sincerely appreciate your comments and timely response to this solicitation. Should you have any questions, please do not hesitate to email me at daniel.herrera@commerce.nc.gov.

Respectfully Yours,

Daniel Herrera
Environmental Program Manager
North Carolina Department of Commerce
Division of Community Revitalization

Enclosures:
Project Site Location Map, Site Plan, Keith St Stormwater Improvement, Phase I ESA Executive Summary



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 01 - Site Location

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Map Scale: 1:2,400 | Map Center: 82°52'19"W 35°32'23"N

KEY MAP (not to scale)

- Approximate Site Boundary
- Approximate County Boundaries
- Municipal Boundaries - City Limits
- Parcel Boundaries

0 100 200 Feet

SITE LOCATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

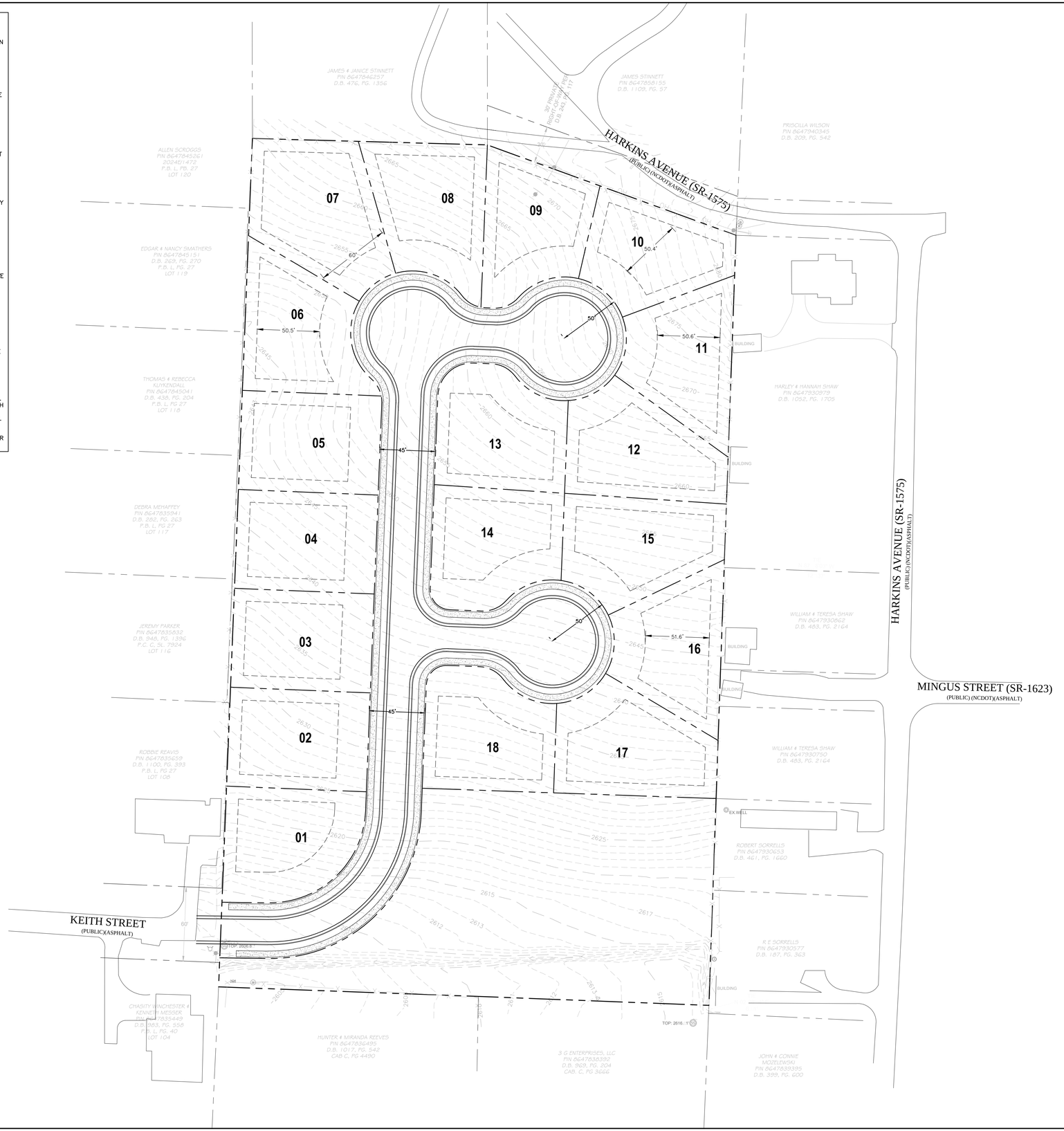
FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

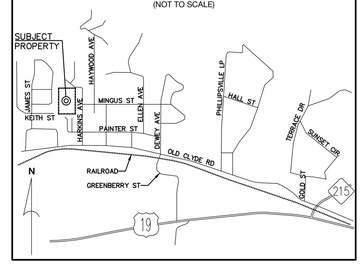
SITE NOTES

1. ALL SITEWORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS AND ALL REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
2. SINGLE-PHASE CONSTRUCTION.
3. ALL WORK MUST BE PERFORMED BY A **NORTH CAROLINA** LICENSED CONTRACTOR.
4. TO SCHEDULE THE REQUIRED INSPECTIONS ON ALL WORK, CALL THE CIVIL DESIGN CONCEPTS INSPECTIONS HOTLINE AT 828-771-4755, OR EMAIL AT INSPECTIONS@CDCGO.COM. FAILURE TO SCHEDULE INSPECTIONS MAY RESULT IN UNCOVERING OR REDOING WORK
5. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION. CONTACT ENGINEER TO CONFIRM IF ADDITIONAL PERMITS ARE NEEDED.
6. CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES (SHOWN TO REMAIN) AND NEWLY COMPLETED WORK DURING CONSTRUCTION. ANY DAMAGE INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY ULOCO AT 1-800-632-4949 OR 811, 72 HOURS BEFORE CONSTRUCTION BEGINS.
8. SIDEWALKS SHALL BE CONSTRUCTED IN ORDER TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. SIDEWALKS TO MEET ALL ADA/PROWAG STANDARDS. CONTRACTOR TO NOTIFY ENGINEER AFTER FORMING BUT PRIOR TO POURING SIDEWALK. ANY SIDEWALK/CROSSWALK NOT INSTALLED TO REQUIRED STANDARDS SHALL BE REMOVED AND REPLACED AT CONTRACTORS EXPENSE.
9. ALL RADII LISTED ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED. ALL PARKING LOT RADII ARE **4'** UNLESS OTHERWISE NOTED.
10. ALL ROAD/PARKING LOT IMPROVEMENTS, STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION AND THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). CONTRACTOR MAY USE A PAINT SUITABLE FOR ASPHALT APPLICATION IN LIEU OF THERMOPLASTIC WITH PRIOR APPROVAL FROM THE ENGINEER.
11. CURB AND GUTTER ON THE HIGH SIDE OF PAVED AREAS AND ROADS SHALL BE CONSTRUCTED WITH SPILLOUT CURB AND GUTTER. CURB AND GUTTER ON THE LOW SIDE SHALL BE CONSTRUCTED WITH STANDARD CURB AND GUTTER; REFER TO SPILLOUT CURB AND GUTTER DETAILS. CURB END TREATMENT SHALL BE APPLIED AT ALL CURB ENDS; REFER TO CURB END TREATMENT DETAIL.
12. PROPOSED ROADS TO BE **PRIVATE. NCDOT IS NOT** RESPONSIBLE FOR ANY ROAD MAINTENANCE.



VICINITY MAP

(NOT TO SCALE)



DEVELOPMENT DATA

OWNER/DEVELOPER:	MOUNTAIN PROJECTS, INC. 2177 ASHEVILLE RD WAYNESVILLE, NV 28786-3139
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 84 COXE AVE - STE 260 ASHEVILLE, NC 28801
CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

PROJECT DATA

PIN:	8647-83-7739
ADDRESS:	HARKINS AVE.
DEED BOOK/PAGE:	1043/1001
PROJECT ACREAGE:	5.97± ACRES
CURRENT ZONING:	N/A
PROPOSED ZONING:	R-1, SINGLE FAMILY

MINIMUM SETBACK FROM PROPERTY LINE:

FRONT:	25'
SIDES:	10'
REAR:	10'

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811 Know what's **below.** **Call** before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

84 COXE AVENUE - SUITE 260
ASHEVILLE, NC 28801
PHONE (828) 252-5388
FAX (828) 252-5365

52 WALNUT STREET - SUITE 9
WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036181 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXXX
XXX PERMIT NO. XXXX

SHEET

C201

HARKINS AVENUE (SR-1575)
(PUBLIC/ASPHALT)

JAMES STREET
(PUBLIC/ASPHALT)

KEITH STREET
(PUBLIC/ASPHALT)

PROPOSED STORMWATER PIPE (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

APPROXIMATE LOCATION OF
EXISTING STORM PIPE (TYP)

APPROXIMATE LOCATION OF
EXISTING STORM CULVERT (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

PROPOSED STORMWATER SYSTEM (TYP)

PROPOSED STORMWATER CONTROL MEASURE

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

CDC Civil Design Concepts, PA
NCBELS # C-2184

HARKINS AVE SUBDIVISION
CONCEPTUAL KIETH ST STORMWATER IMPROVEMENT
PROGRESS DRAWINGS DO NOT USE FOR CONSTRUCTION

NORTH

1.0 EXECUTIVE SUMMARY

As authorized by acceptance of our Proposal No. P21-16546-02 Rev1 by Mountain Projects (Mountain Projects) representatives, Bunnell-Lammons Engineering, Inc. (BLE) performed a Phase I Environmental Site Assessment (ESA) of the property identified as Haywood County Parcel Number 8647-83-7739 located at Harkins Avenue in West Canton, Haywood County, North Carolina (herein referred to as the "Site"). The purpose of the Phase I ESA was to identify Recognized Environmental Conditions (RECs) in general accordance with the American Society for Testing and Materials (ASTM) E 1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The Site location is indicated on the attached Figures 1 through 3 (**Appendix A**).

Findings & Opinions
BLE performed the Phase I ESA Site reconnaissance on September 24, 2025. BLE was provided access to the Site by Mr. Si Simmons, the Executive Director at Mountain Projects; however, BLE performed the Site reconnaissance unescorted. The following is a summary of BLE's findings and opinions of this assessment:

- The Site consists of one parcel of land identified by the Haywood County Tax Assessor as Parcel Number 8647-83-7739, totaling approximately 5.97 acres. The Site is located approximately 1.7 miles west of downtown Canton, North Carolina. The Site is generally bound by Harkins Avenue to the north and east, followed by residences along Candlelight Circuit to the west.

- At the time of the September 24, 2025 Site reconnaissance, the Site was composed of an undeveloped, vegetated field.

- Historical records indicate the Site has not been developed beyond a vegetated field or possible agricultural use. The current state of the Site is a vegetated field with varying topography throughout.

- Surrounding properties generally consist of residences.

- The surrounding area consisted primarily of agricultural and undeveloped land from at least the early 1950s through the late 1970s. Residential development began to appear and grow extensively in the 1980s. Commercial development would soon follow to the south of the Site in the mid to late 1980s.

Conclusions
We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E 1527-21 of Haywood County Parcel Number 8647-83-7739 located at Harkins Avenue in West Canton, Haywood County, North Carolina, the Site. Any exceptions to, or deletions from, this practice are described in Section 2.2 and/or Section 6.6 of this report. This assessment has revealed no REC(s) in connection with the Site.

In addition, no controlled recognized environmental conditions (CRECs), historical recognized environmental conditions (HRECs), *de minimis* conditions, or significant data gaps were identified during this assessment.

JOSH STEIN
Governor
D. REID WILSON
Secretary

NORTH CAROLINA
Environmental Quality

To: Gabrielle McKeithen
State Clearinghouse
NC Department of Administration

From: Travis Smith
Division of Environmental Assistance and Customer Service
NC Department of Environmental Quality

RE: 26 - 0220
Scoping - Proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way.
Haywood County

Date: June 9, 2026

The Department of Environmental Quality has reviewed the proposal for the referenced project. Several of our agencies have identified potential permits that may be required and provided recommendations to help minimize negative impacts on and around the project site.

I have attached the comments for the applicant's consideration.

Thank you for the opportunity to respond.

Attachments

North Carolina Department of Environmental Quality
217 West Jones Street | 1601 Mail Service Center | Raleigh, North Carolina 27699-1601
919.707.8661

JOSH STEIN
Governor
D. REID WILSON
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

Date: June 1, 2026

To: Michael Scott, Director
Division of Waste Management

Through: Janet Macdonald
Inactive Hazardous Sites Branch

From: Katie C Tatum
Inactive Hazardous Sites Branch

Subject: NEPA Project # 26-0220 NC Department of Commerce, Haywood County, North Carolina

The Superfund Section has reviewed the proximity of sites under its jurisdiction to the NC Department of Commerce project. The proposed project is for the construction of approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way.

Five (5) Superfund Section sites and no (0) Brownfields Program Sites were identified within one mile of the project as shown on the attached report. The Superfund Section recommends that site files be reviewed to ensure that appropriate precautions are incorporated into any construction activities that encounter potentially contaminated soil or groundwater. Superfund Section files can be viewed at: http://deq.nc.gov/waste-management-laserfiche.

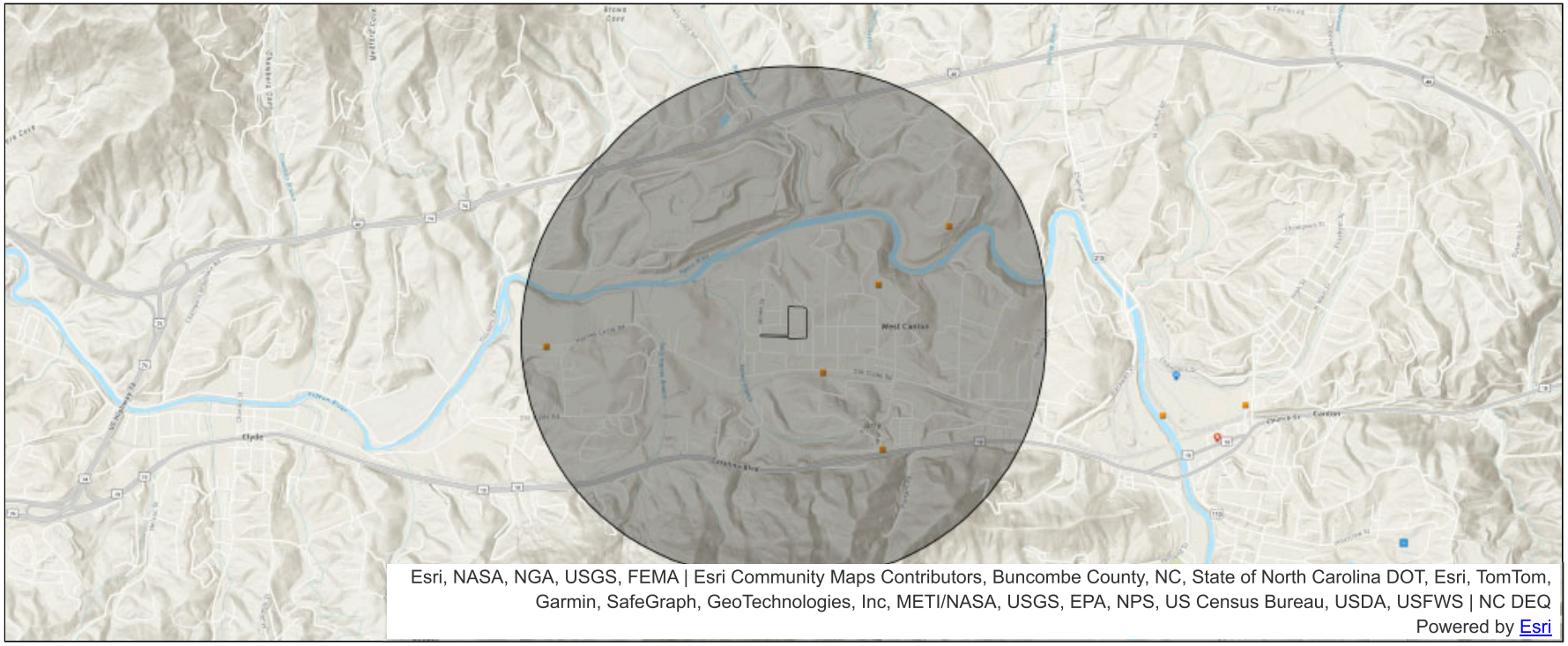
Please contact Janet Macdonald at 919.707.8349 if you have any questions concerning the Superfund Section review portion of this SEPA/NEPA inquiry.

Superfund and Brownfields Sites SEPA/NEPA Report

Area of Interest (AOI) Information **Haywood County** **NEPA Project 26-0220**

Area: 3.72 mi²

Date: Mon May 11 2026 13:26:44 GMT-0400 (Eastern Daylight Time)



NC Brownfields Location_View

- Recorded
- RFR PC Complete
- Complete
- Active Eligible
- Inactive Eligible
- Pending
- No Further Interest
- Ineligible

Pre-Regulatory Landfill Sites

- Activity Pending
- Investigation
- No Further Action
- Remediation

Federal Remediation Branch

DryCleaning Remediation Program

- Contaminated
- Not A Site
- Investigation

Inactive Hazardous Sites

Inactive Hazardous Sites | Total count: 5

#	EPAID	SITENAME	Update Date
1	NCD986171445	BENFIELD CHEMICALS	3/30/26
2	NCD986188001	CHAMPION INTERNATIONAL LANDFILL NO 1	3/30/26
3	NONCD0002262	PANTRY 421 FORMER	3/30/26
4	NCD986188027	CHAMPION LANDFILL NO 3	3/30/26
5	NCD986188019	CHAMPION LANDFILL NO 2	3/30/26

State of North Carolina Department of Environmental Quality
INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: Asheville
Project Number: 26-0220 Due Date: 06/05/2026
County: Haywood

After review of this project, it has been determined that the DEQ permit(s) and/or approvals indicated may need to be obtained in order for this project to comply with North Carolina Law. Questions regarding these permits should be addressed to the Regional Office indicated on the reverse of the form. All applications, information and guidelines relative to these plans and permits are available from the same Regional Office.

	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Process Time (statutory time limit)
☐	Permit to construct & operate wastewater treatment facilities, non-standard sewer system extensions & sewer systems that do not discharge into state surface waters.	Application 90 days before begins construction or award of construction contracts. On-site inspection may be required. Post-application technical conference usual.	30 days (90 days)
☐	Permit to construct & operate, sewer extensions involving gravity sewers, pump stations and force mains discharging into a sewer collection system	Fast-Track Permitting program consists of the submittal of an application and an engineer's certification that the project meets all applicable State rules and Division Minimum Design Criteria.	30 days (N/A)
☐	NPDES - permit to discharge into surface water and/or permit to operate and construct wastewater facilities discharging into state surface waters.	Application 180 days before begins activity. On-site inspection. Pre-application conference usual. Additionally, obtain permit to construct wastewater treatment facility-granted after NPDES. Reply time, 30 days after receipt of plans or issue of NPDES permit-whichever is later.	90-120 days (N/A)
☐	Water Use Permit	Pre-application technical conference usually necessary.	30 days (N/A)
☐	Well Construction Permit	Complete application must be received and permit issued prior to the installation of a groundwater monitoring well located on property not owned by the applicant, and for a large capacity (>100,000 gallons per day) water supply well.	7 days (15 days)
☐	Dredge and Fill Permit	Application copy must be served on each adjacent riparian property owner. On-site inspection. Pre-application conference usual. Filling may require Easement to Fill from N.C. Department of Administration and Federal Dredge and Fill Permit.	55 days (90 days)
☐	Permit to construct & operate Air Pollution Abatement facilities and/or Emission Sources as per 15 A NCAC (2Q.O100 thru 2Q.0300)	Application must be submitted and permit received prior to construction and operation of the source. If a permit is required in an area without local zoning, then there are additional requirements and timelines (2Q.0113).	90 days
☒	Any open burning associated with subject proposal must be in compliance with 15 A NCAC 2D.1900	N/A	60 days (90 days)
☐	Demolition or renovations of structures containing asbestos material must be in compliance with 15 A NCAC 20.1110 (a) (1) which requires notification and removal prior to demolition. Contact Asbestos Control Group 919-707-5950	Please Note - The Health Hazards Control Unit (HHCU) of the N.C. Department of Health and Human Services, must be notified of plans to demolish a building, including residences for commercial or industrial expansion, even if no asbestos is present in the building.	60 days (90 days)
☒	The Sedimentation Pollution Control Act of 1973 must be properly addressed for any land disturbing activity. An erosion & sedimentation control plan will be required if one or more acres are to be disturbed. Plan must be filed with and approved by applicable Regional Office (Land Quality Section) at least 30 days before beginning activity. A NPDES Construction Stormwater permit (NCG010000) is also usually issued should design features meet minimum requirements. A fee of $119 for the first acre or any part of an acre. An express review option is available with additional fees.		20 days (30 days)
☐	Sedimentation and erosion control must be addressed in accordance with NCDOT's approved program. Particular attention should be given to design and installation of appropriate perimeter sediment trapping devices as well as stable Stormwater conveyances and outlets.		(30 days)
☒	Sedimentation and erosion control must be addressed in accordance with Haywood County's Local Government's approved program. Particular attention should be given to design and installation of appropriate perimeter sediment trapping devices as well as stable Stormwater conveyances and outlets.		Based on Local Program
☒	Compliance with 15A NCAC 2H .0126 - NPDES Stormwater Program which regulates three types of activities: Industrial, Municipal Separate Storm Sewer System & Construction activities that disturb ≥1 acre.		30-60 days (90 days)
☒	Compliance with 15A NCAC 2H 1000 -State Stormwater Permitting Programs regulate site development and post-construction stormwater runoff control. Areas subject to these permit programs include all 20 coastal counties, and various other counties and watersheds throughout the state.		45 days (90 days)

State of North Carolina Department of Environmental Quality
INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: Asheville
Project Number: 26-0220 Due Date: 06/05/2026
County: Haywood

	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Process Time (statutory time limit)
☐	Mining Permit	On-site inspection usual. Surety bond filed with DEQ Bond amount varies with type mine and number of acres of affected land. Affected area greater than one acre must be permitted. The appropriate bond must be received before the permit can be issued.	30 days (60 days)
☐	Dam Safety Permit	If permit required, application 60 days before begin construction. Applicant must hire N.C. qualified engineer to: prepare plans, inspect construction, and certify construction is according to DEQ approved plans. May also require a permit under mosquito control program. And a 404 permit from Corps of Engineers. An inspection of site is necessary to verify Hazard Classification. A minimum fee of $200.00 must accompany the application. An additional processing fee based on a percentage or the total project cost will be required upon completion.	30 days (60 days)
☐	Oil Refining Facilities	N/A	90-120 days (N/A)
☐	Permit to drill exploratory oil or gas well	File surety bond of $5,000 with DEQ running to State of NC conditional that any well opened by drill operator shall, upon abandonment, be plugged according to DEQ rules and regulations.	10 days N/A
☐	Geophysical Exploration Permit	Application filed with DEQ at least 10 days prior to issue of permit. Application by letter. No standard application form.	10 days N/A
☐	State Lakes Construction Permit	Application fee based on structure size is charged. Must include descriptions & drawings of structure & proof of ownership of riparian property	15-20 days N/A
☐	401 Water Quality Certification	Compliance with the T15A 02H .0500 Certifications are required whenever construction or operation of facilities will result in a discharge into navigable water as described in 33 CFR part 323.	60 days (130 days)
☐	Compliance with Catawba, Goose Creek, Jordan Lake, Randleman, Tar Pamlico or Neuse Riparian Buffer Rules is required. Buffer requirements: http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/401-wetlands-buffer-permits/401-riparian-buffer-protection-program		
☐	Nutrient Offset: Loading requirements for nitrogen and phosphorus in the Neuse and Tar-Pamlico River basins, and in the Jordan and Falls Lake watersheds, as part of the nutrient-management strategies in these areas. DWR nutrient offset information: http://deq.nc.gov/about/divisions/water-resources/planning/nonpoint-source-management/nutrient-offset-information		
☐	CAMA Permit for MAJOR development	$250.00 - $475.00 fee must accompany application	75 days (150 days)
☐	CAMA Permit for MINOR development	$100.00 fee must accompany application	22 days (25 days)
☐	Abandonment of any wells, if required must be in accordance with Title 15A. Subchapter 2C.0100.		
☐	Notification of the proper regional office is requested if "orphan" underground storage tanks (USTS) are discovered during any excavation operation.		
☒	Plans and specifications for the construction, expansion, or alteration of a public water system must be approved by the Division of Water Resources/Public Water Supply Section prior to the award of a contract or the initiation of construction as per 15A NCAC 18C .0300 et. seq., Plans and specifications should be submitted to 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. All public water supply systems must comply with state and federal drinking water monitoring requirements. For more information, contact the Public Water Supply Section, (919) 707-9100.		30 days
☒	If existing water lines will be relocated during the construction, plans for the water line relocation must be submitted to the Division of Water Resources/Public Water Supply Section at 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. For more information, contact the Public Water Supply Section, (919) 707-9100.		30 days
☐	Plans and specifications for the construction, expansion, or alteration of the _____ water system must be approved through the _____ delegated plan approval authority. Please contact them at _____ for further information.		

Reviewing Regional Office: Asheville
Project Number: 26-0220 Due Date: 06/05/2026
County: Haywood

Other Comments (attach additional pages as necessary, being certain to comment authority)

Division	Initials	No comment	Comments	Date Review
DAQ	PVB	☐	Any open burning as part of this project must be conducted in compliance with NC open burning regulations	5/27/26
DWR-WQROS (Aquifer & Surface)	AWM &	☐	Any impacts to jurisdictional streams or wetlands may require a permit from the US Army Corps of Engineers and corresponding Water Quality Certification from the Division of Water Resources. Regardless of permitting requirements, all activities must be conducted in compliance with North Carolina Surface Water and Wetland Standards found in 15A NCAC 02B .0200 and .0231, including adherence to turbidity standards. Appropriate best management practices should be employed when working around streams and wetlands to ensure compliance with the standards. Depending on the wastewater disposal method, a sewer extension permit, or other waste disposal permit may be required from the Division of Water Resources &	5/27/26 / /
DWR-PWS	MEG	☐	Please see above checked requirements for the submission of plans and specifications.	5/26/26
DEMLR (LQ & SW)	MMS	☐	The Sedimentation Pollution Control Act of 1973 must be properly addressed for any land disturbing activity. An erosion & sedimentation control plan will be required if one or more acres are to be disturbed. Plan must be filed with and approved by applicable Regional Office (Land Quality Section) at least 30 days before beginning activity. A NPDES Construction Stormwater permit (NCG010000) is also usually required should design features meet minimum requirements. 5 Compliance with 15A NCAC 2H .0126 - NPDES Stormwater Program may be required. This program regulates three types of activities: Industrial, Municipal Separate Storm Sewer System (MS4), and Construction activities that disturb greater than or equal to 1.0 acre or are part of a plan of common development. Please note that the NCG01Construction Stormwater Permitting would be acquired after approval of the Erosion and Sediment Control Plan. Industrial Stormwater typically consists of post construction facilities and could also be applied for after initiating storm remediation. You would need to contact the applicable municipality to determine the requirements and timing of their MS4 Permit. Compliance with 15A NCAC 2H 1000 -State Stormwater Permitting Programs which regulate site development and post-construction stormwater runoff control may be required.	5/26/26
DWM – UST	NMG	☐	No petroleum release or facility was identified on or adjacent to the proposed project area, per UST and non-UST database search. Notification should be sent to the DEQ (UST Section) if orphan USTs are discovered during any excavation operation.	/ /
Other Comments		☐		/ /

REGIONAL OFFICES

Questions regarding these permits should be addressed to the Regional Office marked below.

☒ **Asheville Regional Office**
2090 U.S. 70 Highway
Swannanoa, NC 28778-8211
Phone: 828-296-4500
Fax: 828-299-7043

☐ **Fayetteville Regional Office**
225 Green Street, Suite 714,
Fayetteville, NC 28301-5043
Phone: 910-433-3300
Fax: 910-486-0707

☐ **Mooresville Regional Office**
610 East Center Avenue, Suite 301,
Mooresville, NC 28115
Phone: 704-663-1699
Fax: 704-663-6040

☐ **Raleigh Regional Office**
3800 Barrett Drive,
Raleigh, NC 27609
Phone: 919-791-4200
Fax: 919-571-4718

☐ **Washington Regional Office**
943 Washington Square Mall,
Washington, NC 27889
Phone: 252-946-6481
Fax: 252-975-3716

☐ **Wilmington Regional Office**
127 Cardinal Drive Ext.,
Wilmington, NC 28405
Phone: 910-796-7215
Fax: 910-350-2004

☐ **Winston-Salem Regional Office**
450 Hanes Mill Road, Suite 300,
Winston-Salem, NC 27105
Phone: 336-776-9800
Fax: 336-776-9797

JOSH STEIN
Governor
D. REID WILSON
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

DATE: May 20, 2026

TO: Michael Scott, Division Director through Sharon Brinkley

FROM: Charles Gerstell, Solid Waste Section Field Operations Branch

RE: NEPA Project 26-0220, Haywood County, NC
NC Department of Commerce – Harkins Avenue Subdivision Development

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The Solid Waste Section has reviewed the scoping request in reference to the proposed construction of approximately 18 detached single-family homes located off Harkins Avenue in Canton, North Carolina, Haywood County to include all necessary site work, utilities, and infrastructure necessary to support the development of the property. The project will include installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. Please note that the TBD Landfill, LLC Industrial Landfill (4406-INDUS-1984) is located within one mile of the proposed project. Additional information about this facility can be found here: 4406-INDUS-1984. Otherwise, the review has been completed and has found no adverse impact on the surrounding community and likewise knows of no situations in the community, which would affect this project from a non-hazardous solid waste perspective.

During the project, every feasible effort should be made to minimize the generation of waste, to recycle materials for which viable markets exist, and to use recycled products and materials in the development of this project where suitable. Any waste generated by this project that cannot be beneficially reused or recycled must be disposed of at a solid waste management facility approved to manage the respective waste type. The Section strongly recommends that any contractors are required to provide proof of proper disposal for all waste generated as part of the project. A list of permitted solid waste management facilities is available on the Solid Waste Section portal site at: Solid Waste Facility List.

Please contact Lee Hill, Environmental Senior Specialist, for any questions regarding solid waste management for this project. Mr. Hill can be reached at (828) 296-4700 or by e-mail at lee.hill@deq.nc.gov.

Ec: Lee Hill, Environmental Senior Specialist

JOSH STEIN
Governor
D. REID WILSON
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

TO: Environmental Coordinators

FROM: Nick Guarneri, Hydrogeologist, UST Section

DATE: May 11, 2026

RE: Environmental Review - Project Number 26-0220 – Haywood County – Harkins Avenue Subdivision Development – Proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site workKeith Dr, Canton, MS, 39046, USA, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new storm water conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: 35.540037, -82.870754).

I searched the Petroleum Underground Storage Tank (UST) and Non-UST Databases and did not identify any petroleum incidents on or adjacent to the proposed project area.

The following comments are pertinent to my review:

The Asheville Regional Office (ARO) UST Section recommends removal of any abandoned or out-of-use petroleum USTs or petroleum ASTs within the project area. The UST Section should be contacted regarding use of any proposed or on-site petroleum USTs or ASTs. We may be reached at (828) 296-4500.

Any petroleum USTs or ASTs must be installed and maintained in accordance with applicable local, state, and federal regulations. For additional information on petroleum ASTs it is advisable that the North Carolina Department of Insurance at (919) 661-5880 ext. 239, USEPA (404) 562-8761, local fire department, and Local Building Inspectors be contacted.

Any petroleum spills must be contained, and the area of impact must be properly restored. Petroleum spills of significant quantity must be reported to the North Carolina Department of Environmental Quality (NCDEQ) – Division of Waste Management (DWM) UST Section in the ARO.

Any soils excavated during demolition or construction that show evidence of petroleum contamination, such as stained soil, odors, or free product must be reported immediately to the local Fire Marshall to determine whether explosive or inhalation hazards exist. Also, notify the UST Section of the ARO. Petroleum contaminated soils must be handled in accordance with all applicable regulations.

Any questions or concerns regarding spills from petroleum USTs, ASTs, or vehicles should be directed to the UST Section at (828) 296-4500. If you have any questions or need additional information, please contact me via email at nick.guarneri@deq.nc.gov or by phone at (828) 296-4645.

Department of Environmental Quality
Project Review

Project Number: 26-0220 **County: Haywood** **Date Received: 5-11-2026**

Due Date: 6-5-2026

Project Description: *Scoping - Proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new storm water conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: -82.870754,35.540037).*

This Project is being reviewed as indicated below:

Regional Office	Regional Office Area	In-House Review	
☑ Asheville	☑ Air	☐ Air Quality	☐ Coastal Management
☐ Fayetteville	☑ DWR	☑ Waste Mgmt (HW, SF, SW)	☐ Marine Fisheries
☐ Mooresville	☑ DWR - Public Water	☑ Water Resources Mgmt (Public Water, Planning & Water Quality Program)	☐ CC & PS Div. of Emergency Mgmt
☐ Raleigh	☑ DEMLR (LQ & SW)	☐ DWR-Transportation Unit Amy	☐ DMF-Shellfish Sanitation
☐ Washington	☑ DWM - UST		☑ Wildlife - David Cox
☐ Wilmington			☐ Wildlife/DOT David
☐ Winston Salem			

Manager Sign-Off/Region:	Date:	In-House Reviewer/Agency:
	5/21/2026	DWR/WRM David Wainwright

Response (check all applicable)

____ No objection to project as proposed. __X__ No Comment

____ Insufficient information to complete review ____ Other (specify or attach comments)

Department of Environmental Quality
Project Review

Project Number: 26-0220 **County: Haywood** **Date Received: 5-11-2026**

Due Date: 6-5-2026

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☐ Washington	☑ DWM - UST		☑ Wildlife - David Cox
☐ Wilmington			☐ Wildlife/DOT David
☐ Winston Salem			

Manager Sign-Off/Region:	Date:	In-House Reviewer/Agency:
	6-1-26	Melodi Deaver, Hazardous Waste Section

Response (check all applicable)

____ No objection to project as proposed.

X
____ No Comment

____ Insufficient information to complete review

____ Other (specify or attach comments)

JOSH STEIN
Governor
D. REID WILSON
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

December 16, 2025

Sent via email: eric.spirtas@spirtasworldwide.com

Mr. Eric J. Spirtas, President
TBD Landfill, LLC
175 Main Street
Canton, North Carolina 28716

SUBJECT: Resolution of Notice of Violation
TBD Landfill, LLC - Landfill No. 6
4406-INDUS-1984
Haywood County

Dear Mr. Spirtas:

On December 10, 2025, Lee Hill and I, representing the State of North Carolina, Division of Waste Management Solid Waste Section (Section) conducted a compliance inspection of the above reference facility. At the time of the inspection, Section staff observed that there were no discharges from mulch storage areas to stormwater conveyances, and the facility was operating in accordance with the approved Mulch Management Plan.

This letter serves to confirm that the requirements of the Notice of Violation dated August 27, 2025, have been satisfied and the violation has been corrected. Thank you for your cooperation in this matter. If you have any questions or require assistance in the future, please feel free to contact me at (828) 296-4702 or deborah.aja@deq.nc.gov or Lee Hill at (828) 296-4700 or lee.hill@deq.nc.gov.

Sincerely,

Deb Aja
Western District Supervisor
Division of Waste Management - Solid Waste Section

EC: Andrew Hammonds, Field Operations Branch Head
Anna Mullen, Compliance Officer
Lee Hill, Environmental Sr. Specialist
Andrew Moore, Regional Supervisor – Division of Water Resources

FACILITY COMPLIANCE INSPECTION REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:												
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS		COUNTY: HAYWOOD
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM		PERMIT NO.: 4406-INDUS-1984
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill	X	DEMO		TDSR	X	FILE TYPE: COMPLIANCE

Date of Site Inspection: 12/10/2025 **Date of Last Inspection: 07/29/2025**

FACILITY NAME AND ADDRESS:
Landfill No. 6
1155 Incinerator Rd
Canton, NC 28716

GPS COORDINATES (decimal degrees): Lat.: 35.548508° Long.: -82.876149°

FACILITY CONTACT NAME AND PHONE NUMBER:
Luke Williams
828-424-1889
luke.williams@twobanksdevelopment.com

FACILITY CONTACT ADDRESS:
175 Main Street
Canton, North Carolina 28716

PARTICIPANTS:
Luke Williams, TBD Landfill, LLC
Michael Ferguson, TBD Landfill, LLC
Deb Aja, NCDEQ – Solid Waste Section
Lee Hill, NCDEQ – Solid Waste Section

STATUS OF PERMIT:
Life of Site permit issued October 26, 2018
Permit to Operate Expires March 28, 2044
Acknowledgement – Landfill Facility Ownership Change letter issued on January 31, 2025

PURPOSE OF SITE VISIT:
Partial Inspection

STATUS OF PAST NOTED VIOLATIONS:

A. 15A NCAC 13B .0503(b)(3)(A): Liquids generated from fire suppression activities are being recirculated to prevent reignition of the mulch stockpiles, and any excess liquid is directed to the leachate collection system. No liquids are being discharged to stormwater conveyances. The facility is operating in accordance with the approved Mulch Management Plan submitted to the Section for review. **Therefore, the violation is resolved.**

OBSERVED VIOLATIONS:
None

The item(s) listed above were observed by Section staff and require action on behalf of the facility in order to come into or maintain compliance with the Statutes, Rules, and/or other regulatory requirements applicable to this facility. Be advised that pursuant to N.C.G.S. 130A-22, an administrative penalty of up to $15,000 per day may be assessed for each violation of the Solid Waste Laws, Regulations, Conditions of a Permit, or Order under Article 9 of Chapter 130A of the N.C. General Statutes. Further, the facility and/or all responsible parties may also be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

ADDITIONAL COMMENTS

1. All photographs were taken by Lee Hill on December 10, 2025 unless otherwise noted.
2. The inspection focused on the management of mulch and liquids generated from fire suppression activities. The construction and demolition disposal area was not inspected during this inspection but will be inspected during a future inspection.
3. Per facility staff, the facility is not currently accepting additional mulch.
4. The facility has installed collection devices at the mulch stockpiles to capture any additional fire suppression liquids. These liquids are piped to the leachate collection system, preventing any excess from entering stormwater conveyance ditches.
5. Facility staff stated that the facility is moving approximately 8,000 cubic yards of mulch per day from all three stockpiles. Approximately 25% of Area C-Lower, 60% of Area B-Upper, and 60% of Area C-Upper have been relocated to Area E for disposal.
6. Mulch is being moved from all three stockpiles into Area E of the active landfill for disposal in accordance with the Mulch Management Plan. The facility is layering Area E with 10 feet of mulch, followed by a 2 foot "fire break layer" consisting of soil or mill waste mined from Area D. Material is being placed into Area E in a way to ensure positive drainage across the cell.
7. An air curtain incinerator was observed on site during the inspection. Facility staff stated that their intention is to use the incinerator to burn land clearing debris brought to the site. **Contact Solid Waste Permitting prior to operating the incinerator on site. Additional contact with other DEQ divisions may also be required before using an air curtain incinerator.**

Please contact me if you have any questions or concerns regarding this inspection report.

Lee Hill
Environmental Senior Specialist
Regional Representative

Phone: 828-296-4700

Sent on: December 16, 2025	X	Email		Hand delivery		US Mail		Certified No. [__]

Copies: Andrew Hammonds, Field Operations Branch Head
Deb Aja, Western District Supervisor – Solid Waste Section

Landfilling of Mulch in Area E (Photograph taken by Deb Aja on December 10, 2025)

Stormwater Conveyance Ditch Leading to Outfall 15

October 28, 2025

Elizabeth Werner
Hydrogeologist
Division of Waste Management, Solid Waste Section
North Carolina Department of Environmental Quality
217 West Jones Street
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Subject: **Leachate Release Incident Final Report**
Two Banks Development, Canton, North Carolina
Landfill No. 6 (Facility Permit #4406 INDUS-1984)
Alliance Technical Group Project Number: 2004-159A

Dear Ms. Werner:

This letter serves as the final report regarding an incidental release of leachate that took place at the Two Banks Development Landfill No. 6 (Facility Permit #4406 INDUS-1984) on Friday, September 12, 2025. The leachate release was reported to North Carolina Department of Environmental Quality (NCDEQ) Division of Solid Waste Management (DSWM) representative Deb Aja on the same day, which satisfied the 24-hour reporting requirement. This report documents soil sampling and laboratory results from the samples collected September 22, 2025, pursuant to the *Leachate Release Incident Description and Sampling Plan* submitted to NCDEQ on September 18, 2025, and approved by William Sugg (DSWM) on September 19, 2025.

Summary of the Incidental Release

(Provided by Tracy Willis of Two Banks Development): *On Friday, September 12, 2025 at 12:00 PM, a pipe failure occurred in the E Cell Pump House releasing an estimated 500 gallons of wastewater leachate to the ground. The incident was discovered when site operators noticed the wastewater running onto the liner and back into the lined cell and then notified the supervisor who discovered the broken pipe. The Wastewater leachate also lapped out of a 4-inch doorway threshold curb and onto the ground onto an area approximately 6-feet wide. The wastewater leachate ran across the road bond onto the ground. Minor road bond saturation occurred and there was no evidence that the wastewater leachate traveled far into the grass on the other side of the road. The pump was turned off immediately upon discovery and the wastewater stopped flowing shortly thereafter. The root cause of the release appears to be a CPVC pipe joint failure. Repairs to the broken pipe were completed on September 15, 2025.*

Size and Impacted Areas

The area that was impacted is in front of the E Cell Pump House and is approximately 6 feet wide by 6 feet long. **Figure 1** shows the impacted area of concern.

GREENVILLE OFFICE
426 Fairforest Way
Greenville, SC 29607
864-232-1556

www.alliancetg.com

Figure 1: Leachate Release Location

Soil Sampling

Three discrete subsurface soil samples—one background (SS-1) and two in the affected area (SS-1 092225 [1'–2'] and SS-1 092225 [2'–4'])—were collected at the locations shown on **Figure 2**. The background subsurface soil sample (SS-1) is located across from the E Cell Pump House and was collected from a depth of 1-2 feet below ground surface (bgs). SS-1 092225 is located in overflow area in front of the E Cell Pump House. Two soil samples were collected from location SS-1 092225 from depths of 1–2 feet and 2–4 feet bgs. Soil samples were collected using a stainless-steel hand auger and analyzed for Appendix I volatile organic compounds (VOCs) including 1,4-dioxane (EPA Method 8260D), Appendix I total metals (EPA Method 6010D), mercury (EPA Method 7471B), total phosphorous (EPA Method 6010D), sulfate (EPA Method 300.0), nitrate (EPA Method 300.0), and pH (EPA Method 9045D). Samples were placed on ice in coolers and taken to the Rogers & Callcott Laboratory (Certification #27) for analysis. All soil borings were backfilled with bentonite.

Figure 2: Area of Overflow and Soil Sample Locations

Summary of Results

The results from each soil sample location can be found in **Table 1**. 1,4-dioxane was not detected above reporting limits in any of the soil samples. Background soil sample SS-1 contained low detections of VOCs 2-Butanone and acetone. Phosphorus and sulfate were also detected. SS-1 092225 (1'-2'), located in the spill area next to the pump house, contained concentrations of sulfate, barium, nickel, phosphorus, vanadium, and zinc. SS-1 092225 (2'-4'), also located in the spill area next to the pump house, contained concentrations of sulfate and phosphorus. No compounds exceeded North Carolina Residential Health Based Preliminary Soil Remediation Goals (PSRG).

Table 1: Leachate Spill Soil Samples

Sample Location	Date	pH	Total Solids	Nitrate	Sulfate	Barium	Nickel	Total Phosphorus	Vanadium	Zinc	2-Butanone	Acetone	1,4-Dioxane
		pH units	%	mg/kg									
Background SS-1 (1'-2')	9/24/2025	**5.9 K4**	84.3	< 9.92	**113**	< 140 X	< 56.0 X	**756**	< 56.0 X	< 140 X	**0.0169**	**0.135**	< 0.0494
SS-1 092225 (1'-2')	9/24/2025	**7.7 K4**	94.4	< 9.40	**182**	**114**	**13.1**	**376**	**30.5**	**67.9**	< 0.0092	< 0.0921	< 0.0461 S
SS-1 092225 (2'-4')	9/24/2025	**6.2 K4**	89.4	< 9.88	**204**	< 245 X	< 98.1 X	**560**	< 98.1 X	< 245 X	< 0.0099	< 0.0988	< 0.0494
EPA RSL (Residential Soil) (mg/kg)				130,000	NA	15,000	1,500	NA	390	23,000	27,000	70,000	5.3
NC Residential Health Based PSRG (mg/kg)				25,000	NA	3,100	310	NA	78.0	4700	5,500	14,000	5.4
NC Protection of Groundwater PSRG (mg/kg)				NA	NA	580	130	NA	140	1200	17.0	25.0	0.012

Notes:
Detections in **Bold.**
Detections exceeding a Standard are Highlighted.
Only Detected Metals are shown above.
X – Result subject to sample matrix interference. Reporting limit has been adjusted where applicable.
S - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits. The laboratory control sample (LCS) was within control limits.
K4 - Solid samples that are not analyzed in the field within 15 minutes of collection are considered analyzed out of holding time.
PSRG – Preliminary Soil Remediation Goals.
NA – Not Applicable.

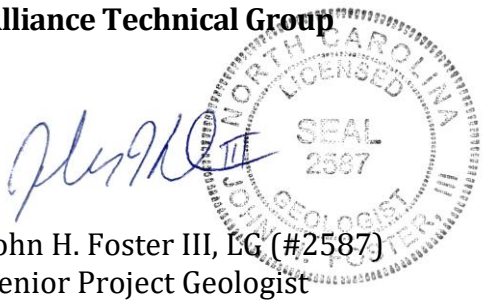
Conclusions and Recommendations

No tested compounds exceeded the NC Residential Health Based PSRGs. No further action concerning the leachate overflow is necessary.

If you have any questions or comments regarding this report, please call me at 864.414.0892 or email me at john.foster@alliancetg.com.

Sincerely,

Alliance Technical Group



John H. Foster III, LG (#2587)
Senior Project Geologist

Cc: Tracy Willis (Two Banks Development) (email)
Lee Hill (NCDEQ) (email)

Attachments: Laboratory Analytical Reports

Laboratory Report

Client	ATG-Greenville ARR Stan Golaski 426 Fairforest Way Greenville, SC 29607	**Project:** **Work Order:** **Received:**	Two Banks-MW and SW- Canton, NC 25I1280 09/22/2025 15:05

Dear Client:

Alliance Technical Group appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on September 22, 2025. Alliance Technical Group maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Alliance Technical Group immediately.

We strive to provide excellent service to our clients. Please contact Lauren Hollister, your Project Manager, at lhollister@rcenviro.com, (864)-232-1556 if you have any questions about this report.

Report Approved By:

Lauren Hollister
Project Manager

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Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

Client ATG-Greenville ARR
Stan Golaski
426 Fairforest Way
Greenville, SC 29607

Project: Two Banks-MW and SW- Canton, NC
Work Order: 25I1280
Received: 09/22/2025 15:05

Sample Number	Sample Description	Matrix	Sampled	Type
25I1280-01	SS1 092225 1'-2'	Solid	09/22/25 12:00	Grab
25I1280-02	SS1 092225 2'-4'	Solid	09/22/25 12:30	Grab
25I1280-03	SS1 Background 092225 1'-2'	Solid	09/22/25 13:00	Grab

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ATG-Greenville ARR
426 Fairforest Way
Greenville, SC 29607

Project:	Two Banks-MW and SW- Canton, NC
Work Order:	25I1280
Reported:	10/27/25 17:29

Sample Data

Sample Number 25I1280-01
Sample Description SS1 092225 1'-2' collected on 09/22/25 12:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
General Chemistry Parameters										
Nitrate as N	ND	9.40	mg/kg	2.00	10/20/25 22:42	EPA 9056A		BMC	B5J2510	RC-G
Sulfate	**182**	23.5	mg/kg	5.00	10/23/25 18:19	EPA 9056A		BMC	B5J2660	RC-G
Total Solids	**94.4**	0.100	%	1.00	10/06/25 18:16	Dry Weight		MAM	B5J1426	RC-G
Waste pH										
pH Lab	**7.7**	0.1	pH Units	1.00	09/24/25 13:29	EPA 9045D	K4	MAM	B5I2454	RC-G
Temperature of pH measured at	**19.8**	0.00	°C	1.00	09/24/25 13:29	EPA 9045D	K4	MAM	B5I2454	RC-G
Phos by ICP										
Total Phosphorus as P	**376**	25.6	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D		GAH	B5I2586	RC-G
Total Metals										
Mercury	ND	0.020	mg/kg dry	1.00	09/25/25 15:23	EPA 7471B		LMB	B5I2459	RC-G
Antimony	ND	25.6	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Arsenic	ND	25.6	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Barium	**114**	25.6	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D		GAH	B5I2586	RC-G
Beryllium	ND	10.3	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Cadmium	ND	10.3	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Chromium	ND	25.6	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Cobalt	ND	10.3	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Copper	ND	10.3	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Lead	ND	25.6	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Nickel	**13.1**	10.3	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D		GAH	B5I2586	RC-G
Selenium	ND	25.6	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Silver	ND	10.3	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Thallium	ND	25.6	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D	X	GAH	B5I2586	RC-G
Vanadium	**30.5**	10.3	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D		GAH	B5I2586	RC-G
Zinc	**67.9**	25.6	mg/kg dry	5.00	10/01/25 05:28	EPA 6010D		GAH	B5I2586	RC-G
Volatile Organics										
1,1,1,2-Tetrachloroethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,1,1-Trichloroethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,1,2,2-Tetrachloroethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,1,2-Trichloroethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,1-Dichloroethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,1-Dichloroethene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,2,3-Trichloropropane	ND	9.2	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dibromo-3-chloropropane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dibromoethane (EDB)	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dichlorobenzene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G

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ATG-Greenville ARR
426 Fairforest Way
Greenville, SC 29607

Project: Two Banks-MW and SW- Canton, NC
Work Order: 25I1280
Reported: 10/27/25 17:29

Sample Number 25I1280-01
Sample Description SS1 092225 1'-2' collected on 09/22/25 12:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Volatile Organics										
1,2-Dichloroethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dichloropropane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,4-Dichlorobenzene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
1,4-Dioxane	ND	46.1	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D	S	MKH	B5J1451	RC-G
2-Butanone (MEK)	ND	9.2	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
2-Hexanone	ND	9.2	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
4-Methyl-2-pentanone (MIBK)	ND	9.2	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Acetone	ND	92.1	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Acrylonitrile	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Benzene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Bromochloromethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Bromodichloromethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Bromoform	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Bromomethane (Methyl Bromide)	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Carbon disulfide	ND	9.2	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Carbon tetrachloride	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Chlorobenzene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Chloroethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Chloroform	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Chloromethane (Methyl Chloride)	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
cis-1,2-Dichloroethene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
cis-1,3-Dichloropropene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Dibromochloromethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Dibromomethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Ethylbenzene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Iodomethane	ND	9.2	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
m,p-Xylene	ND	9.2	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Methylene chloride	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
o-Xylene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Styrene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Tetrachloroethene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Toluene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
trans-1,2-Dichloroethene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
trans-1,3-Dichloropropene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
trans-1,4-Dichloro-2-butene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Trichloroethene	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Trichlorofluoromethane	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Vinyl acetate	ND	9.2	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G
Vinyl chloride	ND	4.6	ug/kg dry	0.900	09/30/25 18:09	EPA 8260D		MKH	B5J1451	RC-G

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Sample Number 25I1280-01
Sample Description SS1 092225 1'-2' collected on 09/22/25 12:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Volatile Organics										

Surrogates	%REC	%REC Limits	Flag
1,2-Dichloroethane-D4	105	70-130	
Toluene-d8	120	70-130	
4-Bromofluorobenzene	123	70-130	

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Sample Number 25I1280-02
Sample Description SS1 092225 2'-4' collected on 09/22/25 12:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
General Chemistry Parameters										
Nitrate as N	ND	9.88	mg/kg	2.00	10/21/25 01:30	EPA 9056A		BMC	B5J2510	RC-G
Sulfate	**204**	24.7	mg/kg	5.00	10/23/25 21:07	EPA 9056A		BMC	B5J2660	RC-G
Total Solids	**89.4**	0.100	%	1.00	10/06/25 18:16	Dry Weight		MAM	B5J1426	RC-G
Waste pH										
pH Lab	**6.2**	0.1	pH Units	1.00	09/24/25 13:29	EPA 9045D	K4	MAM	B5I2454	RC-G
Temperature of pH measured at	**19.8**	0.00	°C	1.00	09/24/25 13:29	EPA 9045D	K4	MAM	B5I2454	RC-G
Phos by ICP										
Total Phosphorus as P	**560**	245	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D		GAH	B5I2586	RC-G
Total Metals										
Mercury	ND	0.020	mg/kg dry	1.00	09/25/25 15:48	EPA 7471B		LMB	B5I2459	RC-G
Antimony	ND	245	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Arsenic	ND	245	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Barium	ND	245	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Beryllium	ND	98.1	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Cadmium	ND	98.1	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Chromium	ND	245	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Cobalt	ND	98.1	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Copper	ND	98.1	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Lead	ND	245	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Nickel	ND	98.1	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Selenium	ND	245	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Silver	ND	98.1	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Thallium	ND	245	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Vanadium	ND	98.1	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Zinc	ND	245	mg/kg dry	50.0	10/01/25 07:50	EPA 6010D	X	GAH	B5I2586	RC-G
Volatile Organics										
1,1,1,2-Tetrachloroethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,1,1-Trichloroethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,1,2,2-Tetrachloroethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,1,2-Trichloroethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,1-Dichloroethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,1-Dichloroethene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,2,3-Trichloropropane	ND	9.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dibromo-3-chloropropane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dibromoethane (EDB)	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dichlorobenzene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dichloroethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dichloropropane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G

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Sample Number 25I1280-02
Sample Description SS1 092225 2'-4' collected on 09/22/25 12:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Volatile Organics										
1,4-Dichlorobenzene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
1,4-Dioxane	ND	49.4	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
2-Butanone (MEK)	ND	9.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
2-Hexanone	ND	9.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
4-Methyl-2-pentanone (MIBK)	ND	9.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Acetone	ND	98.8	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Acrylonitrile	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Benzene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Bromochloromethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Bromodichloromethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Bromoform	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Bromomethane (Methyl Bromide)	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Carbon disulfide	ND	9.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Carbon tetrachloride	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Chlorobenzene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Chloroethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Chloroform	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Chloromethane (Methyl Chloride)	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
cis-1,2-Dichloroethene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
cis-1,3-Dichloropropene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Dibromochloromethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Dibromomethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Ethylbenzene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Iodomethane	ND	9.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
m,p-Xylene	ND	9.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Methylene chloride	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
o-Xylene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Styrene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Tetrachloroethene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Toluene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
trans-1,2-Dichloroethene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
trans-1,3-Dichloropropene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
trans-1,4-Dichloro-2-butene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Trichloroethene	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Trichlorofluoromethane	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Vinyl acetate	ND	9.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G
Vinyl chloride	ND	4.9	ug/kg dry	0.900	09/30/25 19:01	EPA 8260D		MKH	B5J1451	RC-G

Surrogates	%REC	%REC Limits	Flag

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Sample Number 25I1280-02
Sample Description SS1 092225 2'-4' collected on 09/22/25 12:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab

Volatile Organics

Surrogates	%REC	%REC Limits	Flag
1,2-Dichloroethane-D4	103	70-130	
Toluene-d8	121	70-130	
4-Bromofluorobenzene	122	70-130	

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ATG-Greenville ARR		Project:	Two Banks-MW and SW- Canton, NC
426 Fairforest Way		Work Order:	25I1280
Greenville, SC 29607		Reported:	10/27/25 17:29

Sample Number 25I1280-03
Sample Description SS1 Background 092225 1'-2' collected on 09/22/25 13:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
General Chemistry Parameters										
Nitrate as N	ND	9.92	mg/kg	2.00	10/21/25 03:36	EPA 9056A		BMC	B5J2510	RC-G
Sulfate	**113**	9.9	mg/kg	2.00	10/23/25 21:49	EPA 9056A		BMC	B5J2660	RC-G
Total Solids	**84.3**	0.100	%	1.00	10/06/25 18:16	Dry Weight		MAM	B5J1426	RC-G
Waste pH										
pH Lab	**5.9**	0.1	pH Units	1.00	09/24/25 13:29	EPA 9045D	K4	MAM	B5I2454	RC-G
Temperature of pH measured at	**19.8**	0.00	°C	1.00	09/24/25 13:29	EPA 9045D	K4	MAM	B5I2454	RC-G
Phos by ICP										
Total Phosphorus as P	**756**	140	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D		GAH	B5I2586	RC-G
Total Metals										
Mercury	ND	0.023	mg/kg dry	1.00	09/25/25 15:51	EPA 7471B		LMB	B5I2459	RC-G
Antimony	ND	140	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Arsenic	ND	140	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Barium	ND	140	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Beryllium	ND	56.0	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Cadmium	ND	56.0	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Chromium	ND	140	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Cobalt	ND	56.0	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Copper	ND	56.0	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Lead	ND	140	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Nickel	ND	56.0	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Selenium	ND	140	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Silver	ND	56.0	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Thallium	ND	140	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Vanadium	ND	56.0	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Zinc	ND	140	mg/kg dry	25.0	10/01/25 05:56	EPA 6010D	X	GAH	B5I2586	RC-G
Volatile Organics										
1,1,1,2-Tetrachloroethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,1,1-Trichloroethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,1,2,2-Tetrachloroethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,1,2-Trichloroethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,1-Dichloroethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,1-Dichloroethene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,2,3-Trichloropropane	ND	9.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dibromo-3-chloropropane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dibromoethane (EDB)	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dichlorobenzene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dichloroethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,2-Dichloropropane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G

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ATG-Greenville ARR
426 Fairforest Way
Greenville, SC 29607

Project: Two Banks-MW and SW- Canton, NC
Work Order: 25I1280
Reported: 10/27/25 17:29

Sample Number 25I1280-03
Sample Description SS1 Background 092225 1'-2' collected on 09/22/25 13:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Volatile Organics										
1,4-Dichlorobenzene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
1,4-Dioxane	ND	49.4	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
2-Butanone (MEK)	**16.9**	9.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
2-Hexanone	ND	9.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
4-Methyl-2-pentanone (MIBK)	ND	9.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Acetone	**135**	98.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Acrylonitrile	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Benzene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Bromochloromethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Bromodichloromethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Bromoform	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Bromomethane (Methyl Bromide)	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Carbon disulfide	ND	9.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Carbon tetrachloride	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Chlorobenzene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Chloroethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Chloroform	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Chloromethane (Methyl Chloride)	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
cis-1,2-Dichloroethene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
cis-1,3-Dichloropropene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Dibromochloromethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Dibromomethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Ethylbenzene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Iodomethane	ND	9.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
m,p-Xylene	ND	9.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Methylene chloride	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
o-Xylene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Styrene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Tetrachloroethene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Toluene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
trans-1,2-Dichloroethene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
trans-1,3-Dichloropropene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
trans-1,4-Dichloro-2-butene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Trichloroethene	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Trichlorofluoromethane	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Vinyl acetate	ND	9.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G
Vinyl chloride	ND	4.9	ug/kg dry	0.800	09/30/25 19:26	EPA 8260D		MKH	B5J1451	RC-G

Surrogates	%REC	%REC Limits	Flag

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Sample Number 25I1280-03
Sample Description SS1 Background 092225 1'-2' collected on 09/22/25 13:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch	Lab
Volatile Organics										

Surrogates	%REC	%REC Limits	Flag
1,2-Dichloroethane-D4	105	70-130	
Toluene-d8	123	70-130	
4-Bromofluorobenzene	123	70-130	

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General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5J2510 - IC Soil											
Blank (B5J2510-BLK1)											
Nitrate as N	ND	4.92	mg/kg								RC-G
Duplicate (B5J2510-DUP1)	**Source: 25I1280-01**										
Nitrate as N	ND	9.86	mg/kg		ND				30		RC-G
Sulfate	176	9.9	mg/kg		203			14	30		RC-G
Matrix Spike (B5J2510-MS1)	**Source: 25I1280-01**										
Nitrate as N	14.6	9.65	mg/kg	14.5	ND	101	65-130				RC-G
Post Spike (B5J2510-PS1)	**Source: 25I1280-01**										
Nitrate as N	1.43		mg/L	1.50	ND	96	0-200				RC-G
Reference (B5J2510-SRM1)											
Nitrate as N	300	49.0	mg/kg	273		110	78.9-121.2				RC-G
Batch B5J2660 - IC Soil											
Blank (B5J2660-BLK1)											
Sulfate	ND	4.9	mg/kg								RC-G
Duplicate (B5J2660-DUP1)	**Source: 25I1280-01**										
Sulfate	155	24.7	mg/kg		182			16	30		RC-G
Matrix Spike (B5J2660-MS1)	**Source: 25I1280-01**										
Sulfate	206	24.1	mg/kg	29.0	182	82	65-130				RC-G
Reference (B5J2660-SRM1)											
Sulfate	517	49.0	mg/kg	525		99	51.8-132.5				RC-G

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Waste pH
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5I2454 - General Prep - Wet Chem											
Duplicate (B5I2454-DUP2)	**Source: 25I1280-01**										
pH Lab	7.9	0.1	pH Units		7.7			3	30	K4	RC-G

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Phos by ICP
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5I2586 - EPA 200.7											
Blank (B5I2586-BLK1)											
Total Phosphorus as P	ND	0.05	mg/kg wet								RC-G
LCS (B5I2586-BS1)											
Total Phosphorus as P	0.45	0.05	mg/kg wet	0.500		91	80-120				RC-G
Reference (B5I2586-SRM2)											
Total Phosphorus as P	1120	49.7	mg/kg wet	1220		92	98361-172.1				RC-G

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5I2459 - EPA 7471B											
Blank (B5I2459-BLK1)											
Mercury	ND	0.020	mg/kg wet								RC-G
Blank (B5I2459-BLK2)											
Mercury	ND	0.020	mg/kg wet								RC-G
LCS (B5I2459-BS1)											
Mercury	0.47	0.020	mg/kg wet	0.500		94	90-110				RC-G
LCS (B5I2459-BS2)											
Mercury	0.51	0.020	mg/kg wet	0.497		102	90-110				RC-G
Matrix Spike (B5I2459-MS1)	**Source: 25I1280-01**										
Mercury	0.60	0.021	mg/kg dry	0.515	ND	117	75-125				RC-G
Matrix Spike Dup (B5I2459-MSD1)	**Source: 25I1280-01**										
Mercury	0.61	0.021	mg/kg dry	0.519	ND	117	75-125	0.1	20		RC-G
Reference (B5I2459-SRM1)											
Mercury	24	0.020	mg/kg wet	18.5		130	2.27-122.16				RC-G
Reference (B5I2459-SRM2)											
Mercury	34	0.020	mg/kg wet	24.9		135	4056-119.67				RC-G
Batch B5I2586 - EPA 200.7											
Blank (B5I2586-BLK1)											
Antimony	ND	0.05	mg/kg wet								RC-G
Arsenic	ND	0.05	mg/kg wet								RC-G
Barium	ND	0.05	mg/kg wet								RC-G
Beryllium	ND	0.02	mg/kg wet								RC-G
Cadmium	ND	0.02	mg/kg wet								RC-G
Chromium	ND	0.05	mg/kg wet								RC-G
Cobalt	ND	0.02	mg/kg wet								RC-G
Copper	ND	0.02	mg/kg wet								RC-G
Lead	ND	0.05	mg/kg wet								RC-G
Nickel	ND	0.02	mg/kg wet								RC-G
Selenium	ND	0.05	mg/kg wet								RC-G
Silver	ND	0.02	mg/kg wet								RC-G

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5I2586 - EPA 200.7											
Blank (B5I2586-BLK1)											
Thallium	ND	0.05	mg/kg wet								RC-G
Vanadium	ND	0.02	mg/kg wet								RC-G
Zinc	ND	0.05	mg/kg wet								RC-G
LCS (B5I2586-BS1)											
Antimony	0.45	0.05	mg/kg wet	0.500		90	80-120				RC-G
Arsenic	0.44	0.05	mg/kg wet	0.500		87	80-120				RC-G
Barium	0.45	0.05	mg/kg wet	0.500		90	80-120				RC-G
Beryllium	0.46	0.02	mg/kg wet	0.500		92	80-120				RC-G
Cadmium	0.44	0.02	mg/kg wet	0.500		88	80-120				RC-G
Chromium	0.45	0.05	mg/kg wet	0.500		91	80-120				RC-G
Cobalt	0.45	0.02	mg/kg wet	0.500		90	80-120				RC-G
Copper	0.45	0.02	mg/kg wet	0.500		91	80-120				RC-G
Lead	0.44	0.05	mg/kg wet	0.500		89	80-120				RC-G
Nickel	0.44	0.02	mg/kg wet	0.500		89	80-120				RC-G
Selenium	0.44	0.05	mg/kg wet	0.500		87	80-120				RC-G
Silver	0.46	0.02	mg/kg wet	0.500		91	80-120				RC-G
Thallium	0.46	0.05	mg/kg wet	0.500		92	80-120				RC-G
Vanadium	0.45	0.02	mg/kg wet	0.500		89	80-120				RC-G
Zinc	0.45	0.05	mg/kg wet	0.500		90	80-120				RC-G
Reference (B5I2586-SRM1)											
Antimony	153	48.5	mg/kg wet	261		58	10-121.456				RC-G
Arsenic	237	48.5	mg/kg wet	297		80	8.923-110.10				RC-G
Barium	256	48.5	mg/kg wet	304		84	5.118-109.86				RC-G
Beryllium	182	19.4	mg/kg wet	208		88	5.346-110.57				RC-G
Cadmium	141	19.4	mg/kg wet	171		82	4.327-109.94				RC-G
Chromium	87.2	48.5	mg/kg wet	98.7		88	3.019-117.52				RC-G
Cobalt	212	19.4	mg/kg wet	240		88	8.333-113.7				RC-G
Copper	177	19.4	mg/kg wet	204		87	6.667-111.27				RC-G
Lead	123	48.5	mg/kg wet	143		86	5.014-117.48				RC-G
Nickel	244	19.4	mg/kg wet	288		85	1.806-114.93				RC-G
Selenium	180	48.5	mg/kg wet	215		84	0.465-116.74				RC-G
Silver	59.9	19.4	mg/kg wet	68.6		87	4.286-117.9				RC-G
Thallium	226	48.5	mg/kg wet	263		86	4.259-112.54				RC-G
Vanadium	110	19.4	mg/kg wet	123		89	9.756-114.63				RC-G

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5I2586 - EPA 200.7											
Reference (B5I2586-SRM1)											
Zinc	172	48.5	mg/kg wet	198		87	2.626-116.66				RC-G

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Volatile Organics
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5J1451 - EPA 5035											
Blank (B5J1451-BLK1)											
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								RC-G
1,1,1-Trichloroethane	ND	5.0	ug/kg wet								RC-G
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg wet								RC-G
1,1,2-Trichloroethane	ND	5.0	ug/kg wet								RC-G
1,1-Dichloroethane	ND	5.0	ug/kg wet								RC-G
1,1-Dichloroethene	ND	5.0	ug/kg wet								RC-G
1,2,3-Trichloropropane	ND	10.0	ug/kg wet								RC-G
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg wet								RC-G
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg wet								RC-G
1,2-Dichlorobenzene	ND	5.0	ug/kg wet								RC-G
1,2-Dichloroethane	ND	5.0	ug/kg wet								RC-G
1,2-Dichloropropane	ND	5.0	ug/kg wet								RC-G
1,4-Dichlorobenzene	ND	5.0	ug/kg wet								RC-G
2-Butanone (MEK)	ND	10.0	ug/kg wet								RC-G
2-Hexanone	ND	10.0	ug/kg wet								RC-G
4-Methyl-2-pentanone (MIBK)	ND	10.0	ug/kg wet								RC-G
Acetone	ND	100	ug/kg wet								RC-G
Acrylonitrile	ND	5.0	ug/kg wet								RC-G
Benzene	ND	5.0	ug/kg wet								RC-G
Bromochloromethane	ND	5.0	ug/kg wet								RC-G
Bromodichloromethane	ND	5.0	ug/kg wet								RC-G
Bromoform	ND	5.0	ug/kg wet								RC-G
Bromomethane (Methyl Bromide)	ND	5.0	ug/kg wet								RC-G
Carbon disulfide	ND	10.0	ug/kg wet								RC-G
Carbon tetrachloride	ND	5.0	ug/kg wet								RC-G
Chlorobenzene	ND	5.0	ug/kg wet								RC-G
Chloroethane	ND	5.0	ug/kg wet								RC-G
Chloroform	ND	5.0	ug/kg wet								RC-G
Chloromethane (Methyl Chloride)	ND	5.0	ug/kg wet								RC-G
cis-1,2-Dichloroethene	ND	5.0	ug/kg wet								RC-G
cis-1,3-Dichloropropene	ND	5.0	ug/kg wet								RC-G
Dibromochloromethane	ND	5.0	ug/kg wet								RC-G
Dibromomethane	ND	5.0	ug/kg wet								RC-G
Ethylbenzene	ND	5.0	ug/kg wet								RC-G
Iodomethane	ND	10.0	ug/kg wet								RC-G

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Volatile Organics
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5J1451 - EPA 5035											
Blank (B5J1451-BLK1)											
m,p-Xylene	ND	10.0	ug/kg wet								RC-G
Methylene chloride	ND	5.0	ug/kg wet								RC-G
o-Xylene	ND	5.0	ug/kg wet								RC-G
Styrene	ND	5.0	ug/kg wet								RC-G
Tetrachloroethene	ND	5.0	ug/kg wet								RC-G
Toluene	ND	5.0	ug/kg wet								RC-G
trans-1,2-Dichloroethene	ND	5.0	ug/kg wet								RC-G
trans-1,3-Dichloropropene	ND	5.0	ug/kg wet								RC-G
trans-1,4-Dichloro-2-butene	ND	5.0	ug/kg wet								RC-G
Trichloroethene	ND	5.0	ug/kg wet								RC-G
Trichlorofluoromethane	ND	5.0	ug/kg wet								RC-G
Vinyl acetate	ND	10.0	ug/kg wet								RC-G
Vinyl chloride	ND	5.0	ug/kg wet								RC-G
Surrogate: 1,2-Dichloroethane-D4						*104*	*70-130*				
Surrogate: Toluene-d8						*119*	*70-130*				
Surrogate: 4-Bromofluorobenzene						*123*	*70-130*				
LCS (B5J1451-BS1)											
1,1,1,2-Tetrachloroethane	82.4	5.0	ug/kg wet	80.0		103	70-130				RC-G
1,1,1-Trichloroethane	81.0	5.0	ug/kg wet	80.0		101	70-130				RC-G
1,1,2,2-Tetrachloroethane	65.6	5.0	ug/kg wet	80.0		82	70-130				RC-G
1,1,2-Trichloroethane	80.2	5.0	ug/kg wet	80.0		100	70-130				RC-G
1,1-Dichloroethane	82.5	5.0	ug/kg wet	80.0		103	70-130				RC-G
1,1-Dichloroethene	79.6	5.0	ug/kg wet	80.0		99	70-130				RC-G
1,2,3-Trichloropropane	72.0	10.0	ug/kg wet	80.0		90	70-130				RC-G
1,2-Dibromo-3-chloropropane	89.3	5.0	ug/kg wet	80.0		112	60-140				RC-G
1,2-Dibromoethane (EDB)	84.0	5.0	ug/kg wet	80.0		105	70-130				RC-G
1,2-Dichlorobenzene	79.2	5.0	ug/kg wet	80.0		99	70-130				RC-G
1,2-Dichloroethane	79.6	5.0	ug/kg wet	80.0		99	70-130				RC-G
1,2-Dichloropropane	81.8	5.0	ug/kg wet	80.0		102	70-130				RC-G
1,4-Dichlorobenzene	81.2	5.0	ug/kg wet	80.0		102	70-130				RC-G
2-Butanone (MEK)	102	10.0	ug/kg wet	80.0		128	60-140				RC-G
2-Hexanone	87.5	10.0	ug/kg wet	80.0		109	60-140				RC-G
4-Methyl-2-pentanone (MIBK)	84.8	10.0	ug/kg wet	80.0		106	60-140				RC-G
Acetone	364	100	ug/kg wet	400		91	60-140				RC-G
Acrylonitrile	85.5	5.0	ug/kg wet	80.0		107	60-140				RC-G

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Volatile Organics
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5J1451 - EPA 5035											
LCS (B5J1451-BS1)											
Benzene	76.7	5.0	ug/kg wet	80.0		96	70-130				RC-G
Bromochloromethane	78.9	5.0	ug/kg wet	80.0		99	70-130				RC-G
Bromodichloromethane	82.1	5.0	ug/kg wet	80.0		103	70-130				RC-G
Bromoform	77.2	5.0	ug/kg wet	80.0		96	70-130				RC-G
Bromomethane (Methyl Bromide)	60.7	5.0	ug/kg wet	80.0		76	60-140				RC-G
Carbon disulfide	150	10.0	ug/kg wet	160		94	60-140				RC-G
Carbon tetrachloride	82.4	5.0	ug/kg wet	80.0		103	70-130				RC-G
Chlorobenzene	80.8	5.0	ug/kg wet	80.0		101	70-130				RC-G
Chloroethane	82.0	5.0	ug/kg wet	80.0		103	60-140				RC-G
Chloroform	78.4	5.0	ug/kg wet	80.0		98	70-130				RC-G
Chloromethane (Methyl Chloride)	81.3	5.0	ug/kg wet	80.0		102	60-140				RC-G
cis-1,2-Dichloroethene	80.1	5.0	ug/kg wet	80.0		100	70-130				RC-G
cis-1,3-Dichloropropene	80.6	5.0	ug/kg wet	80.0		101	70-130				RC-G
Dibromochloromethane	84.3	5.0	ug/kg wet	80.0		105	70-130				RC-G
Dibromomethane	83.1	5.0	ug/kg wet	80.0		104	70-130				RC-G
Ethylbenzene	78.5	5.0	ug/kg wet	80.0		98	70-130				RC-G
Iodomethane	77.5	10.0	ug/kg wet	80.0		97	60-140				RC-G
m,p-Xylene	167	10.0	ug/kg wet	160		104	70-130				RC-G
Methylene chloride	81.8	5.0	ug/kg wet	80.0		102	70-130				RC-G
o-Xylene	73.7	5.0	ug/kg wet	80.0		92	70-130				RC-G
Styrene	77.0	5.0	ug/kg wet	80.0		96	70-130				RC-G
Tetrachloroethene	74.5	5.0	ug/kg wet	80.0		93	70-130				RC-G
Toluene	70.2	5.0	ug/kg wet	80.0		88	70-130				RC-G
trans-1,2-Dichloroethene	83.1	5.0	ug/kg wet	80.0		104	70-130				RC-G
trans-1,3-Dichloropropene	80.6	5.0	ug/kg wet	80.0		101	70-130				RC-G
Trichloroethene	82.3	5.0	ug/kg wet	80.0		103	70-130				RC-G
Trichlorofluoromethane	81.1	5.0	ug/kg wet	80.0		101	60-140				RC-G
Vinyl acetate	76.0	10.0	ug/kg wet	80.0		95	60-140				RC-G
Vinyl chloride	81.8	5.0	ug/kg wet	80.0		102	60-140				RC-G
Surrogate: 1,2-Dichloroethane-D4						*99*	*70-130*				
Surrogate: Toluene-d8						*100*	*70-130*				
Surrogate: 4-Bromofluorobenzene						*85*	*70-130*				
LCS Dup (B5J1451-BSD1)											
1,1,1,2-Tetrachloroethane	85.1	5.0	ug/kg wet	80.0		106	70-130	3	20		RC-G
1,1,1-Trichloroethane	82.6	5.0	ug/kg wet	80.0		103	70-130	2	20		RC-G

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Volatile Organics
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5J1451 - EPA 5035											
LCS Dup (B5J1451-BSD1)											
1,1,2,2-Tetrachloroethane	74.8	5.0	ug/kg wet	80.0		94	70-130	13	20		RC-G
1,1,2-Trichloroethane	83.4	5.0	ug/kg wet	80.0		104	70-130	4	20		RC-G
1,1-Dichloroethane	83.0	5.0	ug/kg wet	80.0		104	70-130	0.7	20		RC-G
1,1-Dichloroethene	82.8	5.0	ug/kg wet	80.0		103	70-130	4	20		RC-G
1,2,3-Trichloropropane	76.7	10.0	ug/kg wet	80.0		96	70-130	6	20		RC-G
1,2-Dibromo-3-chloropropane	99.4	5.0	ug/kg wet	80.0		124	60-140	11	20		RC-G
1,2-Dibromoethane (EDB)	86.7	5.0	ug/kg wet	80.0		108	70-130	3	20		RC-G
1,2-Dichlorobenzene	79.2	5.0	ug/kg wet	80.0		99	70-130	0.04	20		RC-G
1,2-Dichloroethane	78.8	5.0	ug/kg wet	80.0		98	70-130	1	20		RC-G
1,2-Dichloropropane	81.0	5.0	ug/kg wet	80.0		101	70-130	0.9	20		RC-G
1,4-Dichlorobenzene	81.9	5.0	ug/kg wet	80.0		102	70-130	0.8	20		RC-G
2-Butanone (MEK)	98.2	10.0	ug/kg wet	80.0		123	60-140	4	20		RC-G
2-Hexanone	92.9	10.0	ug/kg wet	80.0		116	60-140	6	20		RC-G
4-Methyl-2-pentanone (MIBK)	90.7	10.0	ug/kg wet	80.0		113	60-140	7	20		RC-G
Acetone	379	100	ug/kg wet	400		95	60-140	4	20		RC-G
Acrylonitrile	85.4	5.0	ug/kg wet	80.0		107	60-140	0.02	20		RC-G
Benzene	75.2	5.0	ug/kg wet	80.0		94	70-130	2	20		RC-G
Bromochloromethane	80.0	5.0	ug/kg wet	80.0		100	70-130	1	20		RC-G
Bromodichloromethane	83.4	5.0	ug/kg wet	80.0		104	70-130	2	20		RC-G
Bromoform	78.0	5.0	ug/kg wet	80.0		98	70-130	1	20		RC-G
Bromomethane (Methyl Bromide)	62.5	5.0	ug/kg wet	80.0		78	60-140	3	20		RC-G
Carbon disulfide	155	10.0	ug/kg wet	160		97	60-140	3	20		RC-G
Carbon tetrachloride	83.4	5.0	ug/kg wet	80.0		104	70-130	1	20		RC-G
Chlorobenzene	83.1	5.0	ug/kg wet	80.0		104	70-130	3	20		RC-G
Chloroethane	83.2	5.0	ug/kg wet	80.0		104	60-140	1	20		RC-G
Chloroform	78.8	5.0	ug/kg wet	80.0		99	70-130	0.5	20		RC-G
Chloromethane (Methyl Chloride)	85.5	5.0	ug/kg wet	80.0		107	60-140	5	20		RC-G
cis-1,2-Dichloroethene	82.2	5.0	ug/kg wet	80.0		103	70-130	3	20		RC-G
cis-1,3-Dichloropropene	80.5	5.0	ug/kg wet	80.0		101	70-130	0.02	20		RC-G
Dibromochloromethane	86.8	5.0	ug/kg wet	80.0		109	70-130	3	20		RC-G
Dibromomethane	85.0	5.0	ug/kg wet	80.0		106	70-130	2	20		RC-G
Ethylbenzene	80.0	5.0	ug/kg wet	80.0		100	70-130	2	20		RC-G
Iodomethane	79.9	10.0	ug/kg wet	80.0		100	60-140	3	20		RC-G
m,p-Xylene	169	10.0	ug/kg wet	160		106	70-130	1	20		RC-G
Methylene chloride	83.0	5.0	ug/kg wet	80.0		104	70-130	1	20		RC-G

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Volatile Organics
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B5J1451 - EPA 5035											
LCS Dup (B5J1451-BSD1)											
o-Xylene	73.7	5.0	ug/kg wet	80.0		92	70-130	0.01	20		RC-G
Styrene	78.2	5.0	ug/kg wet	80.0		98	70-130	1	20		RC-G
Tetrachloroethene	77.0	5.0	ug/kg wet	80.0		96	70-130	3	20		RC-G
Toluene	70.4	5.0	ug/kg wet	80.0		88	70-130	0.3	20		RC-G
trans-1,2-Dichloroethene	85.2	5.0	ug/kg wet	80.0		106	70-130	2	20		RC-G
trans-1,3-Dichloropropene	81.3	5.0	ug/kg wet	80.0		102	70-130	0.9	20		RC-G
Trichloroethene	84.8	5.0	ug/kg wet	80.0		106	70-130	3	20		RC-G
Trichlorofluoromethane	85.6	5.0	ug/kg wet	80.0		107	60-140	5	20		RC-G
Vinyl acetate	61.7	10.0	ug/kg wet	80.0		77	60-140	21	20	L1	RC-G
Vinyl chloride	84.1	5.0	ug/kg wet	80.0		105	60-140	3	20		RC-G
Surrogate: 1,2-Dichloroethane-D4						*99*	*70-130*				
Surrogate: Toluene-d8						*101*	*70-130*				
Surrogate: 4-Bromofluorobenzene						*92*	*70-130*				
Matrix Spike (B5J1451-MS1) **Source: 25I1280-01**											
1,1,1,2-Tetrachloroethane	64.3	4.0	ug/kg dry	63.5	ND	101	70-130				RC-G
1,1,1-Trichloroethane	63.6	4.0	ug/kg dry	63.5	ND	100	70-130				RC-G
1,1,2,2-Tetrachloroethane	65.0	4.0	ug/kg dry	63.5	ND	102	70-130				RC-G
1,1,2-Trichloroethane	63.9	4.0	ug/kg dry	63.5	ND	101	70-130				RC-G
1,1-Dichloroethane	63.3	4.0	ug/kg dry	63.5	ND	100	70-130				RC-G
1,1-Dichloroethene	62.6	4.0	ug/kg dry	63.5	ND	99	70-130				RC-G
1,2,3-Trichloropropane	61.5	7.9	ug/kg dry	63.5	ND	97	70-130				RC-G
1,2-Dibromo-3-chloropropane	79.8	4.0	ug/kg dry	63.5	ND	126	60-140				RC-G
1,2-Dibromoethane (EDB)	67.2	4.0	ug/kg dry	63.5	ND	106	70-130				RC-G
1,2-Dichlorobenzene	58.0	4.0	ug/kg dry	63.5	ND	91	70-130				RC-G
1,2-Dichloroethane	60.2	4.0	ug/kg dry	63.5	ND	95	70-130				RC-G
1,2-Dichloropropane	59.6	4.0	ug/kg dry	63.5	ND	94	70-130				RC-G
1,4-Dichlorobenzene	62.2	4.0	ug/kg dry	63.5	ND	98	70-130				RC-G
2-Butanone (MEK)	77.9	7.9	ug/kg dry	63.5	ND	123	60-140				RC-G
2-Hexanone	76.3	7.9	ug/kg dry	63.5	ND	120	60-140				RC-G
4-Methyl-2-pentanone (MIBK)	77.9	7.9	ug/kg dry	63.5	ND	123	60-140				RC-G
Acetone	346	79.4	ug/kg dry	318	ND	109	60-140				RC-G
Acrylonitrile	68.4	4.0	ug/kg dry	63.5	ND	108	60-140				RC-G
Benzene	63.0	4.0	ug/kg dry	63.5	ND	99	70-130				RC-G
Bromochloromethane	60.9	4.0	ug/kg dry	63.5	ND	96	70-130				RC-G
Bromodichloromethane	64.7	4.0	ug/kg dry	63.5	ND	102	70-130				RC-G

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Volatile Organics
Quality Control Summary

Batch B5J1451 - EPA 5035

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Matrix Spike (B5J1451-MS1)	**Source: 25I1280-01**										
Bromoform	57.5	4.0	ug/kg dry	63.5	ND	91	70-130				RC-G
Bromomethane (Methyl Bromide)	51.3	4.0	ug/kg dry	63.5	ND	81	60-140				RC-G
Carbon disulfide	136	7.9	ug/kg dry	127	ND	107	60-140				RC-G
Carbon tetrachloride	65.5	4.0	ug/kg dry	63.5	ND	103	70-130				RC-G
Chlorobenzene	62.3	4.0	ug/kg dry	63.5	ND	98	70-130				RC-G
Chloroethane	68.0	4.0	ug/kg dry	63.5	ND	107	60-140				RC-G
Chloroform	62.1	4.0	ug/kg dry	63.5	ND	98	70-130				RC-G
Chloromethane (Methyl Chloride)	70.8	4.0	ug/kg dry	63.5	ND	111	60-140				RC-G
cis-1,2-Dichloroethene	61.5	4.0	ug/kg dry	63.5	ND	97	70-130				RC-G
cis-1,3-Dichloropropene	63.9	4.0	ug/kg dry	63.5	ND	101	70-130				RC-G
Dibromochloromethane	65.4	4.0	ug/kg dry	63.5	ND	103	70-130				RC-G
Dibromomethane	64.4	4.0	ug/kg dry	63.5	ND	101	70-130				RC-G
Ethylbenzene	62.7	4.0	ug/kg dry	63.5	ND	99	70-130				RC-G
Iodomethane	68.2	7.9	ug/kg dry	63.5	ND	107	60-140				RC-G
m,p-Xylene	128	7.9	ug/kg dry	127	ND	101	70-130				RC-G
Methylene chloride	63.8	4.0	ug/kg dry	63.5	ND	100	70-130				RC-G
o-Xylene	55.3	4.0	ug/kg dry	63.5	ND	87	70-130				RC-G
Styrene	56.5	4.0	ug/kg dry	63.5	ND	89	70-130				RC-G
Tetrachloroethene	62.8	4.0	ug/kg dry	63.5	ND	99	70-130				RC-G
Toluene	55.3	4.0	ug/kg dry	63.5	ND	87	70-130				RC-G
trans-1,2-Dichloroethene	64.0	4.0	ug/kg dry	63.5	ND	101	70-130				RC-G
trans-1,3-Dichloropropene	64.7	4.0	ug/kg dry	63.5	ND	102	70-130				RC-G
Trichloroethene	64.4	4.0	ug/kg dry	63.5	ND	101	70-130				RC-G
Trichlorofluoromethane	70.4	4.0	ug/kg dry	63.5	ND	111	60-140				RC-G
Vinyl acetate	61.6	7.9	ug/kg dry	63.5	ND	97	60-140				RC-G
Vinyl chloride	68.7	4.0	ug/kg dry	63.5	ND	108	60-140				RC-G
Surrogate: 1,2-Dichloroethane-D4						*95*	*70-130*				
Surrogate: Toluene-d8						*100*	*70-130*				
Surrogate: 4-Bromofluorobenzene						*97*	*70-130*				

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Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 200.7 Metal Digestion				
EPA 200.7	B5I2586	25I1280-01	09/26/2025 14:32	LMB
EPA 200.7	B5I2586	25I1280-02	09/26/2025 14:32	LMB
EPA 200.7	B5I2586	25I1280-03	09/26/2025 14:32	LMB
EPA 7471B Mercury Digestion				
EPA 7471B	B5I2459	25I1280-01	09/24/2025 16:49	LMB
EPA 7471B	B5I2459	25I1280-02	09/24/2025 16:49	LMB
EPA 7471B	B5I2459	25I1280-03	09/24/2025 16:49	LMB

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
RPD	Relative Percent Difference
K4	Per SC DHEC, solid samples that are not analyzed in the field within 15 minutes of collection are considered analyzed out of holding time.
L1	The RPD between the LCS and LCS duplicate exceeded the control limits; however, both LCS spike recoveries were within control limits.
S	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits. The Laboratory Control Sample (LCS) was within control limits.
X	Result subject to sample matrix interference. Reporting limit has been adjusted where applicable.

Laboratory Reference:

RC-G = Rogers and Callcott, 426 Fairforest Way, Greenville, SC 29607 / SC Lab ID 23105
RC-C = Rogers and Callcott, 215B Stoneridge Drive, Columbia, SC 29210 / SC Lab ID 40572

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CHAIN OF CUSTODY RECORD

WORK ORDER 25I1280

Rogers & Callcott
ENGINEERING | ENVIRONMENTAL | LABORATORY

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 233-9058

215 Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Two Banks Development

Address: Canton, NC

Report To:

Email Address:

Telephone #:

PO #: Project # ARR-2025-0009

R & C WORK ORDER	YR 25 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) →	* Appx I VOC	**	***									
						N	N										Filtered (Yes/No)
						Y	Y										Cooled (Yes/No)
						G	G										Container Type (Plastic/Glass)
						40	1L										Container Volume (mL)
						G	G										Sample Type (Grab/Composite)
						S	S										Sample Source (WW, GW, DW, SFW, STW, S, Other)
						***	A										Preservation Code(s)
-01	9/22	1200	SS1 092225 1'-2'	8		6	2										* Appx I VOC including
-02	"	1230	SS1 092225 2'-4'	7		5	2										1,4 - Dioxane (EPA 8260D)
-03	"	1300	SS1 Background 092225 1'-2'	7		5	2										
																	** Appx I Total metals,
																	Mercury, Total Phos,
																	Sulfate, Nitrate, Soil pH
																	*** 3 vials pres NaHSO4,
																	1 vial pres MeOH,
																	1-4 oz unpress

Preservation Code(s)
A – None E – HCl I – Zn Acetate
B – HNO_3 F – $Na_2S_2O_3$ J – H_3PO_4
C – H_2SO_4 G – Boric Acid K - MCAA
D – NaOH H – Ascorbic Acid L – NaH2PO4
M – _____ N – _____

COMMENTS

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	9/22/25 1505	2.	9/22/25 1505
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date/Time: _____
Flow reading at Start: _____
Composite End Date/Time: _____
Flow reading at End: _____
Time or Flow (Circle one)
Initials: _____

Temperature of blank or representative sample
At time of collection _____ °C
At time of lab receipt 0.8 °C

Possible Hazards associated with samples: ○ Non-Hazard ○ Flammable ○ Skin Irritant ○ Poison ○ Unknown ○ Other _____

Form Revised December 2023 Page _____

ROGERS & CALLCOTT

AGREEMENT FOR SERVICES

This contract between J. L. Rogers & Callcott Engineers, Inc. d/b/a Rogers & Callcott Environmental ("Rogers & Callcott") and the client shall serve as a Master Agreement for Services (Agreement).

1. Scope of Work: Per laboratory Chain of Custody
2. Schedule of Work: Work will begin at the time of sample receipt. Normal turn around is 10 working days unless a rush schedule is requested and can be accomplished.
3. Costs shall be billed at the unit rates as quoted.
4. Offer Acceptance. In consideration of the terms of this Agreement, Client hereby accepts Rogers & Callcott's offer to provide services as described herein and agrees that those services, and any additional services authorized by Client, shall be governed by this Agreement. The term "Agreement" shall include both this document and any Proposal, if provided.
5. Payment. Payments are due in full upon authorization of services. No reports or preliminary data will be provided until payment is received in full.
    a. Rogers & Callcott shall be paid in full for all services rendered under this Agreement and for any additional services authorized by Client. If prices for services are not established in a Proposal, then the current Rogers & Callcott fee schedule shall be used to determine the amount to be paid by Client for services provided. Client's obligation to pay for services is not dependent or contingent upon Client's successful completion of the project, obtaining of financing, payment from third parties, or approval of governmental or regulatory agencies. Invoices are due and payable by Client upon receipt. Past due amounts are subject to a late payment fee of one and one-half percent (1 1/2%) per month or, if less, the highest amount allowed by applicable law on the outstanding balance. Attorneys fees and other costs incurred by Rogers & Callcott in collecting past due amounts shall be paid by Client. In the event that any invoice becomes past due by more than thirty (30) days, services provided by Rogers & Callcott may be suspended until such payment is received.
6. Termination. In such event, Client shall without delay pay Rogers & Callcott in full for all work previously authorized and performed prior to the effective date of termination. Termination of this Agreement shall not affect Rogers & Callcott's right to lien or otherwise pursue payment for work completed through the effective date of termination.
7. Ownership of Documents and Samples. All reports or other written documents provided by Rogers & Callcott pursuant to this Agreement are instruments of service provided for the exclusive use of Client and Client's agents and employees for the specific project and are not to be used or relied upon by other parties or in connection with other projects without written permission of Rogers & Callcott. Subject to Client's authorized use, all instruments of service and all data gathered and work papers produced by Rogers & Callcott in the performance of its services are and shall remain the sole and exclusive property of Rogers & Callcott.
    a. Test specimens or samples remain the property of the Client at all times, with Rogers & Callcott acting solely as a bailer. In the event samples contain or may contain hazardous materials, Rogers & Callcott shall, after completion of testing and at Client's expense, return such samples to Client or make such samples available for disposal by Client's agent.
8. Standard of Care and Warranty. Rogers & Callcott and its agents, employees and subcontractors shall provide services for Client using the level of care and skill ordinarily exercised by other members of the profession who provide similar services in the same locality under similar conditions. If any portion of the services fails to substantially comply with this standard of care and Client promptly notifies Rogers & Callcott in writing within one (1) month after completion of that portion of the services, Rogers & Callcott will re-perform that portion of the services, or if that is impractical, Rogers & Callcott will refund the amount of compensation paid for that portion of the services. **ROGERS AND CALLCOTT MAKES NO WARRANTIES OR GUARANTIES TO CLIENT, EXPRESS OR IMPLIED, EXCEPT AS SPECIFICALLY STATED IN THIS PARAGRAPH, AND THE REMEDIES DESCRIBED IN THIS PARAGRAPH ARE EXCLUSIVE.**
9. Limitation of Liability. The total cumulative liability of Rogers & Callcott arising out of or connected with the services provided pursuant to this Agreement shall not exceed the total fees paid by Client under this Agreement or, if less, Fifty Thousand Dollars ($50,000.00). This limitation applies to the cumulative liability of Rogers & Callcott, its agents, employees and representatives, whether arising in contract, tort (including negligence), strict liability, or otherwise. Client acknowledges that the services provided pursuant to this Agreement involve risks of liability which are not adequately compensated for by the payments Client will make under this Agreement. The consideration to Client for the limit of liability in this paragraph is specifically reflected in Rogers & Callcott's fees for services under this Agreement, which are less than Rogers & Callcott would be paid for services without this limitation of liability. **Because of this limitation of liability, Client is advised to carefully review Client's risks of liability related to this contract and to address those risks through Client's insurance or other means.**
10. Insurance. Rogers & Callcott shall maintain at its own expense the following insurance, subject to normal industry exclusions: workers' compensation insurance and employer's liability insurance; commercial general liability insurance with aggregate limits of $1,000,000; business automobile liability insurance with aggregate limits of $1,000,000; professional liability/errors and omissions insurance with aggregate limits of $1,000,000.
11. Governing Law. The validity, interpretation and performance of this Agreement shall be governed by and construed in accordance with the laws of the State of South Carolina.
12. Entire Agreement. This Agreement and any Proposal incorporated herein represent the entire understanding and agreement between the parties relating to the services to be provided hereunder, and this Agreement supersedes any and all prior negotiations, discussions and agreements, whether written or oral, between the parties. No amendment or modification to this Agreement or waiver of any of its provisions shall be effective unless in writing and signed by both parties. This Agreement shall be binding upon and inure to the benefit of Rogers & Callcott and Client and their respective successors and assigns. If a purchase order is issued, the terms of this Agreement shall govern. Any other terms agreed upon shall only supplement and not conflict with this agreement.

Alliance TECHNICAL GROUP

Sample Receipt Verification

Client: ATG Greenville ARR Date Received: 9/22/25 Work Order: 25I1280

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other: _____

Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	✓			Damaged Leaking Other:
Custody seals intact?			✓	
COC included with samples?	✓			
COC signed when relinquished and received?	✓			
Sample bottles intact?	✓			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	✓			
Date / time on COC agree with label on bottle(s)?	✓			
Number of bottles on COC agrees with number of bottles received?	✓			
Samples received within holding time?	✓			
Sample volume sufficient for analysis?	✓			
VOA vials free of headspace (<6mm bubble)?	✓			
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	✓			(Ice) Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab. Note: Samples for O&G and VOA analysis – preservation checked at bench.	✓			
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection? Note: Chlorine checked at bench for samples requiring Bacterial, VOA, and HAA analysis.	✓			

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	$NaHSO_4$ 109665-5 Methanol B400804 VB

Comments:

Were non-conformance issues noted at sample receipt? Yes or (No)

Non-Conformance issue other than noted above:

Revised March 2025

Completed by: ASD

Endangered Species

Electronic Delivery Via: rebekah_reid@fws.gov

June 23, 2026

Ms. Rebekah Reid
Consultation Biologist and Section 7 Team Lead
Asheville Ecological Field Office
U.S. Fish and Wildlife Service
160 Zillicoa Street
Asheville, NC 28801-1082

RE: Section 7 of the Endangered Species Act and State Endangered Species Act
Harkins Avenue Subdivision Development, Haywood County
North Carolina Department of Commerce, Division of Community Revitalization and the North Carolina Office of Recovery and Resiliency

Dear Ms. Reid,

The North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) is proposing to use Community Development Block Grant - Disaster Recovery funds for construction of the Harkins Avenue Subdivision Development. The project proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is located in West Canton, Haywood County, North Carolina (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: 35.540037, -82.870754). See attached Project Site Location Map.

In accordance with 24 CFR § 58.4, DCR has assumed the role of Responsible Entity, and responsibility for environmental review, decision-making, and any other action that would otherwise apply to HUD under National Environmental Policy Act (NEPA) and other provisions of law that further the purposes of NEPA, as specified in § 58.5. Based on the size, extent and potential for impacts to environmental resources, DCR is evaluating the project at an Environmental Assessment level of review per 24 CFR § 58.36.

As such, the proposed project is subject to compliance with Section 7 of the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended;16 U.S.C. 1531 to 1543), and the State Endangered Species Act (G.S. 113-331 to 113-337). The project was entered into the U.S. Fish and Wildlife Service's (USFWS) online Information for Planning and Consultation (IPaC) tool, and an Official Species List (Project Code: 2026-0068562) was generated. The project area does not overlap with any critical habitats; however, IPaC identified seven (7) threatened, endangered, or candidate species that may occur within the proposed project boundaries. Project activities were evaluated using the North Carolina Statewide Determination Key (DKey), Northern Long-eared Bat and Tricolored Bat Range-wide DKey and Indiana Bat DKey, with supporting Habitat Assessments. In cases where the DKey indicated the project 'may affect' a species, or a DKey is not currently available for the species, potential impacts of the proposed project on the species

were further evaluated and documented in the attached Species Effect Determination table. This analysis resulted in a “May Affect, Not Likely to Adversely Affect” determination for the Indiana Bat (*Myotis sodalis*), and “May Affect, Not Likely to Jeopardize” determinations for the Tricolored Bat (*Perimyotis subflavus*) and the Monarch Butterfly (*Danaus plexippus*).

With this solicitation, the DCR is requesting to consult with the U.S. Fish and Wildlife Service under section 7(a)(2) of the ESA, regarding the federally endangered Indiana Bat. Additionally, DCR would like to confer with the Service under the authority of section 7(a)(4) of the ESA, regarding the proposed endangered Tricolored Bat and the proposed threatened Monarch Butterfly. Based on the inclusion of Best Management Practices (BMPs) and measures to minimize or avoid adverse impacts to these species, we believe the project may affect but is not likely to adversely affect listed species and is not likely to jeopardize proposed species. We appreciate you taking the time to share any comments, feedback, or concerns you may have regarding the proposed project and potential impacts to any federal species of concern within your jurisdiction under the Endangered Species Act.

To facilitate compliance with these policies and expedite the review process, we respectfully request this information and/or any concerns, comments or objections related to the proposed project be submitted to helene.recovery@commerce.nc.gov within 30 days from receipt of this letter.

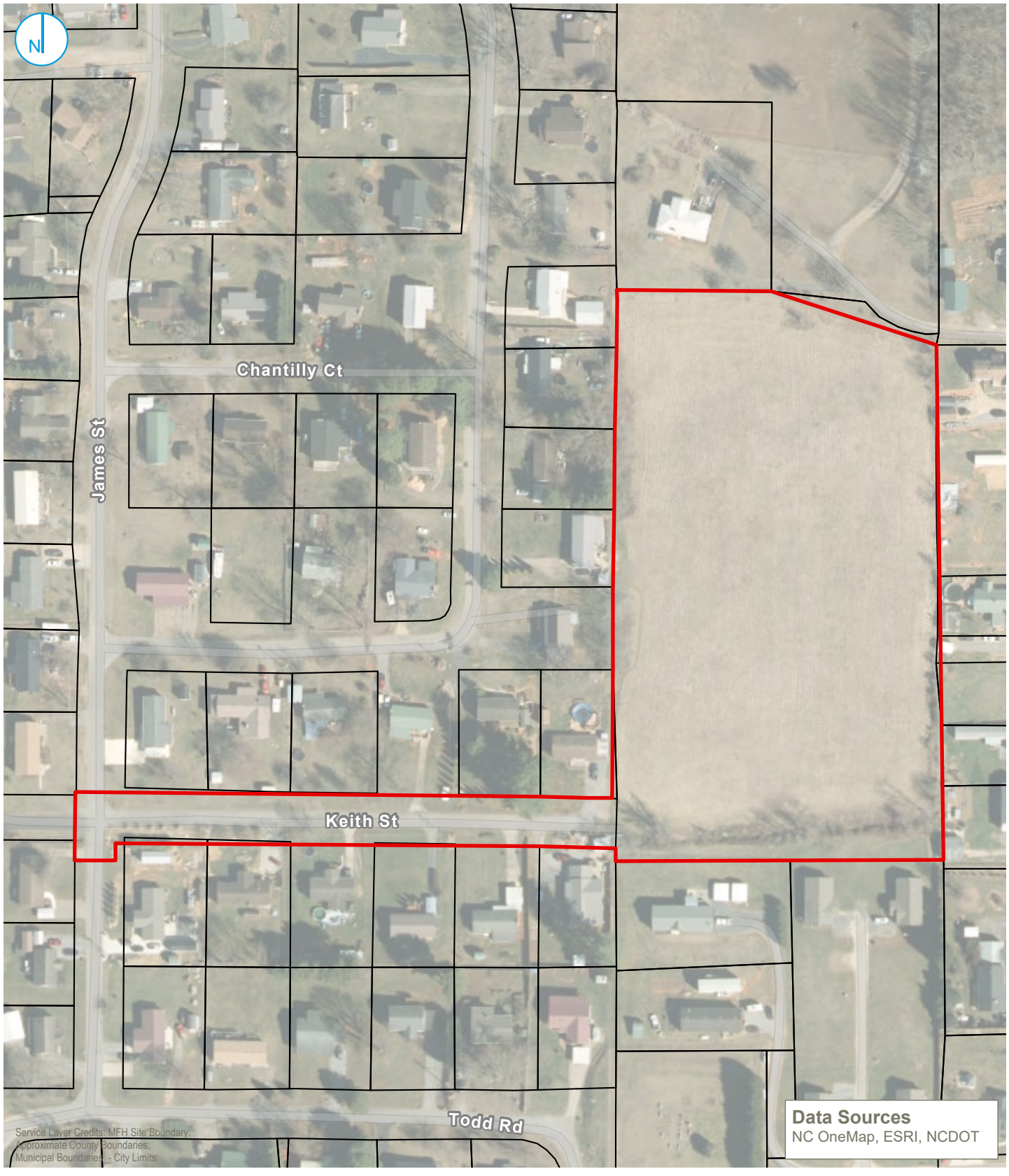
We sincerely appreciate your comments and timely response to this solicitation. Should you have any questions, please do not hesitate to email me at daniel.herrera@commerce.nc.gov.

Respectfully Yours,

Daniel Herrera Digitally signed by Daniel Herrera
Date: 2026.06.23 07:10:11 -04'00'

Daniel Herrera
Environmental Program Manager
North Carolina Department of Commerce
Division of Community Revitalization

Enclosures:
Project Site Location Map
Species Effect Determination Table



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 01 - Site Location

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Map Scale: 1:2,400 | Map Center: 82°52'19"W 35°32'23"N

KEY MAP (not to scale)

- Approximate Site Boundary
- Approximate County Boundaries
- Municipal Boundaries - City Limits
- Parcel Boundaries

0 100 200 Feet

SITE LOCATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

RAMBOLL

Threatened & Endangered Species Effect Determination

Project Name: Harkins Avenue Subdivision Development
Address: Harkins Avenue, Canton, North Carolina 28716
County: Haywood
Parcel ID(s): 8647-83-7739
Coordinates: 35.540037, -82.870754

Effect Determinations for All Species on IPaC Official Species List (Project Code: 2026-0068562)

Name	Status	Notes / Documentation	Effect Determination
MAMMALS			
Gray Bat *Myotis grisescens*	Endangered	North Carolina Statewide DKey / Habitat Assessment	No Effect
Indiana Bat *Myotis sodalis*	Endangered	Indiana Bat DKey	May Affect, Not Likely to Adversely Affect
Tricolored Bat *Perimyotis subflavus*	Proposed Endangered	Northern Long-eared Bat and Tricolored Bat Range-wide DKey See Species Effect Determination Table below.	May Affect, Not Likely to Jeopardize
AMPHIBIANS			
Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis*	Proposed Endangered	See Species Effect Determination Table below.	No Effect
CLAMS			
Appalachian Elktoe *Alasmidonta raveneliana*	Endangered	North Carolina Statewide DKey / Habitat Assessment	No Effect
INSECTS			
Monarch Butterfly *Danaus plexippus*	Proposed Threatened	See Species Effect Determination Table below.	May Affect, Not Likely to Jeopardize
FLOWERING PLANTS			
Small Whorled Pogonia *Isotria medeoloides*	Threatened	North Carolina Statewide DKey	No Effect

RAMBOLL

Effect Determinations for 'May Effect' and Species Not Covered by a DKey

Name	Status	Species Info / Habitat Description	Designated critical habitat?	Does the action area contain suitable habitat?	Was the species observed in the action area?	Determination Rationale / Minimization Measures	Effect Determination
MAMMALS							
Indiana Bat *Myotis sodalis*	Endangered	The Indiana Bat is a small, migratory, insectivorous bat. They are highly social, congregating in massive clusters during the winter and forming maternity colonies in the summer. They hibernate from October to April in limestone caves and abandoned mines with stable cool temperatures (39° - 46°F) and high humidity to prevent dehydration. Females form maternity colonies of up to 100 individuals, typically roosting under the loose, exfoliating bark of dead or living trees (e.g., Shagbark Hickory, Sycamore). Males often stay near hibernation sites and roost alone or in small groups. Suitable summer habitat for Indiana bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel. This includes forests and woodlots, linear features such as fencerows, riparian forests, and other wooded and riparian corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree (live tree and/or snag ≥5 inches diameter at breast height (dbh) that has exfoliating bark, cracks, crevices, and/or hollows) and are located within 1,000 feet of other forested/wooded habitat.	There is final critical habitat for this species; however, the project location does not overlap the critical habitat.	Potentially suitable habitat is present	No	The USFWS' Indiana Bat DKey indicated the proposed project 'may affect' the Indiana bat. Final critical habitat has been designated; however, the project does not overlap with any areas of designated critical habitat. The project impact area does not contain any caves, cave-like structures, dams, mines, quarries, culverts ≥3ft in diameter, bridges, or buildings, but does contain a few mature trees that could potentially serve as roost trees. Most of the trees on the property stand alone or in pairs and are scattered about the perimeter of the property, with one area of trees forming a loosely aggregated fencerow along the southern property boundary. Indiana bats are cavity-roosting habitat specialists that rely on trees in forested/wooded areas having exfoliating bark, cracks, crevices, and/or hollows. They prefer to forage in and around the canopy of floodplain, riparian, and upland forests, and unlike other species, Indiana bats consistently hunt in tightly connected woodland and riparian corridors, avoiding vast open spaces or large row-crop agricultural fields. There are large areas of ideal foraging and roosting habitat approximately 500-1,000 ft north and west the site, including the forested riparian corridor surrounding Patton Branch and the Pigeon River, and the tightly connected forested/wooded habitat extending south toward the property. Moving from the densely forested riparian corridor of the river toward the project site, the areas of forested/wooded habitat shrink and become discontinuous, separated by increasingly dense development. While Indiana bats could potentially be foraging in the area, it is more likely that they would be drawn away from	May Affect, Not Likely to Adversely Affect

Name	Status	Species Info / Habitat Description	Designated critical habitat?	Does the action area contain suitable habitat?	Was the species observed in the action area?	Determination Rationale / Minimization Measures	Effect Determination
						the subject property to forage and roost in the large expanses of contiguous forested/wooded and riparian habitats surrounding Patton Branch and the Pigeon River, making it extremely unlikely that Indiana bats would roost in any of the trees on the property. Therefore, it is anticipated that the project may affect but is not likely to adversely affect the Indiana Bat.	
Tricolored Bat *Perimyotis subflavus*	Proposed Endangered	During the winter, tricolored bats are found in caves and mines, although in the southern United States, where caves are sparse, tricolored bats are often found roosting in road-associated culverts. During the spring, summer and fall, tricolored bats are found in forested habitats where they roost in live and dead leaf clusters of live or recently dead deciduous hardwood trees. In addition, tricolored bats have been observed roosting during summer among pine needles, within artificial roosts like barns, beneath porch roofs, bridges, concrete bunkers, and rarely within caves. Female tricolored bats form maternity colonies and switch roost trees regularly. Males roost singly. Tricolored bats exhibit high site fidelity with many individuals returning year after year to the same hibernaculum. In the southern United States, tricolored bats remain active and feed throughout winter. Tricolored bats are opportunistic feeders and consume small insects including caddisflies, moths, beetles, wasps, flying ants and flies. They emerge early in the evening and forage at treetop level or above but may forage closer to ground later in the evening. This species of bat exhibits slow,	No critical habitat has been designated for this species.	No suitable habitat is present	No	The USFWS' Northern Long-eared Bat and Tricolored Bat Range-wide DKey indicated the proposed project 'may affect' the Tricolored bat. While no critical habitat has been designated, the project site is within the range of the Tricolored bat. The proposed impact area does not contain any caves, cave-like structures, mines, quarries, culverts ≥3ft in diameter, bridges, and buildings that could serve as potential roosting structures but does contain a few mature trees. However, based on the trees being scattered about the perimeter of the property as opposed to a stand of trees or forested area and the distance to the nearest surface water, the Pigeon River (>400 m), it is extremely unlikely that a colony of female tricolored bats would use the trees on the property as a maternity roost. It is also unlikely that a male tricolored bat would roost in these trees given the extent of far more preferrable forested, forested riparian habitat between the project site and the Pigeon River. Removal (i.e., cutting or other means of knocking down, bringing down, topping, or trimming) of suitable TCB roost trees will not occur during pup season (May 15 – July 31) when flightless young are present, during spring staging (Apr 1 – May 14) and fall swarming near hibernacula (Aug 16 – Nov 15); AND the total extent of trees to be cut, knocked down, or otherwise brought down across the entire project area will not exceed 100-acres. The project site does not contain a suitably sized waterway and is not near the edge of a forested area. The nearest	May Affect, Not Likely to Jeopardize

Name	Status	Species Info / Habitat Description	Designated critical habitat?	Does the action area contain suitable habitat?	Was the species observed in the action area?	Determination Rationale / Minimization Measures	Effect Determination
		erratic, fluttery flight, while foraging and are known to forage most commonly over waterways and forest edges.				potentially suitable foraging habitat would be the forest edges running parallel, and in close proximity to the Pigeon River, more than 400 meters north of the project site. Therefore, it is anticipated that the project may affect but is not likely to jeopardize the Tricolored Bat.	
AMPHIBIANS							
Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis*	Proposed Endangered	The Eastern Hellbender is a fully aquatic, nocturnal amphibian. They have flattened bodies and heads, small beady eyes, and prominent fleshy skin folds used for respiration. Adults lack external gills but retain a single gill slit on each side of the neck. Their diet consists almost exclusively of crayfish, supplemented occasionally by small fish and aquatic invertebrates. Breeding occurs in late summer or fall. Males excavate a nest under a large "nest rock" and guard the externally fertilized eggs (200–500 per female) for up to two months until they hatch. Found across 15 states from southern New York to northeastern Mississippi, centered primarily on the Appalachian Mountains and the Ohio and Tennessee river basins. They require perennial, cool, clear, and swift-flowing streams with high dissolved oxygen levels. Stream bottoms must have an abundance of large, flat rocks or boulders for cover and nesting.	No critical habitat has been designated for this species.	No suitable habitat is present	No	A DKey does not currently exist for the Eastern Hellbender; however, a Habitat Assessment was completed to determine the potential for the project site to provide suitable habitat. While no critical habitat has been designated, the project site is within the range of the Eastern Hellbender; however, based on conditions observed onsite, no suitable habitat is present on the subject property or within proximity of the proposed activities. The nearest potentially suitable habitat would be the Pigeon River, more than 400 meters downstream of the project site. To avoid and minimize and potential impacts to the species, silt fences, hay bales and other measures will be utilized during site prep and construction to prevent disturbed soils and debris from being deposited into the unnamed creek along the south end of the property, potentially impacting downstream water quality. With these measures in place, the proposed action is anticipated to have No Effect on the Eastern Hellbender.	No Effect

Name	Status	Species Info / Habitat Description	Designated critical habitat?	Does the action area contain suitable habitat?	Was the species observed in the action area?	Notes / Documentation Summary	Effect Determination
INSECTS							
Monarch Butterfly *Danaus Plexippus*	Proposed Threatened	Western North Carolina serves as a critical migratory corridor and mid-migration reproductive site for the eastern population of Monarch butterflies traveling from the Northeast U.S. and Canada to their overwintering grounds in Mexico. The monarchs pass through the Southern Appalachian Mountains from mid-September through early to mid-October, on their way to Mexico, the destination that marks the end of a >2,000-mile southbound migration. During fall migration, monarchs fly diurnally and roost nocturnally in aggregations. As temperatures warm at the overwintering sites in the spring, monarchs begin to breed and lay eggs on emerging milkweed throughout their spring journey (March – May). The following generations breed and lay eggs throughout the spring and summer (June – August). In the fall, a new generation of monarchs enter diapause (a state where they stop reproducing), before beginning the fall migration for the first time. Monarch habitat consists of sunny, open, pesticide-free areas featuring native milkweed and flowering plants. Adult monarchs feed on the nectar of many flowers, but they breed only where milkweeds are found. Native milkweed is frequently found in fence rows, along roadsides, in fields, and in prairies and pastures.	There is proposed critical habitat for this species; however, the project location does not overlap the critical habitat.	Yes	No	The North Carolina Statewide DKey indicated that the proposed project 'may affect' the Monarch Butterfly. The project site is located in the heart of the Monarch's Spring breeding grounds and migration path. The subject property is a classic example of an Appalachian old-field meadow comprised of a mix of native Appalachian flora, including woody shrubs and perennial wildflowers consistent with a naturalized site or forest edge in the Appalachian Mountain region. The property is very high in biodiversity, supporting everything from pollinators (via Milkweed and Goldenrod) to birds (via Sumac and White Pines). The flora is a mix of native pioneers and opportunistic field plants in three (3) predominant zones: the Open Meadow, Wooded Perimeter, and Invasive Layer. An unnamed creek is tucked into the Wooded Perimeter along the southern end of the property. The Open Meadow is dominated by wildflowers, including Queen Anne's Lace, Goldenrod, Milkweed, Ironweed and Wild Bergamot / Bee Balm, and various field grasses including Tall Fescue and Broomsedge. This area represents the largest portion of the property and is in an "old-field" successional stage. As such, suitable monarch habitat is present on the project site. To avoid and minimize impacts to the species and its habitat, project proponents will avoid initial site prep and clearing of milkweed and other native flowering plants during the Spring and Summer months (March – August) to the extent feasible. The use of pesticides and herbicides will be	May Affect, Not Likely to Jeopardize

Name	Status	Species Info / Habitat Description	Designated critical habitat?	Does the action area contain suitable habitat?	Was the species observed in the action area?	Notes / Documentation Summary	Effect Determination
						minimized during development and maintenance of common areas, to the extent feasible. The project design will incorporate natural areas planted with native milkweed and other native flowering plants to serve as replacement habitat for the Monarch butterfly. Additionally, new residents will be educated on native Monarch butterfly habitat and the harmful effects of pesticides and herbicides and encouraged to plant native flowering plants and use alternative pest and weed control methods. With these measures in place, it is anticipated that the project may affect but is not likely to jeopardize the Monarch butterfly.	

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Asheville Ecological Services Field Office
160 Zillicoa Street, Suite B
Asheville, NC 28801-1082
Phone: (828) 258-3939 Fax: (828) 258-5330

In Reply Refer To: 05/04/2026 17:26:32 UTC
Project Code: 2026-0068562
Project Name: Harkins Avenue Subdivision Development

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, and proposed species, as well as proposed and designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The enclosed species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please note that new species information can change your official species list. Under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends you visit the ECOS-IPaC website regularly during project planning and implementation to ensure your species list is accurate or obtain an updated species list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A biological assessment (BA) or biological evaluation (BE) should be completed for your project. A BA is required for major construction activities (or other undertakings having similar physical impacts) considered to be Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c))(NEPA). For projects other than major construction activities, the Service suggests that a BE be prepared to determine effects of the action and whether those effects may affect listed species and/or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it is reasonably certain to occur and would not occur “but for” the proposed action.

Recommended contents of a BA/BE are described at 50 CFR 402.12. More information and resources about project review and preparing a BA/BE can be found at the following web link: https://www.fws.gov/office/asheville-ecological-services/asheville-field-office-online-review-process-overview.

If a Federal agency determines listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. The Service is not required to concur with "no effect" determinations from Federal action agencies. If consultation is required, the Service recommends that candidate species, proposed species, proposed critical habitat, and at-risk species be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or licensed applicants, can be found in the "Endangered Species Consultation Handbook" at the following web link: https://www.fws.gov/media/endangered-species-consultation-handbook.

Conservation measures (CMs) are actions included in the project description that the action agency or the applicant commits to implementing to avoid or minimize impacts to federally threatened or endangered species from their actions. CMs are a part of the proposed action and their implementation is required under the terms of a section 7 consultation. Ultimately, the lead federal action agency (project funder, permitter, or implementer) commits to CMs, however, implementation may be passed to the applicant via permit conditions. CMs demonstrate the action agency’s commitment to imperiled species conservation and have the potential to expedite project review under the Act by eliminating or decreasing adverse impacts that would otherwise result from project implementation. Potential CMs can be found at the following web link: https://www.fws.gov/sites/default/files/documents/2025-03/2025-02-sample-conservation-measures-asheville_field_office.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Act, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). More information about MBTA and BGEPA can be found at the following web link: https://www.fws.gov/program/migratory-birds.

We appreciate your consideration of Federally listed species. The Service encourages Federal agencies to include conservation of threatened and endangered species in their project planning to further the purposes of the Act. Please contact our staff at 828-258-3939, if you have any questions. In future correspondence concerning this project, please reference the Project Code which can be found in the header of this letter.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Asheville Ecological Services Field Office
160 Zillicoa Street, Suite B
Asheville, NC 28801-1082
(828) 258-3939

PROJECT SUMMARY

Project Code: 2026-0068562
Project Name: Harkins Avenue Subdivision Development
Project Type: Residential Construction
Project Description: The project will include the construction of up to 18 single-family housing units including all associated site development and infrastructure. Infrastructure (water, storm water, sewer, utilities, internet, etc.) for the development will tie into existing utility infrastructure along Keith Street and James Street.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@35.53989145,-82.87071405250137,14z

Counties: Haywood County, North Carolina

ENDANGERED SPECIES ACT SPECIES

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Gray Bat *Myotis grisescens* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329	Endangered
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

AMPHIBIANS

NAME	STATUS
Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9039	Proposed Endangered

CLAMS

NAME	STATUS
Appalachian Elktoe *Alasmidonta raveneliana* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5039	Endangered

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

FLOWERING PLANTS

NAME	STATUS
Small Whorled Pogonia *Isotria medeoloides* Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1890	Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act [2] and the Migratory Bird Treaty Act (MBTA) [1]. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

---

1. The Bald and Golden Eagle Protection Act of 1940.
2. The Migratory Birds Treaty Act of 1918.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are Bald Eagles and/or Golden Eagles in your project area.

Measures for Proactively Minimizing Eagle Impacts
For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the National Bald Eagle Management Guidelines. You may employ the timing and activity-specific distance recommendations in this document when designing your project/ activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to Bald Eagle Nesting and Sensitivity to Human Activity.

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

If disturbance or take of eagles cannot be avoided, an incidental take permit may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the Do I Need A Permit Tool. For assistance making this determination for golden eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

Ensure Your Eagle List is Accurate and Complete

If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the Supplemental Information on Migratory Birds and Eagles, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

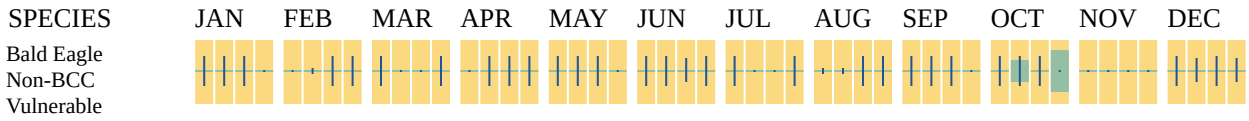
Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

■ probability of presence ■ breeding season | survey effort – no data



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) [1] prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

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1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Aug 31
Canada Warbler *Cardellina canadensis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9643	Breeds May 20 to Aug 10

NAME	BREEDING SEASON
Cerulean Warbler *Setophaga cerulea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/2974	Breeds Apr 27 to Jul 20
Chimney Swift *Chaetura pelagica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Prothonotary Warbler *Protonotaria citrea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9439	Breeds Apr 1 to Jul 31
Rusty Blackbird *Euphagus carolinus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9478	Breeds elsewhere
Wood Thrush *Hylocichla mustelina* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9431	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

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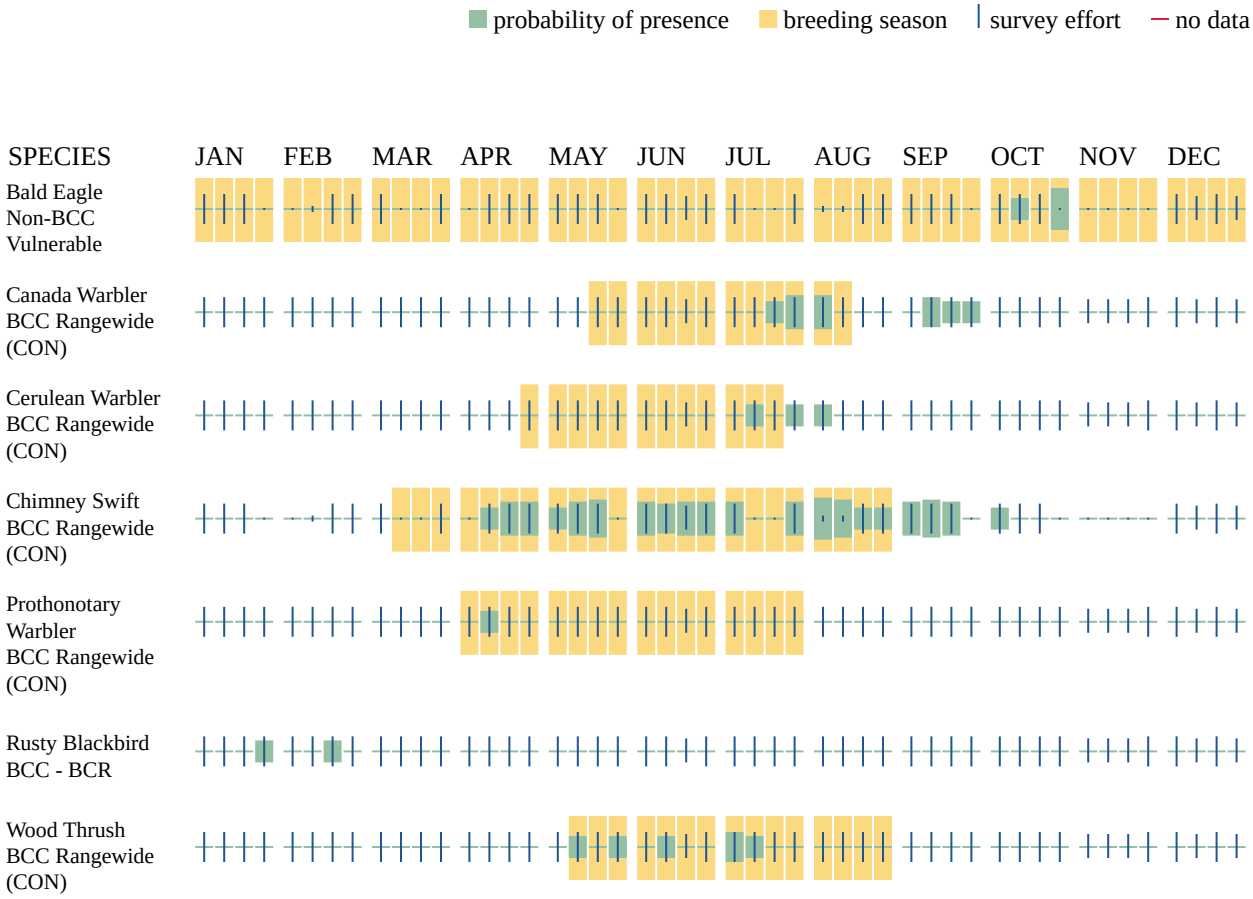

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- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

WETLANDS

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

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State: LA
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United States Department of the Interior

FISH AND WILDLIFE SERVICE
Asheville Ecological Services Field Office
160 Zillicoa Street, Suite B
Asheville, NC 28801-1082
Phone: (828) 258-3939 Fax: (828) 258-5330

In Reply Refer To: 06/12/2026 18:21:54 UTC
Project code: 2026-0068562
Project Name: Harkins Avenue Subdivision Development

Federal Nexus: yes

Federal Action Agency (if applicable): State of North Carolina

Subject: Record of project proponent’s determinations for 'Harkins Avenue Subdivision Development'.

Dear Karyn Desselle:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on June 12, 2026, for “Harkins Avenue Subdivision Development” (here forward, Project). This project has been assigned Project Code 2026-0068562 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (ESA) requirements may not be complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed IPaC and associated species’ determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq*.) and based on qualifying actions in a standing analysis. All information submitted by the federal action agency or designated representative to IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the North Carolina Ecological Services Field Offices (ESFOs) Determination Key (NC DKey) invalidates this letter. **Answers to certain questions in the NC DKey commit the federal action agency to implementation of conservation measures that must be followed for the ESA determination to remain valid.**

Determinations

Based on your answers and the assistance of the Service's North Carolina DKey, you made the following effect determination(s) for the proposed Action:

Species	Listing Status	Determination
Appalachian elktoe (*Alasmidonta raveneliana*)	Endangered	No effect
Gray bat (*Myotis grisescens*)	Endangered	No effect
Small whorled pogonia (*Isotria medeoloides*)	Threatened	No effect

Conclusion

No Effect (NE)

To make NE determinations, the full scope of the proposed Action should not have any effects (either positive or negative) on a federally listed species or designated critical habitat. Effects of the Action are all consequences to listed species or designated critical habitat that are caused by the proposed Action. A consequence is caused by the proposed Action if it would not occur but for the proposed Action, and it is reasonably certain to occur. Effects of the Action may occur later in time and may include consequences occurring outside the immediate area involved in the Action. (See § 402.17).

Under Section 7 of the ESA, if a federal action agency or designated representative makes a NE determination, no consultation with the Service is required for that species (ESA §7).

This letter confirms you may rely on effect determinations provided in the NC DKey for project review to satisfy agency consultation requirements under Section 7(a)(2) of the ESA.

Due to obligations under the ESA, potential impacts of this project must be reconsidered if: (1) new information reveals impacts of this **identified** Action may affect any listed species or critical habitat in a manner not previously considered; (2) this Action is subsequently modified in a manner which was not considered in this assessment; or (3) a new species is listed or critical habitat is designated that may be affected by the identified Action. If any of the above conditions occur, additional consultation with the Service's North Carolina ESFOs should take place before project changes are final or resources are committed.

Please note, the Service will audit NC DKey responses and outputs for accuracy and completeness. If deficiencies are found or questions arise, the Service will notify you within 30 days. No further consultation for this project is required if we do not contact you within the 30-day timeframe.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted NC DKey does **not** apply to the following ESA-protected or proposed species and/or designated or proposed critical habitat that may also occur in your Action area:

- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Indiana bat *Myotis sodalis* Endangered

- Monarch butterfly *Danaus plexippus* Proposed Threatened
- Tricolored bat *Perimyotis subflavus* Proposed Endangered

To address these resources, you may access additional determination keys in IPaC or coordinate with the North Carolina ESFOs for guidance as to whether the Action may affect the federally listed species or designated critical habitat listed above. Species or critical habitat proposed for listing are not afforded protection under the ESA, and Section 7 of the ESA does not apply. However, as soon as a listing or designation becomes effective (typically 30 days after publication of the final rule in the Federal Register), the prohibitions of the ESA will apply.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Harkins Avenue Subdivision Development

2. Description

The following description was provided for the project 'Harkins Avenue Subdivision Development':

> The project will include the construction of up to 18 single-family housing units including all associated site development and infrastructure. Infrastructure (water, storm water, sewer, utilities, internet, etc.) for the development will tie into existing utility infrastructure along Keith Street and James Street.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@35.53989145,-82.87071405250137,14z

QUALIFICATION INTERVIEW

1. As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer all questions truthfully?

   Yes

2. Is the project a federal grant, loan transfer, or federally-insured loan project request for existing structures, utilities and infrastructure that may be completed without requiring additional activities?

   Note: If your project fits this description, it may be eligible to use the Dkey "Clearance to Proceed with Federally-Insured Loan and Grant Project Requests." If you are interested in changing the Dkey, Select 'Exit Review' at the top of this screen and return to Step 2: Evaluate Determination Keys in IPaC.

   No

3. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

   No

4. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

   Yes

5. Is the lead federal action agency the Army Corps of Engineers?

   No

6. Are you the lead federal action agency or designated non-federal representative?

   Yes

7. Is the project being implemented by or for an agency that has a Programmatic Biological Opinion (PBO) issued by the U.S. Fish and Wildlife Service for the specific project type that is being proposed and species considered?

   No

8. Does this analysis include all effects of the action to listed species and their critical habitats that may result from the project in the action area?

   Yes

9. Will all project activities be located entirely within previously disturbed, urbanized, or developed areas or within areas that do not represent suitable habitat for federally protected species?

   Yes

10. Will the proposed project occur entirely within an existing road right-of-way (ROW)?

    No

11. Is the project an existing structure that requires maintenance, repair, or replacement?

    No

12. Will the project impact wetlands (directly or indirectly)?

    Yes

13. Will the project alter surface water flow, water velocity, water depth, or water quality in streams or other waterways either permanently or temporarily?

    Yes

14. Will the project alter groundwater flow, velocity, direction, quality, or discharge to streams, wetlands, or other bodies of water either permanently or temporarily?

    Yes

15. Will the proposed project involve ground disturbance (e.g., vehicles, tracked equipment, excavating, grading, placing fill material, etc.)?

    Yes

16. Will the proposed project involve earth moving or ground disturbance that could cause erosion and sedimentation, and/or contamination within 300 feet of a freshwater wetland or along a stream or tributary of a stream?

    Yes

17. Will the proposed project involve streambed disturbance?

    Yes

18. Will the proposed project include the application of pesticides or herbicides?

    No

19. Will the project have any impact to cliffs, rock outcrops, or rocks laying adjacent to rock outcrops?

    No

20. **Your project is located within the list area of at least one aquatic species. Please answer the following questions relevant to potential impacts to aquatic resources.**

    Automatically answered
    Yes

21. Will the project result in any effect to a riparian area?

    Yes

22. Was a suitable habitat assessment conducted for the **Appalachian elktoe** in the proposed area of impact and the reach of stream within 330 feet (100 m) upstream and 1313 feet (400 m) downstream?

    If a suitable habitat assessment was not conducted, presence of habitat will be assumed to be YES.

    Yes

23. Is suitable habitat present for the **Appalachian elktoe** in the action area (including the reach of stream 330 feet (100 m) upstream and 1313 feet (400m) downstream)?

    Note: Suitable habitat for the Appalachian elktoe includes 1.) cool, swift flowing perennial streams with high oxygen levels; 2.) Geomorphically stable stream channels and banks that maintain structural integrity and resist erosion; 3.) Pool, riffle, and run sequences within the channel; 4.) Stable substrates, including sand, gravel, cobble, boulders, or bedrock, with only minimal fine sediment accumulation; 5.) Moderate to high stream gradient; 6.) Periodic natural flooding; and 7.) Fish hosts, with adequate living, foraging, and spawning areas for them.

    Please upload suitable habitat assessment.

    No

    SUBMITTED DOCUMENTS

    - *Habitat Assessment_Appalachian Elktoe.pdf https://ipac.ecosphere.fws.gov/project/5MWMWQ6ZNZBWTF7XWQILGZ7L4U/projectDocuments/180669807*

24. Was a suitable habitat assessment conducted for the **gray bat** in the proposed area of impact?

    If yes, please upload suitable habitat assessment.

    Yes

    SUBMITTED DOCUMENTS

    - *Habitat Assessment_Gray Bat.pdf https://ipac.ecosphere.fws.gov/project/5MWMWQ6ZNZBWTF7XWQILGZ7L4U/projectDocuments/180771006*

25. Are there caves, cave-like structures, dams, mines, quarries, culverts (>= 3ft in diameter), bridges, or buildings suitable for roosting gray bats in the action area?

    Note: Bridges and culverts can have many characteristics suitable for bat occupation. Many bat species will take advantage of cracks, crevices, voids, and other openings within structures. These can include cracks and openings caused by structural deterioration (e.g., cracking in concrete, rusted metal, etc.) and typical spaces existing via structural design (e.g., expansion joints). Bats may also roost in the open on rough surfaces or within drain or weep holes, along guardrails, and within jersey barriers or other voids. Additionally, many bridges and culvert designs create artificial “cave-like” environments where conditions are generally stable and protect bats from adverse weather, thus allowing bats to use them for extended periods of torpor, particularly in areas where natural cave-like habitats may be limited.

    No

26. Are suitable foraging and commuting habitats present for **gray bat** in the action area?

    Note: Suitable foraging and commuting habitats for **gray bat** include large streams, rivers, open water, lakes, large wetlands, and wooded areas within 821 feet (250 meters) of these water features.

    No

DETERMINATION KEY RESULTS

1. Which Federal Agency is the lead agency for your project?

   US Department of Agriculture (USDA), including Farm Service Agency (FSA), Housing and Urban Development (HUD), and Rural Development (RD)

IPAC USER CONTACT INFORMATION

Agency: State of North Carolina
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Appalachian Elktoe Habitat Assessment

Site Context & Location: *Specifics on the study area.*

The subject site proposed for development is located in West Canton, North Carolina. The site consists of one parcel of land, identified by the Haywood County Tax Assessor as Parcel Number 8647-83-7739, totaling approximately 5.97-acres. Additional areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way.

The property is currently an undeveloped, vegetated field. Based on a review of publicly available current and historical aerial photography, the property has primarily been utilized as an agricultural field. The existing topography slopes to the south and southwest with an elevation difference estimated to be approximately 50 feet across the site. Surrounding properties generally consist of residential and agricultural developments. A small unnamed creek flows from east to west along the southern edge of the property boundary and continues along the south side of Keith Street toward Patton Branch. No apparent groundwater springs (other than the unnamed creek) or rock outcroppings were observed.

Vegetation Analysis: *Identification of plant species and land cover.*

The subject property is a classic example of an Appalachian old-field meadow comprised of a mix of native Appalachian flora, including woody shrubs and perennial wildflowers consistent with a naturalized site or forest edge in the Appalachian Mountain region. The property is very high in biodiversity, supporting everything from pollinators (via Milkweed and Goldenrod) to birds (via Sumac and White Pines). Many of these plants, like Staghorn Sumac and American Hazelnut, are also important for local wildlife, providing both food (berries and nuts) and habitat. The flora profile is a mix of native pioneers and opportunistic field plants in three (3) predominant zones: the Open Meadow, Wooded Perimeter, and Invasive Layer. The unnamed creek is tucked into the Wooded Perimeter along the southern end of the property for most of its length.

The Open Meadow (highest prevalence) is dominated by wildflowers, including Queen Anne's Lace, Goldenrod, Milkweed, Ironweed and Wild Bergamot / Bee Balm, and various field grasses including Tall Fescue and Broomsedge. This area represents the largest portion of the property and is in an "old-field" successional stage. The Wooded Perimeter is composed of dense, woody species of shrubs and trees including Staghorn Sumac Winged Sumac and American Hazelnut with an overstory of mature Pine, Oak, Poplar and Maple trees. The Invasive Layer is comprised of thick mats of Kudzu vines and Blackberry Briars. If left in its natural state, the primary change over time will be the slow "creep" of the forest edge and the invasive Kudzu toward the center of the open field.

The following plant species were identified within and along the boundary of the subject property:

Queen Anne's Lace (Daucus carota): A native wildflower, Queen Anne's Lace thrives in open, sunny conditions and is frequently found in dry fields, disturbed habitats, roadside ditches and open areas. This biennial flowers in its second season, then dies. Hollow branched flower stems grow two to four feet tall, and both the stems and leaves are covered with short, coarse hairs. The attractive, airy two- to four-inch “flower” is actually a compound flower with thousands of tiny white flowers arranged in lacy, flat-topped clusters (umbels) with a dark, purplish centers. Queen Anne’s Lace is so adaptable that many people consider it an invasive weed based on its ability to crowd out native species that can’t compete with its vigorous growth, but it is used by some native animals for food. It is also a host plant for eastern black swallowtail caterpillars and many butterflies, and adult bees and beneficial insects utilize the flower nectar.

Goldenrod (Solidago spp.): Herbaceous perennial in the Asteraceae family, native to North America. Known for bright yellow, pyramid-shaped or plume-like flower clusters which bloom from late-summer to autumn. Goldenrod is a vital late-season nectar source for pollinators, that is drought-tolerant, and grows in disturbed, dry or rich soils in sunny meadows, prairies, woodland edges and roadsides.

Common Milkweed (Asclepias syriaca): A clonal perennial forb whose individual plants grow from propagative roots. Within its range, common milkweed is found in a broad array of habitats from croplands to pastures, roadsides, ditches, and old fields. More than 450 insect species feed on the plant, including flies, beetles, ants, bees, wasps, and butterflies. It is a crucial host plant for monarch butterflies and among the most important food sources for monarch butterfly caterpillars in the northeastern and midwestern United States and is one of only three milkweed species on which the eastern monarch migration largely depends.

Ironweed (Vernonia spp.): A genus of tall, upright native perennials known for intense purple, late-summer blooms and rigid stems. Thriving in full sun and moist to average soils, these deer-resistant plants are vital pollinator, butterfly, and bird magnets. Common in prairie and woodland gardens, they grow up to 6–9 feet. They are often found growing alongside goldenrod in moist meadows.

Wild Bergamot / Bee Balm (Monarda fistulosa): A highly beneficial and highly adaptable Appalachian native, wild bergamot, thrives in all but the wettest soils. The fragrant lavender flowers of these perennial plants are a popular nectar source for pollinators and attract a wide variety of bees and butterflies, as well as occasional hummingbirds. A member of the mint family (L*amiaceae*), Bergamot has a variety of medicinal applications. Bergamot is also a host plant for the Hermit Sphinx moth (Sphinx emeritus), and the Raspberry Pyrausta (Pyrausta acrionalis).

Tall Fescue (Festuca arundinacea): A durable, deep-rooted cool-season tuft-forming perennial grass, known for its excellent heat and drought tolerance. Tall fescue has become an important, well-adapted cool season forage grass for agriculture in the US with many cultivars, and also for turf and soil conservation. This non-native grass is well adapted to the "transition zone" Mid-Atlantic and Southeastern United States and now occupies over 35,000,000 acres (140,000 km2). In addition to serving as forage and turf grass, tall fescue is sometimes planted to stabilize soil, benefiting from its robust root network and adaptability to different environments and varied soil conditions.

Broomsedge Bluestem (Andropogon virginicus): A native warm season perennial bunchgrass that grows 2 to 4 feet tall. Broomsedge bluestem grows where average rainfall is greater than 25 inches and is found throughout the eastern portion of the United States in open areas such as abandoned fields, wildflower meadows, overgrazed pastures, cutover timber sites, and rights of way. Broomsedge is a shallow rooted plant that grows in a wide variety of soils, preferring loose, sandy, moist sites with low fertility and is an indicator of low phosphorus soils. It is a larval host for the Zabulon Skipper butterfly (Poanes zabulon) and provides important cover for ground-nesting birds.

Staghorn Sumac (Rhus typhina): Native to eastern North America, the staghorn sumac is primarily found in southeastern Canada, the northeastern and midwestern United States, and the Appalachian Mountains. The staghorn sumac is a 15-30 ft., colony-forming, deciduous shrub with crooked, leaning trunks, picturesque branches and velvety twigs. Large, bright-green, alternate, pinnately-compound leaves turn vibrant red or orange in the fall. This species reaches tree size more often than related species and commonly forms thickets along forest edges. On female plants, yellow-green flowers attract honeybees in spring, followed by fuzzy, bright red berries in erect, pyramidal clusters which persist throughout winter providing winter food for many upland gamebirds, songbirds, and large and small mammals.

Winged Sumac (Rhus copallinum): Native, deciduous shrub or small tree, found in the Central and Eastern US, and all areas of North Carolina. Prefers full sun and moist to dry fertile soils but is tolerant

of a wide range of soil types including poor soil but is not very tolerant of shade or wet sites. Plants grow 20-35 ft. tall, with short, crooked trunks and open branching and often forms thickets. Glossy, dark green, pinnately compound leaves with a distinctive "winged" stalk between the leaves, turn reddish-purple in the fall. Yellowish-green flowers are succeeded by drooping, pubescent, pyramidal fruit clusters which turn dull red and persist through winter. The winged sumac is an important winter food source for many birds, mammals, and pollinators including bees, and a host plant for the Luna moth (Actias luna) as well as the Red banded hairstreak (Calycopis cecrops) butterfly.

American Hazelnut (Corylus americana): A suckering, native deciduous shrub in the Betulaceae family that may grow 9 to 12 feet tall and is found naturally in rocky woodlands, forests, hillsides, pastures, and thickets throughout the Coastal, Piedmont and Mountain regions of North Carolina. This multi-stemmed shrub blooms in the winter and early spring, producing edible nuts enclosed in leafy husks. The nuts ripen in late summer and fall, and are eaten by songbirds, ruffed grouse, quail, wild turkeys, chipmunks, black bears, foxes, white-tailed deer, skunks, and squirrels. The twigs and leaves are browsed by white-tailed deer. It is also the host plant for caterpillars of the Saturniidae moth.

Eastern White Pine (Pinus strobus): Evergreen conifer tree in the Pinaceae (pine) family with origins in the northeastern United States and Canada. Grows naturally in high, dry, sandy and rocky ridges and is tolerant of a wide range of soil conditions. It prefers full sun; moist, well-drained, fertile sandy loams; and cool, humid climates. Supports Imperial Moth (Eacles imperialis) larvae which have one brood per season and appear from April-October in the south. Adult Imperial Moths do not feed. Its white pine seeds are favored by black bears, rabbits, red squirrels, and many birds. The bark is eaten by mammals such as beavers, porcupines, rabbits, and mice. The tree also serves as a shelter for many birds and small mammals.

White Oak (Quercus alba): Large slow growing deciduous, hardwood tree in the beach (Fagaceae) family. Can grow to heights of 135 feet with an 80-foot spread but generally tops out at 80 to 100 feet. Native to the eastern United States and white oaks are usually found in forested areas of dry slopes, valleys, and ravines. The white oak prefers full sun to partial shade in coarse, deep, moist, well-drained, loamy, slightly acidic soil but is adaptable to other soil types and is fairly drought tolerant once established; however, wet sites should be avoided. Oak trees support the larval stage of a wide variety of Lepidopteran (moths). Acorns appear from September to November and are eaten by woodpeckers, blue jays, small mammals, wild turkeys, white-tailed deer, and black bears.

Boxelder Maple (Acer negundo): Deciduous tree in the maple family (Sapindaceae) with the greatest range of all the maples. In North Carolina, it grows from the upper coastal plain into the piedmont and mountain regions. The tree grows 30-50 feet tall and wide with an irregular rounded form. Tolerates most levels of light except shade, prefers moist locations, often found along waterways, flood plains and wooded areas. Members of the genus Acer support Imperial Moth (Eacles imperialis) larvae which have one brood per season and appear from April-October in the south. Adult Imperial Moths do not feed. Attracts bird and butterflies. The young plants are a food source for deer. Birds and small mammals eat the seeds.

White Mulberry (Morus alba): Mid-size, flowering tree with a rounded form and a short, crooked trunk in the mulberry family. Native to China and can reach a mature height of 50 or 60 feet with an equal spread. The plant was brought to the United States many years ago, where it naturalized in fields, forest margins, and along road throughout the country. Grows best in full sun to partial shade, in rich, moist, well-drained soils but can tolerate heat and drought, and will grow in a wide range of soils, including alkaline ones. Food source of the Bombyx mori moth (silkworms). The sweet, blackberry-like fruits that mature in June, attract songbirds and are also eaten by opossum, raccoon, fox squirrel, and gray squirrel. White-tailed deer browse on the leaves and twigs, while beavers gnaw on the wood.

Kudzu (Pueraria montana): Deciduous, woody, perennial vine in the pea family (Fabaceae) that is native to eastern Asia but was introduced in the US in the 19th century to prevent erosion, enrich soil, and provide animal forage. This invasive species is common throughout the Southeastern U.S. and often found growing along riparian areas, rights-of-way, fields and roadsides. Kudzu prefers moist, well-drained loamy soils in the full sun. Pea-like pink or purplish flowers appear from June to September. While pollinators love the nectar, Pueraria montana aggressively colonizes by growing along the ground and up and over tree and shrub canopies, killing plants by shading them out, and as such, is considered a highly invasive noxious weed in the US.

Blackberry Briars (Rubus spp.): Native, deciduous perennial shrub in the Roseaceae family, reaching 3-6 feet tall. Common in the mountains, but scarce in the Piedmont and coastal plain of North Carolina. Commonly found specifically along roadsides, in woodlands, and disturbed areas. Plants are heat tolerant but prefer partial sun and moist, highly organic soil. If planted in sites that are sunny and dry, the fruit may not develop properly without adequate rain. The white flowers are followed by edible purple-black fruits in summer that can be eaten raw or cooked. This plant provides nectar for pollinators. Excellent cover for small mammals and birds. Blooms attract pollinators. Fruits are eaten by songbirds, mammals, and black bears. During the winter, birds and small mammals eat the seeds left from rotted fruit. Dead stems are used by stem-nesting bees.

Physical Site Condition: *Evaluation of bank erosion, floodplain connectivity, and soil characteristics.*

The project site is located in the Blue Ridge Physiographic Province. The bedrock in this region is a complex crystalline formation that has been faulted and contorted by past tectonic movements. The rock has weathered to residual soils which mantle the hillsides and hilltops. The typical residual soil profile in areas not disturbed by erosion or human activities consists of clayey soils near the surface where weathering is more advanced, underlain by sandy silts and silty sands.

The boundary between soil and rock is not sharply defined, and there often is a transitional zone, termed "partially weathered rock," overlying the parent bedrock. Partially weathered rock is defined, for engineering purposes, as residual material with standard penetration resistances in excess of 100 blows per foot (bpf). Weathering is facilitated by fractures, joints, and the presence of less resistant rock types. Consequently, the profile of the partially weathered rock and hard rock is quite irregular and erratic, even over short horizontal distances. Also, it is not unusual to find lenses and boulders of hard rock and/or zones of partially weathered rock within the soil mantle, well above the general bedrock level. The upper soils along drainage features and in flood plain areas are generally water-deposited (alluvial) materials that have been eroded and washed down from adjacent higher ground. Alluvial soils are usually soft and compressible, having never been consolidated by pressures in excess of their present overburden.

A preliminary geotechnical exploration performed in July 2021 found subsurface conditions in the area generally consisted of a 4- to 8-inch-thick surface layer of roots and topsoil. Soil interpreted as fill soils composed of firm and dense clayey, very-silty sands and rock fragments within the soil matrix, were encountered at depths of between 3 feet and 6 feet below the existing ground surface. The fill soils were also noted to be very dry and generally free of organics and deleterious materials. Soil interpreted as residual soil typical of the Blue Ridge Physiographic Province was encountered below the previously described fill soil. No partially weathered rock (PWR) or rock was encountered at the depths drilled during the exploration. Although groundwater was not encountered, the soil test borings were noted to have caved at depths of between 7 feet and 10 feet below the existing ground surface. Caved conditions often indicate a groundwater level just below that depth. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with changes in the water level in the adjacent unnamed creek and associated drainage features. Normally, the highest groundwater levels occur in late winter and spring and the lowest levels occur in late summer and fall.

A small unnamed creek flows from east to west along the southern edge of the property boundary. The National Wetland Inventory (NWI) classification code for the unnamed creek is R4SBC, which defines the creek as a seasonally or intermittently flooded riverine channel with an exposed, earthy streambed, that contains flowing water only part of the year. In these habitats, surface water is present for extended periods especially early in the growing season but is absent by the end of the growing season in most years, and the water table after flooding ceases is variable, extending from saturated to the surface to a water table well below the ground surface. The lack of permanent water or an established soil profile with long-term aquatic plants is characteristic of a streambed that is completely dewatered during dry periods.

During the summer months (July 2021), when heavy rainfall and convective thunderstorms are most prevalent in the southern portion of the Appalachian Mountain region, the unnamed creek was observed to be approximately 12 inches in width and several inches in depth with a bottom consisting of grass along with scattered sand and gravel. Although not specifically tested during the preliminary geotechnical exploration, surface water runoff and drainage patterns combined with visible erosion on the western portion of the channel are indicative of soft/loose and wet alluvium soils (water-deposited) being present in this area of the subject property. While the presence of mature trees along the top of the bank (but not within the channel flow) can help stabilize the soil during the high-flow periods, significant erosion along seasonally flooded streambeds is a common challenge in the Appalachian region, where heavy storm runoff can quickly undermine unstable soil. The deep incision of the banks suggests that during "peak" times—such as the early growing season or heavy Appalachian rains—surface water is present for extended periods, consistent with the seasonal water regime where water is absent by the end of a typical cycle.

Species-Specific Requirements: *Evaluation of habitat for specific, often threatened, species, to determine habitat suitability.*

The Appalachian Elktoe lives in relatively shallow, medium-sized creeks and rivers with cool, clean, well-oxygenated, moderate- to fast-flowing water. The species is most often found in riffles, runs, and shallow flowing pools with stable, relatively silt-free, coarse sand and gravel substrate associated with cobble, boulders, and/or bedrock. Stability of the substrate appears to be critical to the Appalachian elktoe, and the species is seldom found in stream reaches with accumulations of silt or shifting sand, gravel, or cobble.

Suitable habitat for the Appalachian elktoe includes 1.) cool, swift flowing perennial streams with high oxygen levels; 2.) Geomorphically stable stream channels and banks that maintain structural integrity and resist erosion; 3.) Pool, riffle, and run sequences within the channel; 4.) Stable substrates, including sand, gravel, cobble, boulders, or bedrock, with only minimal fine sediment accumulation; 5.) Moderate to high stream gradient; 6.) Periodic natural flooding; and 7.) Fish hosts, with adequate living, foraging, and spawning areas for them.

Anthropogenic Features: *Identification of features and characteristics that may disrupt habitats.*

The unnamed creek on the subject property originates east of the subject property, northeast of the intersection of Mingus Street and Haywood Avenue, in a natural depression where rainwater and runoff collect and flow into a natural drainage channel. After traversing the southern portion of the subject property, the channel is directed into a subsurface drainage culvert as it passes along the south side of Keith Street until it transitions back to an open drainage channel approximately 200 ft east of James Street. Beyond James Street, the open channel becomes increasingly overgrown with vegetation as it meanders along the southwest side of Ridge View Drive before eventually draining into Patton Branch. These types of channels are vital for managing the heavy drainage from the surrounding Appalachian terrain. The proposed area of impact and the reaches of the stream within 100 m upstream and 400 m

downstream are very similar with regard to features, characteristics and habitat suitability including the final ~5-10 m of downstream reach, where the tributary merges into Patton Branch.

Patton Branch is a permanently flooded upper perennial stream, with substrates consisting of rock, cobbles, or gravel with occasional patches of sand. Due to the stream's high gradient and natural dissolved oxygen concentration hovering near saturation, its fauna is characteristic of running water, and there are few or no planktonic forms. While Patton Branch contains suitable habitat for the Appalachian elktoe, it comprises a very small portion of the downstream reach of the stream. The overwhelming majority of the stream's reach lacks the critical features necessary to support the species and for the habitat to be considered suitable.

Gray Bat Habitat Assessment

Site Context & Location: *Specifics on the study area.*

The subject site proposed for development is located in West Canton, North Carolina. The site consists of one parcel of land, identified by the Haywood County Tax Assessor as Parcel Number 8647-83-7739, totaling approximately 5.97-acres. Additional areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way.

The property is currently an undeveloped, vegetated field. Based on a review of publicly available current and historical aerial photography, the property has primarily been utilized as an agricultural field. The existing topography slopes to the south and southwest with an elevation difference estimated to be approximately 50 feet across the site. Surrounding properties generally consist of residential and agricultural developments. A small unnamed creek flows from east to west along the southern edge of the property boundary and continues along the south side of Keith Street toward Patton Branch. No apparent groundwater springs (other than the unnamed creek) or rock outcroppings were observed.

Vegetation Analysis: *Identification of plant species and land cover.*

The subject property is a classic example of an Appalachian old-field meadow comprised of a mix of native Appalachian flora, including woody shrubs and perennial wildflowers consistent with a naturalized site or forest edge in the Appalachian Mountain region. The property is very high in biodiversity, supporting everything from pollinators (via Milkweed and Goldenrod) to birds (via Sumac and White Pines). Many of these plants, like Staghorn Sumac and American Hazelnut, are also important for local wildlife, providing both food (berries and nuts) and habitat. The flora profile is a mix of native pioneers and opportunistic field plants in three (3) predominant zones: the Open Meadow, Wooded Perimeter, and Invasive Layer. The unnamed creek is tucked into the Wooded Perimeter along the southern end of the property for most of its length.

The Open Meadow (highest prevalence) is dominated by wildflowers, including Queen Anne's Lace, Goldenrod, Milkweed, Ironweed and Wild Bergamot / Bee Balm, and various field grasses including Tall Fescue and Broomsedge. This area represents the largest portion of the property and is in an "old-field" successional stage. The Wooded Perimeter is composed of dense, woody species of shrubs and trees including Staghorn Sumac Winged Sumac and American Hazelnut with an overstory of mature Pine, Oak, Poplar and Maple trees. The Invasive Layer is comprised of thick mats of Kudzu vines and Blackberry Briars. If left in its natural state, the primary change over time will be the slow "creep" of the forest edge and the invasive Kudzu toward the center of the open field.

The following plant species were identified within and along the boundary of the subject property:

Queen Anne's Lace (Daucus carota): A native wildflower, Queen Anne's Lace thrives in open, sunny conditions and is frequently found in dry fields, disturbed habitats, roadside ditches and open areas. This biennial flowers in its second season, then dies. Hollow branched flower stems grow two to four feet tall, and both the stems and leaves are covered with short, coarse hairs. The attractive, airy two- to four-inch “flower” is actually a compound flower with thousands of tiny white flowers arranged in lacy, flat-topped clusters (umbels) with a dark, purplish centers. Queen Anne’s Lace is so adaptable that many people consider it an invasive weed based on its ability to crowd out native species that can’t compete with its vigorous growth, but it is used by some native animals for food. It is also a host plant for eastern black swallowtail caterpillars and many butterflies, and adult bees and beneficial insects utilize the flower nectar.

Goldenrod (Solidago spp.): Herbaceous perennial in the Asteraceae family, native to North America. Known for bright yellow, pyramid-shaped or plume-like flower clusters which bloom from late-summer to autumn. Goldenrod is a vital late-season nectar source for pollinators, that is drought-tolerant, and grows in disturbed, dry or rich soils in sunny meadows, prairies, woodland edges and roadsides.

Common Milkweed (Asclepias syriaca): A clonal perennial forb whose individual plants grow from propagative roots. Within its range, common milkweed is found in a broad array of habitats from croplands to pastures, roadsides, ditches, and old fields. More than 450 insect species feed on the plant, including flies, beetles, ants, bees, wasps, and butterflies. It is a crucial host plant for monarch butterflies and among the most important food sources for monarch butterfly caterpillars in the northeastern and midwestern United States and is one of only three milkweed species on which the eastern monarch migration largely depends.

Ironweed (Vernonia spp.): A genus of tall, upright native perennials known for intense purple, late-summer blooms and rigid stems. Thriving in full sun and moist to average soils, these deer-resistant plants are vital pollinator, butterfly, and bird magnets. Common in prairie and woodland gardens, they grow up to 6–9 feet. They are often found growing alongside goldenrod in moist meadows.

Wild Bergamot / Bee Balm (Monarda fistulosa): A highly beneficial and highly adaptable Appalachian native, wild bergamot, thrives in all but the wettest soils. The fragrant lavender flowers of these perennial plants are a popular nectar source for pollinators and attract a wide variety of bees and butterflies, as well as occasional hummingbirds. A member of the mint family (L*amiaceae*), Bergamot has a variety of medicinal applications. Bergamot is also a host plant for the Hermit Sphinx moth (Sphinx emeritus), and the Raspberry Pyrausta (Pyrausta acrionalis).

Tall Fescue (Festuca arundinacea): A durable, deep-rooted cool-season tuft-forming perennial grass, known for its excellent heat and drought tolerance. Tall fescue has become an important, well-adapted cool season forage grass for agriculture in the US with many cultivars, and also for turf and soil conservation. This non-native grass is well adapted to the "transition zone" Mid-Atlantic and Southeastern United States and now occupies over 35,000,000 acres (140,000 km2). In addition to serving as forage and turf grass, tall fescue is sometimes planted to stabilize soil, benefiting from its robust root network and adaptability to different environments and varied soil conditions.

Broomsedge Bluestem (Andropogon virginicus): A native warm season perennial bunchgrass that grows 2 to 4 feet tall. Broomsedge bluestem grows where average rainfall is greater than 25 inches and is found throughout the eastern portion of the United States in open areas such as abandoned fields, wildflower meadows, overgrazed pastures, cutover timber sites, and rights of way. Broomsedge is a shallow rooted plant that grows in a wide variety of soils, preferring loose, sandy, moist sites with low fertility and is an indicator of low phosphorus soils. It is a larval host for the Zabulon Skipper butterfly (Poanes zabulon) and provides important cover for ground-nesting birds.

Staghorn Sumac (Rhus typhina): Native to eastern North America, the staghorn sumac is primarily found in southeastern Canada, the northeastern and midwestern United States, and the Appalachian Mountains. The staghorn sumac is a 15-30 ft., colony-forming, deciduous shrub with crooked, leaning trunks, picturesque branches and velvety twigs. Large, bright-green, alternate, pinnately-compound leaves turn vibrant red or orange in the fall. This species reaches tree size more often than related species and commonly forms thickets along forest edges. On female plants, yellow-green flowers attract honeybees in spring, followed by fuzzy, bright red berries in erect, pyramidal clusters which persist throughout winter providing winter food for many upland gamebirds, songbirds, and large and small mammals.

Winged Sumac (Rhus copallinum): Native, deciduous shrub or small tree, found in the Central and Eastern US, and all areas of North Carolina. Prefers full sun and moist to dry fertile soils but is tolerant

of a wide range of soil types including poor soil but is not very tolerant of shade or wet sites. Plants grow 20-35 ft. tall, with short, crooked trunks and open branching and often forms thickets. Glossy, dark green, pinnately compound leaves with a distinctive "winged" stalk between the leaves, turn reddish-purple in the fall. Yellowish-green flowers are succeeded by drooping, pubescent, pyramidal fruit clusters which turn dull red and persist through winter. The winged sumac is an important winter food source for many birds, mammals, and pollinators including bees, and a host plant for the Luna moth (Actias luna) as well as the Red banded hairstreak (Calycopis cecrops) butterfly.

American Hazelnut (Corylus americana): A suckering, native deciduous shrub in the Betulaceae family that may grow 9 to 12 feet tall and is found naturally in rocky woodlands, forests, hillsides, pastures, and thickets throughout the Coastal, Piedmont and Mountain regions of North Carolina. This multi-stemmed shrub blooms in the winter and early spring, producing edible nuts enclosed in leafy husks. The nuts ripen in late summer and fall, and are eaten by songbirds, ruffed grouse, quail, wild turkeys, chipmunks, black bears, foxes, white-tailed deer, skunks, and squirrels. The twigs and leaves are browsed by white-tailed deer. It is also the host plant for caterpillars of the Saturniidae moth.

Eastern White Pine (Pinus strobus): Evergreen conifer tree in the Pinaceae (pine) family with origins in the northeastern United States and Canada. Grows naturally in high, dry, sandy and rocky ridges and is tolerant of a wide range of soil conditions. It prefers full sun; moist, well-drained, fertile sandy loams; and cool, humid climates. Supports Imperial Moth (Eacles imperialis) larvae which have one brood per season and appear from April-October in the south. Adult Imperial Moths do not feed. Its white pine seeds are favored by black bears, rabbits, red squirrels, and many birds. The bark is eaten by mammals such as beavers, porcupines, rabbits, and mice. The tree also serves as a shelter for many birds and small mammals.

White Oak (Quercus alba): Large slow growing deciduous, hardwood tree in the beach (Fagaceae) family. Can grow to heights of 135 feet with an 80-foot spread but generally tops out at 80 to 100 feet. Native to the eastern United States and white oaks are usually found in forested areas of dry slopes, valleys, and ravines. The white oak prefers full sun to partial shade in coarse, deep, moist, well-drained, loamy, slightly acidic soil but is adaptable to other soil types and is fairly drought tolerant once established; however, wet sites should be avoided. Oak trees support the larval stage of a wide variety of Lepidopteran (moths). Acorns appear from September to November and are eaten by woodpeckers, blue jays, small mammals, wild turkeys, white-tailed deer, and black bears.

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White Mulberry (Morus alba): Mid-size, flowering tree with a rounded form and a short, crooked trunk in the mulberry family. Native to China and can reach a mature height of 50 or 60 feet with an equal spread. The plant was brought to the United States many years ago, where it naturalized in fields, forest margins, and along road throughout the country. Grows best in full sun to partial shade, in rich, moist, well-drained soils but can tolerate heat and drought, and will grow in a wide range of soils, including alkaline ones. Food source of the Bombyx mori moth (silkworms). The sweet, blackberry-like fruits that mature in June, attract songbirds and are also eaten by opossum, raccoon, fox squirrel, and gray squirrel. White-tailed deer browse on the leaves and twigs, while beavers gnaw on the wood.

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Species-Specific Requirements: *Evaluation of habitat for specific, often threatened, species, to determine habitat suitability.*

The Gray Bat has a relatively small range compared to other bat species, occurring only from IL and OK eastward to WV, western NC, and northern FL. Over nearly all of its range, this species is more closely tied to caves at all seasons than are other bats, and it is especially habitat-specific, favoring limestone caves with creeks flowing through them. While primarily cave-dwellers, in North Carolina, they have been identified using bridges as maternity roots (often in expansion joints over water), with colonies found in the French Broad River Basin, highlighting a shift in habitat use. In 2016, the North Carolina Wildlife Resources Commission identified seven (7) bridges used as roosts in Western North Carolina. Additionally, NCDOT conducted a 2-year study (released October 2020) that identified a total of thirty-seven (37) gray bat roosts in the NC portion of the French Broad River Basin; most were bridges, with some culverts, buildings, and live trees. The study also found that most gray bats tend to fly along waterways, especially close to roosts in Asheville, Canton, and Marshall, and along the downstream portion of the French Broad River in the basin. Gray bats were not detected in NC during winter, but they arrived by mid-March and depart September–November. Acoustic data showed the bats were active all over the French Broad River basin but most active close to two maternal caves in TN: RC and CCC. Additionally, temperature measurements showed that both culverts and bridges could be suitable roosts during summer, and that large culverts are potentially suitable as winter habitat.

Suitable roosting habitats for the gray bat include caves, cave-like structures, dams, mines, quarries, culverts (>= 3ft in diameter), bridges, and suitable buildings, especially when located within two miles of rivers, streams, or lakes. Bridges and culverts can have many characteristics suitable for bat occupation. Many bat species will take advantage of cracks, crevices, voids, and other openings within structures. These can include cracks and openings caused by structural deterioration (e.g., cracking in concrete, rusted metal, etc.) and typical spaces existing via structural design (e.g., expansion joints). Bats may also roost in the open on rough surfaces or within drain or weep holes, along guardrails, and within jersey barriers or other voids. Additionally, many bridges and culvert designs create artificial

“cave-like” environments where conditions are generally stable and protect bats from adverse weather, thus allowing bats to use them for extended periods of torpor, particularly in areas where natural cave-like habitats may be limited.

Gray bats can migrate long distances. They generally forage over water and nearby riparian vegetation, from treetop height down to two meters above ground. Rivers serve as the main foraging and commuting areas, but gray bats also use lakes, streams, and ponds. The NCDOT study found that gray bats mainly foraged along the two major streams (French Broad River and Pigeon River) but also foraged on smaller streams and nearby areas. The bats were tracked foraging along the French Broad River from south of US-64 and at various locations north along the river all the way up into Tennessee. Based on tracking data, the bats foraged an average of 377 meters from major streams, and 480 meters from other streams/water bodies.

Suitable foraging and commuting habitats for gray bats include large streams, rivers, open water, lakes, large wetlands, and wooded areas within 821 feet (250 meters) of these water features. Gray bats typically forage over water for insects, including caddisflies, moths, stoneflies, mayflies, flying beetles, true flies, and moths. The Asiatic oak weevil is a favorite summertime food, when it is abundant in forested cliffs along rivers.

Anthropogenic Features: *Identification of features and characteristics that may disrupt habitats.*

Gray bats’ capacity for using anthropogenic structures such as bridges, culverts, and buildings may allow them to roost and forage beyond the areas where they might be expected based on karst topography (i.e. Western NC). Although the exact locations are not disclosed, the NCDOT study identified multiple gray bat roosts in Canton and West Canton and recorded gray bats foraging along the Pigeon River.

The proposed impact area does not contain any caves, cave-like structures, dams, mines, quarries, culverts 3ft in diameter or larger, bridges, and buildings that could serve as potential roosting structures; but does contain a few mature trees. The NCDOT study identified two (2) atypical cases of bats roosting in live sycamore trees. In both cases, the bats selected mature, live sycamore trees on the banks of the French Broad River and used them as secondary roosts for 1-2 days. Gray bats are cave-dwelling bats which have a tendency to roost in extremely large colonies. Considering that none of the trees scattered about the perimeter of the property were sycamore trees and the distance to the nearest surface water, the Pigeon River (>450 m), it is extremely unlikely that gray bats would use the trees on the property to roost, even for only a brief period as a secondary roost.

The small unnamed ephemeral creek traverses the south end of the subject property. The creek originates east of the subject property, in a natural depression where rainwater and runoff collect and flow into a narrow natural drainage channel. After traversing the southern portion of the subject property, the channel is directed into a small subsurface drainage culvert (<2 ft diameter), as it passes along the south side of Keith Street until it transitions back to an open drainage channel approximately 200 ft east of James Street. The creek passes through another small culvert beneath James Street (<2 ft diameter) and then back to a narrow open channel. A short distance later, the open channel becomes increasingly overgrown with vegetation as it meanders along the southwest side of Ridge View Drive before eventually draining into Patton Branch.

Patton Branch (NWI Classification R3UBH) is a permanently flooded upper perennial riverine wetland, with an unconsolidated bottom. Patton Branch is characterized by a high gradient (compared to the lower perennial subsystem), high level of natural dissolved oxygen, continuously flowing water, substrates consisting of rock, cobbles, or gravel with occasional patches of sand, and less than 30% vegetative cover. Due to the high gradient and natural dissolved oxygen concentration hovering near saturation, its fauna is characteristic of running water, and there are few or no planktonic forms. Patton

Branch flows away from the subject property in a northwesterly direction and eventually drains into the Pigeon River.

Based on proximity to the Pigeon River (immediately adjacent) and sharing a contiguous riparian vegetation, Patton Branch and the downstream reaches of the unnamed creek west of James Street, would be considered suitable foraging habitat for the gray bat; however, the upstream portion of the creek east of James Street and the proposed impact area are between 460 and 560 meters from the nearest sufficiently sized surface water (Pigeon River) and lack riparian vegetation, which are key components of suitable habitat. Although gray bats are likely to be foraging in the area, they are likely to be drawn away from the subject property to forage by the large expanses of suitable habitat, specifically, riparian areas between the impact area and the Pigeon River. The project impact area lacks the sufficient critical habitat components necessary to support the species and for the habitat to be considered suitable.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
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In Reply Refer To: 05/11/2026 16:12:35 UTC
Project code: 2026-0068562
Project Name: Harkins Avenue Subdivision Development

Subject: Technical Assistance letter for the project named 'Harkins Avenue Subdivision Development' for the endangered Indiana bat and its critical habitat in the proposed project location, pursuant to the Indiana Bat Determination Key (DKey)

Dear Karyn Desselle:

The U.S. Fish and Wildlife Service (Service) received on **May 11, 2026** your effect determination(s) for the 'Harkins Avenue Subdivision Development' using the Indiana Bat DKey within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

You have agreed to the following conservation measures:

- The project proponent will implement all Best Management Practices associated with applicable federal and/or state permits during construction to minimize sedimentation in streams.

Based on your answers and the assistance of the Service's Indiana Bat DKey, you made the following effect determination(s) for the proposed Action:

Species	Listing Status	Determination
Indiana Bat (*Myotis sodalis*)	Endangered	May affect

Consultation Status

May Affect Determinations: Species with May Affect determinations are those for which the DKey was unable to provide a conclusion or those for which you were either unsure about the determination or you chose to make a "may affect" determination. If the DKey was unable to provide a conclusion, this does not necessarily mean that the project is likely to adversely affect the species. If you think the project may affect the species or want additional technical assistance, please follow the instructions in the "Additional Coordination" section below. If a federal action agency chooses to make a "no effect" determination for the species, there is no

statutory requirement to request concurrence with that determination; however, the federal action agency should document the supporting information for this determination in their files. This documentation would typically demonstrate a lack of suitable habitat within the action area, show that no impacts to suitable habitat would occur, or provide information that the species is not reasonably certain to occur in the action area even though suitable habitat is present.

In addition to the Indiana bat, the following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Appalachian Elktoe *Alasmidonta raveneliana* Endangered
- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Gray Bat *Myotis grisescens* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Small Whorled Pogonia *Isotria medeoloides* Threatened
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

To address effects to other federally listed or proposed species and/or their designated critical habitat, you can request project-specific review by following the instructions in the “Next Steps” section of your species list letter, or you may use another determination key, if available.

Additional Coordination

To request additional technical assistance or consultation, please contact the Asheville Ecological Services Field Office at 828-258-3939 . When you contact the office, please provide all relevant site-specific information regarding the proposed Action. The Asheville Ecological Services Field Office will respond within 30 to 60 days of your submittal.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Harkins Avenue Subdivision Development

2. Description

The following description was provided for the project 'Harkins Avenue Subdivision Development':

> The project will include the construction of up to 18 single-family housing units including all associated site development and infrastructure. Infrastructure (water, storm water, sewer, utilities, internet, etc.) for the development will tie into existing utility infrastructure along Keith Street and James Street.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@35.53989145,-82.87071405250137,14z

QUALIFICATION INTERVIEW

1. Does the project intersect the Indiana bat species list area?

   Automatically answered
   Yes

2. Will the proposed action involve Federal funding, permitting, or authorization, or will it be carried out by a Federal Agency?

   Yes

3. Does the proposed action include a communication tower requiring Federal Communication Commission (FCC) authorization or approval?

   No

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead Federal Agency for this action?

   No

5. Are you the lead Federal Action Agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

   Yes

6. Will the proposed Action involve construction or operation of a wind turbines?

   No

7. Will the proposed Action involve blasting, other than a fireworks display?

   No

8. Will the proposed Action involve a new point source discharge from a facility other than a water treatment plant or storm water system?

   No

9. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

   Note: For information regarding NSF/ANSI 60 please visit https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects

   No

10. Will the proposed Action include the removal, replacement, repair and/or maintenance of an existing bridge?

    No

11. Will the proposed Action involve perennial stream loss that would require an individual permit under 404 of the Clean Water Act?

    No

12. Will the proposed Action involve discharge of sediment into a stream?

    Yes

13. Will the project proponent implement all Best Management Practices associated with applicable state and/or federal permits to minimize sedimentation in streams?

    Yes

14. Does the Action Area contain any caves (including their associated sinkholes, fissures, or other karst features), rockshelters, underground quarries, or abandoned mine portals (including associated underground workings)?

    No

15. Will the proposed project result in the removal of trees?

    Yes

16. Did a **FWS-approved** habitat model applicable to the project site determine the project site to be of low probability for use by Indiana bats?

    Note: This question will most commonly be answered "no." If the answer to this question is "yes", you will be required to upload your **Habitat Model Report**

    No

17. Will the proposed project result in the removal of potentially suitable summer habitat for the Indiana bat?

    Suitable summer habitat for Indiana bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel. This includes forests and woodlots, linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree (live tree and/or snag ≥5 inches diameter at breast height (dbh) (12.7 centimeter) that has exfoliating bark, cracks, crevices, and/or hollows) and are located within 1,000 feet (305 meters) of other forested/wooded habitat. See the Indiana Bat and Northern Long-eared Bat Survey Guidelines for additional description (https://www.fws.gov/library/collections/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines).

    Note: If "no" upload a document with photos representative of the forested habitat to be removed.

    Yes

18. Does the action area intersect known Indiana bat habitat in Kentucky?

    Automatically answered
    No

19. Will the proposed Action remove any suitable (primary or alternate) Indiana bat roost trees? *Suitable Indiana bat roost trees are live trees and/or snags ≥5 inches diameter at breast height (dbh) (12.7 centimeter) that have exfoliating bark, cracks, crevices, and/or hollows.*

    Note: If "no" upload a document with photos representative of the forested habitat to be removed.

    Yes

20. Will the proposed Action remove any suitable primary roost trees?

    Suitable Indiana bat primary maternity roost tree refers to a dead tree or snag that is nine inches or greater in diameter at breast height and has loose or exfoliating bark, cracks, crevices, and/or hollows. A live tree may also qualify if it contains hollows or dead portions with loose or exfoliating bark, cracks, and/or crevices.

    Note: If "no" upload a document with photos representative of the forested habitat to be removed.

    Yes

21. If appropriate, would you like to conduct a voluntary emergence survey to determine if bats are using all of the suitable roost trees proposed for removal? *Emergence surveys require a surveyor to observe each suitable roost tree for the presence of bats. Surveys should follow the protocol in Appendix E in the USFWS' current Indiana Bat and Northern Long-eared Bat Survey Guidelines at https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.*

    No

22. Would you like to conduct a voluntary summer presence/absence survey (netting or acoustic) of the project area?

    Note: If "yes" upload a survey proposal for the Field Office to review. Surveys should be conducted in accordance with the USFWS' current Indiana Bat and Northern Long-eared Bat Survey Guidelines, found at https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines

    No

IPAC USER CONTACT INFORMATION

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
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In Reply Refer To: 06/12/2026 17:59:35 UTC
Project code: 2026-0068562
Project Name: Harkins Avenue Subdivision Development

Federal Nexus: yes
Federal Action Agency (if applicable): State of North Carolina

Subject: Technical assistance for 'Harkins Avenue Subdivision Development'

Dear Karyn Desselle:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on June 12, 2026, for 'Harkins Avenue Subdivision Development' (here forward, Project). This project has been assigned Project Code 2026-0068562 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements are not complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project. **Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter.**

Determination for the Northern Long-Eared Bat and Tricolored Bat

Based on your IPaC submission and a standing analysis completed by the Service, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Tricolored bat (*Perimyotis subflavus*)	Proposed Endangered	May affect

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate. Projects that receive a may affect determination for tricolored bat through the key, should contact the appropriate Ecological Services Field Office if they want to conference on this species.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Appalachian elktoe *Alasmidonta raveneliana* Endangered
- Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* Proposed Endangered
- Gray bat *Myotis grisescens* Endangered
- Indiana bat *Myotis sodalis* Endangered
- Monarch butterfly *Danaus plexippus* Proposed Threatened
- Small whorled pogonia *Isotria medeoloides* Threatened

You may coordinate with our Office to determine whether the Action may cause prohibited take of the species listed above.

Conclusion

Consultation with the Service is not complete. Further consultation or coordination with the Service is necessary for those species or designated critical habitats with a determination of “May Affect.” A “May Affect” determination in this key indicates that the project, as entered, is not consistent with the questions in the key. Not all projects that reach a “May Affect” determination are anticipated to result in adverse impacts to listed species. These projects may result in a “No Effect”, “May Affect, Not Likely to Adversely Affect”, or “May Affect, Likely to Adversely Affect” determination depending on the details of the project. Please contact our Asheville Ecological Services Field Office to discuss methods to avoid or minimize potential adverse effects to those species or designated critical habitats.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Harkins Avenue Subdivision Development

2. Description

The following description was provided for the project 'Harkins Avenue Subdivision Development':

> The project will include the construction of up to 18 single-family housing units including all associated site development and infrastructure. Infrastructure (water, storm water, sewer, utilities, internet, etc.) for the development will tie into existing utility infrastructure along Keith Street and James Street.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@35.53989145,-82.87071405250137,14z

DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect” for a least one species covered by this determination key.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

   Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

   No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

   Automatically answered
   No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

   Automatically answered
   No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

   No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

   Note for projects in Pennsylvania: Projects requiring authorization under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act would be considered as having a federal nexus. Since the U.S. Army Corps of Engineers (Corps) has issued the Pennsylvania State Programmatic General Permit (PASPGP), which may be verified by the PA Department of Environmental Protection or certain Conservation Districts, the need to receive a Corps authorization to perform the work under the PASPGP serves as a federal nexus. As such, if proposing to use the PASPGP, you would answer ‘yes’ to this question.

   Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

   No

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

   Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

   Yes

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

   No

9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

   No

10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum or winter roost? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

    Automatically answered

    No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

    No

12. Does the action area contain (1) talus or (2) anthropogenic or naturally formed rock shelters or crevices in rocky outcrops, rock faces or cliffs?

    No

13. Is the action located in New England (CT, MA, ME, NH, RI, or VT)?

    No

14. Will the action cause effects to a bridge?

    Note: Covered bridges should be considered as bridges in this question.

    No

15. Will the action result in effects to a culvert or tunnel at any time of year?

    Yes

16. Does the culvert or tunnel equal or exceed 23 feet (7.0 meters) in length?

    Yes

17. Do the interior dimensions of the culvert or tunnel **equal or exceed 3.0 feet (0.9 meters) in height (minimum height for tricolored bat)**?

    No

18. Are trees present within 1000 feet of the action area? **Note:** If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines.

    Yes

19. Does the action include the intentional exclusion of bats from a building or building-like structure? **Note:** Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

    No

20. Does the action involve removal, modification, or maintenance of a human-made building-like structure (barn, house, or other building) **known or suspected to contain roosting bats?**

    No

21. Will the action cause construction of one or more new roads open to the public?

    For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

    Yes

22. Will any new road go through any area of contiguous forest that is greater than or equal to 10 acres in total extent? **Note:** If forested areas exist in the project area, but will be removed as part of the project, contiguous forest areas should only be considered if roads will cross through forest patches that are remaining on the landscape after tree cutting activities have been conducted. "Contiguous forest" of 10 acres or more may include areas where multiple forest patches are separated by less than 1,000 feet of non-forest if the forested patches, added together, comprise at least 10 acres.

    No

23. Will any new road pass between two patches of contiguous forest that are each greater than or equal to 10 acres in extent and are separated by less than 1,000 feet? Bats may cross a road by flying between forest patches that are up to 1,000 feet apart. **Note:** If forested areas exist in the project area, but will be removed as part of the project, contiguous forest areas should only be considered if roads will cross through forest patches that are remaining on the landscape after tree cutting activities have been conducted. "Contiguous forest" of 10 acres or more may include areas where multiple forest patches are separated by less than 1,000 feet of non-forested area if the forested patches, added together, comprise at least 10 acres.

    No

24. Will the action include or cause any construction or other activity that is reasonably certain to increase average night-time traffic permanently or temporarily on one or more existing roads? **Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.). .

    Yes

25. Will the increased vehicle traffic occur on any road that lies between any two areas of contiguous forest that are each greater than or equal to 10 acres in extent and are separated by less than 1,000 feet? Bats may cross a road by flying between forest patches that are up to 1,000 feet apart. **Note:** If forested areas exist in the project area, but will be removed as part of the project, contiguous forest areas should only be considered if roads will cross through forest patches that are remaining on the landscape after tree cutting activities have been conducted. "Contiguous forest" of 10 acres or more may include areas where multiple forest patches are separated by less than 1,000 feet of non-forested area if the forested patches, added together, comprise at least 10 acres.

    No

26. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

    Note: For information regarding NSF/ANSI 60 please visit https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects

    No

27. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

    No

28. Will the action include drilling or blasting?

    No

29. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use at night)?

    No

30. Will the proposed action involve the use of herbicides or pesticides (e.g., fungicides, insecticides, or rodenticides)?

    No

31. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season? Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining. **Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines.

    No

32. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable forested northern long-eared bat or tricolored bat roosting habitat? **Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines.

    Yes

33. Will the action cause an increase in the extent of suitable forested habitat exposed to artificial lighting?

    Yes

34. Will the action use only downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting) when installing new or replacing existing permanent lights?

    Or for those transportation agencies using the Backlight, Uplight, Glare (BUG) system developed by the Illuminating Engineering Society, will all three ratings (backlight, uplight, and glare) be as close to zero as is possible, with a priority of "uplight" of 0?

    Yes

35. Will the action direct any temporary lighting away from suitable northern long-eared bat or tricolored bat roosting habitat when bats may be present?

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    Yes

36. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

    Yes

37. Is the project related to the production of coal, including projects that support the mining of coal, as well as the production and/or distribution of energy produced from coal?

    No

38. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

    No

39. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

    Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property.

    No

40. Does the project intersect with the 0- 9.9% forest density category?

    Automatically answered
    No

41. Does the project intersect with the 10.0- 19.9% forest density category map?

    Automatically answered
    No

42. Does the project intersect with the 20.0- 29.9% forest density category map?

    Automatically answered
    No

43. Does the project intersect with the 30.0- 100% forest density category map?

    Automatically answered
    Yes

44. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 100 acres in total extent?

    No

45. Will the proposed action result in the use of prescribed fire?

    Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

    No

46. Does the action area intersect the tricolored bat species list area?

    Automatically answered
    Yes

47. Is the action area located within 0.5-mile of radius of an entrance/opening to any known tricolored bat hibernacula or winter roost?

    Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state wildlife agency.

    Automatically answered
    No

48. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

49. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities? (If unsure, answer ""Yes."") **Note:** If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines.

    Yes

50. Do you have any documents that you want to include with this submission?

    No

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

0.3

If tree cutting will be part of the proposed action, at what time of year will tree cutting be conducted?

Currently unknown.

Can the proposed action be modified to ensure that tree cutting will be conducted outside of the season when bats will be present and roosting in trees?

Removal (i.e., cutting or other means of knocking down, bringing down, topping, or trimming) of suitable TCB roost trees will not occur during pup season (May 15 – July 31) when flightless young are present, during spring staging (Apr 1 – May 14) and fall swarming near hibernacula (Aug 16 – Nov 15); AND the total extent of trees to be cut, knocked down, or otherwise brought down across the entire project area will not exceed 100-acres.

IPAC USER CONTACT INFORMATION

Agency: State of North Carolina
Name: Karyn Desselle
Address: 8235 YMCA Plaza Drive, Suite 300
City: Baton Rouge
State: LA
Zip: 70810
Email kdesselle@ramboll.com
Phone: 2254082841

From:	Reid, Rebekah N
To:	Karyn Desselle
Cc:	daniel.herrera@commerce.nc.gov; helene.recovery
Subject:	Harkins Avenue Residential Development in Canton, Haywood Co, NC (Log No. 26-618)
Date:	Wednesday, July 1, 2026 8:42:47 AM

Karyn:

Project received: June 23, 2026

Authorities: National Environmental Policy Act and section 7 of the Endangered Species Act of 1973, as amended (Act)

Project Description: According to the information provided, an unknown project proponent proposes to construct a residential development and associated infrastructure on approximately 6 acres off Harkins Avenue and Keith Street in Canton, Haywood County, North Carolina.

Federally Listed Species: An assessment of suitable habitat and potential impacts to four species was conducted by environmental specialists with Ramboll Americas Engineering Solutions, Inc. The findings were compiled and included in the review request. The following species with federal designations and their associated habitats were evaluated:

Species		**Status**[1]
Appalachian elktoe	*Alasmidonta raveneliana*	E
Gray bat	*Myotis grisescens*	E
Indiana bat	*Myotis sodalis*	E
Small whorled pogonia	*Isotria medeoloides*	T

[1]E = endangered and T = threatened.

The project proponent used the North Carolina Ecological Services Field Offices Determination Key (NC DKey) to complete consultation. Based on the U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPAC) system submission and the standing analysis for the NC DKey, the project reached the determination of "no effect" (NE) for Appalachian elktoe, gray bat, and small whorled pogonia. Should the lead federal action agency make NE determination for these species, consultation is not required. The letter generated by the NC DKey, dated June 12, 2026, is incorporated by reference.

For Indiana bat, the project proponent used the Indiana Bat Determination Key (Ibat Key) to complete consultation. Based on the Service's IPAC system submission and the standing analysis for the Ibat Key, the project reached the determination of "may affect" and necessitated additional review. Suitable summer roosting and commuting/foraging habitat for Indiana bat is likely not present in the action area. We would concur with a "may affect, not likely to adversely affect" (NLAA) determination from the lead federal action agency for this species.

Eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*), monarch butterfly (*Danaus plexippus*), and tricolored bat (*Perimyotis subflavus*) are not currently subject to section 7 consultation; therefore, they were not included in this review. Should these species become listed in the future, reinitiation of consultation may be required.

We believe the requirements under section 7 of the Act are fulfilled for the federally listed species discussed above. However, obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of the identified action may affect listed species or critical habitat in a manner not previously considered, (2) the identified action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed or critical habitat is determined that may be affected by the identified action.

The Service appreciates the opportunity to provide these comments. In future correspondence concerning this project, please reference Log Number 26-618.

Rebekah Reid

Consultation Biologist and Section 7 Team Lead
US Fish and Wildlife Service
Asheville Ecological Services Field Office
160 Zillicoa St., Suite B
Asheville, North Carolina 28801

Office phone: 828-258-3939 (x3 for the Planning and Consultation Team)
Cell phone: 828-782-0090

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

Explosive and Flammable Hazards

Explosive and Flammable Hazards | AST Data Table & ASD Calculations

Project Name: Harkins Avenue Subdivision Development Project
Address: Harkins Avenue, Canton, North Carolina 28716
County: Haywood
Parcel ID(s): 8647-83-7739
Coordinates: -82.870754, 35.540037

Facility	Location	Tank (Qty) Capacity	Contents	Distance to subject property (feet)	Diked?	ASD for Thermal Radiation for People (feet)	ASD for Thermal Radiation for Buildings (feet)	ASD for Blast Over Pressure (feet)	Acceptable Separation?	Notes
Source: Aerial/Streetview imagery										
I-40 Right-of-Way	35.551920, -82.870777	(1) 1,800 gal	Fuel	4,025	No	353.30	65.98	N/A	Yes	
Dan's Storage Units	35.529626, -82.886864	(1) 500 gal	Fuel	5,175	No	207.20	36.50	N/A	Yes	
Freeman Gas	35.531164, -82.883371	(1) 1,000 gal	Propane	4,065	No	276.57	50.28	219.03	Yes	
Town of Clyde Water Tank	35.528176, -82.884332	N/A	Water	N/A	N/A	N/A	N/A	N/A	N/A	Water tank owned by the City of Clyde
Haywood Roll-off Containers	35.531921, -82.860829	(2) 3,000 gal	Fuel	3,750	Yes	110.80	18.37	N/A	Yes	Diked Area: 15' x 30'
Adjoining Property (1)	35.539822, -82.870030	500 gal	Propane	10	No	N/A	N/A	N/A	N/A	NFPA 58 (2017+) Compliant
Adjoining Property (2)	35.538459, -82.869730	300 gal	Propane	200	No	N/A	N/A	N/A	N/A	NFPA 58 (2017+) Compliant
Source: NCDEQ Regional Above Ground Storage Tank (RAST) Database[1]										
Strum Property	6983 Carolina Blvd	(1) 500 gal	Fuel	5,175	No	207.20	36.50	N/A	Yes	

[1] https://data-ncdenr.opendata.arcgis.com/datasets/ncdenr::rast/about

Facility	Location	Tank (Qty) Capacity	Contents	Distance to subject property (feet)	Diked?	ASD for Thermal Radiation for People (feet)	ASD for Thermal Radiation for Buildings (feet)	ASD for Blast Over Pressure (feet)	Acceptable Separation?	Notes
I-40 MM30 UPS Truck Release	I-40 Haywood County	N/A	N/A	4,300	N/A	N/A	N/A	N/A	N/A	Diesel spill mobile source; Soil Contamination removed, NFA letter issued 2/9/2015.

RAMBOLL

Acceptable Separation Distance Assessment Tool

Is the container above ground?	**Yes:** ☑ **No:** ☐
Is the container under pressure?	**Yes:** ☐ **No:** ☑
Does the container hold a cryogenic liquified gas?	**Yes:** ☐ **No:** ☐
Is the container diked?	**Yes:** ☐ **No:** ☑
What is the volume (gal) of the container?	500
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	
ASD for Thermal Radiation for People (ASDPPU)	207.20
ASD for Thermal Radiation for Buildings (ASDBPU)	36.50
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

Acceptable Separation Distance Assessment Tool

Is the container above ground?	**Yes:** ☑ **No:** ☐
Is the container under pressure?	**Yes:** ☑ **No:** ☐
Does the container hold a cryogenic liquified gas?	**Yes:** ☐ **No:** ☑
Is the container diked?	**Yes:** ☐ **No:** ☐
What is the volume (gal) of the container?	1000
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	219.03
ASD for Thermal Radiation for People (ASDPPU)	276.57
ASD for Thermal Radiation for Buildings (ASDBPU)	50.28
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

RAMBOLL

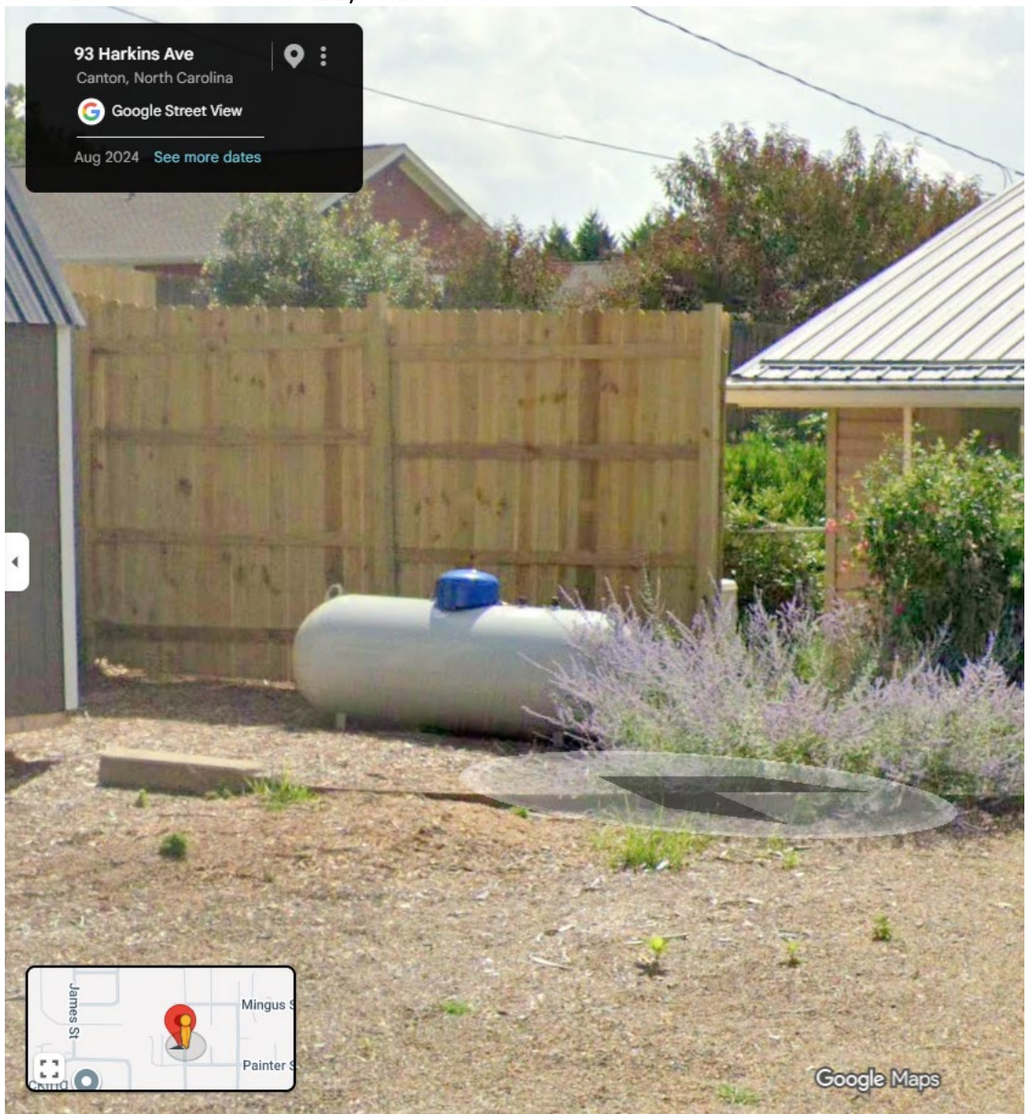
Acceptable Separation Distance Assessment Tool

Is the container above ground?	**Yes:** ☑ **No:** ☐
Is the container under pressure?	**Yes:** ☐ **No:** ☑
Does the container hold a cryogenic liquified gas?	**Yes:** ☐ **No:** ☐
Is the container diked?	**Yes:** ☐ **No:** ☑
What is the volume (gal) of the container?	1800
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	
ASD for Thermal Radiation for People (ASDPPU)	353.30
ASD for Thermal Radiation for Buildings (ASDBPU)	65.98
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

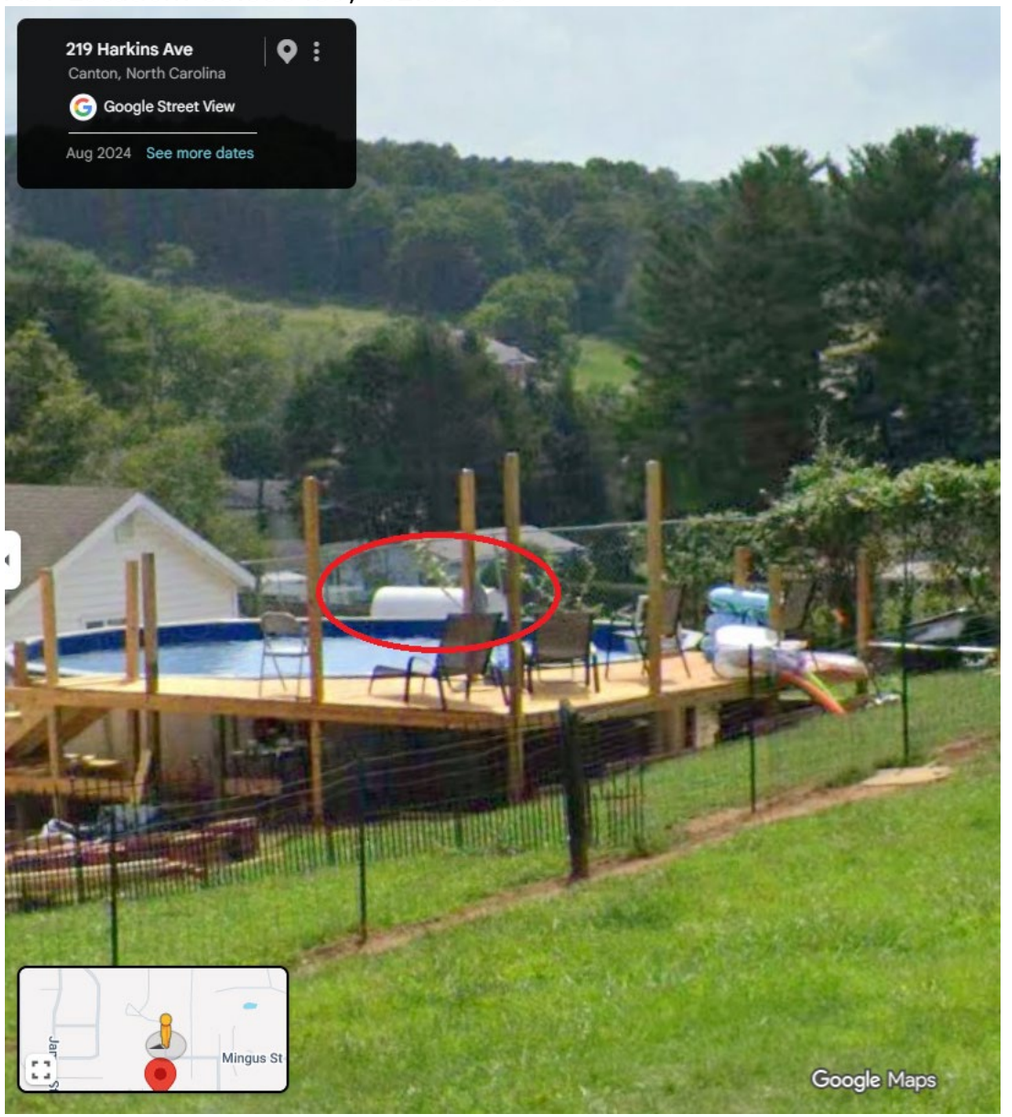
Acceptable Separation Distance Assessment Tool

Is the container above ground?	**Yes:** ☑ **No:** ☐
Is the container under pressure?	**Yes:** ☐ **No:** ☑
Does the container hold a cryogenic liquified gas?	**Yes:** ☐ **No:** ☐
Is the container diked?	**Yes:** ☑ **No:** ☐
What is the volume (gal) of the container?	
What is the Diked Area Length (ft)?	15
What is the Diked Area Width (ft)?	30
Calculate Acceptable Separation Distance	
Diked Area (sqft)	450
ASD for Blast Over Pressure (ASDBOP)	
ASD for Thermal Radiation for People (ASDPPU)	
ASD for Thermal Radiation for Buildings (ASDBPU)	
ASD for Thermal Radiation for People (ASDPNPD)	110.80
ASD for Thermal Radiation for Buildings (ASDBNPD)	18.37

Propane AST on Adjoining Property (1)
AST Location: 35.539822, -82.870030



Propane AST on Adjoining Property (2)
AST Location: 35.538459, -82.869730



North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

February 9, 2015

Attn: Bill Boone
UPS
1600 Cottonwood Street
Charlotte, NC 28206

Re: Notice of No Further Action
15A NCAC 2L .0407(d)
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

UPS Diesel Release
I-40, MM #30, Clyde
Haywood County
Incident Number: 89163
Risk Classification: Low

Dear Mr. Boone:

The Initial Assessment Report received by the UST Section, Division of Waste Management, Asheville Regional Office on May 16, 2014 has been reviewed. The review indicates that soil contamination does not exceed the residential maximum soil contaminant concentrations (MSCCs), established in Title 15A NCAC 2L .0411.

The UST Section determines that no further action is warranted for this incident. All required actions have been completed.

This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact me at the address or telephone number listed below.

Sincerely,

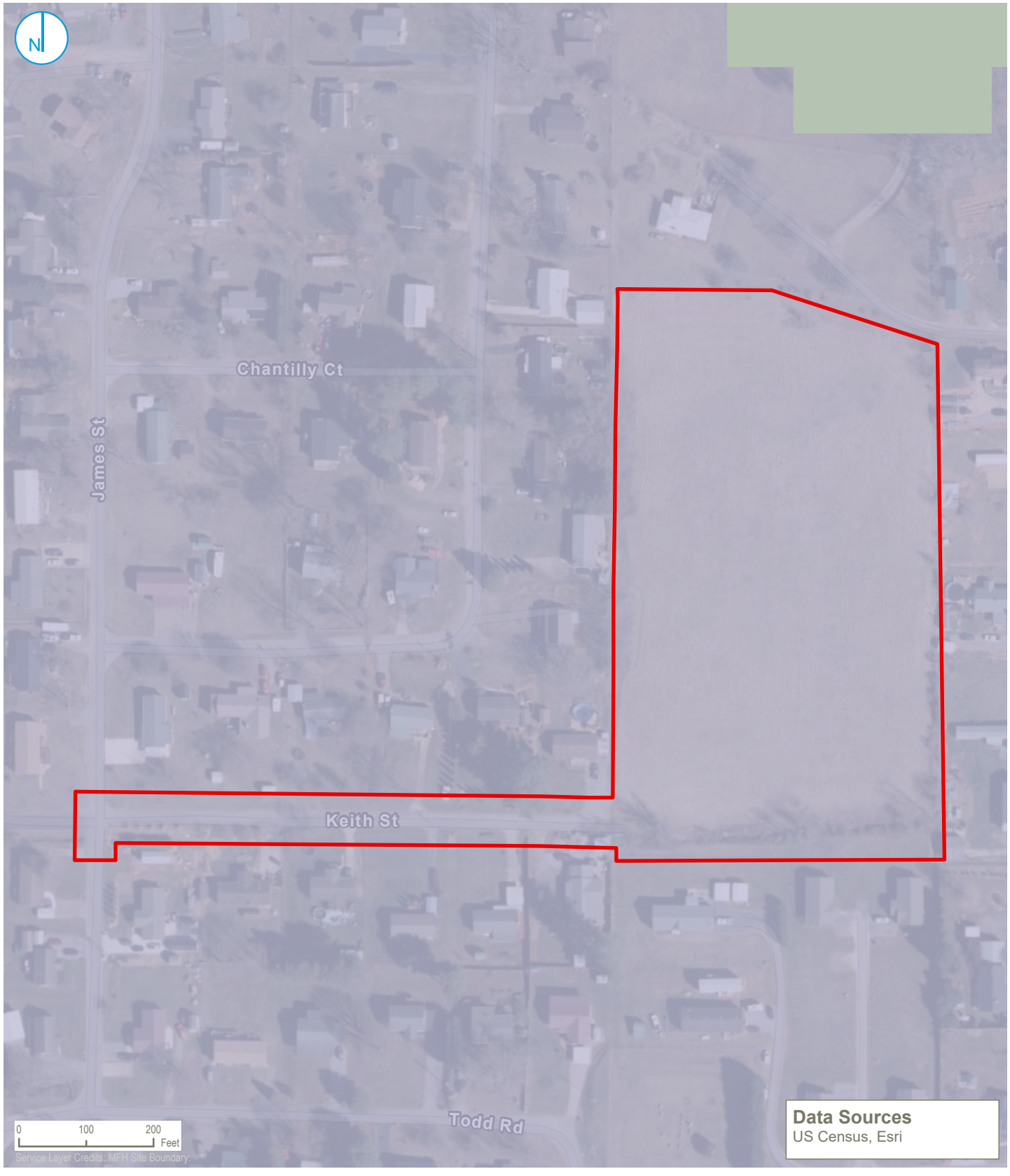
Dan Murphy

Dan Murphy, L.G.
Hydrogeologist
Asheville Regional Office
UST Section, Division of Waste Management, NCDENR

cc: Haywood County Health Department
Phillip Rahn, Waters Edge Environmental, LLC, 4901 Waters Edge Drive, Suite 100, Raleigh, NC 27606

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 **(828) 296-4500**

Farmlands Protection



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 15 - Prime Farmland and Urban Area Designation

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

- Approximate Site Boundary
- Urban Area
- Prime Farmland
- Farmland of Local Importance
- Farmland of Statewide Importance
- Farmland of Unique Importance
- Not Prime Farmland

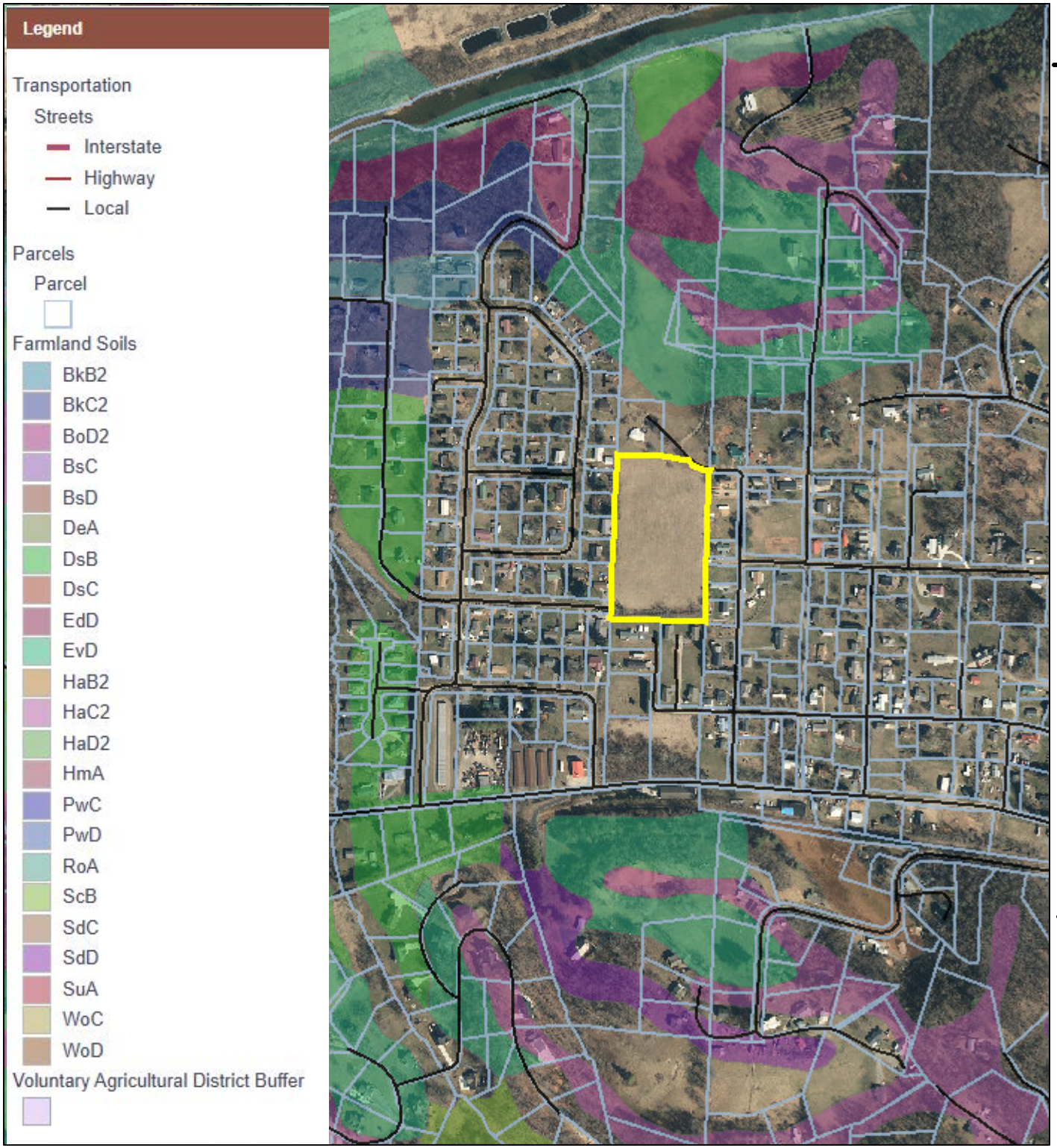
PRIME FARMLAND AND URBAN AREA DESIGNATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 06

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL



Report For

MOUNTAIN PROJECTS INC
2177 ASHEVILLE RD
WAYNESVILLE, NC 28786-3139

Account Information

PIN: 8647-83-7739

Deed: 1043/1001

Site Information

HARKINS AVE

Heated Area:
Year Built:
Total Acreage: 5.97
Township: BeaverDam

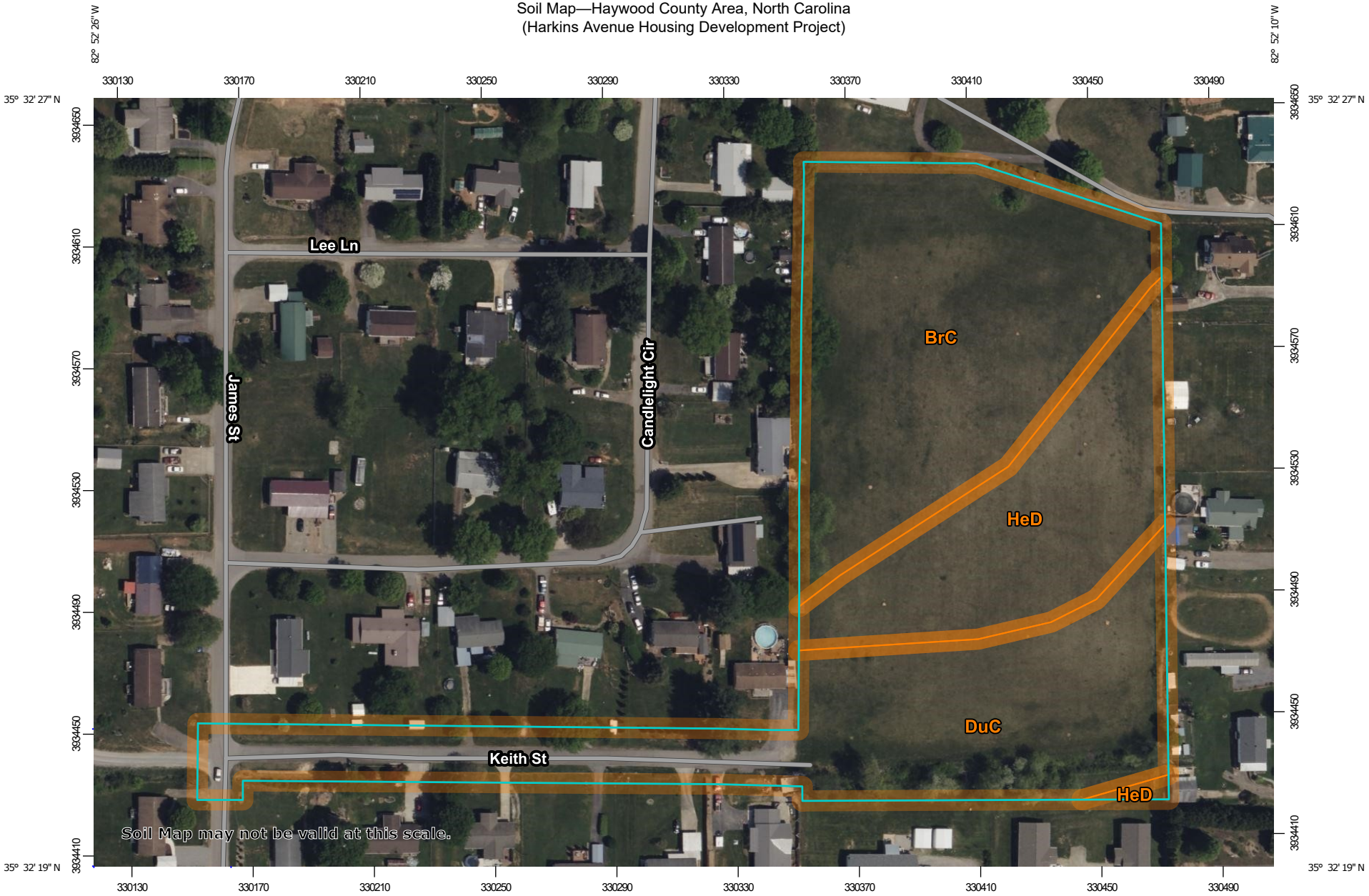
Site Value Information

Land Value:
Building Value:
Market Value:
Defered Value:
Assessed Value:
Sale Price:
Sale Date: 09/27/2021
Tax Bill 1:
Tax Bill 2:

1 inch = 600 feet
July 13, 2026

Disclaimer: The maps on this site are not surveys. They are prepared from the inventory of real property found within this jurisdiction and are compiled from recorded deeds, plats and other public records and data. Users of this site are hereby notified that the aforementioned public primary information sources should be consulted for verification of any information contained on these maps. Haywood county and the website provider assume no legal responsibility for the information contained on these maps.

Soil Map—Haywood County Area, North Carolina
(Harkins Avenue Housing Development Project)



Map Scale: 1:1,780 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 25 50 100 150

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Haywood County Area, North Carolina
Survey Area Data: Version 27, Aug 27, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 1, 2022—May 9, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BrC	Braddock-Urban land complex, 2 to 15 percent slopes	2.8	39.5%
DuC	Dillsboro-Urban land complex, 2 to 15 percent slopes	2.7	38.0%
HeD	Hayesville-Urban land complex, 15 to 30 percent slopes	1.6	22.5%
Totals for Area of Interest		**7.0**	**100.0%**

Suitability for Hand Planting—Haywood County Area, North Carolina
(Harkins Avenue Housing Development Project)

Map Scale: 1:1,170 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Unsuited
- Poorly suited
- Moderately suited
- Well suited
- Not rated or not available

Soil Rating Lines
- Unsuited
- Poorly suited
- Moderately suited
- Well suited
- Not rated or not available

Soil Rating Points
- Unsuited
- Poorly suited
- Moderately suited
- Well suited
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Haywood County Area, North Carolina
Survey Area Data: Version 27, Aug 27, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 1, 2022—May 9, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Suitability for Hand Planting

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
BrC	Braddock-Urban land complex, 2 to 15 percent slopes	Poorly suited	Braddock, moderately eroded (50%)	Stickiness; high plasticity index (0.75)	2.7	48.6%
			Hemphill, undrained (2%)	Wetness (0.75)		
				Stickiness (0.65)		
DuC	Dillsboro-Urban land complex, 2 to 15 percent slopes	Moderately suited	Dillsboro (70%)	Stickiness (0.26)	1.3	24.1%
HeD	Hayesville-Urban land complex, 15 to 30 percent slopes	Moderately suited	Hayesville (50%)	Stickiness (0.26)	1.5	27.2%
Totals for Area of Interest					**5.6**	**100.0%**

Rating	Acres in AOI	Percent of AOI
Moderately suited	2.9	51.4%
Poorly suited	2.7	48.6%
Totals for Area of Interest	**5.6**	**100.0%**

Description

FOR - Forestry

Ratings for this interpretation indicate the expected difficulty of hand planting of forestland plants. The ratings are based on slope, depth to a restrictive layer, content of sand, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. It is assumed that necessary site preparation is completed before seedlings are planted.

The ratings are both verbal and numerical. Rating class terms indicate the degree to which the soils are suited to this aspect of forestland management. "Well suited" indicates that the soil has features that are favorable for the specified management aspect and has no limitations. Good performance can be expected, and little or no maintenance is needed. "Moderately suited" indicates that the soil has features that are moderately favorable for the specified management aspect. One or more soil properties are less than desirable, and fair performance can be expected. Some maintenance is needed. "Poorly suited" indicates that the soil has one or more properties that are unfavorable for the specified management aspect. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. "Unsuited" indicates that the expected performance of the soil is unacceptable for the specified management aspect or that extreme measures are needed to overcome the undesirable soil properties.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified aspect of forestland management (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Suitability for Mechanical Planting—Haywood County Area, North Carolina
(Harkins Avenue Housing Development Project)

Map Scale: 1:1,170 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Unsuited
- Poorly suited
- Moderately suited
- Well suited
- Not rated or not available

Soil Rating Lines
- Unsuited
- Poorly suited
- Moderately suited
- Well suited
- Not rated or not available

Soil Rating Points
- Unsuited
- Poorly suited
- Moderately suited
- Well suited
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Haywood County Area, North Carolina
Survey Area Data: Version 27, Aug 27, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 1, 2022—May 9, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Suitability for Mechanical Planting

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
BrC	Braddock-Urban land complex, 2 to 15 percent slopes	Poorly suited	Braddock, moderately eroded (50%)	Stickiness; high plasticity index (0.75)	2.7	48.6%
				Slope (0.30)		
			Hemphill, undrained (2%)	Wetness (0.75)		
				Stickiness; high plasticity index (0.50)		
DuC	Dillsboro-Urban land complex, 2 to 15 percent slopes	Moderately suited	Dillsboro (70%)	Slope (0.30)	1.3	24.1%
				Stickiness; high plasticity index (0.22)		
HeD	Hayesville-Urban land complex, 15 to 30 percent slopes	Unsuited	Hayesville (50%)	Slope (0.90)	1.5	27.2%
				Stickiness; high plasticity index (0.22)		
Totals for Area of Interest					**5.6**	**100.0%**

Rating	Acres in AOI	Percent of AOI
Poorly suited	2.7	48.6%
Unsuited	1.5	27.2%
Moderately suited	1.3	24.1%
Totals for Area of Interest	**5.6**	**100.0%**

Description

FOR - Forestry

The ratings in this interpretation indicate the expected difficulty of planting trees or shrubs using a mechanical planter. The ratings are based on slope, depth to a restrictive layer, content of sand, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. It is assumed that necessary site preparation is completed before seedlings are planted.

The ratings are both verbal and numerical. Rating class terms indicate the degree to which the soils are suited to this aspect of forestland management. The soils are described as "well suited," "moderately suited," "poorly suited," or "unsuited" to this method of planting. "Well suited" indicates that the soil has features that are favorable for the specified management aspect and has no limitations. Good performance can be expected, and little or no maintenance is needed. "Moderately suited" indicates that the soil has features that are moderately favorable for the specified management aspect. One or more soil properties are less than desirable, and fair performance can be expected. Some maintenance is needed. "Poorly suited" indicates that the soil has one or more properties that are unfavorable for the specified management aspect. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. "Unsuited" indicates that the expected performance of the soil is unacceptable for the specified management aspect or that extreme measures are needed to overcome the undesirable soil properties.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified aspect of forestland management (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Potential for Seedling Mortality—Haywood County Area, North Carolina
(Harkins Avenue Housing Development Project)

Map Scale: 1:1,170 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Background

Aerial Photography

Soils

Soil Rating Polygons

- High
- Moderate
- Low
- Not rated or not available

Soil Rating Lines

- High
- Moderate
- Low
- Not rated or not available

Soil Rating Points

- High
- Moderate
- Low
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Haywood County Area, North Carolina
Survey Area Data: Version 27, Aug 27, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 1, 2022—May 9, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Potential for Seedling Mortality

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
BrC	Braddock-Urban land complex, 2 to 15 percent slopes	Moderate	Braddock, moderately eroded (50%)	Moderately high moisture supply (0.07)	2.7	48.6%
			Udorthents (9%)	Moderately high moisture supply (0.22)		
			Thurmont (4%)	Moderately high moisture supply (0.09)		
			Dillard, rarely flooded (3%)	Moderately high moisture supply (0.09)		
			Reddies, occasionally flooded (2%)	Moderately high moisture supply (0.19)		
DuC	Dillsboro-Urban land complex, 2 to 15 percent slopes	Moderate	Dillsboro (70%)	Moderately high moisture supply (0.10)	1.3	24.1%
HeD	Hayesville-Urban land complex, 15 to 30 percent slopes	Moderate	Hayesville (50%)	Moderately high moisture supply (0.04)	1.5	27.2%
Totals for Area of Interest					**5.6**	**100.0%**

Rating	Acres in AOI	Percent of AOI
Moderate	5.6	100.0%
Totals for Area of Interest	**5.6**	**100.0%**

Description

FOR - Forestry

The ratings in this interpretation indicate the likelihood of death of naturally or artificially propagated tree seedlings, as influenced by soil characteristics, physiographic features, and climatic conditions. Considered in the ratings are flooding, ponding, depth to a water table, content of lime, reaction, available water capacity, soil moisture regime, soil temperature regime, aspect, and slope.

The ratings are both verbal and numerical. The soils are described as having a "low," "moderate," or "high" potential for seedling mortality. "Low" indicates that seedling mortality is unlikely. Good performance can be expected, and little or no maintenance is needed. "Moderate" indicates that seedling mortality can occur because one or more soil properties are less than desirable. Fair performance can be expected, and some maintenance is needed. "High" indicates that seedling mortality can occur because of one or more soil properties and that overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration.

Numerical ratings indicate gradations between the point at which the potential for seedling mortality is highest (1.00) and the point at which the potential is lowest (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

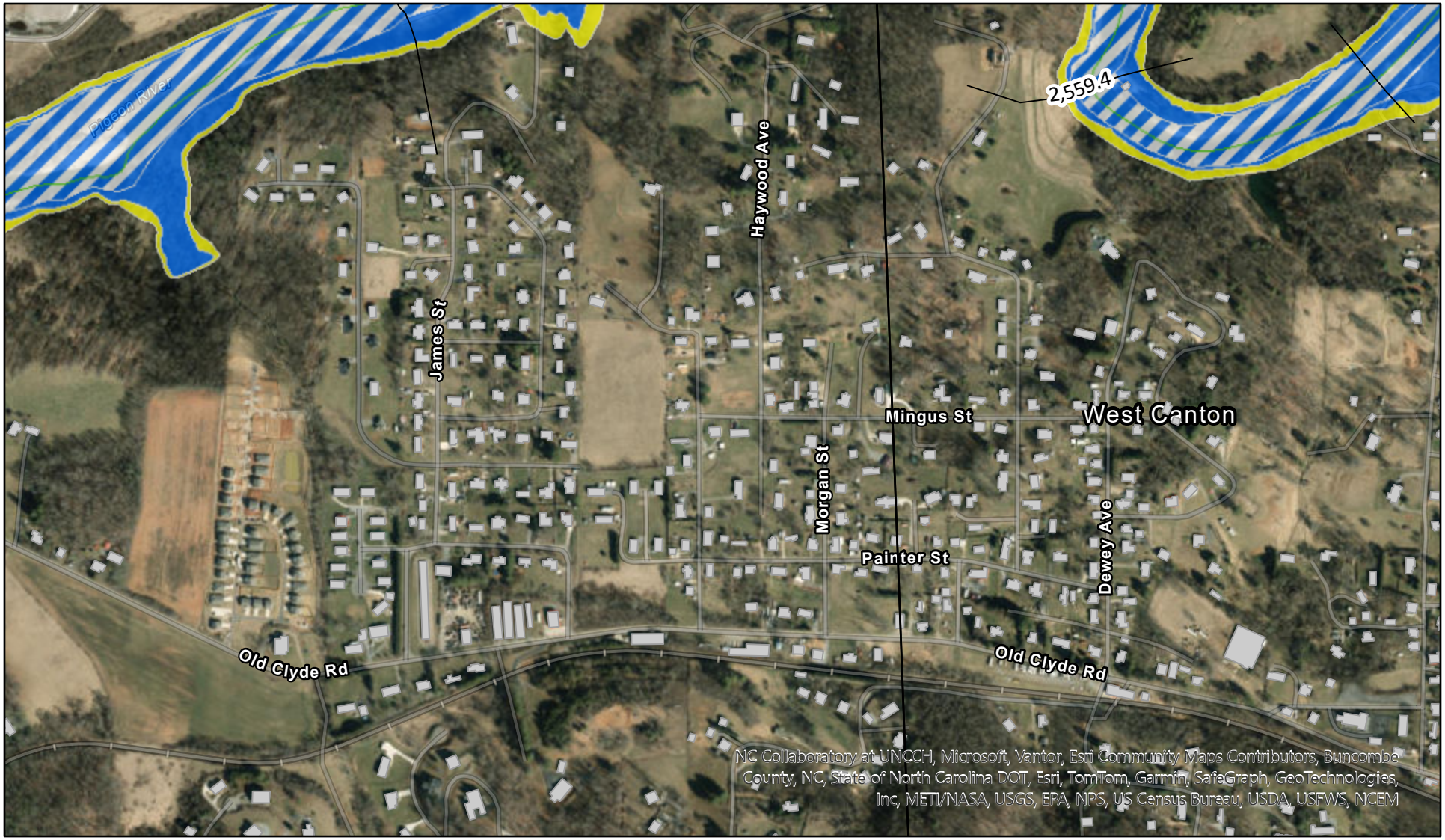
Tie-break Rule: Higher

Floodplain Management

N

NC Flood Risk Information System - Harkins Ave

Jul 13, 2026



Legend

- Panels
- Political Areas
- Stream Centerline
- Cross Sections
- Levee
- Building Footprints with Flood Risk

Flood Hazard Areas

- AE
- Floodway (AE)
- 0.2 % Chance Annual Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard

North Carolina Floodplain Mapping Program

NC DEPARTMENT of COMMERCE
COMMUNITY REVITALIZATION

Josh Stein
GOVERNOR

Lee Lilley
SECRETARY

Stephanie McGarrah
DEPUTY SECRETARY

Electronic Delivery Via: will.ray@ncdps.gov

May 1, 2026

Mr. William Ray, Director
North Carolina Department of Public Safety
1636 Gold Star Drive
Raleigh NC 27607

RE: National Environmental Policy Act Stakeholder Engagement
Harkins Avenue Subdivision Development, Haywood County
North Carolina Department of Commerce, Division of Community Revitalization and the North Carolina Office of Recovery and Resiliency

Dear Mr. Ray,

The North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) is proposing to use Community Development Block Grant - Disaster Recovery funds for construction of the Harkins Avenue Subdivision Development. The project proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is located in West Canton, Haywood County, North Carolina (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: -82.870754, 35.540037).

In accordance with 24 CFR § 58.4, DCR has assumed the role of Responsible Entity, and responsibility for environmental review, decision-making, and any other action that would otherwise apply to HUD under National Environmental Policy Act (NEPA) and other provisions of law that further the purposes of NEPA, as specified in § 58.5. Based on the size, extent and potential for impacts to environmental resources, DCR is evaluating the project at an Environmental Assessment level of review per 24 CFR § 58.36.

The proposed project activities are subject to local, state, and federal environmental laws, regulations, orders and decisions. The subject property is located in a Zone X, entirely outside of the 100-year floodplain; however, the project will adhere to all applicable requirements pertaining to the Federal Flood Risk Management Standard (FFRMS) and the National Flood Insurance Program (NFIP). Additionally, the project will be reviewed in accordance with Section 106 in compliance the National Historic Preservation Act (NHPA).

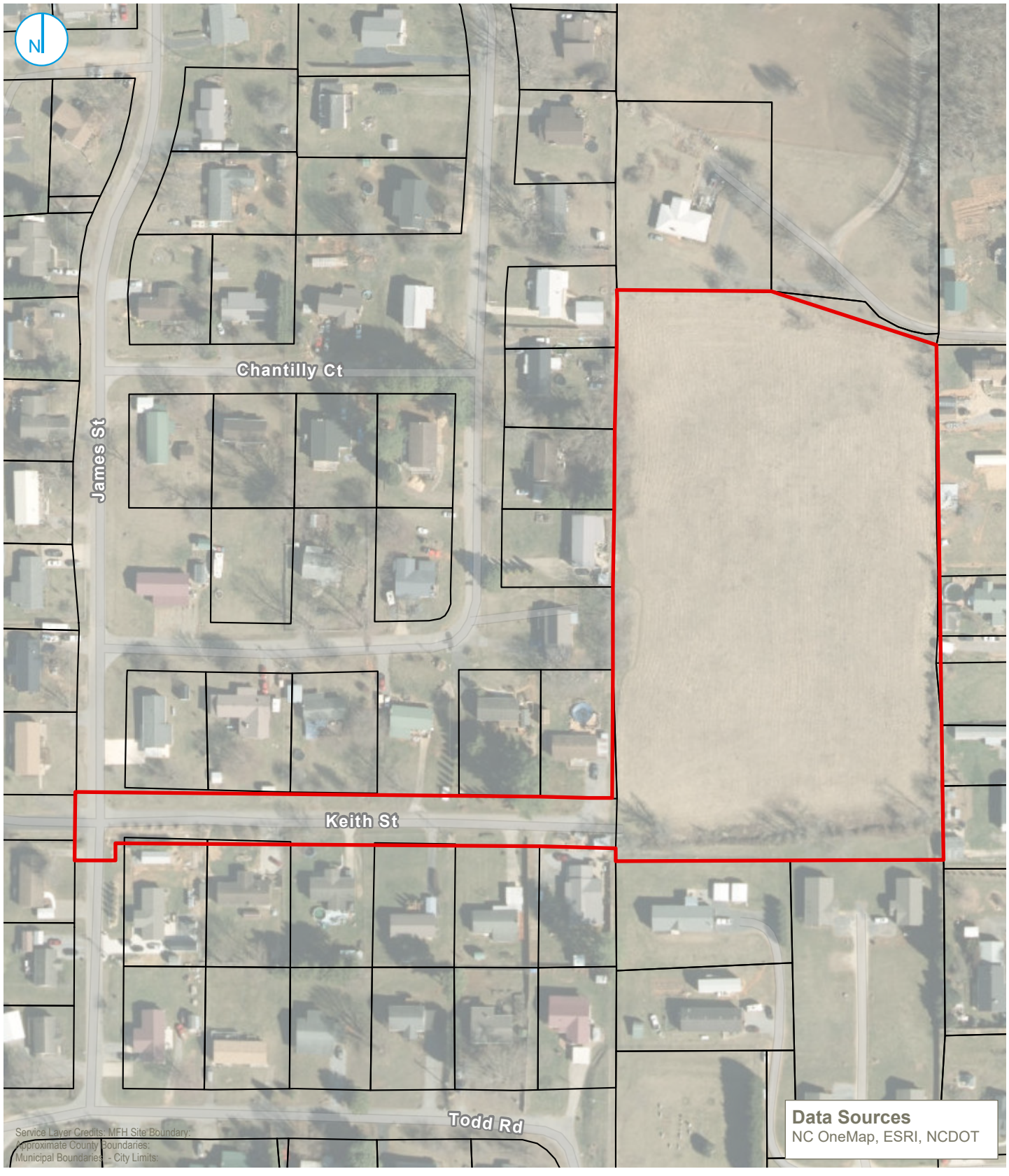
With this solicitation, the DCR is requesting comments and feedback on the proposed activities as well as any concerns you may have regarding the proposed project with respect to potential environmental impacts.

To facilitate compliance with these policies and expedite the review process, we respectfully request this information and/or any concerns, comments or objections related to the proposed project be provided within 30 days from receipt of this letter. We sincerely appreciate your comments and timely response to this solicitation. Should you have any questions, please do not hesitate to email me at daniel.herrera@commerce.nc.gov.

Respectfully Yours,

Daniel Herrera
Environmental Program Manager
North Carolina Department of Commerce
Division of Community Revitalization

Enclosures:
Project Site Location Map, FIRM, Site Plan, Conceptual Keith St Stormwater Improvement



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 01 - Site Location

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Map Scale: 1:2,400 | Map Center: 82°52'19"W 35°32'23"N

KEY MAP (not to scale)

- Approximate Site Boundary
- Approximate County Boundaries
- Municipal Boundaries - City Limits
- Parcel Boundaries

0 100 200 Feet

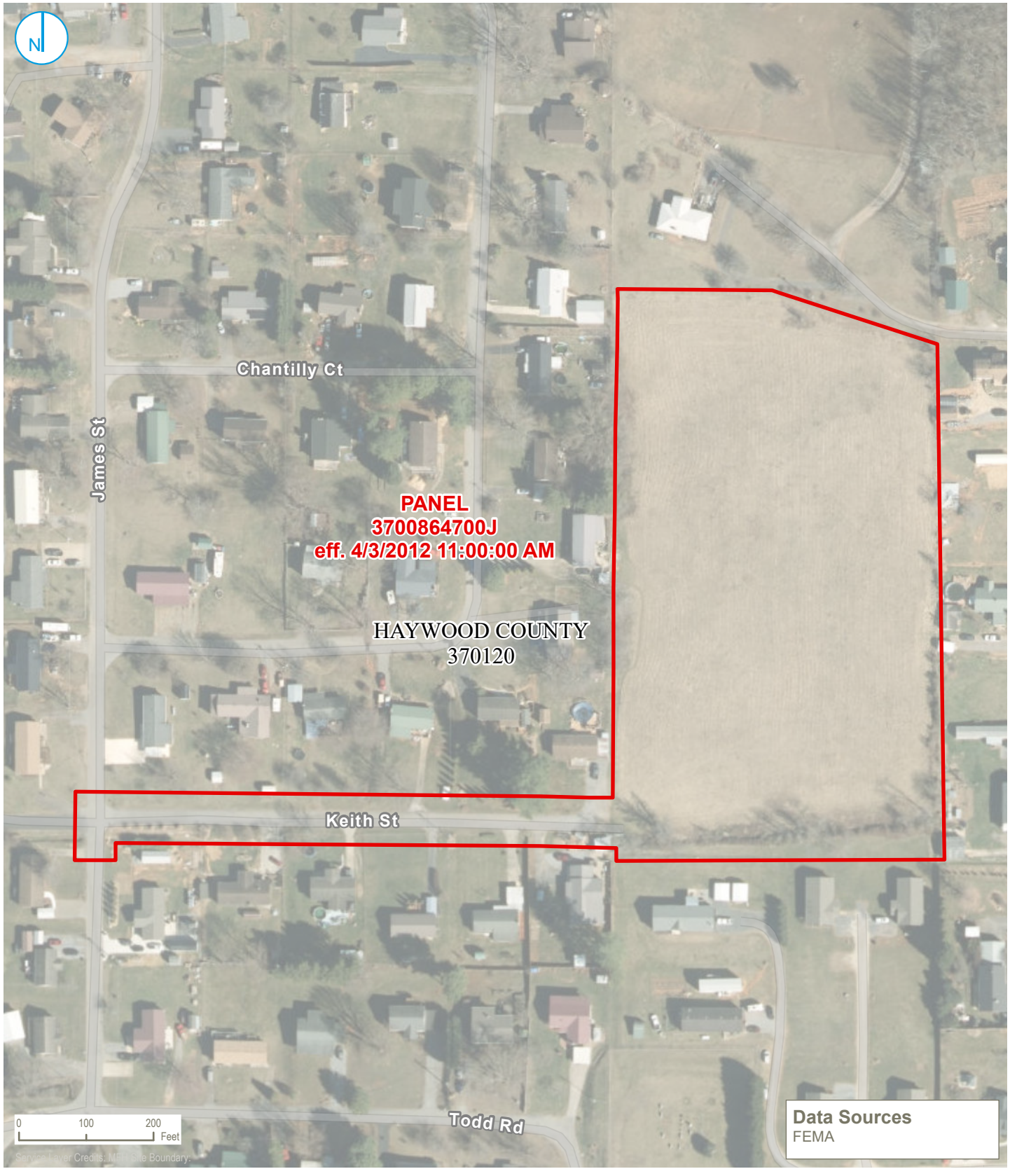
SITE LOCATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 04 - FEMA Effective FIRM

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

- Approximate Site Boundary
- Effective
- Political Jurisdictions
- FIRM Panels
- Limit Lines
- SFHA / Flood Zone Boundary
- Flowage Easement Boundary
- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee
- Profile Baselines
- Cross-Sections
- Base Flood Elevations
- Levees
- Coastal Transects
- Transect Baselines
- River Mile Markers
- Limit of Moderate Wave Action
- Primary Frontal Dunes

FEMA EFFECTIVE FIRM

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

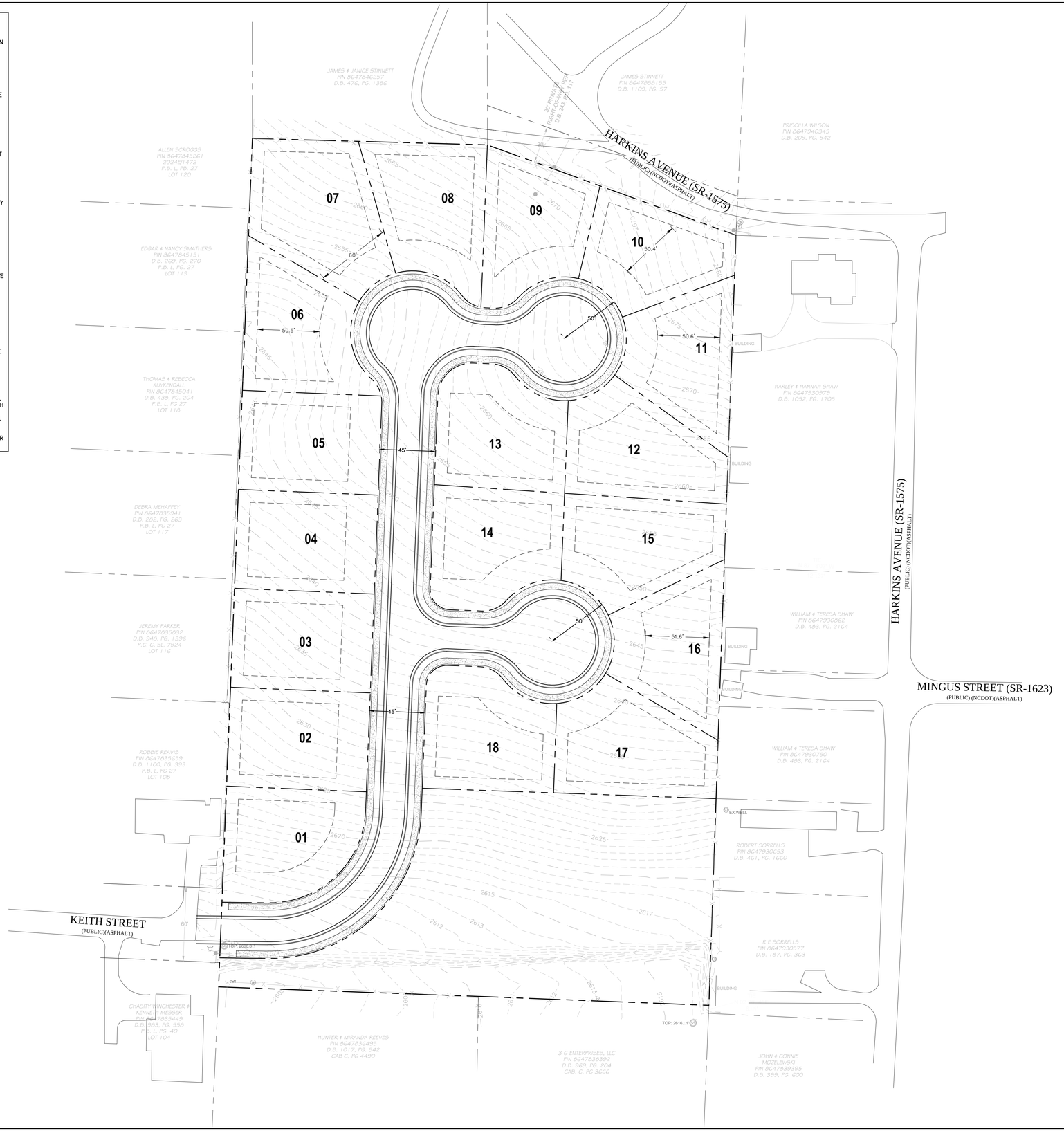
FIGURE 02

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

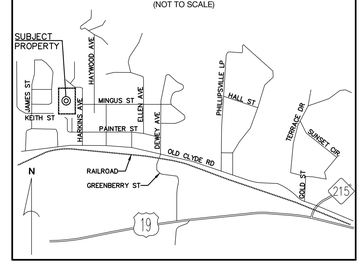
SITE NOTES

1. ALL SITEWORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS AND ALL REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
2. SINGLE-PHASE CONSTRUCTION.
3. ALL WORK MUST BE PERFORMED BY A **NORTH CAROLINA** LICENSED CONTRACTOR.
4. TO SCHEDULE THE REQUIRED INSPECTIONS ON ALL WORK, CALL THE CIVIL DESIGN CONCEPTS INSPECTIONS HOTLINE AT 828-771-4755, OR EMAIL AT INSPECTIONS@CDCGO.COM. FAILURE TO SCHEDULE INSPECTIONS MAY RESULT IN UNCOVERING OR REDOING WORK
5. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION. CONTACT ENGINEER TO CONFIRM IF ADDITIONAL PERMITS ARE NEEDED.
6. CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES (SHOWN TO REMAIN) AND NEWLY COMPLETED WORK DURING CONSTRUCTION. ANY DAMAGE INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY ULOCO AT 1-800-632-4949 OR 811, 72 HOURS BEFORE CONSTRUCTION BEGINS.
8. SIDEWALKS SHALL BE CONSTRUCTED IN ORDER TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. SIDEWALKS TO MEET ALL ADA/PROWAG STANDARDS. CONTRACTOR TO NOTIFY ENGINEER AFTER FORMING BUT PRIOR TO POURING SIDEWALK. ANY SIDEWALK/CROSSWALK NOT INSTALLED TO REQUIRED STANDARDS SHALL BE REMOVED AND REPLACED AT CONTRACTORS EXPENSE.
9. ALL RADII LISTED ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED. ALL PARKING LOT RADII ARE **4'** UNLESS OTHERWISE NOTED.
10. ALL ROAD/PARKING LOT IMPROVEMENTS, STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION AND THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). CONTRACTOR MAY USE A PAINT SUITABLE FOR ASPHALT APPLICATION IN LIEU OF THERMOPLASTIC WITH PRIOR APPROVAL FROM THE ENGINEER.
11. CURB AND GUTTER ON THE HIGH SIDE OF PAVED AREAS AND ROADS SHALL BE CONSTRUCTED WITH SPILLOUT CURB AND GUTTER. CURB AND GUTTER ON THE LOW SIDE SHALL BE CONSTRUCTED WITH STANDARD CURB AND GUTTER; REFER TO SPILLOUT CURB AND GUTTER DETAILS. CURB END TREATMENT SHALL BE APPLIED AT ALL CURB ENDS; REFER TO CURB END TREATMENT DETAIL.
12. PROPOSED ROADS TO BE **PRIVATE. NCDOT IS NOT** RESPONSIBLE FOR ANY ROAD MAINTENANCE.



VICINITY MAP

(NOT TO SCALE)



DEVELOPMENT DATA

OWNER/DEVELOPER:	MOUNTAIN PROJECTS, INC. 2177 ASHEVILLE RD WAYNESVILLE, NV 28786-3139
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 84 COXE AVE - STE 260 ASHEVILLE, NC 28801
CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

PROJECT DATA

PIN:	8647-83-7739
ADDRESS:	HARKINS AVE.
DEED BOOK/PAGE:	1043/1001
PROJECT ACREAGE:	5.97± ACRES
CURRENT ZONING:	N/A
PROPOSED ZONING:	R-1, SINGLE FAMILY

MINIMUM SETBACK FROM PROPERTY LINE:

FRONT:	25'
SIDES:	10'
REAR:	10'

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811 Know what's **below.** **Call** before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

84 COXE AVENUE - SUITE 260
ASHEVILLE, NC 28801
PHONE (828) 252-5388
FAX (828) 252-5365

52 WALNUT STREET - SUITE 9
WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036181 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXXX
XXX PERMIT NO. XXXX

SHEET

C201

HARKINS AVENUE (SR-1575)
(PUBLIC/ASPHALT)

JAMES STREET
(PUBLIC/ASPHALT)

KEITH STREET
(PUBLIC/ASPHALT)

PROPOSED STORMWATER PIPE (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

APPROXIMATE LOCATION OF
EXISTING STORM PIPE (TYP)

APPROXIMATE LOCATION OF
EXISTING STORM CULVERT (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

PROPOSED STORMWATER SYSTEM (TYP)

PROPOSED STORMWATER CONTROL MEASURE

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

CDC Civil Design Concepts, PA
NCBELS # C-2184

HARKINS AVE SUBDIVISION
CONCEPTUAL KIETH ST STORMWATER IMPROVEMENT
PROGRESS DRAWINGS DO NOT USE FOR CONSTRUCTION

NORTH

Historic Preservation

North Carolina State Historic Preservation Office

A UNIT OF DNCR North Carolina Department of Natural & Cultural Resources

INTERNAL USE ONLY

RECEIVED:

ER #:

DUE:

Request for New Project Environmental Review Form by the State Historic Preservation Office (SHPO) and Office of State Archaeology (OSA) for NRHP Section 106 and NC GS 121-12(a) Compliance, and Due Diligence

Submit to: Environmental.Review@dncr.nc.gov

1. Project Name and Location

A. Date of Submission: June 9, 2026

B. Project Name/Description: Harkins Avenue Subdivision Development

C. Project Address: Harkins Avenue/Phillipsville/Circle Drive

D. City/Town: Canton

E. County: Haywood

F. GPS Coordinates (Decimal Degrees, e.g. 35.7828, -78.6371): 35.540037, -82.870754

1. Right click on Google Maps and Copy and Paste:

2. Project Contact Information

Applicant Info (Required)

A. Applicant Name: Daniel Herrera

B. Company/Agency: NCDOC Division of Community Revitalization

C. Address: 430 North Salisbury Street

D. City, State, Zip: Raleigh, NC 22699

E. Phone: (919) 814-4600

F. Email: Daniel.Herrera@commerce.nc.gov

Consultant Info (If Applicable)

G. Consultant Name: L. Rivers Berryhill

H. Company/Agency: Ramboll American Engineering Solutions, Inc.

I. Address: 8235 YMCA Boulevard, Suite 300

J. City, State, Zip: Baton Rouge, LA 70806

K. Phone: 225-408-2851

L. Email: lberryhill@ramboll.com

3. Federal and/or State Involvement

A. ☐ Check box if this review request is for Due Diligence, i.e. Federal or State involvement unknown, or in anticipation of Federal or State involvement

B. List all licenses, permits, approvals, grants, or funding sought from Federal and/or State agencies

1. Federal: CWA Section 404 Permit; ESA Section 7 Approval; HUD CDBG-DR funding; USDA Self-Help Admin Support, Mortgage and Direct Purchase Mortgage funding

2. State: NHPA Section 106 Approval, NCWRC Approval, NCDWR Section 401 Water Quality Certification, NCWRC Approval

4. Project Description

A. **Project Acreage, Miles, or Linear Feet (REQUIRED):** 7.0 acres

B. **Check All That Apply**: ☒ New Construction ☐ Demolition ☐ Rehabilitation, Replacement/ Repair, Alteration, Addition ☐ Relocation ☐ Acquisition ☐ Infrastructure/Utilities ☐ Other

1. If Other, Describe Here:

C. ☒ Check box if there are any proposed **ground-disturbing activities**, e.g. grading, excavation, backfilling, trenching, clearing, grubbing, logging, drilling, auguring, boring, probing, hand shoveling, etc. **Note:** The whole project area will be reviewed for ground-disturbing activity if a map demarcating between the project area and the limits of disturbance is not provided.

D. ☐ Check box if the **Scope of Work (SOW)** is attached separately, otherwise, provide details of the SOW below

Scope of Work (if not attached separately)

The project proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is located in West Canton, Haywood County, North Carolina (Parcel Number 8647-83-7739) measuring approximately 7.0-acres.

5. Historic Properties/Resources, Architecture/Above Ground

- **IMPORTANT:** An architectural survey or evaluation is **not encouraged or required for initial project review.** SHPO will review maps and photographs to determine if an architectural survey or evaluation is required.
- **What You Need to Review:** Please review HPOWEB for your own project management and awareness for the presence of any **unrecorded** and **recorded properties** within and/or immediately adjacent to your project area. **These properties will need to be photographed.**
- We **do not** require a list/table/inventory of unrecorded or recorded properties in HPOWEB within or immediately adjacent to the project area submitted to us for initial project review. We encourage you to create one for your own project management and submit it if you have it.
- Visit our GIS Maps and Data page for more details on HPOWEB such as a glossary and legend.

Checklist for Reviewing HPOWEB and Date of When Reviewed: Click or tap here to enter text.**:**

A. ☐ Check box if there are there any **unrecorded** (Not in HPOWEB) buildings, structures, or designed landscapes features within and/or immediately adjacent to the project area that may be 50 years old or older

B. ☐ Check box if there are there **any recorded properties** (any marker or shaded boundary) in HPOWEB within and/or immediately adjacent to the project area.

1. ☐ Check box if **any** of these properties in HPOWEB are recorded as **historic properties** i.e. Study-Listed (SL), Determination of Eligibility (DOE), Study-Listed and Determination of Eligibility (SLDOE), National Register Listed (NR), or National Historic Landmark (NHL)?
2. ☐ Check box if **any** of these properties in HPOWEB are shown as locally designated, i.e. Local Landmark or Local Historic District
   i. Please note: Locally designated properties may require coordination through a local Historic Preservation Commission (HPC), or similar, and may require a Certificate of Appropriateness (COA) outside of SHPO and OSA review.
3. ☐ Check box if this project proposes to demolish, rehabilitate, replace/repair, alter/add addition, mothball, relocate/remove, sell, transfer, add an easement, or lease any **recorded property** in HPOWEB within the project area.
   i. If checked, your Scope of Work should be detailed and include a written description of the present conditions of the recorded property with photos showing the overall property and those conditions, and a keyed map of the photograph direction and location. Interior photos should be included if permission is given by the property owner.

C. **If any above is checked, please provide at least one (1) photo of each property.**

6. Historic Properties/Resources, Archaeology

- **IMPORTANT:** Requesting archaeological site data, conducting archaeological background research, or conducting an archaeological survey is **not encouraged or required for initial project review.** Archaeological data site files are public records, but confidential information needed for environmental review is protected by Federal and State laws. Use this link here for more information.
- **What You Need to Do:** Complete the checklist below and the county-assigned OSA archaeologist will review the project area, maps, photos, ground-disturbance activity (if any), and archaeological data to determine if further work is required.
- **If Further work is Required**: All details of next steps will be provided in our letter, including what type of consultant you will need to hire, if needed, to complete the work and access necessary archaeological data.

Checklist for Information Needed by the Office of State Archaeology (OSA)

1. ☐ Check box if any archaeological material, e.g., pottery, arrowheads, trash/objects associated with no longer extant buildings > 50 years old, Civil War material, etc., that has been identified or collected during a site visit of the project area and/or noted/collected by the property owner
2. ☐ Check box if there are any known cemeteries or burials within or immediately adjacent to the project area

If yes to any of the above, please describe below. Include a labeled map and GPS coordinates (decimal degrees) of locations of any archaeological material or cemeteries.

7. Deliverables Checklist

A. Photos

Photos should be at minimum 4”x4” with a maximum of two photos per letter-sized page. Photos can be attached to this form or packaged separately in your submission.

1. ☒ Labeled photos of the overall project area/parcel(s)
2. ☒ Labeled photos of any buildings, structures, or designed landscapes within or immediately adjacent to the project area.
3. ☐ Labeled photos with Site Name and Site ID of any recorded properties in or immediately adjacent to the project area as seen on HPOWEB. **See Section 5.B.**

B. Maps

Required maps can be created in HPOWEB and screenshotted, printed as PDF, etc. Maps can be attached to this form or packaged separately in your submission.

1. ☒ Aerial/Satellite map showing the boundary/limits of the project with parcel boundaries
2. ☒ Street or topo map showing the boundary/limits of the project area with street names
3. ☒ Construction plans and designs if available. **See Section 4.C.**
4. ☐ Additional maps or map labels as required if **Section 6.1** and **6.2** are checked

C. Geographic Information System Data/Georeferenced Data

1. ☒ ArcGIS Shapefile (Polygon) OR Google Earth KML are preferred for large, complex, multi-parcel projects and/or linear projects that span across multiple parcels.

- **i.** Please send only one file that contains all polygons, parcels, boundaries, etc.
- **ii.** Full parcels/boundaries should be submitted, not point data
- **iii.** Linear projects should be buffered from the centerline to encompass the limits of disturbance/construction.

Site Visit Record

Harkins Avenue Subdivision Development

Picture 1: Center of property, Facing South showing residential areas. :

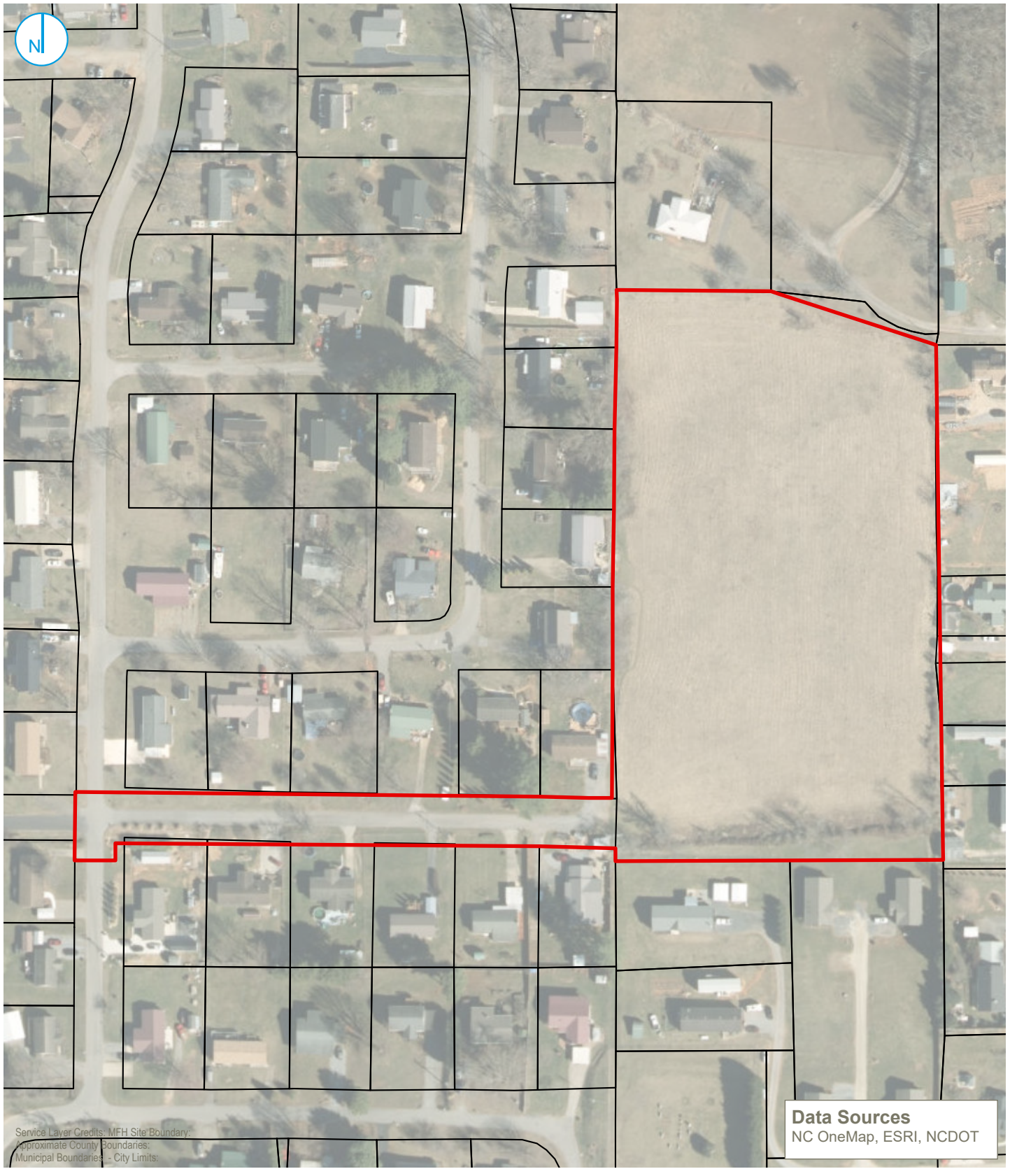
Picture 2: East side of property, Facing West

Picture 3: Center of property, Facing North

Picture 4: Center of property, Facing East

Picture 5: Center of property, Facing North from southern portion of site

Picture 6: Small stream along southern border of property, southwest corner of parcel Facing East



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 01 - Site Location

PROJECT: 1690000XXXX | DATED: 4/15/2026 | DESIGNER: ATAYLOR

Map Scale: 1:2,400 | Map Center: 82°52'19"W 35°32'23"N

KEY MAP (not to scale)

- Approximate Site Boundary
- Approximate County Boundaries
- Municipal Boundaries - City Limits
- Parcel Boundaries

0 100 200 Feet

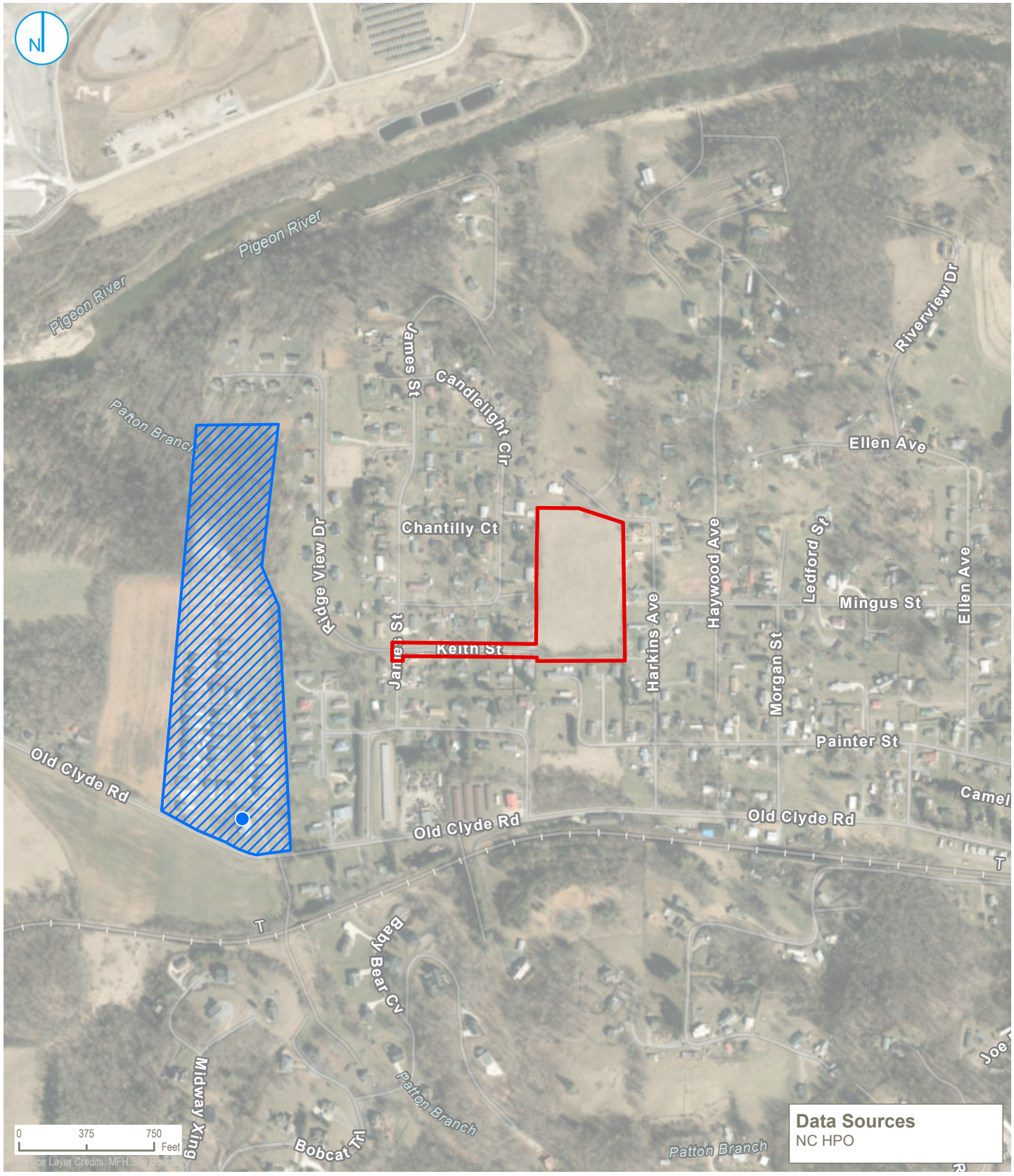
SITE LOCATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL



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PROJECT: 1690000XXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Approximate Site Boundary

National Register
- NR Individual Listing
- NR Listing, Gone
- NRHD Center Point
- National Register Boundary
- Boundary of Destroyed/Removed NR Listing

Study List
- SL Individual Entry
- SL and DOE entry; SL and DOE entry
- Study List Entry, Gone
- SL and DOE, Gone; SL and DOE, Gone
- SLHD Center Point
- SLDOEHD Center Point
- Study List Boundary
- Both SL and Determined Eligible Boundary

Determined Elligible
- Determined Eligible
- DOE, Gone
- SL and DOE
- SL and DOE, Gone
- DOEHD Center Point
- SLDOEHD Center Point
- Determined Eligible Boundary
- Both DOE and Study List Boundary

Surveyed Only
- Surveyed Only
- Surveyed in NRHD
- Surveyed Only, Gone
- Surveyed in NRHD, Gone
- Blockface- Multiple properties
- Blockface in NRHD
- Surveyed Area, No designation
- Surveyed Area in NHRD

Local Landmarks and Districts
- Local Landmark
- Local Landmark, Gone
- Local HD Center Point
- Local districts & boundaries

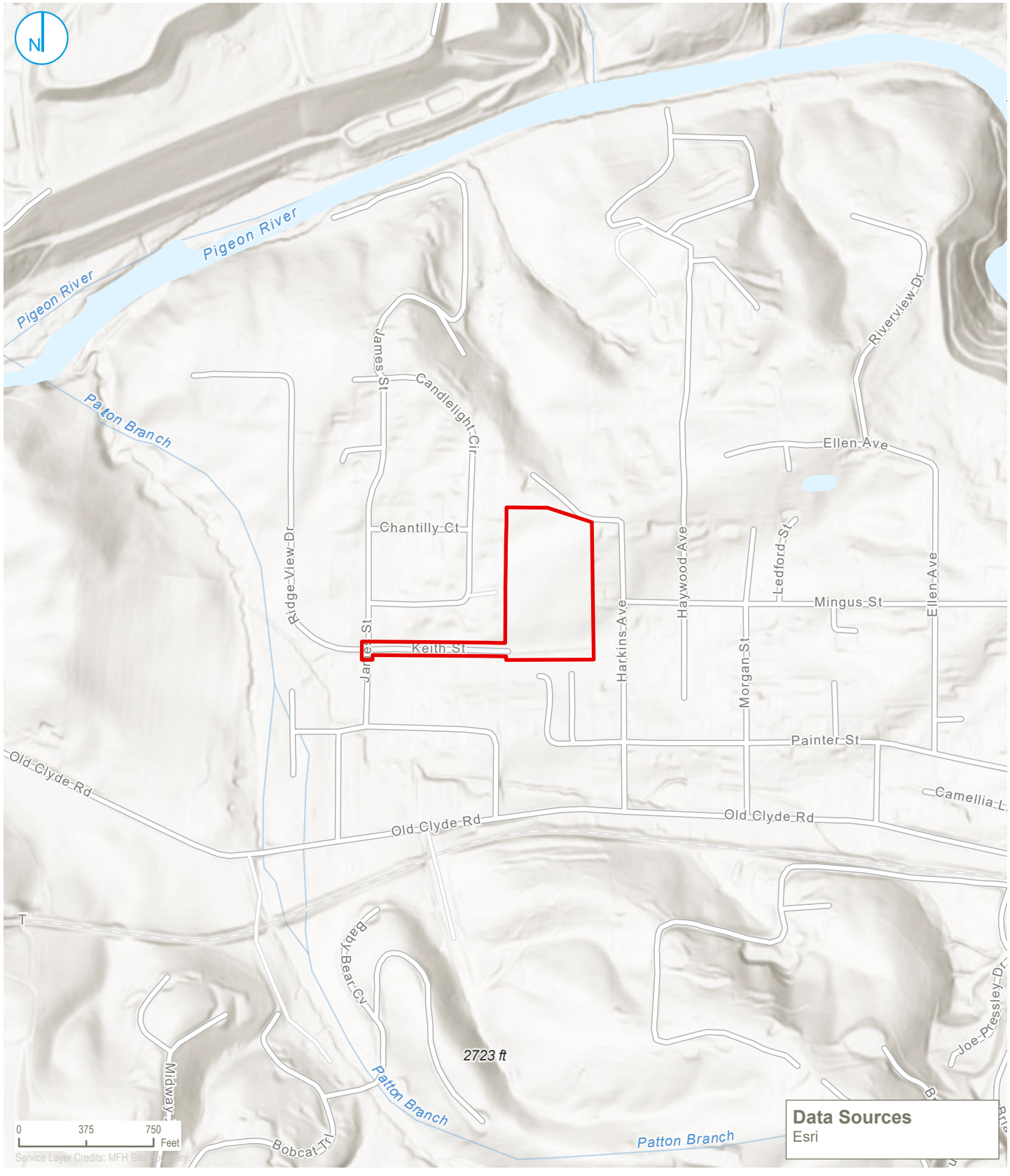
HISTORIC PROPERTIES AND DISTRICTS

Harkins Avenue Subdivision Development

Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 08

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 19 - USGS 7.5 minute Topo

PROJECT: 1690000XXXX | DATED: 4/23/2026 | DESIGNER: ATAYLOR

Approximate Site Boundary

USGS 7.5 MINUTE TOPO

FIGURE 09

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

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3. ALL WORK MUST BE PERFORMED BY A **NORTH CAROLINA** LICENSED CONTRACTOR.
4. TO SCHEDULE THE REQUIRED INSPECTIONS ON ALL WORK, CALL THE CIVIL DESIGN CONCEPTS INSPECTIONS HOTLINE AT 828-771-4755, OR EMAIL AT INSPECTIONS@CDCGO.COM. FAILURE TO SCHEDULE INSPECTIONS MAY RESULT IN UNCOVERING OR REDOING WORK
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9. ALL RADII LISTED ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED. ALL PARKING LOT RADII ARE **4'** UNLESS OTHERWISE NOTED.
10. ALL ROAD/PARKING LOT IMPROVEMENTS, STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION AND THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). CONTRACTOR MAY USE A PAINT SUITABLE FOR ASPHALT APPLICATION IN LIEU OF THERMOPLASTIC WITH PRIOR APPROVAL FROM THE ENGINEER.
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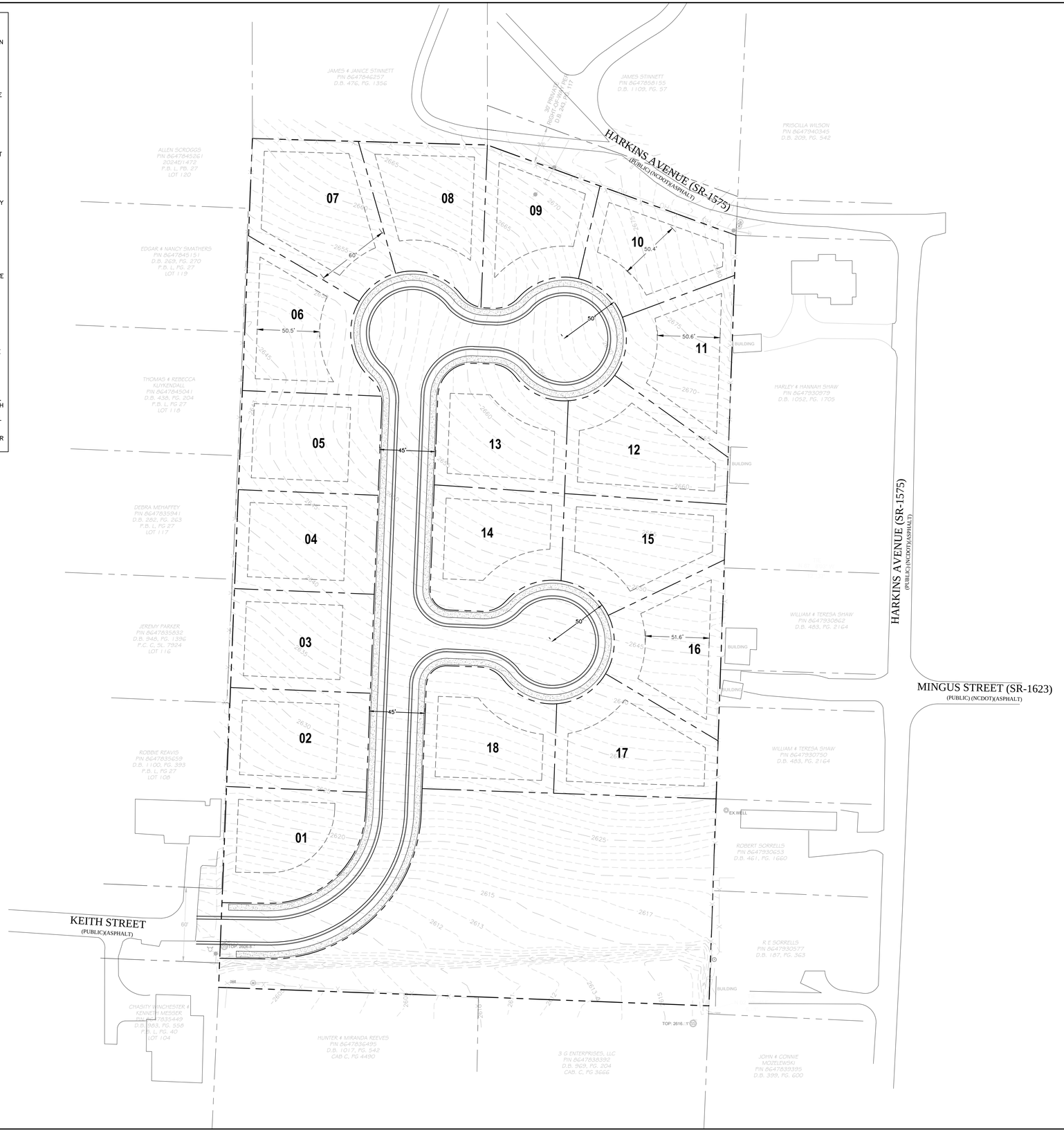
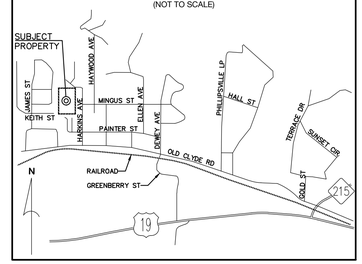
12. PROPOSED ROADS TO BE **PRIVATE. NCDOT IS NOT** RESPONSIBLE FOR ANY ROAD MAINTENANCE.



VICINITY MAP

(NOT TO SCALE)



DEVELOPMENT DATA

OWNER/DEVELOPER:	MOUNTAIN PROJECTS, INC. 2177 ASHEVILLE RD WAYNESVILLE, NV 28786-3139
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 84 COXE AVE - STE 260 ASHEVILLE, NC 28801
CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

PROJECT DATA

PIN:	8647-83-7739
ADDRESS:	HARKINS AVE.
DEED BOOK/PAGE:	1043/1001
PROJECT ACREAGE:	5.97± ACRES
CURRENT ZONING:	N/A
PROPOSED ZONING:	R-1, SINGLE FAMILY

MINIMUM SETBACK FROM PROPERTY LINE:

FRONT:	25'
SIDES:	10'
REAR:	10'

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811 Know what's **below.** **Call** before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

84 COXE AVENUE - SUITE 260
ASHEVILLE, NC 28801
PHONE (828) 252-5388
FAX (828) 252-5365

52 WALNUT STREET - SUITE 9
WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049161 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXX
XXX PERMIT NO. XXXX

SHEET

C201

HARKINS AVENUE (SR-1575)
(PUBLIC/ASPHALT)

JAMES STREET
(PUBLIC/ASPHALT)

KEITH STREET
(PUBLIC/ASPHALT)

PROPOSED STORMWATER PIPE (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

APPROXIMATE LOCATION OF
EXISTING STORM PIPE (TYP)

APPROXIMATE LOCATION OF
EXISTING STORM CULVERT (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

PROPOSED STORMWATER SYSTEM (TYP)

PROPOSED STORMWATER CONTROL MEASURE

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

CDC Civil Design Concepts, PA
NCBELS # C-2184

HARKINS AVE SUBDIVISION
CONCEPTUAL KIETH ST STORMWATER IMPROVEMENT
PROGRESS DRAWINGS DO NOT USE FOR CONSTRUCTION

NORTH

North Carolina Department of Natural and Cultural Resources
State Historic Preservation Office
Ramona M. Bartos, Administrator

Governor Josh Stein
Secretary Pamela B. Cashwell

Office of Archives and History
Deputy Secretary Darin J. Waters, Ph.D.

June 12, 2026

MEMORANDUM

TO: Daniel Herrera Daniel.Herrera@commerce.nc.gov
NC Department of Commerce

FROM: Ramona M. Bartos, Deputy RSL for Ramona M. Bartos
State Historic Preservation Officer

SUBJECT: Construct 18 detached single-family homes, Keith Street, West Canton, Haywood County, 26-E-0000-0220, ER 26-2150

Thank you for your email of June 9, 2026, concerning the above project.

We have conducted a review of the project and are aware of no historic resources which would be affected by the project. Therefore, we are not requiring any archaeological or architectural survey and have no comment on the project as proposed.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or environmental.review@dncr.nc.gov. In all future communication concerning this project, please cite the above referenced tracking number.

Tribal Directory Assessment Information

Contact Information for Tribes with Interests in Haywood County, North Carolina

	Tribal Name	County Name
−	Catawba Indian Nation (aka Catawba Indian Tribe of South Carolina)	Haywood

Contact Name	Title	Mailing Address	Work Phone	Fax Number	Email Address	URL
Caitlin Rogers	Cultural Division Program Manager	1536 Tom Steven Road, Rock Hill, SC - 29730	(803) 328-2427 ext. 226	(803) 328-5791	caitlin.rogers@catawba.com	www.CatawbaCulture.org
Dr. Wenonah G. Haire	THPO and Catawba Cultural Center Executive Director	1536 Tom Steven Road, Rock Hill, SC - 29730	(803) 328-2427 ext. 224	(803) 328-5791	wenonah.haire@catawba.com	www.CatawbaCulture.org

−	Cherokee Nation	Haywood

Contact Name	Title	Mailing Address	Work Phone	Fax Number	Email Address	URL
Elizabeth Toombs	THPO	PO Box 948, Tahlequah, OK - 74465	(918) 453-5389		elizabeth-toombs@cherokee.org	http://www.cherokee.org

−	Eastern Band of Cherokee Indians	Haywood

Contact Name	Title	Mailing Address	Work Phone	Fax Number	Email Address	URL
Russell Townsend	Tribal Historic Preservation Specialist	Qualla Boundary P.O. Box 455, Cherokee, NC - 28719	(828) 554-6851	(828) 497-1590	syerka@ebci-nsn.gov	https://ebci.com/
Michell Hicks	Principal Chief	88 Council House Loop Road, Cherokee, NC - 28719	(828) 359-7000	(828) 359-0344	pmyers@nc-cherokee.com	https://ebci.com/

−	Muscogee (Creek) Nation	Haywood

Contact Name	Title	Mailing Address	Work Phone	Fax Number	Email Address	URL
Savannah Waters	THPO	Po Box 580, Okmulgee, OK - 74447	918-732-7852	918-758-0649	swaters@muscogeenation.com	http://www.mcn-nsn.gov
David Hill	Principal Chief	111 S Virginia St, Muskogee, OK - 74403	(800) 482-1979	(918) 756-2911	section106@muscogeenation.com	http://www.mcn-nsn.gov

1 - 4 of 4 results

« ‹ 1 › » 10

NC DEPARTMENT of COMMERCE
COMMUNITY REVITALIZATION

Josh Stein
GOVERNOR

Lee Lilley
SECRETARY

Stephanie McGarrah
DEPUTY SECRETARY

Electronic Delivery Via: elizabeth-toombs@cherokee.org; shadow-hardbarger@cherokee.org

May 1, 2026

Ms. Elizabeth Toombs, Tribal Historic Preservation Officer
Ms. Shadow Hardbarger, Historic Preservation Technician
Cherokee Nation of Oklahoma
PO Box 948
Tahlequah, OK 74465

RE: Section 106 of the National Historic Preservation Act Consultation
Harkins Avenue Subdivision Development, Haywood County
North Carolina Department of Commerce, Division of Community Revitalization and the North Carolina Office of Recovery and Resiliency

Dear Ms. Toombs and Ms. Hardbarger,

The North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) is proposing to use Community Development Block Grant - Disaster Recovery funds for construction of the Harkins Avenue Subdivision Development. The project proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is located in West Canton, Haywood County, North Carolina (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: -82.870754, 35.540037).

In accordance with 24 CFR § 58.4, DCR has assumed the role of Responsible Entity, and responsibility for environmental review, decision-making, and any other action that would otherwise apply to HUD under National Environmental Policy Act (NEPA) and other provisions of law that further the purposes of NEPA, as specified in § 58.5. Based on the size, extent and potential for impacts to environmental resources, DCR is evaluating the project at an Environmental Assessment level of review per 24 CFR § 58.36.

With this solicitation, the DCR invites you to participate in the Section 106 process as a consulting party, to help identify historic properties in the project area that may have religious and cultural significance to your tribe, and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects. We value your assistance and look forward to consulting further if there are historic properties of religious and cultural significance to your tribe that may be affected by this project.

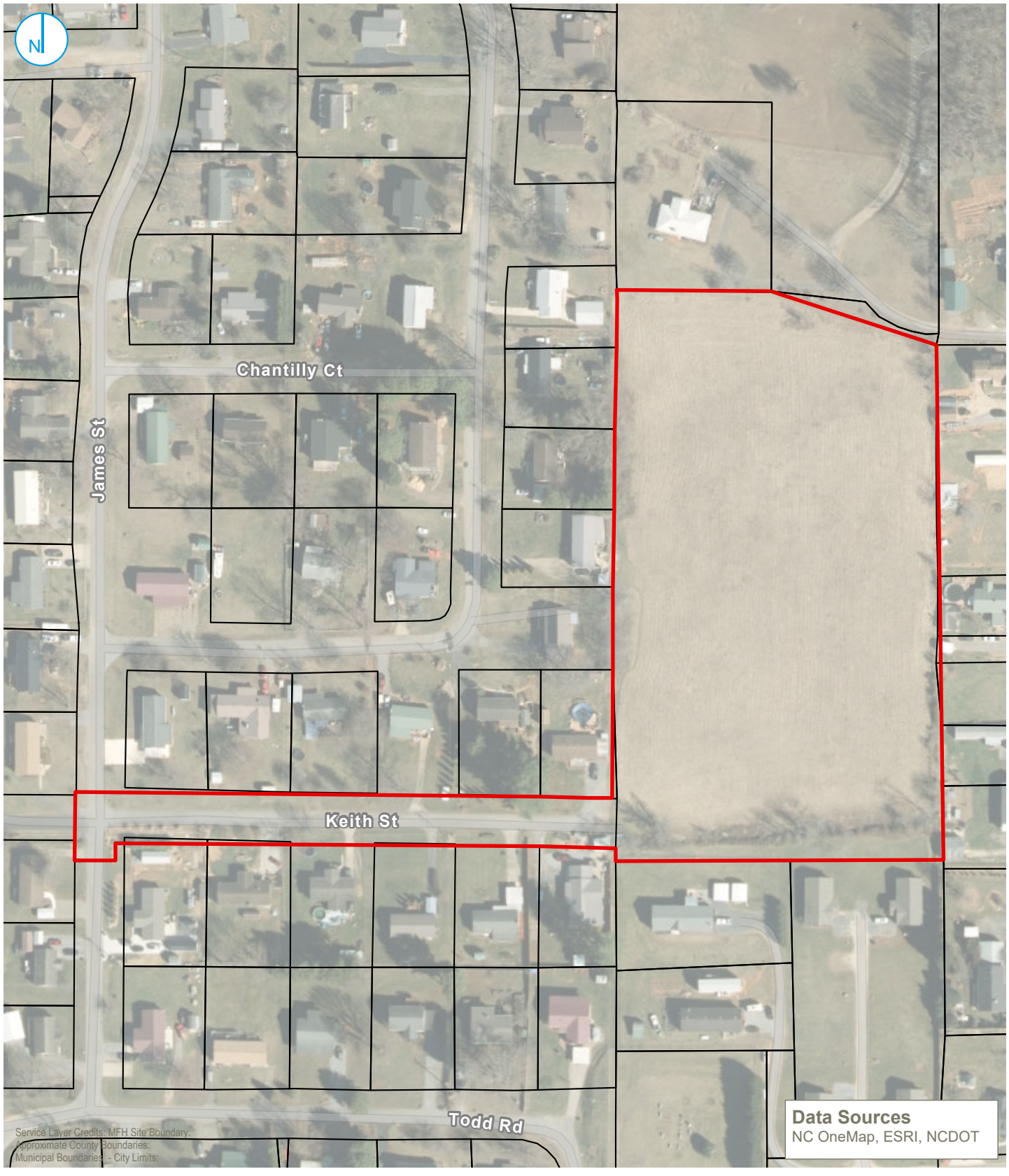
To facilitate compliance with these policies and expedite the review process, we respectfully request that you let us know of your interest to consult within 30 days from receipt of this letter. Any information, concerns, comments or objections related to the proposed project may be provided within 30 days from

receipt of this letter. We sincerely appreciate your comments and timely response to this solicitation. Should you have any questions, please do not hesitate to email me at daniel.herrera@commerce.nc.gov.

Respectfully Yours,

Daniel Herrera
Environmental Program Manager
North Carolina Department of Commerce
Division of Community Revitalization

Enclosures:
Project Site Location Map, Site Plan, Conceptual Keith St Stormwater Improvement



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 01 - Site Location

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Map Scale: 1:2,400 | Map Center: 82°52'19"W 35°32'23"N

KEY MAP (not to scale)

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- Approximate County Boundaries
- Municipal Boundaries - City Limits
- Parcel Boundaries

0 100 200 Feet

SITE LOCATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

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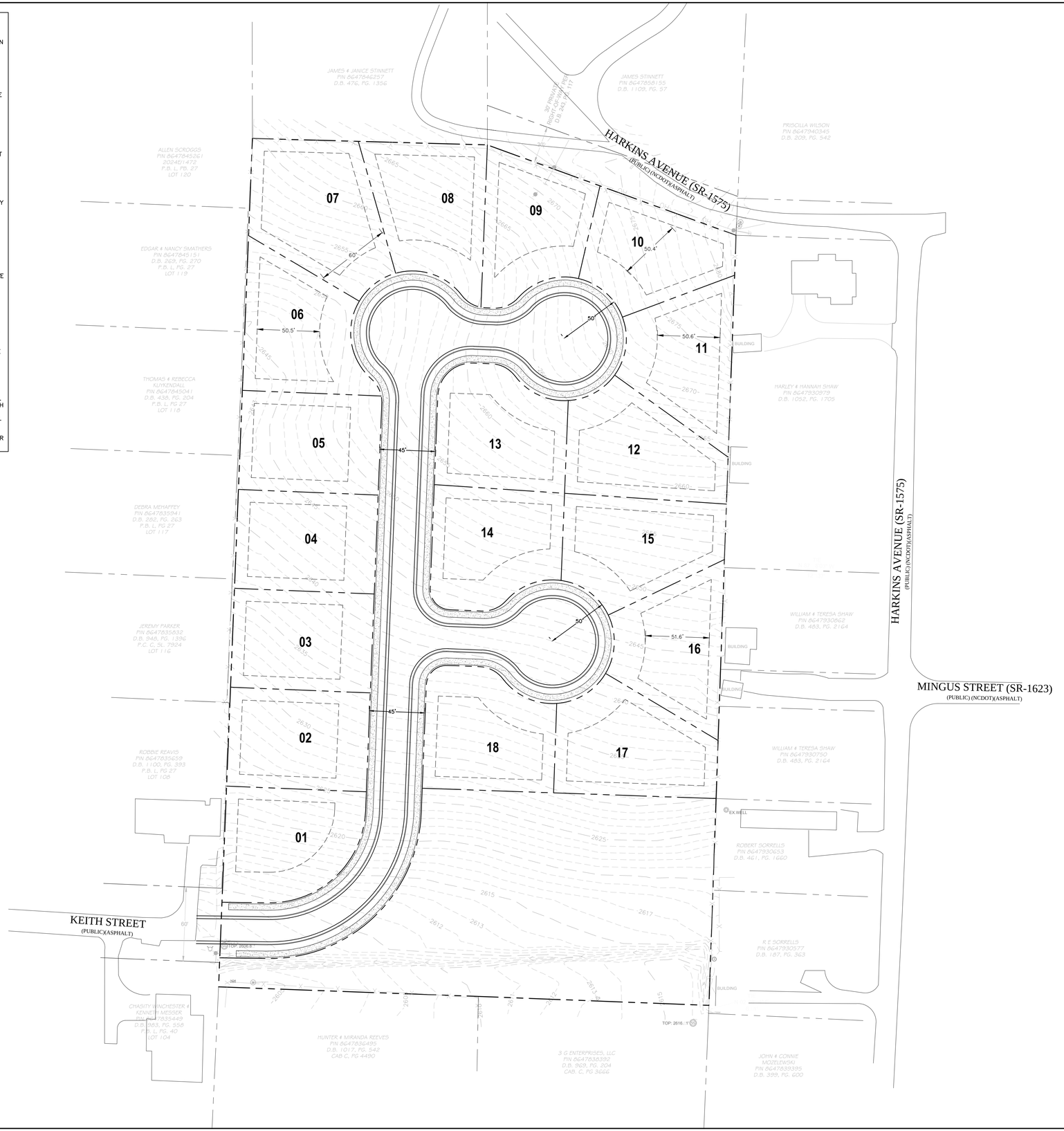
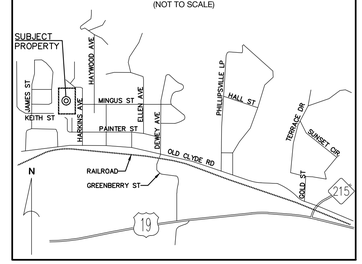


VICINITY MAP

(NOT TO SCALE)



DEVELOPMENT DATA

OWNER/DEVELOPER:	MOUNTAIN PROJECTS, INC. 2177 ASHEVILLE RD WAYNESVILLE, NV 28786-3139
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 84 COXE AVE - STE 260 ASHEVILLE, NC 28801
CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

PROJECT DATA

PIN:	8647-83-7739
ADDRESS:	HARKINS AVE.
DEED BOOK/PAGE:	1043/1001
PROJECT ACREAGE:	5.97± ACRES
CURRENT ZONING:	N/A
PROPOSED ZONING:	R-1, SINGLE FAMILY

MINIMUM SETBACK FROM PROPERTY LINE:

FRONT:	25'
SIDES:	10'
REAR:	10'

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811 Know what's **below.** **Call** before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

84 COXE AVENUE - SUITE 260
ASHEVILLE, NC 28801
PHONE (828) 252-5388
FAX (828) 252-5365

52 WALNUT STREET - SUITE 9
WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036181 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXXX
XXX PERMIT NO. XXXX

SHEET

C201

HARKINS AVENUE (SR-1575)
(PUBLIC/ASPHALT)

JAMES STREET
(PUBLIC/ASPHALT)

KEITH STREET
(PUBLIC/ASPHALT)

PROPOSED STORMWATER PIPE (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

APPROXIMATE LOCATION OF
EXISTING STORM PIPE (TYP)

APPROXIMATE LOCATION OF
EXISTING STORM CULVERT (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

PROPOSED STORMWATER SYSTEM (TYP)

PROPOSED STORMWATER CONTROL MEASURE

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

CDC Civil Design Concepts, PA
NCBELS # C-2184

HARKINS AVE SUBDIVISION
CONCEPTUAL KIETH ST STORMWATER IMPROVEMENT
PROGRESS DRAWINGS DO NOT USE FOR CONSTRUCTION

NORTH

NC DEPARTMENT of COMMERCE
COMMUNITY REVITALIZATION

Josh Stein
GOVERNOR

Lee Lilley
SECRETARY

Stephanie McGarrah
DEPUTY SECRETARY

Electronic Delivery Via: pmyers@ebci-nsn.gov; syerka@nc-cherokee.com

May 1, 2026

Mr. Michell Hicks, Principal Chief
Eastern Band of Cherokee Indians
88 Council House Loop Road
Cherokee, NC 28719

Mr. Stephen Yerka, Tribal Historic Preservation Specialist
Eastern Band of Cherokee Indians
Qualla Boundary
P.O. Box 455
Cherokee, NC 28715

RE: Section 106 of the National Historic Preservation Act Consultation
Harkins Avenue Subdivision Development, Haywood County
North Carolina Department of Commerce, Division of Community Revitalization and the North Carolina Office of Recovery and Resiliency

Dear Chief Hicks and Mr. Yerka,

The North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) is proposing to use Community Development Block Grant - Disaster Recovery funds for construction of the Harkins Avenue Subdivision Development. The project proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is located in West Canton, Haywood County, North Carolina (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: -82.870754, 35.540037).

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potential adverse effects. We value your assistance and look forward to consulting further if there are historic properties of religious and cultural significance to your tribe that may be affected by this project.

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Respectfully Yours,

Daniel Herrera
Environmental Program Manager
North Carolina Department of Commerce
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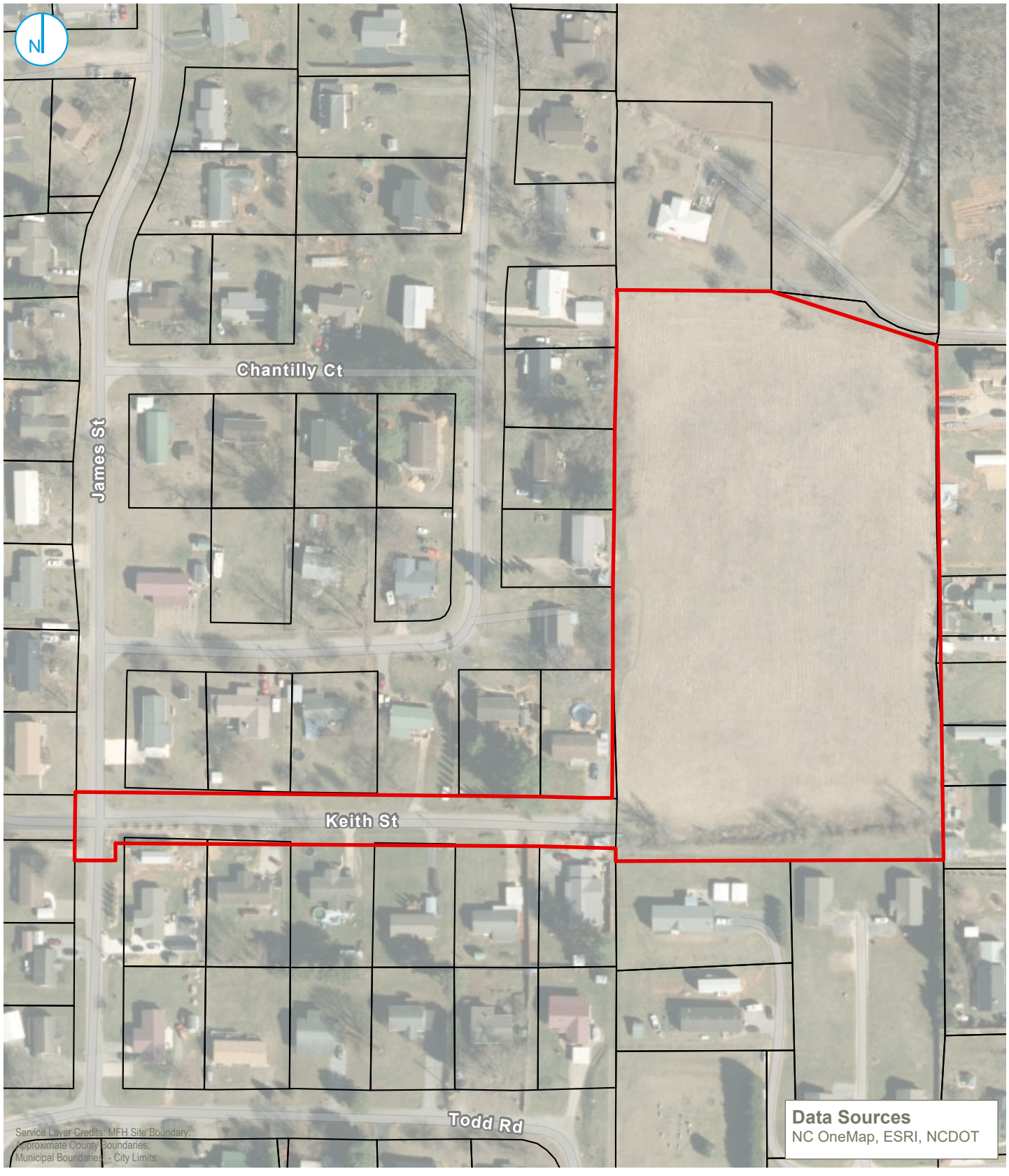
Enclosures:
Project Site Location Map, Site Plan, Conceptual Keith St Stormwater Improvement



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 01 - Site Location

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Map Scale: 1:2,400 | Map Center: 82°52'19"W 35°32'23"N

KEY MAP (not to scale)

- Approximate Site Boundary
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0 100 200 Feet

SITE LOCATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

SITE NOTES

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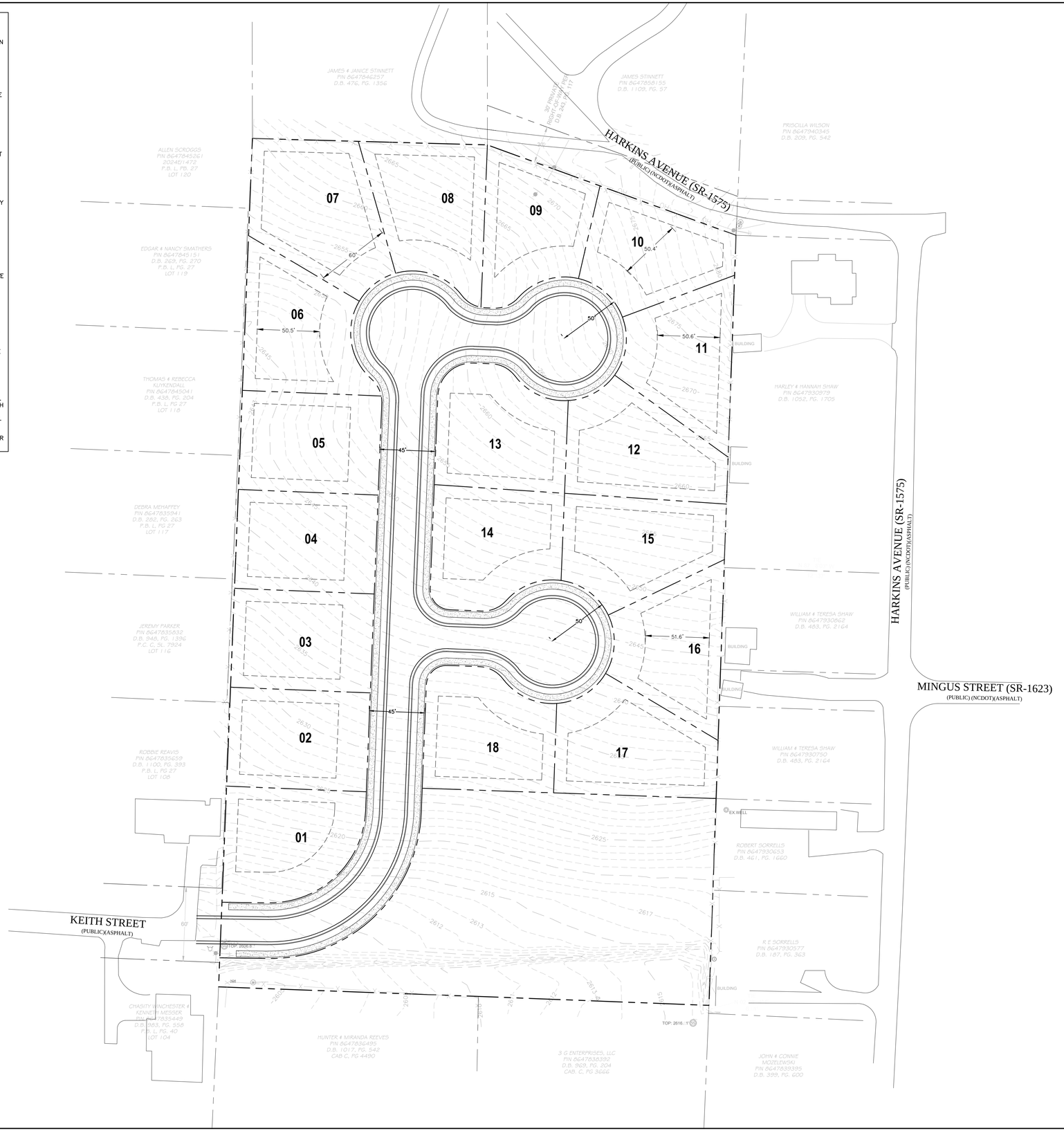

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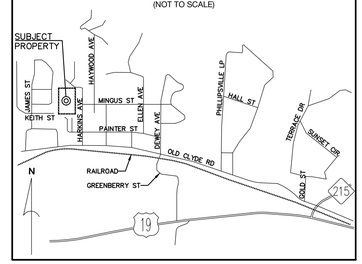

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CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

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DEED BOOK/PAGE:	1043/1001
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GRAPHIC SCALE

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(IN FEET)
1 inch = 40 ft.

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FAX (828) 252-5365

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WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036181 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXXX
XXX PERMIT NO. XXXX

SHEET

C201

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Electronic Delivery Via: section106@muscogeenation.com; swaters@muscogeenation.com; leeannewendt@outlook.com

May 1, 2026

Mr. David Hill, Principal Chief
Muscogee (Creek) Nation 1007 East Eufaula Street
Okmulgee, Oklahoma 74447

Dr. Savannah Waters, Tribal Historic Preservation Officer
Muscogee (Creek) Nation
P.O. Box 580
Okmulgee, Oklahoma 74447

Ms. Leeane Wendt, Tribal Archaeologist
Muscogee (Creek) Nation
P.O. Box 580
Okmulgee, Oklahoma 74447

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Harkins Avenue Subdivision Development, Haywood County
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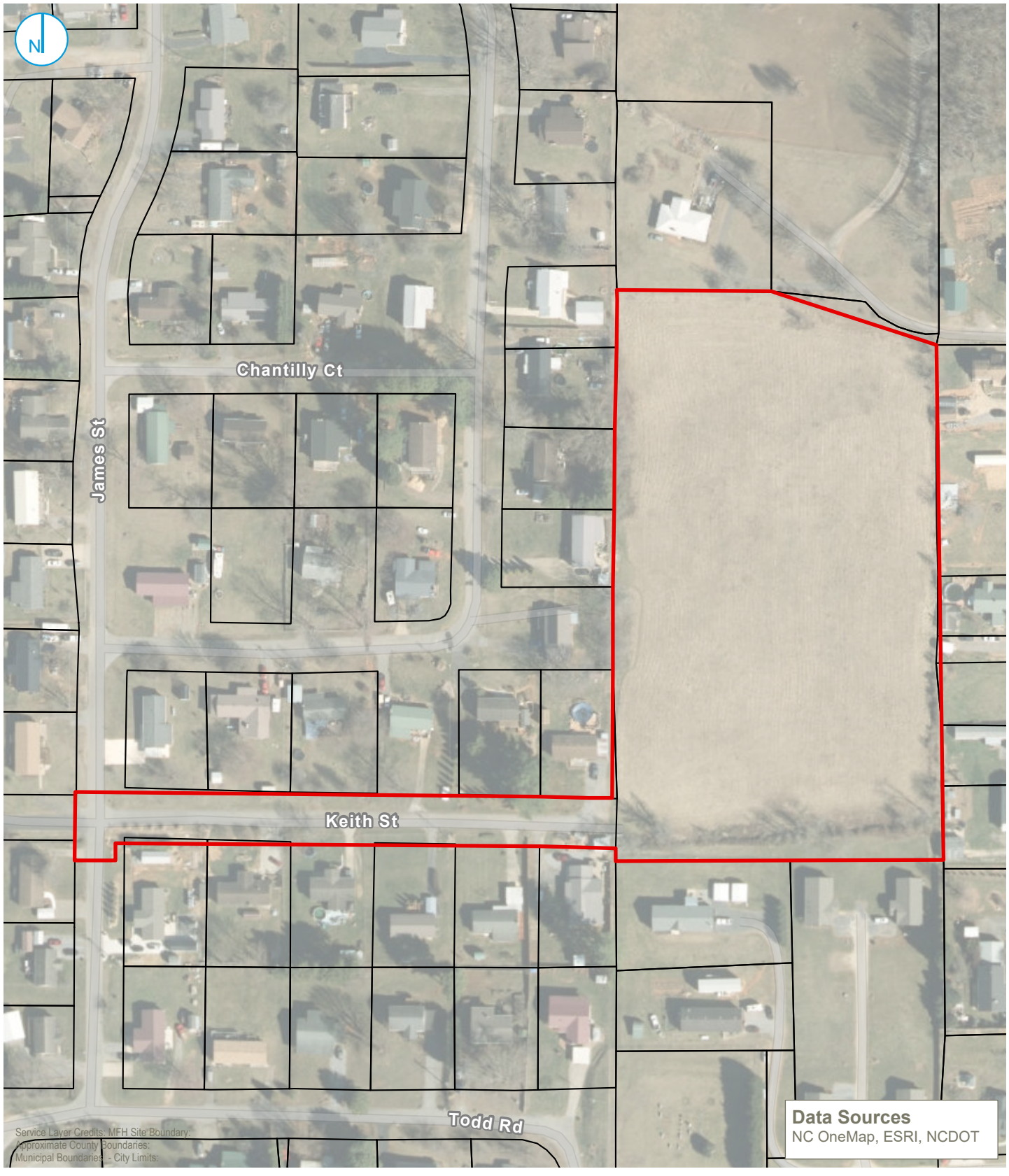

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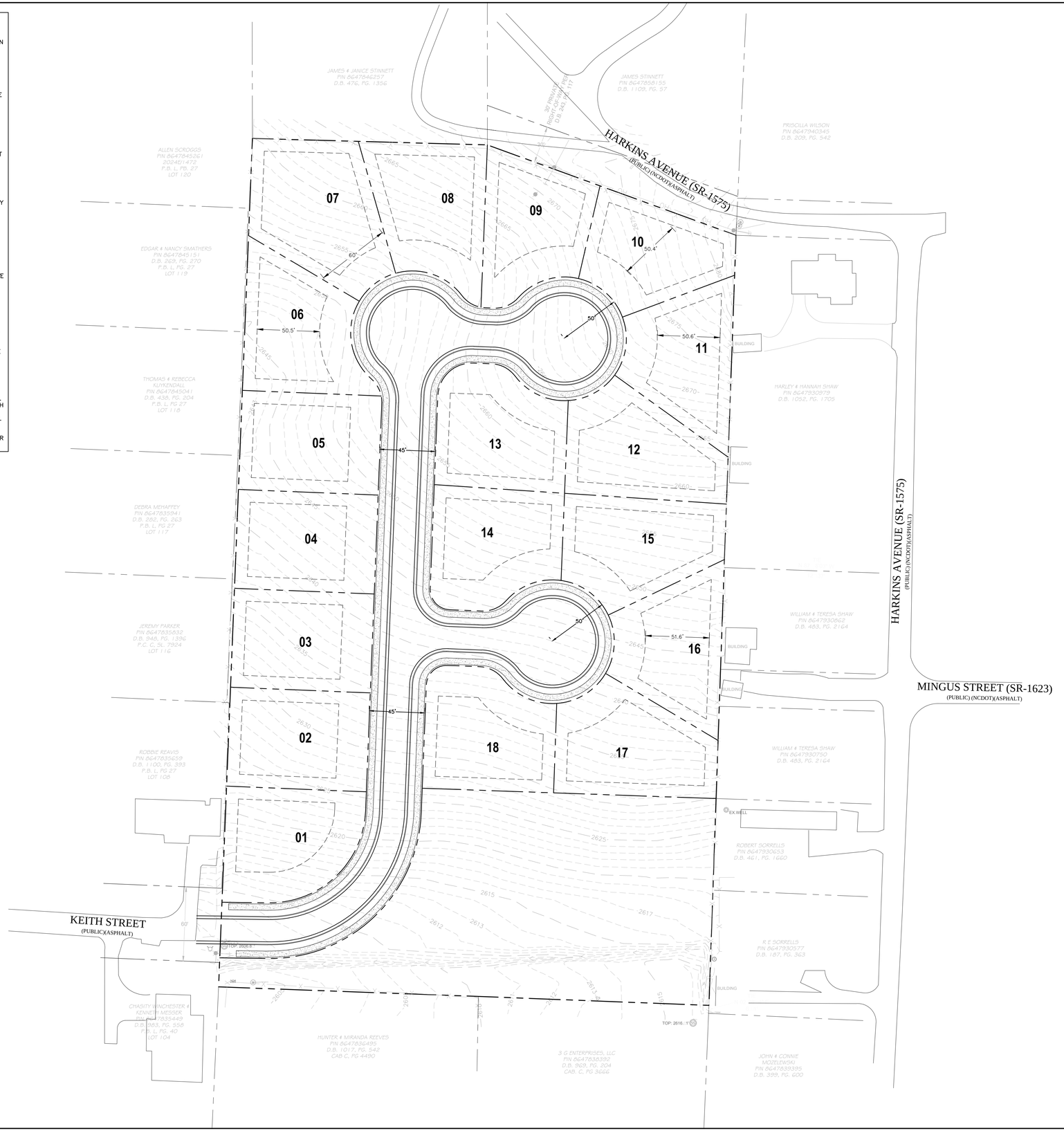

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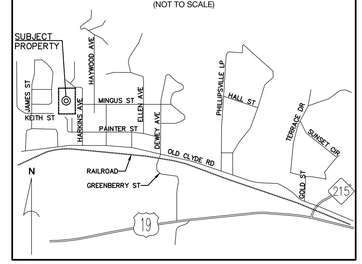

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May 1, 2026

Dr. Wenonah G. Haire, Tribal Historic Preservation Officer
Catawba Nation
1536 Tom Steven Road
Rock Hill, SC 29730

Ms. Caitlin Rogers, Cultural Division Program Manager
Catawba Nation
1536 Tom Steven Road
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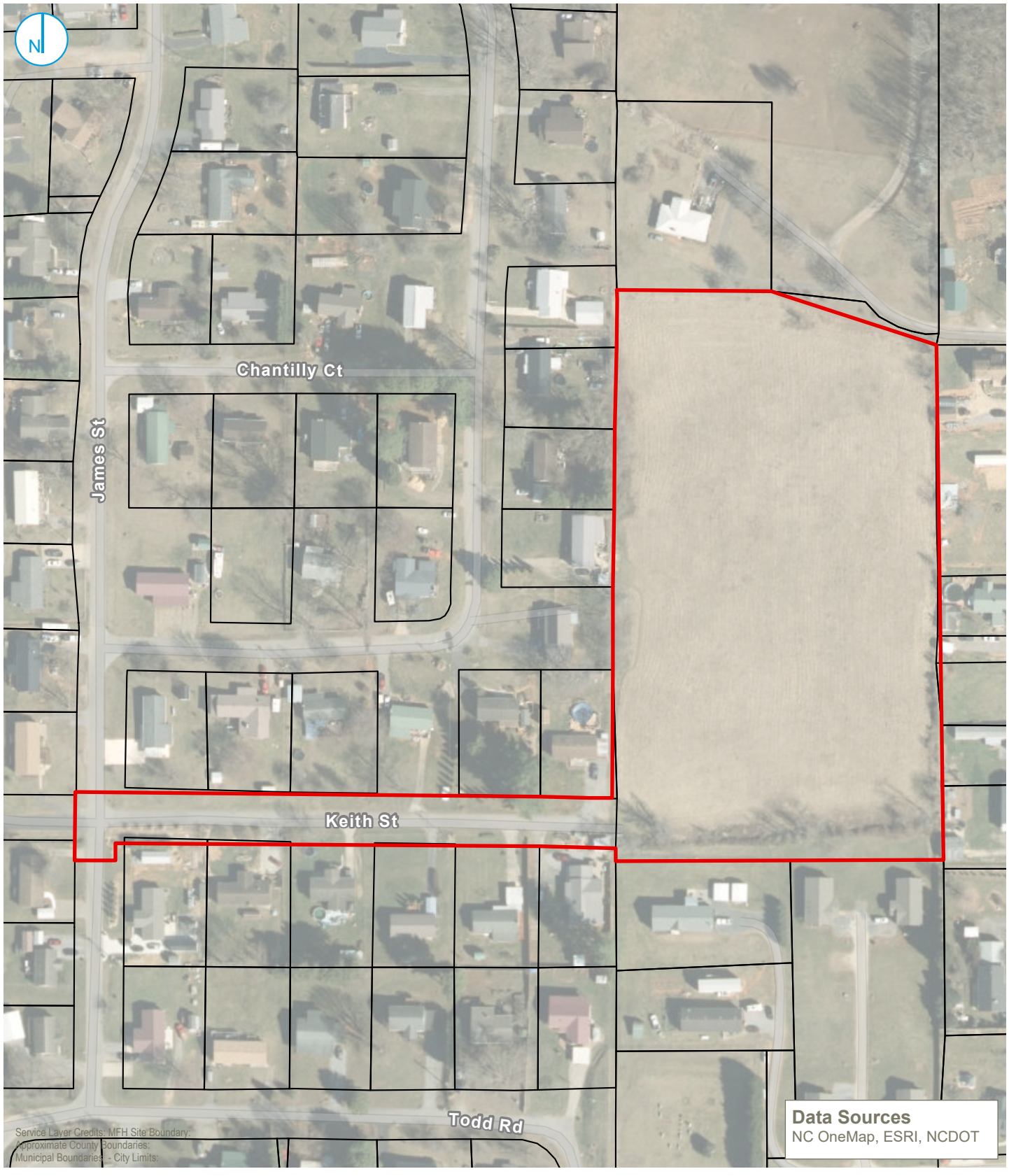

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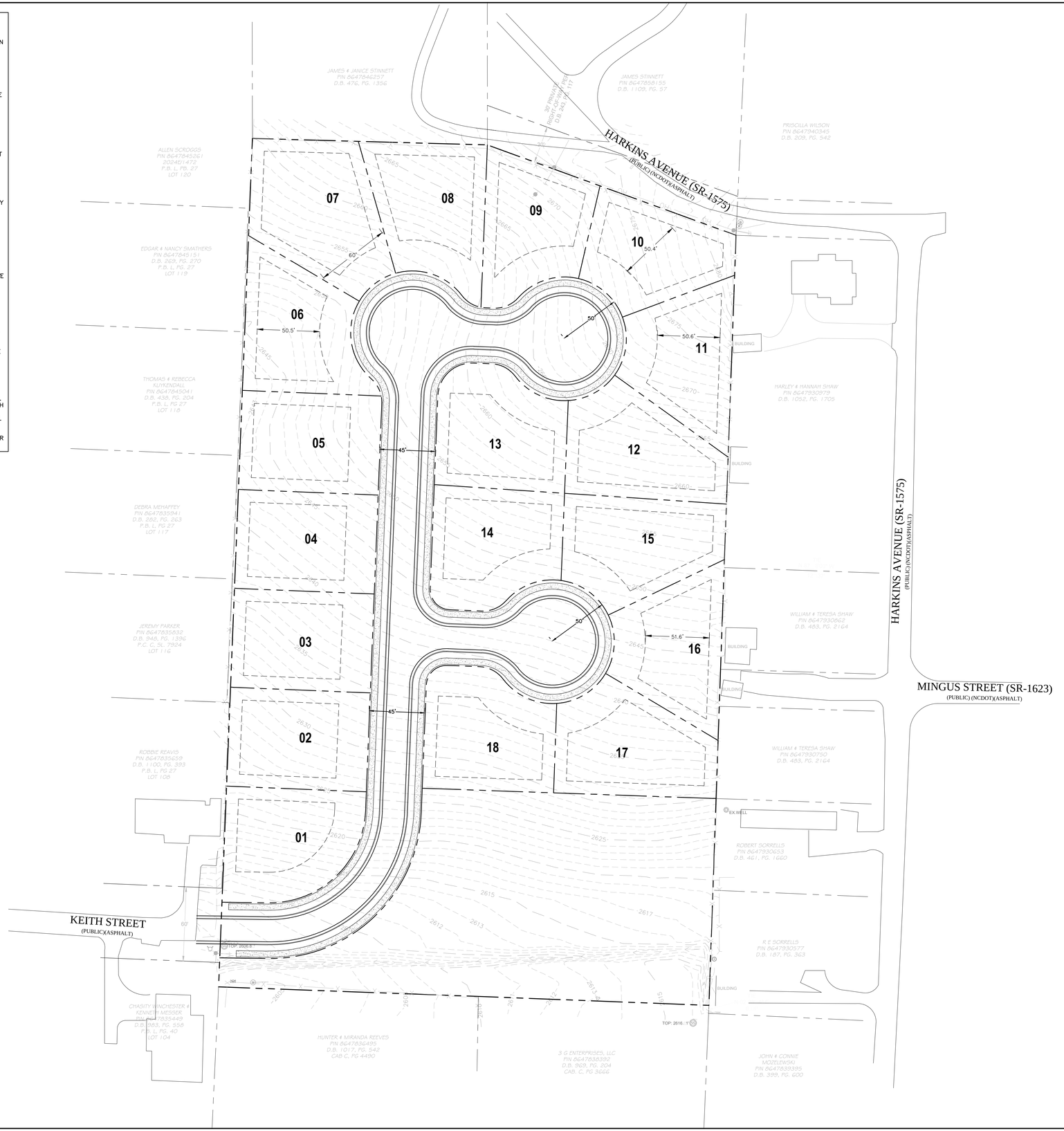
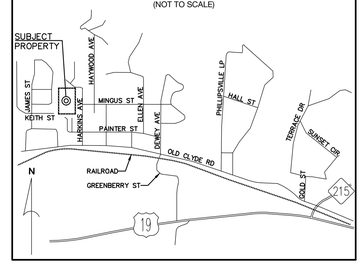
3. ALL WORK MUST BE PERFORMED BY A **NORTH CAROLINA** LICENSED CONTRACTOR.
4. TO SCHEDULE THE REQUIRED INSPECTIONS ON ALL WORK, CALL THE CIVIL DESIGN CONCEPTS INSPECTIONS HOTLINE AT 828-771-4755, OR EMAIL AT INSPECTIONS@CDCGO.COM. FAILURE TO SCHEDULE INSPECTIONS MAY RESULT IN UNCOVERING OR REDOING WORK
5. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION. CONTACT ENGINEER TO CONFIRM IF ADDITIONAL PERMITS ARE NEEDED.
6. CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES (SHOWN TO REMAIN) AND NEWLY COMPLETED WORK DURING CONSTRUCTION. ANY DAMAGE INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY ULOCO AT 1-800-632-4949 OR 811, 72 HOURS BEFORE CONSTRUCTION BEGINS.
8. SIDEWALKS SHALL BE CONSTRUCTED IN ORDER TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. SIDEWALKS TO MEET ALL ADA/PROWAG STANDARDS. CONTRACTOR TO NOTIFY ENGINEER AFTER FORMING BUT PRIOR TO POURING SIDEWALK. ANY SIDEWALK/CROSSWALK NOT INSTALLED TO REQUIRED STANDARDS SHALL BE REMOVED AND REPLACED AT CONTRACTORS EXPENSE.
9. ALL RADII LISTED ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED. ALL PARKING LOT RADII ARE **4'** UNLESS OTHERWISE NOTED.
10. ALL ROAD/PARKING LOT IMPROVEMENTS, STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION AND THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). CONTRACTOR MAY USE A PAINT SUITABLE FOR ASPHALT APPLICATION IN LIEU OF THERMOPLASTIC WITH PRIOR APPROVAL FROM THE ENGINEER.
11. CURB AND GUTTER ON THE HIGH SIDE OF PAVED AREAS AND ROADS SHALL BE CONSTRUCTED WITH SPILLOUT CURB AND GUTTER. CURB AND GUTTER ON THE LOW SIDE SHALL BE CONSTRUCTED WITH STANDARD CURB AND GUTTER; REFER TO SPILLOUT CURB AND GUTTER DETAILS. CURB END TREATMENT SHALL BE APPLIED AT ALL CURB ENDS; REFER TO CURB END TREATMENT DETAIL.
12. PROPOSED ROADS TO BE **PRIVATE. NCDOT IS NOT** RESPONSIBLE FOR ANY ROAD MAINTENANCE.



VICINITY MAP

(NOT TO SCALE)



DEVELOPMENT DATA

OWNER/DEVELOPER:	MOUNTAIN PROJECTS, INC. 2177 ASHEVILLE RD WAYNESVILLE, NV 28786-3139
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 84 COXE AVE - STE 260 ASHEVILLE, NC 28801
CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

PROJECT DATA

PIN:	8647-83-7739
ADDRESS:	HARKINS AVE.
DEED BOOK/PAGE:	1043/1001
PROJECT ACREAGE:	5.97± ACRES
CURRENT ZONING:	N/A
PROPOSED ZONING:	R-1, SINGLE FAMILY

MINIMUM SETBACK FROM PROPERTY LINE:

FRONT:	25'
SIDES:	10'
REAR:	10'

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811 Know what's **below.** **Call** before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

84 COXE AVENUE - SUITE 260
ASHEVILLE, NC 28801
PHONE (828) 252-5388
FAX (828) 252-5365

52 WALNUT STREET - SUITE 9
WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036181 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXXX
XXX PERMIT NO. XXXX

SHEET

C201

HARKINS AVENUE (SR-1575)
(PUBLIC/ASPHALT)

JAMES STREET
(PUBLIC/ASPHALT)

KEITH STREET
(PUBLIC/ASPHALT)

PROPOSED STORMWATER PIPE (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

APPROXIMATE LOCATION OF
EXISTING STORM PIPE (TYP)

APPROXIMATE LOCATION OF
EXISTING STORM CULVERT (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

PROPOSED STORMWATER SYSTEM (TYP)

PROPOSED STORMWATER CONTROL MEASURE

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

CDC Civil Design Concepts, PA
NCBELS # C-2184

HARKINS AVE SUBDIVISION
CONCEPTUAL KIETH ST STORMWATER IMPROVEMENT
PROGRESS DRAWINGS DO NOT USE FOR CONSTRUCTION

NORTH

Catawba Indian Nation
Tribal Historic Preservation Office
1536 Tom Steven Road
Rock Hill, South Carolina 29730

Office 803-328-2427

June 3, 2026

Attention: Daniel Herrera
NC Department of Commerce
301 North Wilmington Street
Raleigh, NC 27699

Re. THPO #	TCNS #	Project Description
2026-694-27		Harkins Avenue Subdivision Development, Haywood County

Dear Mr. Herrera,

The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. **However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project.**

If you have questions, please contact Caitlin Rogers at 803-328-2427 ext. 226, or e-mail Caitlin.Rogers@catawba.com.

Sincerely,

Caitlin Rogers for

Wenonah G. Haire
Tribal Historic Preservation Officer

EBCI Treatment Guidelines for Human Remains and Funerary Objects (Survey, Excavation, Laboratory/Analysis, and Curation Guidelines)

It is the wish of the EBCI that whenever possible, human interments be left in situ, unstudied, and protected from current and future disturbance. However, when these parameters cannot be met, the following guidance shall apply:

Archeological Surveys: The EBCI requests that in the event human remains, funerary objects, sacred objects, or objects of cultural patrimony are encountered, no photographs of such items be taken. Detailed drawings are permissible, however.

Excavations: The EBCI requests that in the event human remains, funerary objects, sacred objects, or objects of cultural patrimony are encountered, no photographs of such items be taken. Detailed drawings are permissible, however. Also, if after consultation with the SHPO and culturally affiliated, federally recognized tribes, the lead agency determines that the excavation of these items is required, the EBCI requests that only the lead archaeologist and a physical anthropologist participate in the removal of these items. The EBCI also requests that, in the case of full excavation of human remains, the entire burial matrix be removed and curated for future reburial. Lastly, EBCI requests to be sent the proposals and research designs that will be provided to the SHPO and State Archaeologist for review and approval prior to the initiation of any excavation activities.

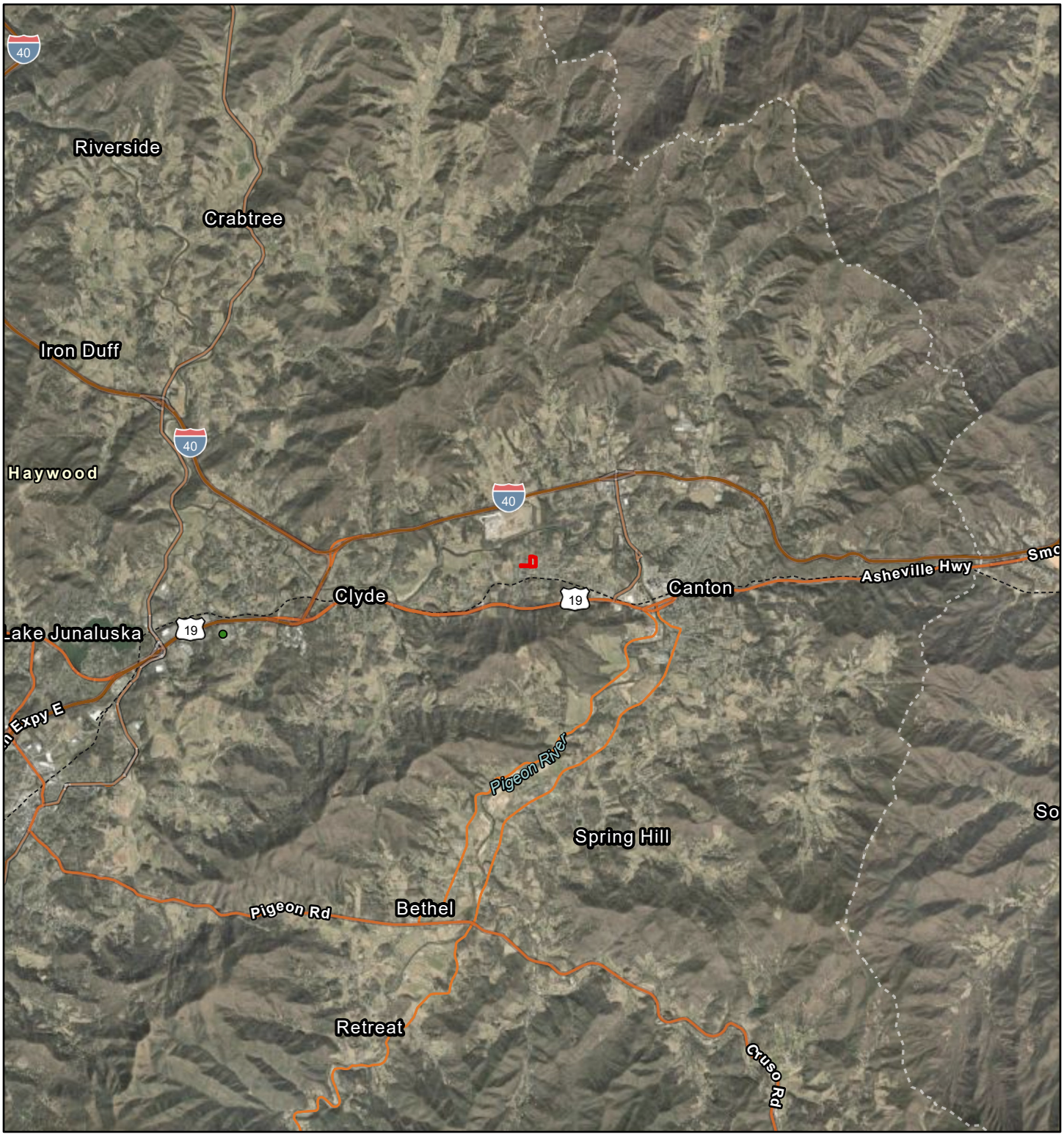
Laboratory Treatment/Analysis: The EBCI requests that any human remains, funerary objects, sacred objects, and/or objects of cultural patrimony not be unnecessarily washed or cleaned, and that only dry brushing be consistently used. Again, we request that no photographs be taken of such objects for documentation or curation purposes, however detailed drawings are acceptable. Furthermore, in terms of human remains, we require that no destructive analyses be permitted, and we would like to have discussions and agreements about the kind of analyses, if any, that will be permitted.

Curation: The EBCI requests that in all cases where it is remotely feasible, that human remains, associated funerary objects, and the burial matrix be stored together. Furthermore, we ask that these type of objects, as well as sacred objects and objects of cultural patrimony, be removed from public viewing or public handling and that researchers not automatically be granted access to such items. Research requests should be submitted to the EBCI Cultural Resources office in the event someone wishes to study such items.

Avoidance/Preservation in Place/Excavation/Reburial: Remember, our preference is always avoidance/preservation in place. Unless there are very good reasons as to why this is not possible, we will not immediately enter into discussions of excavation, removal, study, reburial, etc. That being said, if remains must be moved, it is always our preference that they be out of the ground for only as long as it takes to move them to their new resting place, which should be as close to the original resting place as possible (within line of sight). Sometimes, we do allow minimal study of the remains, especially if it can be done with the remains in situ. If longer study is needed, we prefer a field lab to sending them off some distance to be studied in a lab. The bottom line is that the less time they are exposed to the air, the better it is for the people involved and the Tribe. If reburial is the only option, the most efficient/time sensitive reburial process is preferred. Also, capping of the burials is not typically problematic, especially if there is ample fill dirt between the individual and the foreign capping material.

Noise Abatement and Control

Noise Sources | Harkins Ave



7/1/2026

- Project Site Boundary
- Primary Roads
- Secondary Roads
- Railroads
- Aviation Facilities

1:144,448

0 5,000 10,000 20,000 ft

0 1,625 3,250 6,500 m

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, U.S. Census Bureau (USCB), This NTAD dataset is a work of the United States government as defined in 17 U.S.C. § 101 and as such are not protected by any U.S. copyrights. This work is available for unrestricted public use., National Transportation Atlas

Day/Night Noise Level (DNL) Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the **Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/)**.

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

Tools and Guidance

Day/Night Noise Level Assessment Tool User Guide (/resource/3822/day-night-noise-level-assessment-tool-user-guide/)

Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-assessment-tool-flowcharts/)

Federal Railroad Administration Railroad Operations Data Sources (https://www.hudexchange.info/resource/60 railroad-administration-railroad-operations-data-sources/)

DNL Calculator

Site ID	Harkins Ave Development
Record Date	06/19/2026
User's Name	Karyn Desselle

Railroad #1 Track Identifier: Blue Ridge Southern Railroad | DOT Crossing Inven

Rail # 1

Train Type	**Electric** ☐	**Diesel** ☑
Effective Distance		775
Average Train Speed		25
Engines per Train		2
Railway cars per Train		50
Average Train Operations (ATO)		4
Night Fraction of ATO		50
Railway whistles or horns?	Yes: ☐ No: ☐	Yes: ☑ No: ☐
Bolted Tracks?	Yes: ☐ No: ☐	Yes: ☑ No: ☐
Train DNL	0	61
Calculate Rail #1 DNL	61	Reset

Add Road Source | Add Rail Source

Airport Noise Level	
Loud Impulse Sounds?	○**Yes** ○**No**
Combined DNL for all Road and Rail sources	**51**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate | Reset

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**: Cancel the project at this location

- **Other Reasonable Alternatives**: Choose an alternate site
- **Mitigation**
  - **Contact your Field or Regional Environmental Officer (/programs/environmental-review/hud-environmental-staff-contacts/)**
  - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
  - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
  - Incorporate natural or man-made barriers.
  - Construct noise barrier. See the **Barrier Performance Module (/programs/environmental-review/bpm-calculator/)**

U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-0017

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to the updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk * denotes an optional field.

A. Revision Date (MM/DD/YYYY)	B. Reporting Agency	C. Reason for Update (Select only one)	D. DOT Crossing Inventory Number
09 / 18 / 2025	☒ Railroad ☐ Transit ☐ State ☐ Other	☒ Change in Data ☐ New Crossing ☐ Closed ☐ No Train Traffic ☐ Quiet Zone Update ☐ Re-Open ☐ Date Change Only ☐ Change in Primary Operating RR ☐ Admin. Correction	904787Y

Part I: Location and Classification Information

1. Primary Operating Railroad	2. State	3. County
BLUE RIDGE SOUTHERN RAILROAD [BLU]	NORTH CAROLINA	HAYWOOD

4. City / Municipality	5. Street/Road Name & Block Number	6. Highway Type & No.
☐ In ☒ Near CANTON	OLD 19 23 (Street/Road Name) | * (Block Number)	hwy

7. Do Other Railroads Operate a Separate Track at Crossing?	8. Do Other Railroads Operate Over Your Track at Crossing?
☐ Yes ☒ No If Yes, Specify RR	☐ Yes ☒ No If Yes, Specify RR

9. Railroad Division or Region	10. Railroad Subdivision or District	11. Branch or Line Name	12. RR Milepost
☒ None	☐ None Canton	☐ None T-Line	t | 0018.900 | (prefix) | (nnnn.nnn) | (suffix)

13. Line Segment *	14. Nearest RR Timetable Station *	15. Parent RR (if applicable)	16. Crossing Owner (if applicable)
	CANTON	☒ N/A	☒ N/A

17. Crossing Type	18. Crossing Purpose	19. Crossing Position	20. Public Access (if Private Crossing)	21. Type of Train	22. Average Passenger Train Count Per Day
☐ Public ☒ Private	☒ Highway ☐ Pathway, Ped. ☐ Station, Ped.	☒ At Grade ☐ RR Under ☐ RR Over	☐ Yes ☒ No	☒ Freight ☐ Intercity Passenger ☐ Commuter ☐ Transit ☐ Shared Use Transit ☐ Tourist/Other	☐ Less Than One Per Day ☐ Number Per Day 0

23. Type of Land Use
☐ Open Space ☒ Farm ☐ Residential ☐ Commercial ☐ Industrial ☐ Institutional ☐ Recreational ☐ RR Yard

24. Is there an Adjacent Crossing with a Separate Number?	25. Quiet Zone (FRA provided)
☐ Yes ☒ No If Yes, Provide Crossing Number	☒ No ☐ 24 Hr ☐ Partial ☐ Chicago Excused Date Established

26. HSR Corridor ID	27. Latitude in decimal degrees	28. Longitude in decimal degrees	29. Lat/Long Source
☒ N/A	(WGS84 std: nn.nnnnnnn) 35.5365560	(WGS84 std: -nnn.nnnnnnn) -082.8723340	☒ Actual ☐ Estimated

30.A. Railroad Use *	31.A. State Use *
30.B. Railroad Use *	31.B. State Use *
30.C. Railroad Use *	31.C. State Use *
30.D. Railroad Use *	31.D. State Use *
32.A. Narrative (Railroad Use) *	32.B. Narrative (State Use) *

33. Emergency Notification Telephone No. (posted)	34. Railroad Contact (Telephone No.)	35. State Contact (Telephone No.)
866-386-9321	828-782-0092	919-707-4100

Part II: Railroad Information

1. Estimated Number of Daily Train Movements

1.A. Total Day Thru Trains (6 AM to 6 PM)	1.B. Total Night Thru Trains (6 PM to 6 AM)	1.C. Total Switching Trains	1.D. Total Transit Trains	1.E. Check if Less Than One Movement Per Day ☐ How many trains per week?
2	2	0	0	

2. Year of Train Count Data (YYYY)	3. Speed of Train at Crossing
2023	3.A. Maximum Timetable Speed (mph) 25 3.B. Typical Speed Range Over Crossing (mph) From 20 to 25

4. Type and Count of Tracks
Main 1 Siding 0 Yard 0 Transit 0 Industry 0

5. Train Detection (Main Track only)
☐ Constant Warning Time ☐ Motion Detection ☐AFO ☐ PTC ☐ DC ☐ Other ☒ None

6. Is Track Signaled?	7.A. Event Recorder	7.B. Remote Health Monitoring
☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No

U. S. DOT CROSSING INVENTORY FORM

A. Revision Date *(MM/DD/YYYY)*	PAGE 2	D. Crossing Inventory Number *(7 char.)*
09/18/2025		904787Y

Part III: Highway or Pathway Traffic Control Device Information

1. Are there Signs or Signals? ☒ Yes ☐ No

2. Types of Passive Traffic Control Devices associated with the Crossing

2.A. Crossbuck Assemblies *(count)*	2.B. STOP Signs *(R1-1)* *(count)*	2.C. YIELD Signs *(R1-2)* *(count)*	2.D. Advance Warning Signs *(Check all that apply; include count)* ☒ None
0	0	0	☐ W10-1 _____ ☐ W10-3 _____ ☐ W10-11 _____ ☐ W10-2 _____ ☐ W10-4 _____ ☐ W10-12 _____

2.E. Low Ground Clearance Sign *(W10-5)*	2.F. Pavement Markings	2.G. Channelization Devices/Medians	2.H. EXEMPT Sign *(R15-3)*	2.I. ENS Sign *(I-13)* Displayed
☒ Yes *(count_____)* ☐ No	☒ Stop Lines ☐ Dynamic Envelope ☐ RR Xing Symbols ☐ None	☐ All Approaches ☐ Median ☐ One Approach ☒ None	☐ Yes ☒ No	☒ Yes ☐ No

2.J. Other MUTCD Signs ☐ Yes ☒ No	2.K. Private Crossing Signs *(if private)*	2.L. LED Enhanced Signs *(List types)*
Specify Type _____ Count _____ Specify Type _____ Count _____ Specify Type _____ Count _____	☐ Yes ☒ No	

3. Types of Train Activated Warning Devices at the Grade Crossing *(specify count of each device for all that apply)*

3.A. Gate Arms *(count)*	3.B. Gate Configuration	3.C. Cantilevered *(or Bridged)* Flashing Light Structures *(count)*	3.D. Mast Mounted Flashing Lights *(count of masts)* 0	3.E. Total Count of Flashing Light Pairs
Roadway 0 Pedestrian 0	☐ 2 Quad ☐ 3 Quad ☐ 4 Quad ☐ Full *(Barrier)* Resistance ☐ Median Gates	Over Traffic Lane 0 ☐ Incandescent Not Over Traffic Lane 0 ☐ LED	☐ Incandescent ☐ LED ☐ Back Lights Included ☐ Side Lights Included	0

3.F. Installation Date of Current Active Warning Devices: *(MM/YYYY)*	3.G. Wayside Horn	3.H. Highway Traffic Signals Controlling Crossing	3.I. Bells *(count)*
_____/_____ ☒ Not Required	☐ Yes Installed on *(MM/YYYY)* _____/_____ ☒ No	☐ Yes ☒ No	0

3.J. Non-Train Active Warning	3.K. Other Flashing Lights or Warning Devices
☐ Flagging/Flagman ☐ Manually Operated Signals ☐ Watchman ☐ Floodlighting ☒ None	Count 0 Specify type _____

4.A. Does nearby Hwy Intersection have Traffic Signals?	4.B. Hwy Traffic Signal Interconnection	4.C. Hwy Traffic Signal Preemption	5. Highway Traffic Pre-Signals	6. Highway Monitoring Devices *(Check all that apply)*
☐ Yes ☒ No	☒ Not Interconnected ☐ For Traffic Signals ☐ For Warning Signs	☐ Simultaneous ☐ Advance	☐ Yes ☒ No Storage Distance * _____ Stop Line Distance * _____	☐ Yes - Photo/Video Recording ☐ Yes – Vehicle Presence Detection ☒ None

Part IV: Physical Characteristics

1. Traffic Lanes Crossing Railroad	2. Is Roadway/Pathway Paved?	3. Does Track Run Down a Street?	4. Is Crossing Illuminated? *(Street lights within approx. 50 feet from nearest rail)*
☒ One-way Traffic ☐ Two-way Traffic ☐ Divided Traffic Number of Lanes 1	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No

5. Crossing Surface *(on Main Track, multiple types allowed)* Installation Date * *(MM/YYYY)* _____/_____ Width * _____ Length * _____
☐ 1 Timber ☐ 2 Asphalt ☒ 3 Asphalt and Timber ☐ 4 Concrete ☐ 5 Concrete and Rubber ☐ 6 Rubber ☐ 7 Metal
☐ 8 Unconsolidated ☐ 9 Composite ☐ 10 Other *(specify)* _____

6. Intersecting Roadway within 500 feet?	7. Smallest Crossing Angle	8. Is Commercial Power Available? *
☒ Yes ☐ No If Yes, Approximate Distance *(feet)* 200	☐ 0° – 29° ☐ 30° – 59° ☐ 60° - 90°	☐ Yes ☒ No

Part V: Public Highway Information

1. Highway System	2. Functional Classification of Road at Crossing	3. Is Crossing on State Highway System?	4. Highway Speed Limit
☐ (01) Interstate Highway System ☐ (02) Other Nat Hwy System (NHS) ☐ (03) Federal AID, Not NHS ☐ (08) Non-Federal Aid	☐ (0) Rural ☐ (1) Urban ☒ (1) Interstate ☐ (5) Major Collector ☐ (2) Other Freeways and Expressways ☐ (3) Other Principal Arterial ☐ (6) Minor Collector ☐ (4) Minor Arterial ☐ (7) Local	☐ Yes ☒ No	_____ MPH ☐ Posted ☐ Statutory
		5. Linear Referencing System *(LRS Route ID)* *	
		6. LRS Milepost *	

7. Annual Average Daily Traffic *(AADT)*	8. Estimated Percent Trucks	9. Regularly Used by School Buses?	10. Emergency Services Route
Year 2002 AADT _____	00 %	☐ Yes ☒ No Average Number per Day _____	☐ Yes ☐ No

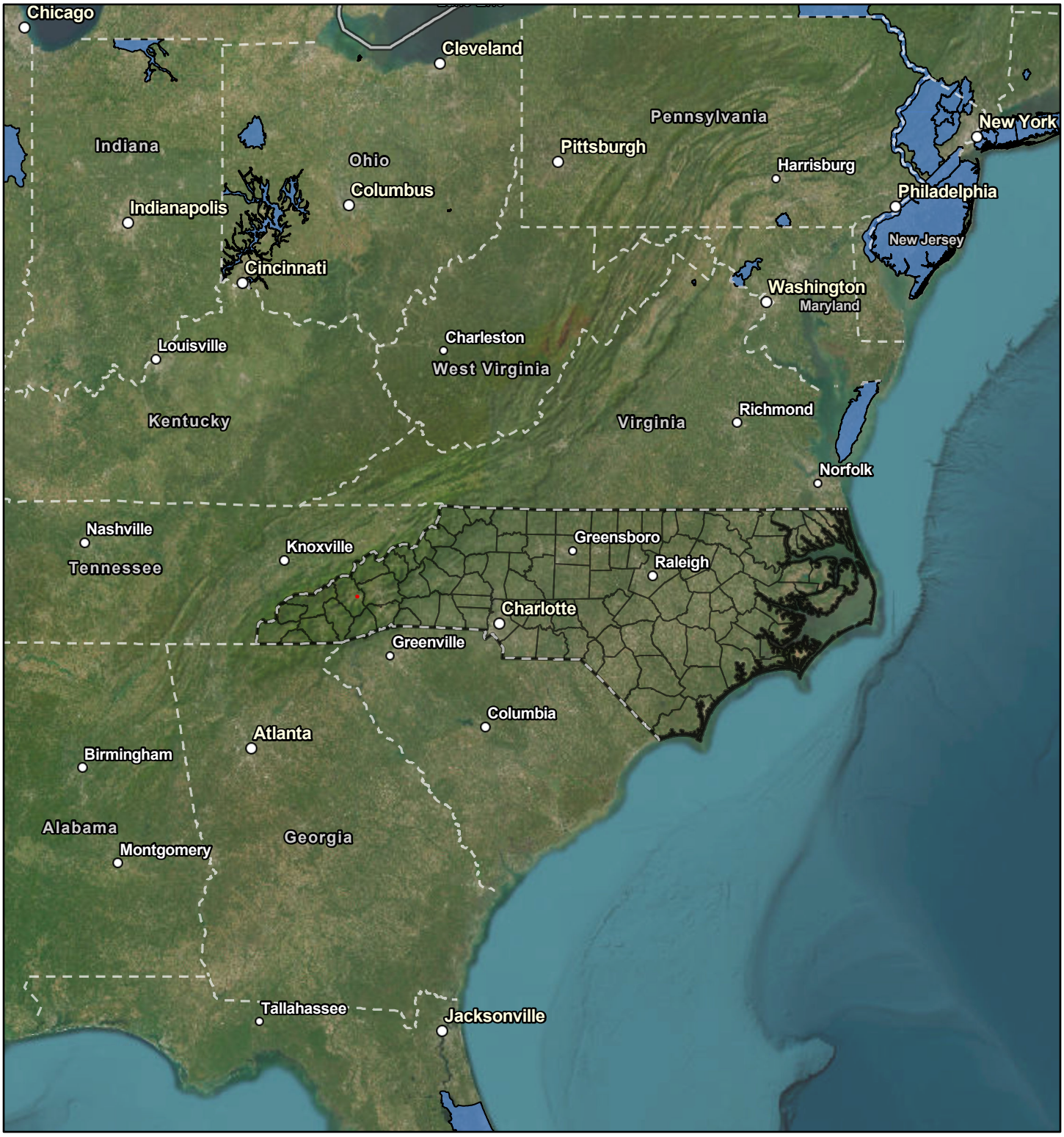
Submission Information - *This information is used for administrative purposes and is not available on the public website.*

Submitted by _____ Organization _____ Phone _____ Date _____

Public reporting burden for this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for information collection is 2130-0017. Send comments regarding this burden estimate or any other aspect of this collection, including for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25 Washington, DC 20590.

Sole Source Aquifers

North Carolina Sole Source Aquifer Map



7/1/2026

- Project Site Boundary
- North Carolina State Boundary
- County Boundaries
- Sole Source Aquifer

1:8,837,902

0 60 120 240 mi

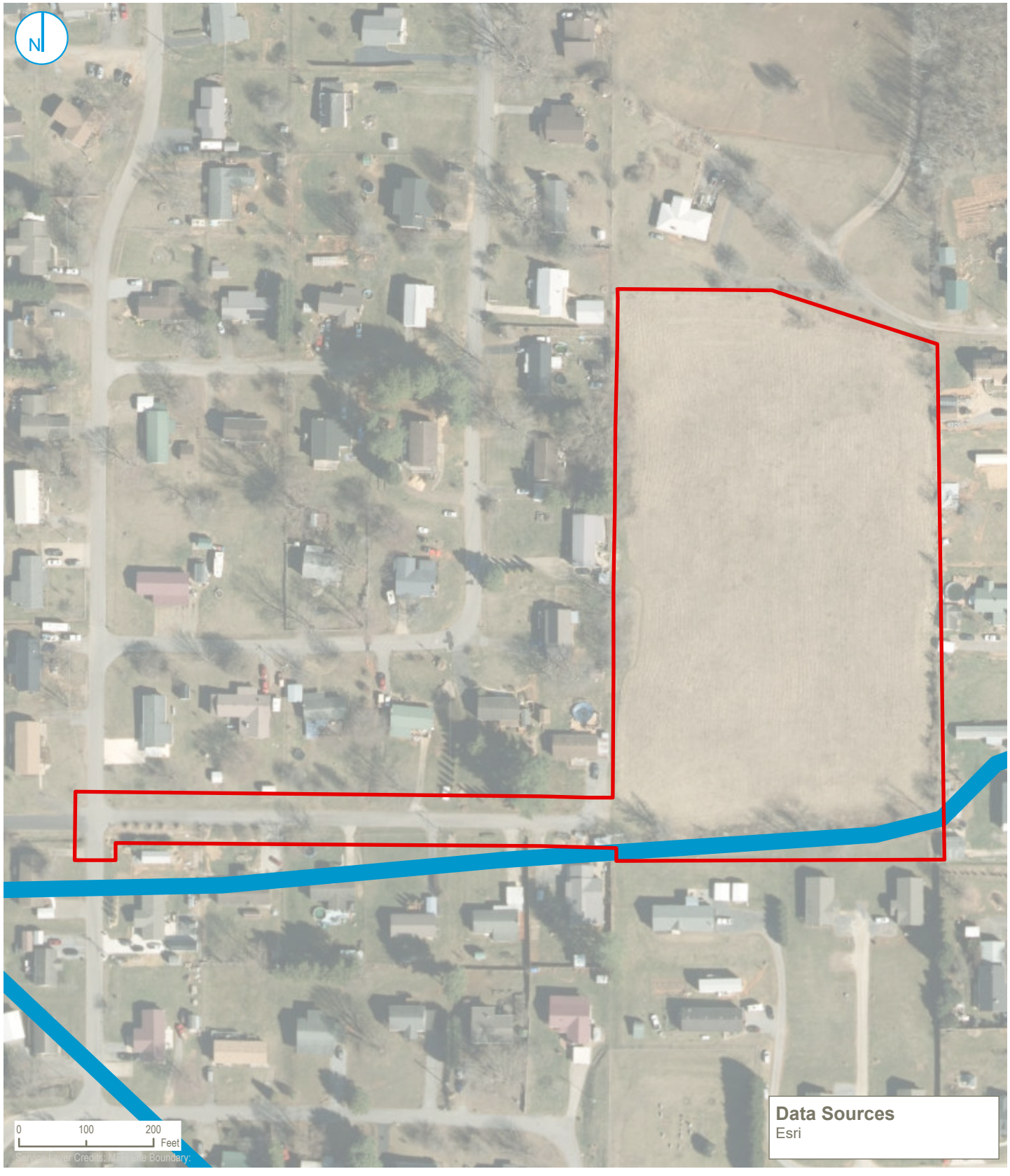
0 95 190 380 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Sources: Esri; U.S. Department of Commerce, Census Bureau; U.S. Department of Commerce (DOC), National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), National Geodetic Survey (NGS), This dataset was

Wetlands Protection

C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation aprx\Figure 23 - National Wetlands Inventory

PROJECT: 1690000XXXX | DATED: 4/23/2026 | DESIGNER: ATAYLOR



- Approximate Site Boundary
- Marine
- Estuary
- Marsh, Swamp, Bog, Prairie
- River
- Lake, Reservoir

NATIONAL WETLANDS INVENTORY

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 12

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

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NC DEPARTMENT of COMMERCE
COMMUNITY REVITALIZATION

Josh Stein
GOVERNOR

Lee Lilley
SECRETARY

Stephanie McGarrah
DEPUTY SECRETARY

Electronic Delivery Via: Mickey.T.Sugg@usace.army.mil; AshevilleNCREG@usace.army.mil

May 1, 2026

Mr. Mickey Sugg
Asheville Regulatory Field Office Chief
USACE Asheville Regulatory Field Office
151 Patton Avenue, Room 208
Asheville, North Carolina 28801-5006

RE: Wetlands and Waters of the US - Section 404 of the Clean Water Act
Harkins Avenue Subdivision Development, Haywood County
North Carolina Department of Commerce, Division of Community Revitalization and the North Carolina Office of Recovery and Resiliency

Dear Mr. Sugg,

The North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) is proposing to use Community Development Block Grant - Disaster Recovery funds for construction of the Harkins Avenue Subdivision Development. The project proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is located in West Canton, Haywood County, North Carolina (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: -82.870754, 35.540037).

In accordance with 24 CFR § 58.4, DCR has assumed the role of Responsible Entity, and responsibility for environmental review, decision-making, and any other action that would otherwise apply to HUD under National Environmental Policy Act (NEPA) and other provisions of law that further the purposes of NEPA, as specified in § 58.5. Based on the size, extent and potential for impacts to environmental resources, DCR is evaluating the project at an Environmental Assessment level of review per 24 CFR § 58.36.

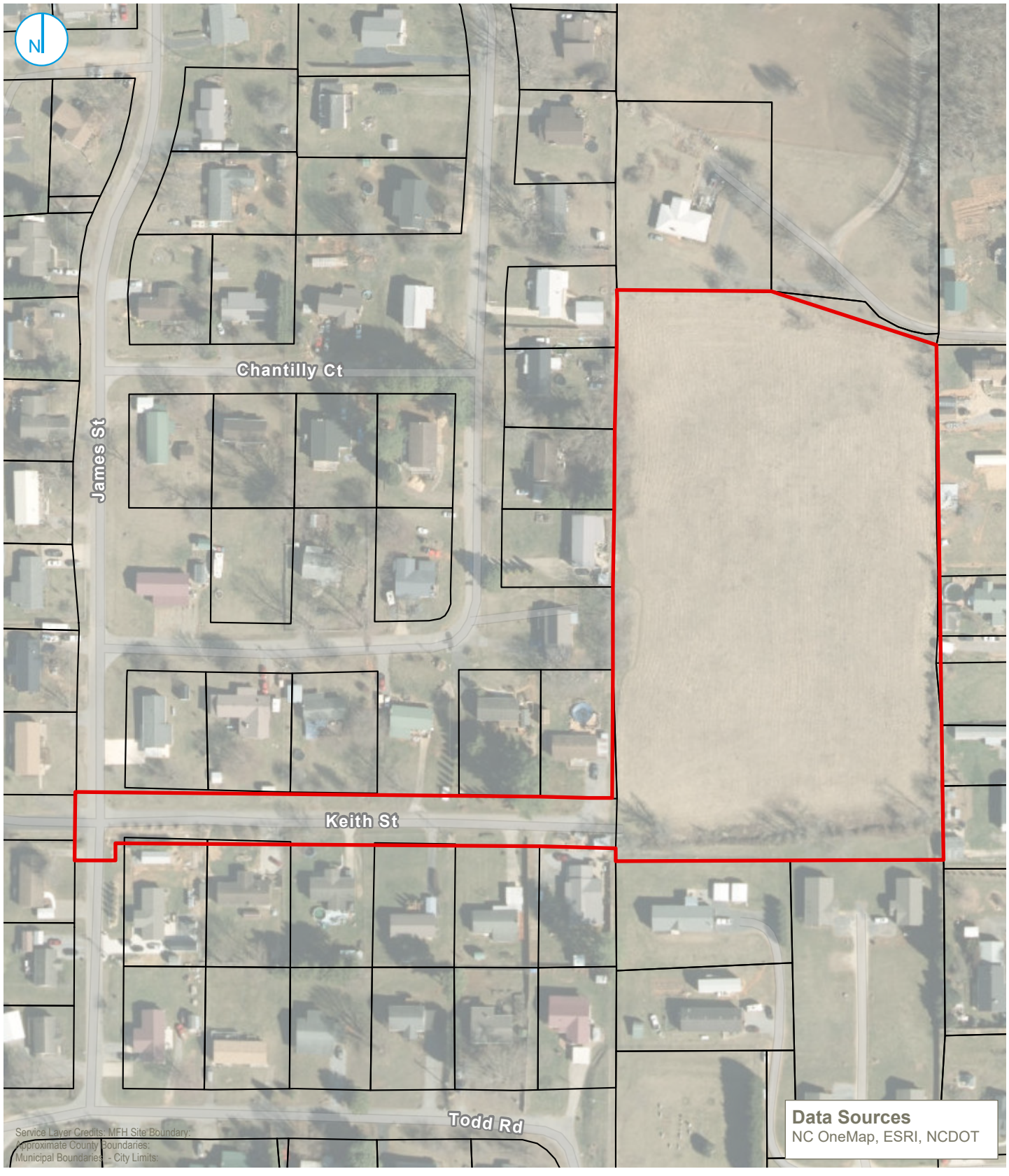
The proposed project area contains an area of NWI-mapped wetland, classified as R4SBC, defined as a seasonally or intermittently flooded channel which contains flowing water only part of the year. Under the 2023 rule, these areas do not appear to qualify as jurisdictional Wetlands or Waters of the US (WOTUS) and are therefore, not subject to regulation under Section 404 of the Clean Water Act (CWA); therefore, permitting by the US Army Corps of Engineers (USACE) is not anticipated to be required. Furthermore, Section 401 water quality certification is not anticipated to be required.

To facilitate compliance with these policies and expedite the review process, we respectfully request this information and/or any concerns, comments or objections related to the proposed project be provided within 30 days from receipt of this letter. We sincerely appreciate your comments and timely response to this solicitation. Should you have any questions, please do not hesitate to email me at daniel.herrera@commerce.nc.gov.

Respectfully Yours,

Daniel Herrera
Environmental Program Manager
North Carolina Department of Commerce
Division of Community Revitalization

Enclosures:
Project Site Location Map, NWI Map, Site Plan, Conceptual Keith St Stormwater Improvement



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 01 - Site Location

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Map Scale: 1:2,400 | Map Center: 82°52'19"W 35°32'23"N

KEY MAP (not to scale)

- Approximate Site Boundary
- Approximate County Boundaries
- Municipal Boundaries - City Limits
- Parcel Boundaries

0 100 200 Feet

SITE LOCATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 01

RAMBOLL AMERICAS
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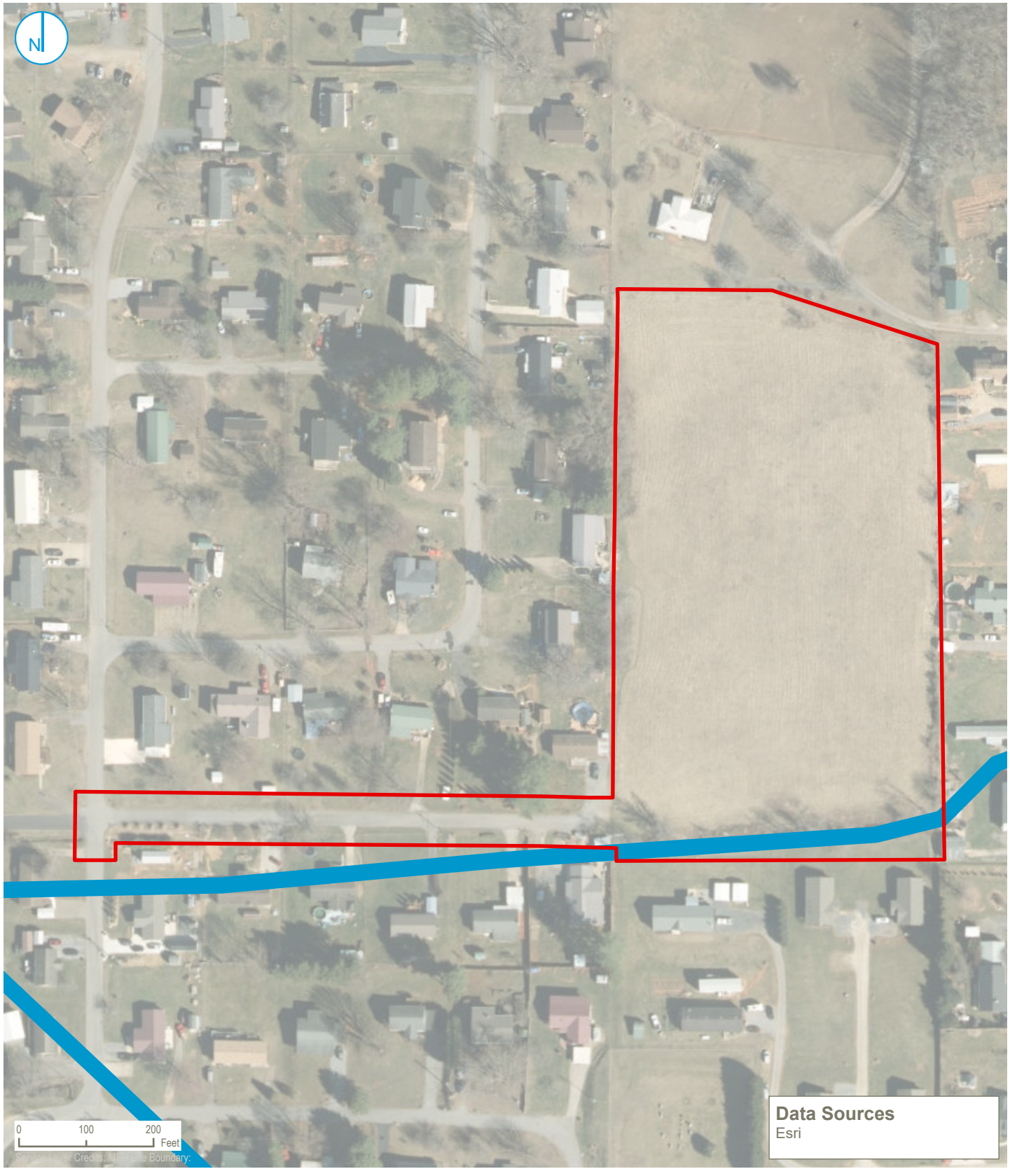
RAMBOLL

C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation aprx\Figure 23 - National Wetlands Inventory

PROJECT: 1690000XXXX | DATED: 4/23/2026 | DESIGNER: ATAYLOR



- Approximate Site Boundary
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NATIONAL WETLANDS INVENTORY

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 12

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
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RAMBOLL

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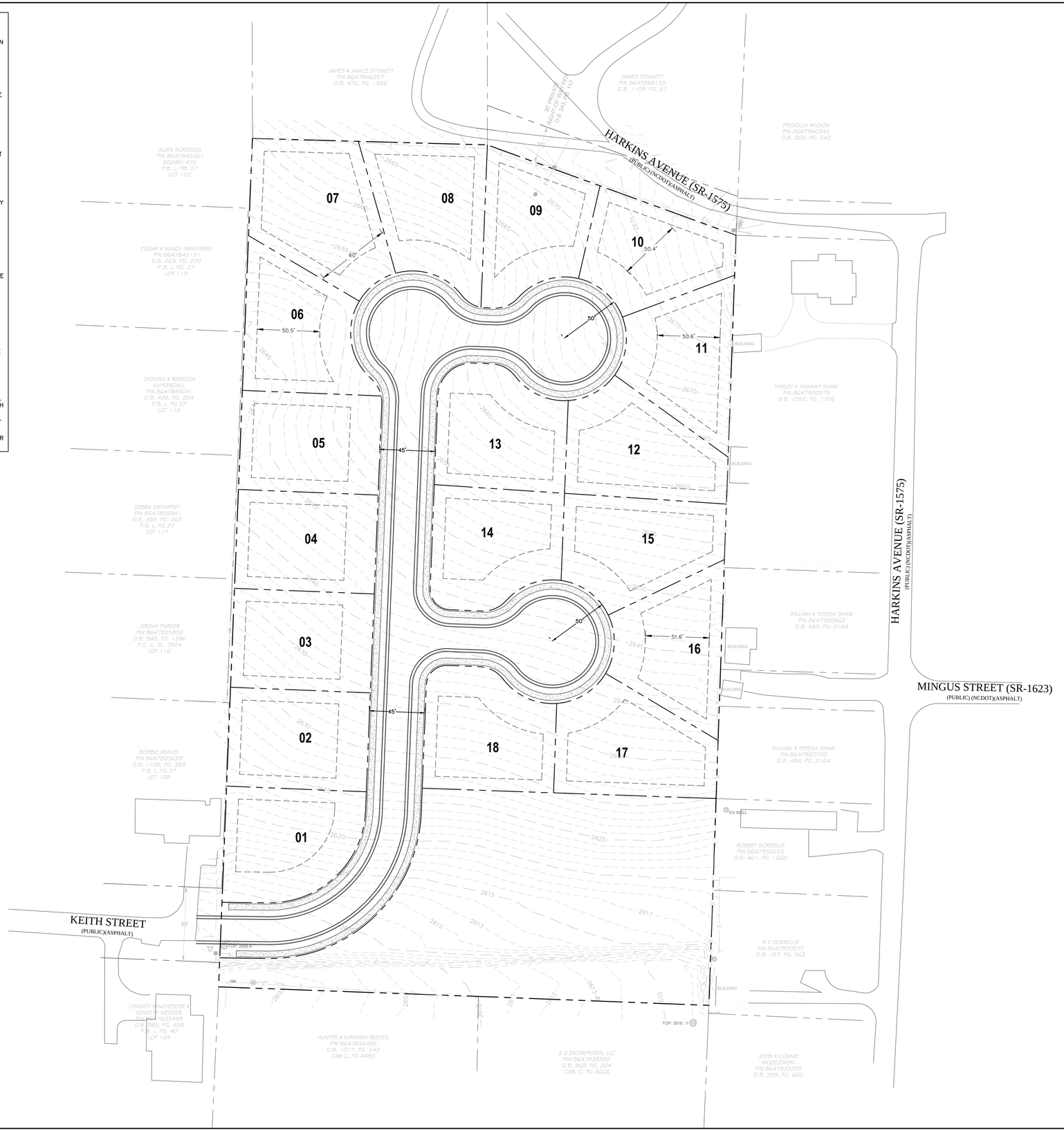
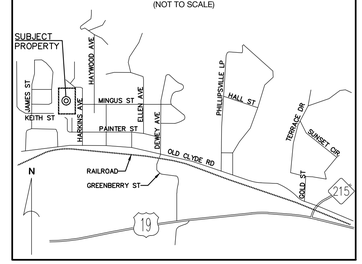


VICINITY MAP

(NOT TO SCALE)



DEVELOPMENT DATA

OWNER/DEVELOPER:	MOUNTAIN PROJECTS, INC. 2177 ASHEVILLE RD WAYNESVILLE, NV 28786-3139
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 84 COXE AVE - STE 260 ASHEVILLE, NC 28801
CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

PROJECT DATA

PIN:	8647-83-7739
ADDRESS:	HARKINS AVE.
DEED BOOK/PAGE:	1043/1001
PROJECT ACREAGE:	5.97± ACRES
CURRENT ZONING:	N/A
PROPOSED ZONING:	R-1, SINGLE FAMILY

MINIMUM SETBACK FROM PROPERTY LINE:

FRONT:	25'
SIDES:	10'
REAR:	10'

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811 Know what's **below.** **Call** before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

84 COXE AVENUE - SUITE 260
ASHEVILLE, NC 28801
PHONE (828) 252-5388
FAX (828) 252-5365

52 WALNUT STREET - SUITE 9
WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036181 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXXX
XXX PERMIT NO. XXXX

SHEET

C201

HARKINS AVENUE (SR-1575)
(PUBLIC/ASPHALT)

JAMES STREET
(PUBLIC/ASPHALT)

KEITH STREET
(PUBLIC/ASPHALT)

PROPOSED STORMWATER PIPE (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

APPROXIMATE LOCATION OF
EXISTING STORM PIPE (TYP)

APPROXIMATE LOCATION OF
EXISTING STORM CULVERT (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

PROPOSED STORMWATER SYSTEM (TYP)

PROPOSED STORMWATER CONTROL MEASURE

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

CDC Civil Design Concepts, PA
NCBELS # C-2184

HARKINS AVE SUBDIVISION
CONCEPTUAL KIETH ST STORMWATER IMPROVEMENT
PROGRESS DRAWINGS DO NOT USE FOR CONSTRUCTION

NORTH

From: Winston, Joseph B CIV USARMY CESAW (USA)
To: Karyn Desselle
Cc: Herrera, Daniel; Panteria, Gabrien J
Subject: RE: Harkins Avenue Subdivision Development Project, Haywood County, NC | NEPA SOV
Date: Tuesday, May 5, 2026 10:34:39 AM
Attachments: image001.png
image003.png
image004.png
USACE_Asheville Regulatory Office_SOV_Harkins Ave_01May2026.pdf

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You don't often get email from joseph.b.winston@usace.army.mil. Learn why this is important

Good morning,

Thank you for reaching out about your project to construct 18 single family homes at Harkins Ave, Canton, NC. In this location, the US Army Corps of Engineers implements Section 404 of the Clean Water Act, which regulates the discharge of dredged or fill material into waters of the United States, including streams and wetlands.

In your letter, you mention that the proposed project area contains a seasonally or intermittently flooded channel with flowing water for part of the year. Please note, the 2023 rule defines tributaries that are relatively permanent, standing or continuously flowing bodies of water as waters of the United States. The feature described is likely jurisdictional if an ordinary high water mark is present and it has relatively permanent flow, including seasonally intermittent flow.

If the feature is a jurisdictional water of the United States, and the project proposes the discharge of dredged or fill material into this feature, a Section 404 permit from the US Army Corps of Engineers is required. Additionally, a Section 401 water quality certification would be required if a Section 404 permit is needed.

Please let me know if you have any questions.

Thanks,
Joey

Joey Winston
Regulatory Specialist, Asheville Regulatory Field Office
US Army Corps of Engineers, Wilmington District
151 Patton Avenue, Room 208
Asheville, NC 28801-5006
Office: 828-271-7980, ext. 4233
Cell: 828-782-0795
Email: joseph.b.winston@usace.army.mil

From: Sugg, Mickey T CIV USARMY CESAW (USA) <Mickey.T.Sugg@usace.army.mil>
Sent: Monday, May 4, 2026 8:18 AM
To: Karyn Desselle <KDESSELLE@ramboll.com>; AshevilleNCREG <AshevilleNCREG@usace.army.mil>
Cc: Herrera, Daniel <daniel.herrera@commerce.nc.gov>; Panteria, Gabrien J <gabrien.panteria@commerce.nc.gov>; Winston, Joseph B CIV USARMY CESAW (USA) <Joseph.B.Winston@usace.army.mil>
Subject: RE: Harkins Avenue Subdivision Development Project, Haywood County, NC | NEPA SOV

Good morning,
Information has been received and I am passing it over to our Haywood County PM, Joey Winston (cc line), to provide you with in the input you requested. Also, his direct number is (828) 271-7980 ext. 4233.

Thank you,
-mickey

Mickey Sugg, Chief
Asheville Regulatory Field Office
U.S. Army Corps of Engineers
151 Patton Avenue, Room 208
Asheville, North Carolina 28801-5006
(828) 271-7980 ext 4222 (direct line)

In the near future, we will no longer accept permit applications through e-mail. All permit applications will need to be submitted through the Regulatory Request System (RRS) at the following link: https://rrs.usace.army.mil/rrs

USACE RRS Promo 90-sec (youtube.com)

For help with submitting an application through the online Regulatory Request System (RRS), please visit: https://rrs-test.cwbi.us/rrs/help

Thank you in advance for completing our on-line Regulatory Service Survey located at

https://regulatory.ops.usace.army.mil/customer-service-survey/. We value your comments and appreciate you taking the time to complete a survey each time you have an interaction with our office.

From: Karyn Desselle <KDESSELLE@ramboll.com>
Sent: Friday, May 1, 2026 4:21 PM
To: Sugg, Mickey T CIV USARMY CESAW (USA) <Mickey.T.Sugg@usace.army.mil>; AshevilleNCREG <AshevilleNCREG@usace.army.mil>
Cc: Herrera, Daniel <daniel.herrera@commerce.nc.gov>; Panteria, Gabrien J <gabrien.panteria@commerce.nc.gov>
Subject: [Non-DoD Source] Harkins Avenue Subdivision Development Project, Haywood County, NC | NEPA SOV

Good afternoon,

On behalf of the North Carolina Department of Commerce (DOC) Division of Community Revitalization (DCR), please find the attached Solicitation of Views (SOV) letter. We would greatly appreciate your participation in the SOV process for the Harkins Avenue Subdivision Development project in Haywood County, NC. The project is funded by the US Department of Housing and Urban Development's Community Development Block Grant-Disaster Recovery provided after Tropical Storm Fred. As per HUD's National Environmental Policy Act (NEPA) regulations at 24 CFR Part 58, the NC DCR has assumed responsible entity authority for the federal environmental review process.

The Harkins Avenue project consists of building approximately 18 single family homes on 5.97 acres of a previously undisturbed lot located in West Canton, NC. With this solicitation, DCR invites you to participate in the NEPA process as a stakeholder or interested party.

Your expertise and perspective are essential to ensuring that our final decision is well-informed, complies with NEPA and applicable laws, regulations, and authorities, and avoids or minimizes potential adverse impacts.

To facilitate compliance with these policies and expedite the review process, we respectfully request that you respond within 30 days from receipt of this letter. If you have any questions or would like any additional information, please do not hesitate to email daniel.herrera@commerce.nc.gov. We sincerely appreciate your comments and timely response to this solicitation.

Kind regards
Karyn Desselle

Sr. Managing Consultant
1946184 - South IA and B&E

D +1 225-408-2841
M 2259317052
kdesselle@ramboll.com

Connect with us

Ramboll
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Suite 300
Baton Rouge, LA 70810
USA
https://ramboll.com

Classification: Confidential

NC DEPARTMENT of COMMERCE
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Electronic Delivery Via: Richard.rogers@deq.nc.gov; stephanie.goss@deq.nc.gov

May 1, 2026

Mr. Richard Rogers, Director - Water Resources
Ms. Stephanie Goss, Environmental Program Supervisor II, 401 & Buffer Permitting
North Carolina Department of Environmental Quality
Division of Water Resources
217 West Jones Street
Raleigh, NC 27603

RE: Wetlands / Waters of the US and North Carolina - Section 401 Water Quality Certification
Harkins Avenue Subdivision Development, Haywood County
North Carolina Department of Commerce, Division of Community Revitalization and the North Carolina Office of Recovery and Resiliency

Dear Mr. Rogers and Ms. Goss,

The North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) is proposing to use Community Development Block Grant - Disaster Recovery funds for construction of the Harkins Avenue Subdivision Development. The project proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is located in West Canton, Haywood County, North Carolina (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: -82.870754, 35.540037).

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With this solicitation, the DCR is requesting comments and feedback on the proposed activities as well as any concerns you may have regarding the proposed project with respect to compliance with Section 404 of

the Clean Water Act (CWA), potential impacts to Wetlands or Waters of the US (WOTUS) and applicable permitting requirements.

To facilitate compliance with these policies and expedite the review process, we respectfully request this information and/or any concerns, comments or objections related to the proposed project be provided within 30 days from receipt of this letter. We sincerely appreciate your comments and timely response to this solicitation. Should you have any questions, please do not hesitate to email me at daniel.herrera@commerce.nc.gov.

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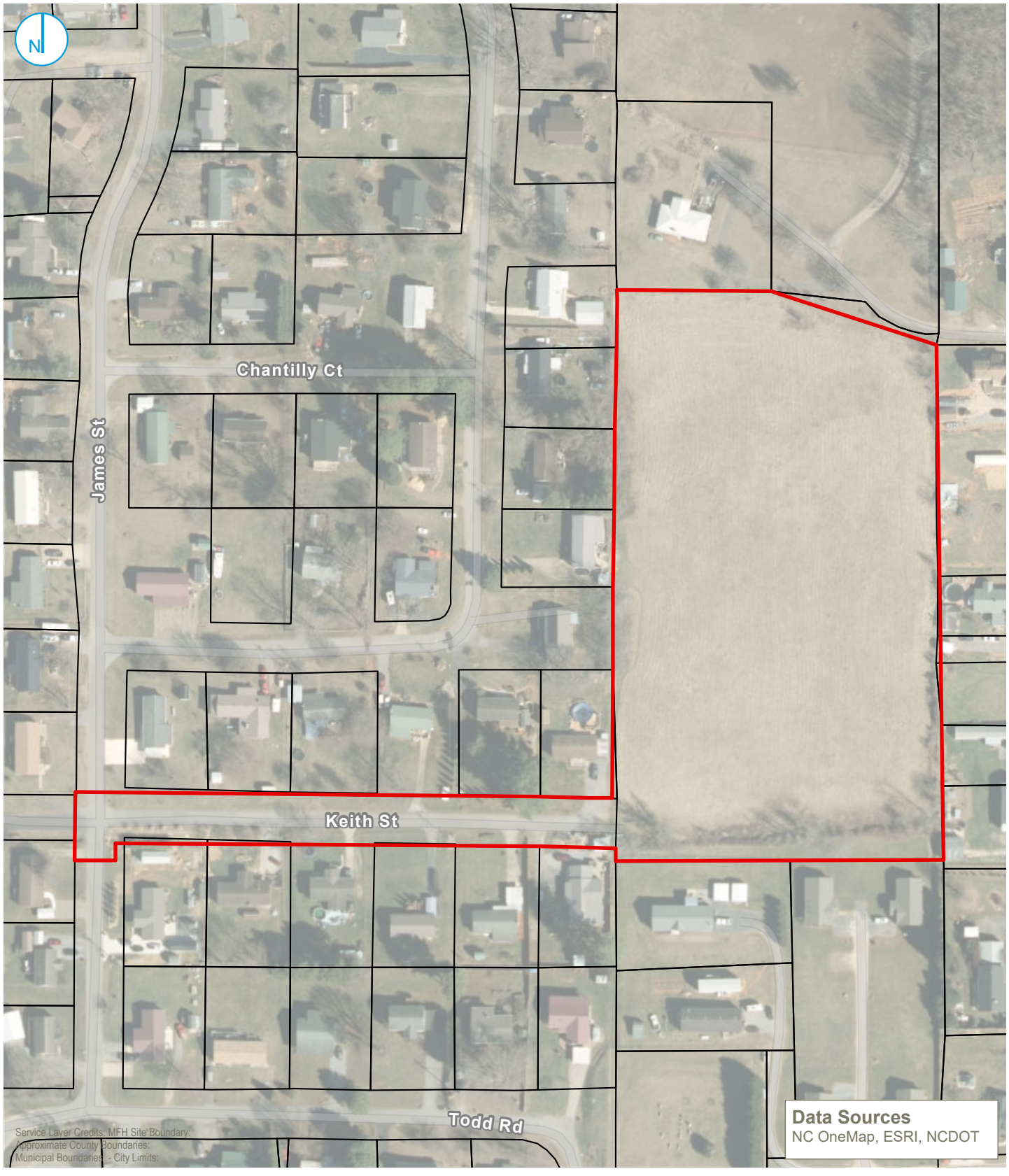

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RAMBOLL

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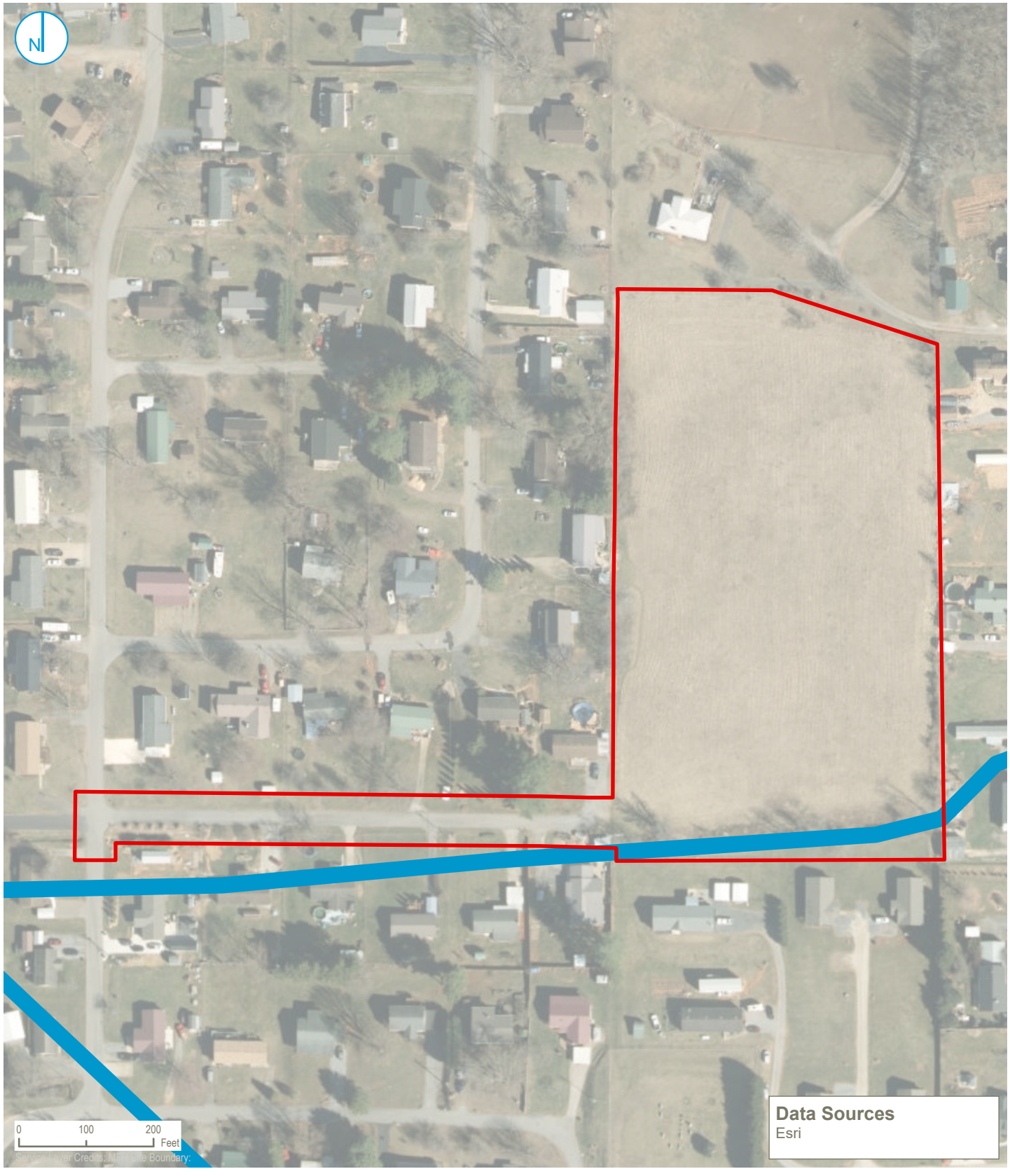

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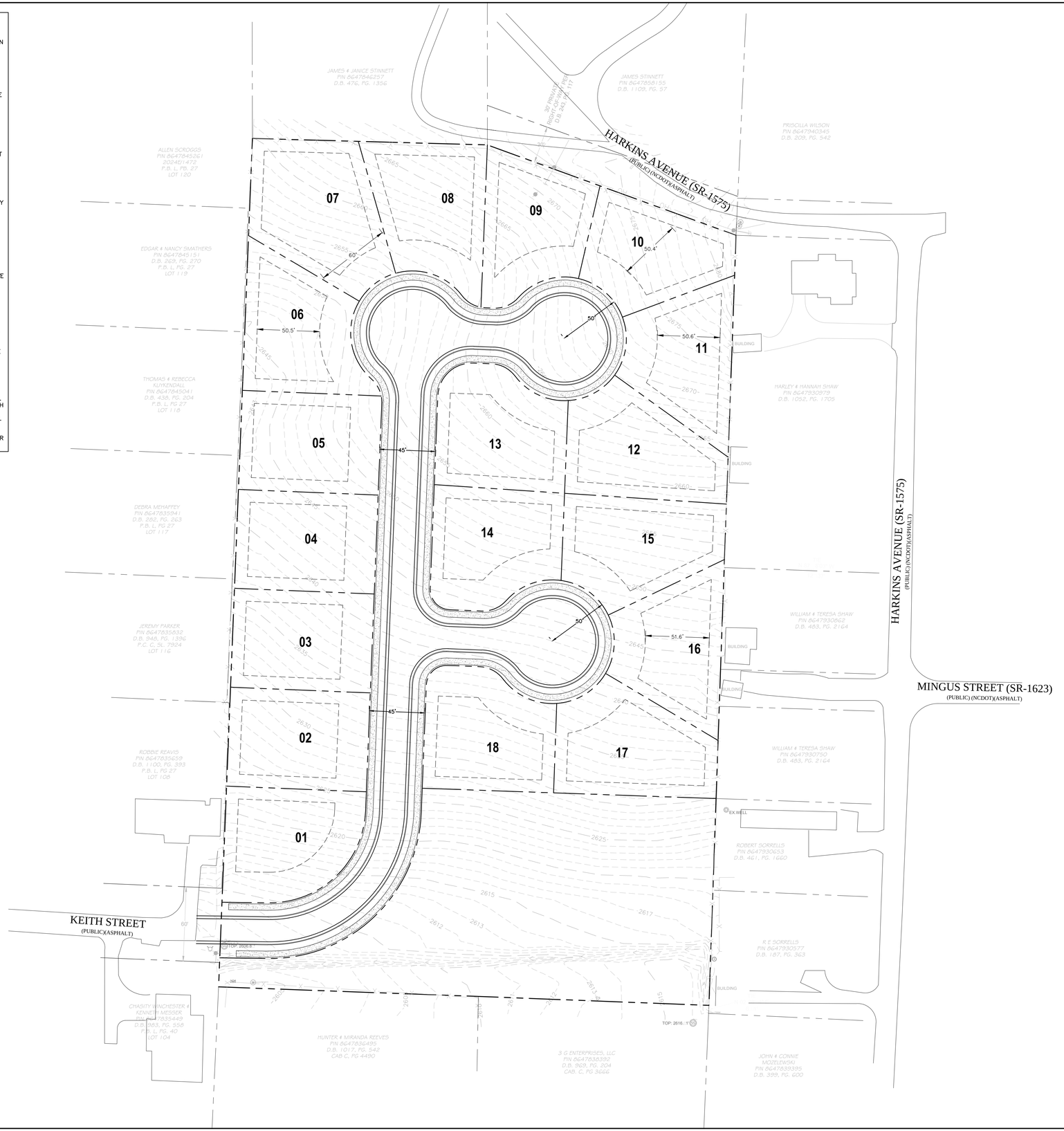
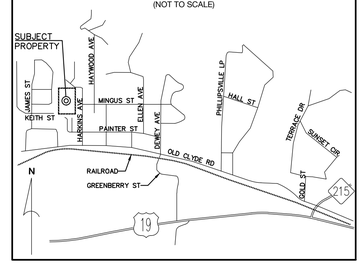


VICINITY MAP

(NOT TO SCALE)



DEVELOPMENT DATA

OWNER/DEVELOPER:	MOUNTAIN PROJECTS, INC. 2177 ASHEVILLE RD WAYNESVILLE, NV 28786-3139
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 84 COXE AVE - STE 260 ASHEVILLE, NC 28801
CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

PROJECT DATA

PIN:	8647-83-7739
ADDRESS:	HARKINS AVE.
DEED BOOK/PAGE:	1043/1001
PROJECT ACREAGE:	5.97± ACRES
CURRENT ZONING:	N/A
PROPOSED ZONING:	R-1, SINGLE FAMILY

MINIMUM SETBACK FROM PROPERTY LINE:

FRONT:	25'
SIDES:	10'
REAR:	10'

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811 Know what's **below.** **Call** before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

84 COXE AVENUE - SUITE 260
ASHEVILLE, NC 28801
PHONE (828) 252-5388
FAX (828) 252-5365

52 WALNUT STREET - SUITE 9
WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036181 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXXX
XXX PERMIT NO. XXXX

SHEET

C201

HARKINS AVENUE (SR-1575)
(PUBLIC/ASPHALT)

JAMES STREET
(PUBLIC/ASPHALT)

KEITH STREET
(PUBLIC/ASPHALT)

PROPOSED STORMWATER PIPE (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

APPROXIMATE LOCATION OF
EXISTING STORM PIPE (TYP)

APPROXIMATE LOCATION OF
EXISTING STORM CULVERT (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

PROPOSED STORMWATER SYSTEM (TYP)

PROPOSED STORMWATER CONTROL MEASURE

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

CDC Civil Design Concepts, PA
NCBELS # C-2184

HARKINS AVE SUBDIVISION
CONCEPTUAL KIETH ST STORMWATER IMPROVEMENT
PROGRESS DRAWINGS DO NOT USE FOR CONSTRUCTION

NORTH

From: Goss, Stephanie
To: Herrera, Daniel
Cc: Panteria, Gabrien J; Karyn Desselle; Rogers, Richard E
Subject: RE: [External] Harkins Avenue Subdivision Development Project, Haywood County, NC | NEPA SOV
Date: Tuesday, May 5, 2026 1:16:08 PM
Attachments: image002.png
image003.png

You don't often get email from stephanie.goss@deq.nc.gov. Learn why this is important

Mr. Herrera,

Good afternoon! Thank you for the notification for the Harkins Avenue Subdivision Development Project, Haywood County, NC project. The US Army Corps of Engineers (USACE) is the lead permitting agency for projects that may result in a discharge to waters or wetlands ("Waters of the US"). If the USACE requires a 404 or Section 10 Permit for the work, DWR will also require a 401 Certification. If the USACE requires a 404 Permit, then you will need to obtain a 401Water Quality Certification from DWR. DWR has three types of Water Quality Certifications: General Certifications, Certificates of Coverage, and Individual Certifications. General Certifications cover specific groups of activities and do not require application submittal and approval for coverage provided all conditions of the applicable General Certification are followed. Projects that require submittal for a 404 Permit must apply through the USACE Regulatory Request System (RRS). The RRS application must be uploaded to DWR through the Project Submittal Interim Form once it has been submitted to the USACE. The Pre-Construction Notification (PCN) can be submitted to DWR but does not automatically transfer to the USACE. The RRS and PCN application forms and associated help documents can be found on DWR's website. Per state administrative code, projects requiring an Individual Certification must go out to a 30-day public notice.

If you need any additional assistance, please contact the Asheville Regional Office: 828-296-4500.

Please do not hesitate to contact the appropriate Asheville Regional Office if you need any assistance or coordination on 401 Certification requirements. Thank you for the opportunity to comment and provide guidance for your project

Sincerely,

Stephanie Z. Goss
401 & Buffer Permitting Branch Supervisor
Division of Water Resources
NC Department of Environmental Quality
512 N. Salisbury Street
Raleigh, NC 27604
Office: 919-707-9013
Work Cell: 919-703-6371

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Karyn Desselle <KDESSELLE@ramboll.com>
Sent: Friday, May 1, 2026 4:20 PM
To: Rogers, Richard E <richard.rogers@deq.nc.gov>; Goss, Stephanie <stephanie.goss@deq.nc.gov>
Cc: Herrera, Daniel <daniel.herrera@commerce.nc.gov>; Panteria, Gabrien J <gabrien.panteria@commerce.nc.gov>
Subject: [External] Harkins Avenue Subdivision Development Project, Haywood County, NC | NEPA SOV

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Good afternoon,

On behalf of the North Carolina Department of Commerce (DOC) Division of Community Revitalization (DCR), please find the attached Solicitation of Views (SOV) letter. We would greatly appreciate your participation in the SOV process for the Harkins Avenue Subdivision Development project in Haywood County, NC. The project is funded by the US Department of Housing and Urban Development's Community Development Block Grant-Disaster Recovery provided after Tropical Storm Fred. As per HUD's National Environmental Policy Act (NEPA) regulations at 24 CFR Part 58, the NC DCR has assumed responsible entity authority for the federal environmental review process.

The Harkins Avenue project consists of building approximately 18 single family homes on 5.97 acres of a previously undisturbed lot located in West Canton, NC. With this solicitation, DCR invites you to participate in the NEPA process as a stakeholder or interested party.

Your expertise and perspective are essential to ensuring that our final decision is well-informed, complies with NEPA and applicable laws, regulations, and authorities, and avoids or minimizes potential adverse impacts.

To facilitate compliance with these policies and expedite the review process, we respectfully request that you respond within 30 days from receipt of this letter. If you have any questions or would like any additional information, please do not hesitate to email daniel.herrera@commerce.nc.gov. We sincerely appreciate your comments and timely response to this solicitation.

Kind regards
Karyn Desselle

Sr. Managing Consultant
1946184 - South IA and B&E

D +1 225-408-2841
M 2259317052
kdesselle@ramboll.com

Connect with us

Ramboll

8235 YMCA Plaza Drive
Suite 300
Baton Rouge, LA 70810
USA
https://ramboll.com

Classification: Confidential

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North Carolina Department of Commerce (NCDOC)
Division of Community Revitalization (DCR)

Harkins Subdivision Development

Procedures for Making Determinations on Floodplain Management and Protection of Wetlands

8 Step Decision Making Process (24 CFR 55.20)

The North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) proposes the use of federal funds to undertake the Harkins Subdivision Development project, which was identified as new construction with the potential to directly impact onsite wetlands, and has therefore, conducted the following decision-making process.

The proposed project involves construction of approximately 18 detached single-family homes based on current design plans. The development will be situated on 5.97-acres of undeveloped, cleared land previously used for agriculture. Project activities will include all necessary site work, utilities, and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development will extend along Keith Street through the intersection of Keith Street and James Street. This work will facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street, replacement of the culvert running beneath James Street just south of Keith Street, and new public infrastructure and utilities within Keith Street right-of-way.

Actions within a wetland are guided by Executive Order (E.O.) 11990. This E.O. was enacted to "avoid to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative." E.O. 11990 requires agencies to consider relevant factors and develop procedures to assess the effect of the proposed project on wetlands.

In accordance with HUD regulations at 24 CFR 55.20 Subpart C Procedures for Making Determinations on Floodplain Management and Wetlands Protection, detailed below is the 8-Step process performed by the Division of Community Revitalization (DCR) and how the Division has or will comply with executive orders 11988 and 11990 for the proposed action within the FFRMS floodplain and wetlands.

Step 1 – Determine whether the action is located within a floodplain or wetland.

The floodplain is defined in accordance with 24 CFR Part 55 and applicable HUD guidance using the best available data. Per review of the FEMA National Flood Hazard (NFHL) data, as depicted on Flood Insurance Rate Map (FIRM) Panel #37000864700J, effective 4/30/2012, the project site and immediately adjacent areas are in Zone X (Area of Minimal Flood Hazard) which is outside of the 100-year floodplain (also referred to as the Special Flood Hazard Area (SFHA)) and the 500-year floodplain, which collectively define the horizontal extent of the Federal Flood Risk Management Standard (FFRMS) floodplain. The proposed project will not directly or indirectly impact or be impacted by the floodplain.

Based on a review of the USFWS' National Wetlands Inventory (NWI) data, the project area contains a Riverine wetland on the southern edge of the property which exhibits all three wetland parameters (hydrophytic vegetation, hydric soils, and hydrology). The Riverine wetland, classified as R4SBC, is defined as a seasonally or intermittently flooded channel which contains flowing water only part of the year. Riverine systems are critical for nutrient cycling and providing passage for migratory aquatic species, while also maintaining water flow and quality in watersheds. They act as natural water filters, slowing surface runoff, storing floodwater, and trapping sediment and nutrients, which improves water quality. This wetland drains into the partially culverted channel running parallel along the south side of Keith Street. This channelized wetland system extends beyond Keith Street and connects to a much larger wetland area surrounding Patton Branch and eventually drains into the Pigeon River to the northwest. The wetland area measures approximately 0.27 acres of the 5.97-acre parcel. Based on the lack of vegetation adapted for saturated soils and no hydrological indicators, the remaining 5.70 acres of undeveloped land is categorized as upland.

The proposed project has the potential to directly impact the estimated 0.27 acres of wetlands along the southern edge of the property being developed. While proposed work along Keith St. has potential to directly impact another 0.50 acres of wetlands along the southern edge of Keith St., indirect construction impacts to these wetland areas directly adjacent to planned work may also occur. Additionally, the project has the potential to indirectly impact offsite wetlands west of James Street along the Patton Branch as stormwater from the project area is conveyed towards the Pigeon River.

Step 2 – Notify the public for early review of the proposal and involve the affected and interested public in the decision-making process.

The DCR notified the public as early as possible in the consideration of the proposed action in a wetland and invited the affected and interested public to participate in the decision-making process.

The DCR posted an *Early Notice and Public Review of a Proposed Activity in a Wetland (Early Notice)* on June 15, 2026, to the NC Department of Commerce Community Revitalization website (https://www.commercerecovery.nc.gov/) for purposes of eliciting public comments on alternatives and factors for consideration during this review. The comment period concluded on July 1, 2026, allowing for more than the minimum 15 calendar days to receive comments on the notice; however, no comments were received.

A copy of the Early Notice with proof of publication, is attached to this 8-Step Process document which will be included in the environmental review record (ERR) for the proposed project.

Step 3 – Identify and Evaluate Practicable Alternatives.

In accordance with the process and criteria outlined in 24 CFR 55.20, DCR explored and evaluated alternatives to the proposed construction of the Harkins Avenue Subdivision project to address wetlands impacts and determine if there are no practicable alternatives to wetlands development. The following alternatives were considered:

Alternative 1. Locate the project outside of the wetlands.

Alternative 2. Evaluate alternative design(s) to limit impacts to wetlands.

Alternative 3. Take no action in a floodplain or wetland.

For each of these alternatives, various factors of practicality and feasibility were considered, relating to (i) Natural values such as topography, habitat, and hazards; (ii) Social values such as aesthetics, historic and cultural values, land use patterns, and environmental justice; and (iii) Economic values such as the cost of space, construction, and services. The evaluation of each alternative is summarized below.

Alternative 1 – Locate the project outside of wetlands at an alternative site. Identifying a viable new site would involve significant logistical challenges and costs, including land acquisition and modifications to infrastructure and utilities. Additionally, the selected location must meet the Program's national objective criteria and be feasible in terms of cost and constructability to achieve the Program's affordability and performance objectives. While identifying a site outside of wetlands may be practicable, given the limited extent and type of wetlands to be impacted by this project, relocating the entirety of the project outside of wetlands would have a very minimal benefit in terms of protecting and preserving wetlands. Construction in a different location may require additional infrastructure work to connect to existing utility systems, which may be cost-prohibitive and could unnecessarily impede efforts to increase the stock of safe affordable housing in this community. Therefore, this alternative was rejected.

Alternative 2 – Evaluate alternative design(s) to limit impacts to the wetlands. One of the design alternatives considered was the construction of twenty-three (23) single family homes in a different configuration on the subject property. The design incorporated a stormwater management system fully contained within the property and consisted of a series of stormwater control structures designed to collect, store and manage stormwater onsite without the need to construct a detention basin. As a result, work within the wetland was limited to construction of the access road and utility connections in the southwest corner of the property. While this design allowed for additional houses on the southern side

of the lot (compared to the current layout) with less infringement on wetlands, it also restricted the size and efficacy of planned stormwater control measures. This alternative design would add additional housing at the cost of increasing the strain on the already overburdened drainage system. Based on the historic drainage issues and periodic flooding episodes in the adjacent neighborhood, any increase in stormwater without making improvements to the existing drainage system is likely to adversely impact the surrounding community. Therefore, this alternative design was rejected.

Alternative 3 - No Action Alternative. The alternative to not approve any action, essentially a "No Action" alternative means that the proposed project would not be implemented, and additional housing would not be constructed. Following extensive damage from Tropical Storm Fred in 2021, affordable housing has become a scarce commodity in this area of Haywood County. This alternative would fail to address the need for safe and affordable housing in the West Canton area, which currently has insufficient stock of housing. As the "No Action" Alternative does not provide a solution to the housing crisis, this alternative does not provide any benefit and was therefore rejected.

Step 4 – Identify potential direct and indirect impacts associated with wetland development.

The DCR identified the following potential direct and indirect impacts to wetlands associated with the proposed action.

Direct Impacts

1. Construction Activities
    - Disturbance to Wetlands: The development of the Harkins Subdivision will involve construction activities in the identified wetland area resulting in the direct disturbance of the wetland vegetation and soil.
    - Alteration of Hydrology: Stormwater infrastructure improvements may alter the hydrology of the wetlands, affecting the natural water drainage and soil saturation patterns on the site and along Keith Avenue.
2. Drainage Impacts
    - Increased load on existing drainage systems: Construction of additional houses will put additional strain on the existing drainage infrastructure which has historically been insufficient to manage the stormwater from the existing development in this area.

Indirect Impacts

1. Water Quality
    - Runoff and Sedimentation: Construction runoff could introduce sediments and pollutants into the wetlands, potentially degrading water quality and affecting aquatic habitats.
2. Habitat Impacts
    - Degradation of Habitat: Changes in the hydrological characteristics that dictate the physical and biological integrity of aquatic habitats can alter water chemistry, physical structures and food webs, disrupting ecosystems across several key dimensions.
3. Hydrological Changes
    - Long-term Hydrological Impact: Construction of additional housing might have long-term impacts on the hydrological characteristics of the site, potentially leading to changes in wetland extent and function.

To further evaluate environmental impacts from the proposed development project, various agencies were contacted that have responsibilities for protection of natural resources. Responses and feedback from these agencies indicate that with the inclusion of appropriate conservation measures to avoid and

minimize potential adverse impacts, the proposed action is not likely to significantly impact sensitive environmental resources.

<u>Step 5</u> – Where practicable, design or modify the proposed action to minimize the potential adverse impacts to lives, property, and natural values within the floodplain and to restore and preserve the values of the floodplain.

The proposed action includes the development of affordable housing. Potential harm to or within the wetlands must be reduced to the smallest possible amount. E.O. 11988's requirement to minimize potential harm applies to the investment at risk, the impact the action may have on others, and the impact the action may have on wetland values.

The project was redesigned with fewer houses (reduce the impervious area), and a more substantial stormwater management system designed to work in tandem with the wetlands along the southern border of the property by collecting and storing stormwater in a detention basin and diverting excess stormwater into the new stormwater conveyance pipe to be reintroduced further downstream where the channel widens creating increased capacity.

The following mitigation measures and standards have been identified to minimize adverse impacts and benefit wetland values:

1. The project will incorporate Low Impact Development (LID) technologies as practicable into the design and construction of the subdivision and residences to help mitigate some of the stormwater runoff resulting from increased impervious surfaces.
2. As necessary, the project will include an erosion and sedimentation control plan filed with the Regional Land and Quality section office a minimum of 30 days prior to beginning of construction activities as part of a NPDES construction stormwater permit. The plan will be in accordance with all state and local approved stormwater program.
3. As required for impacts to jurisdictional streams or wetlands, a Section 404 permit from the US Army Corps of Engineers and corresponding Section 401 Water Quality Certification from the Division of Water Resources will be obtained. Regardless of permitting requirements, all activities will be conducted in compliance with North Carolina Surface Water and Wetland Standards found in 15A NCAC 02B.0200 and .0231, including adherence to turbidity standards. Appropriate best management practices will be employed when working around streams and wetlands to ensure compliance with the standards.
4. The project will implement all Best Management Practices (BMP) associated with applicable federal and/or state permits during construction to minimize sedimentation in streams.
5. The proposed project will not involve the broad application of pesticides or herbicides.

Although the proposed project is not anticipated to result in significant adverse impacts to wetland values, or increased flow of stormwater from the project site into surrounding areas, addressing these direct and indirect impacts through careful planning and mitigation measures aims to minimize adverse effects, ensuring both compliance with environmental regulations and the protection of natural resources.

<u>Step 6</u> – Reevaluate the alternatives.

Acquiring another property on which to construct a development is not a viable option due to the significant logistical challenges and additional cost. Identifying and acquiring another property of similar size that also satisfies the Program’s national objective criteria would be challenging and would further complicate and delay the project as new engineering and environmental studies and site plans would be required to determine suitability of the property. This alternative was not selected as it would be extremely difficult, if not impossible, to achieve the Program’s affordability and performance objectives.

Considering the topography and physical characteristics of the subject property, combined with the existing drainage issues in the adjacent neighborhood, the alternative design is not viable. Although the alternative design would reduce the extent of wetland development, it would not eliminate wetland impacts. The alternative design was not selected as it could exacerbate existing drainage issues and

increase the frequency or depth of flooding episodes, detrimentally impacting nearby residents, whereas the proposed design includes drainage improvements to address these concerns with minimal impact to wetlands.

The no action alternative is also not viable as it would not satisfy the need for safe and affordable housing. Under the no action alternative, the available stock of affordable homes within the West Canton community would not increase while the need is projected to continue growing. The no action alternative was not selected as the proposed site's impacts wetland values can be mitigated and minimized.

After rigorous reevaluation of the alternatives, constructing the proposed single-family housing development on the subject property is deemed to be still practicable and is selected as the preferred action. This presents the most practicable solution based on the following factors:

- Planned Improvements to Drainage Infrastructure: The project plans to improve the existing drainage patterns and provide upgrades to facilitate more effective drainage along Keith Street.
- Stormwater Control and Wetland protection: The proposed stormwater control measures are designed manage stormwater from the site, prevent impacts to the adjacent neighborhood and minimize impacts on the existing wetland stream.
- Community Needs: The planned subdivision addresses the need for affordable housing within the community.

Potential risks and adverse impacts will be mitigated through careful planning and proactively implementing measures to avoid, conserve and protect wetlands.

Step 7 - Determination of no practicable alternative and publication of final notice.

The DCR has determined that there is no practical alternative to the proposed action being located in the wetland. Therefore, publication of a final notice citing the reasons why the proposed action must be in the wetland, a list of the alternatives considered, and the mitigation measures to be taken to minimize adverse impacts and to preserve natural and beneficial functions and values, is required.

On July 2, 2026, the *Final Notice and Explanation of a Proposed Activity in a Wetland (Final Notice)* for the Harkins Avenue Subdivision Development project was published on the NC Department of Commerce Community Revitalization website (https://www.commercerecovery.nc.gov/) for purposes of eliciting public comments on alternatives and factors for consideration. The notice includes contact information and document availability to the public. The comment period concluded on July 10, 2026, allowing for more than the minimum 7 calendar days to receive comments on the notice; however, no comments were received.

A copy of the Final Notice and proof of publication are attached to this 8-Step Process document and included with the ERR for the proposed action.

Step 8 – Implementation of the Proposed Action.

Step 8 involves integration of mitigation and conservation measures during implementation of the proposed action. Construction is estimated to begin in calendar year 2025. This 8-Step analysis has been completed in accordance with 24 CFR 55.20. There is a continuing responsibility for DCR and the project proponent to ensure that the mitigation measures identified are implemented.

Early Notice and Public Review of a Proposed Activity in a Wetland

Early Notice and Public Review of a Proposed Activity in a Wetland

Harkins Avenue Subdivision Development

Haywood County, North Carolina

To: All interested Federal, State, and Local Agencies, Groups and Individuals

This is to give notice that the North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) under 24 CFR Part 58 has determined that the following proposed action is located in wetlands, and DCR will be identifying and evaluating practicable alternatives to locating the action within the wetland, and the potential impacts on the wetland from the proposed action, as required by Executive Order 11988 and Executive Order 11990 and in accordance with HUD regulations at 24 CFR 55.20 in Subpart C, Procedures for Making Determinations on Floodplain Management and Protection of Wetlands. The proposed project is located in Haywood County between Harkins Avenue and Keith Street in Canton, North Carolina 28721 (Parcel 8647-83-7739; Coordinates: -82.870754, 35.540037).

The project proposes constructing approximately 18 detached single-family homes based on current design plans. The development will be situated on 5.97-acres of undeveloped, cleared land previously used for agriculture. Project activities will include all necessary site work, utilities, and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development will extend along Keith Street through the intersection of Keith Street and James Street. This work will facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street, replacement of the culvert running beneath James Street just south of Keith Street, and new public infrastructure and utilities within Keith Street right-of-way.

The proposed project area contains an area of NWI-mapped Riverine wetland, classified as R4SBC, defined as a seasonally or intermittently flooded channel which contains flowing water only part of the year. This wetland is located on the southern edge of the property which drains into the partially culverted channel running parallel along the south side of Keith Street. Riverine systems are critical for nutrient cycling and providing passage for migratory aquatic species, while also maintaining water flow and quality in watersheds. They act as natural water filters, slowing surface runoff, storing floodwater, and trapping sediment and nutrients, which improves water quality. This channelized wetland system extends beyond Keith Street and connects to a much larger wetland area surrounding Patton Branch and eventually drains into the Pigeon River to the northwest. The proposed project has the potential to directly impact approximately 0.27 acres of wetlands located along the southern edge of the property being developed. While proposed work along Keith St. has potential to directly impact another 0.50 acres of wetlands along the southern edge of Keith St. Indirect construction impacts to these wetland areas directly adjacent to planned work may also occur. Additionally, the project has the potential to indirectly impact offsite wetlands west of James Street along the Patton Branch as stormwater from the project area is conveyed towards the Pigeon River.

There are three primary purposes for this notice. First, people who may be affected by activities in the wetland and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Commenters are encouraged to offer alternative sites outside of the wetland, alternative methods to serve the same project purpose, and methods to minimize and mitigate project impacts on the wetland. Second, an adequate public notice program can be an important public educational tool. The dissemination of information and request for public comments about the wetland can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special

areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in a wetland, it must inform those who may be put at greater or continued risk.

Written comments must be received by the North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) at the following address on or before July 1, 2026 [a minimum 15 calendar day comment period will begin the day after the publication and end on the 16th day after the publication]:

North Carolina Department of Commerce (NCDOC)
Division of Community Revitalization (DCR)
4301 Mail Service Center
Raleigh NC 27699-4346
Attention: Daniel Herrera, Environmental Program Manager

A full description of the project may also be reviewed from 8:00am to 4:00pm at the same address as above and on the DCR website. Comments may also be submitted via email to dcr.environmental@commerce.nc.gov.

Publication Date: June 15, 2026

Related Documents:

- Early Notice and Public Review of a Proposed Activity in a Wetland (PDF)

Early Notice and Public Review of a Proposed Activity in a Wetland

Early Notice and Public Review of a Proposed Activity in a Wetland

Harkins Avenue Subdivision Development

Haywood County, North Carolina

To: All interested Federal, State, and Local Agencies, Groups and Individuals

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The project proposes constructing approximately 18 detached single-family homes based on current design plans. The development will be situated on 5.97-acres of undeveloped, cleared land previously used for agriculture. Project activities will include all necessary site work, utilities, and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development will extend along Keith Street through the intersection of Keith Street and James Street. This work will facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street, replacement of the culvert running beneath James Street just south of Keith Street, and new public infrastructure and utilities within Keith Street right-of-way.

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There are three primary purposes for this notice. First, people who may be affected by activities in the wetland and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Commenters are encouraged to offer alternative sites outside of the wetland, alternative methods to serve the same project purpose, and methods to minimize and mitigate project impacts on the wetland. Second, an adequate public notice program can be an important public educational tool. The dissemination of information and request for public comments about the wetland can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special

areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in a wetland, it must inform those who may be put at greater or continued risk.

Written comments must be received by the North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) at the following address on or before July 1, 2026 [a minimum 15 calendar day comment period will begin the day after the publication and end on the 16th day after the publication]:

North Carolina Department of Commerce (NCDOC)
Division of Community Revitalization (DCR)
4301 Mail Service Center
Raleigh NC 27699-4346
Attention: Daniel Herrera, Environmental Program Manager

A full description of the project may also be reviewed from 8:00am to 4:00pm at the same address as above and on the DCR website. Comments may also be submitted via email to dcr.environmental@commerce.nc.gov.

Publication Date: June 15, 2026

Environmental Review Public Notices: Open for Comment

Final Notice and Public Explanation of a Proposed Activity in a Wetland

Final Notice and Public Explanation of a Proposed Activity in a Wetland

Harkins Avenue Subdivision Development, Haywood County, North Carolina

Publication Date: July 2, 2026

To: All interested Federal, State, and Local Agencies, Groups, and Individuals

This is to give notice that the North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) under 24 CFR Part 58 has conducted an evaluation as required by Executive Order 11990 and in accordance with HUD regulations at 24 CFR 55.20 in Subpart C, Procedures for Making Determinations on Floodplain Management and Protection of Wetlands. The activity is funded through the U.S. Department of Housing and Urban Development (HUD) under the Community Development Block Grant Disaster Recovery Program. The proposed project is located in Haywood County between Harkins Avenue and Keith Street in Canton, North Carolina 28721 (Parcel 8647-83-7739; Coordinates: -82.870754, 35.540037) and is located partially in the wetland.

The project proposes the construction of approximately 18 detached single-family homes based on current design plans. The development will be situated on 5.97-acres of undeveloped, cleared land previously used for agriculture. Project activities will include all necessary site work, utilities, and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development will extend along Keith Street through the intersection of Keith Street and James Street. This work will facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street, replacement of the culvert running beneath James Street just south of Keith Street, and new public infrastructure and utilities within Keith Street right-of-way. The existing neighborhood has experienced episodes of flooding due to insufficiently sized stormwater pipes and drainage systems. The proposed work will upgrade the existing system and develop on-site stormwater control measures to reduce strain on the drainage infrastructure.

The proposed project area contains an area of NWI-mapped Riverine wetland, classified as R4SBC, defined as a seasonally or intermittently flooded channel which contains flowing water only part of the year. This wetland is located on the southern edge of the property which drains into the partially culverted channel running parallel along the south side of Keith Street. Riverine systems are critical for nutrient cycling and providing passage for migratory aquatic species, while also maintaining water flow and quality in watersheds. They act as natural water filters, slowing surface runoff, storing floodwater, and trapping sediment and nutrients, which improves water quality. This channelized wetland system extends beyond Keith Street and connects to a much larger wetland area surrounding Patton Branch and eventually drains into the Pigeon River to the northwest. The proposed project has the potential to directly impact approximately 0.27 acres of wetlands located along the southern edge of the property being developed. While proposed work along Keith St. has potential to directly impact another 0.50 acres of wetlands along the southern edge of Keith St., indirect construction impacts to these wetland areas directly adjacent to planned work may also occur. Additionally, the project has the potential to indirectly impact offsite wetlands west of James Street along the Patton Branch as stormwater from the project area is conveyed towards the Pigeon River.

The DCR has considered the following alternatives and mitigation measures to minimize adverse impacts and to restore and preserve natural and beneficial functions and intrinsic values of the existing wetland:

Alternative 1 – Locate the project outside of wetlands at an alternative site. Identifying a viable new site would involve significant logistical challenges and costs, including land acquisition and modifications to infrastructure and utilities. Additionally, the selected location must meet the Program's national objective criteria and be feasible in terms of cost and constructability to achieve the Program's affordability and performance objectives. While identifying a site outside of wetlands may be practicable, given the limited extent and type of wetlands to be impacted by this project, relocating the entirety of the project outside of wetlands would have a very minimal benefit in terms of protecting and preserving wetlands. Construction in a different location may require additional work to connect to existing utility systems, which may be cost-prohibitive and could unnecessarily impede efforts to increase the stock of safe affordable housing in this community. Therefore, this alternative was rejected.

Alternative 2 – Evaluate alternative design(s) to limit impacts to the wetlands. One of the design alternatives considered was the construction of twenty-three single family homes in a different configuration on the subject property. The design incorporated a stormwater management system fully contained within the property and consisted of a series of stormwater control structures designed to collect, store and manage stormwater onsite without the need to construct a detention basin. As a result, work within the wetland was limited to construction of the access road and utility connections in the southwest corner of the property. While this design allowed for additional houses on the southern side of the lot (compared to the current layout) with less infringement on wetlands, it also restricted the size and efficacy of planned stormwater control measures. This alternative design would add additional housing at the cost of increasing the strain on the already overburdened drainage system. Based on the historic drainage issues and periodic flooding episodes in the adjacent neighborhood, any increase in stormwater without making improvements to the existing drainage system is likely to adversely impact the surrounding community. Therefore, this alternative design was rejected.

Alternative 3 - No Action Alternative. The alternative to not approve any action, essentially a "No Action" alternative means that the proposed project would not be implemented, and additional housing would not be constructed. Following extensive damage from Tropical Storm Fred in 2021, affordable housing has become a scarce commodity in this area of Haywood County. This alternative would fail to address the need for safe and affordable housing in the West Canton area, which currently has insufficient stock of housing. As the "No Action" Alternative does not provide a solution to the housing crisis, this alternative does not provide any benefit and was therefore rejected.

The following mitigation measures and standards have been identified to minimize adverse impacts and benefit wetland values:

1. The project will incorporate Low Impact Development (LID) technologies as practicable into the design and construction of the subdivision and residences to help mitigate some of the stormwater runoff resulting from increased impervious surfaces.
2. As necessary, the project will include an erosion and sedimentation control plan filed with the Regional Land and Quality section office a minimum of 30 days prior to beginning of construction activities as part of a NPDES construction stormwater permit. The plan will be in accordance with all state and local approved stormwater program.
3. As required for impacts to jurisdictional streams or wetlands, a Section 404 permit from the US Army Corps of Engineers and corresponding Section 401 Water Quality Certification from the Division of Water Resources will be obtained. Regardless of permitting requirements, all activities will be conducted in compliance with North Carolina Surface Water and Wetland Standards found in 15A NCAC 02B.0200 and .0231, including adherence to turbidity standards. Appropriate best management practices will be employed when working around streams and wetlands to ensure compliance with the standards.
4. The project will implement all Best Management Practices (BMP) associated with applicable federal and/or state permits during construction to minimize sedimentation in streams.
5. The proposed project will not involve the broad application of pesticides or herbicides.

The DCR has reevaluated alternatives to building in wetlands and has determined that it has no practicable alternative. Environmental files documenting compliance with Executive Order 11990 and 24

CFR 55, are available for public inspection, review and copying upon request at the times and location delineated in the last paragraph of this notice for receipt of comments.

There are three primary purposes for this notice. First, people who may be affected by activities in wetlands and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Second, an adequate public notice program can be an important public educational tool. The dissemination of information and request for public comment about wetlands can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in a wetland, it must inform those who may be put at greater or continued risk.

Written comments must be received by the North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) at the following address on or before July 10, 2026 [a minimum 7 calendar day comment period will begin the day after the publication and end on the 8th day after the publication]: North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR), 4301 Mail Service Center, Raleigh NC 27699-4346, Attention: Daniel Herrera, Environmental Program Manager. A full description of the project may also be reviewed from 8:00am to 4:00pm at the same address as above and on the DCR website. Comments may also be submitted via email to dcr.environmental@commerce.nc.gov.

Related documents:

- Final Notice and Public Explanation of a Proposed Activity in a Wetland (PDF)

Environmental Review Public Notices: Closed for Comment

Final Notice and Public Explanation of a Proposed Activity in a Wetland

Final Notice and Public Explanation of a Proposed Activity in a Wetland

Harkins Avenue Subdivision Development, Haywood County, North Carolina

Publication Date: July 2, 2026

To: All interested Federal, State, and Local Agencies, Groups, and Individuals

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The project proposes the construction of approximately 18 detached single-family homes based on current design plans. The development will be situated on 5.97-acres of undeveloped, cleared land previously used for agriculture. Project activities will include all necessary site work, utilities, and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development will extend along Keith Street through the intersection of Keith Street and James Street. This work will facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street, replacement of the culvert running beneath James Street just south of Keith Street, and new public infrastructure and utilities within Keith Street right-of-way. The existing neighborhood has experienced episodes of flooding due to insufficiently sized stormwater pipes and drainage systems. The proposed work will upgrade the existing system and develop on-site stormwater control measures to reduce strain on the drainage infrastructure.

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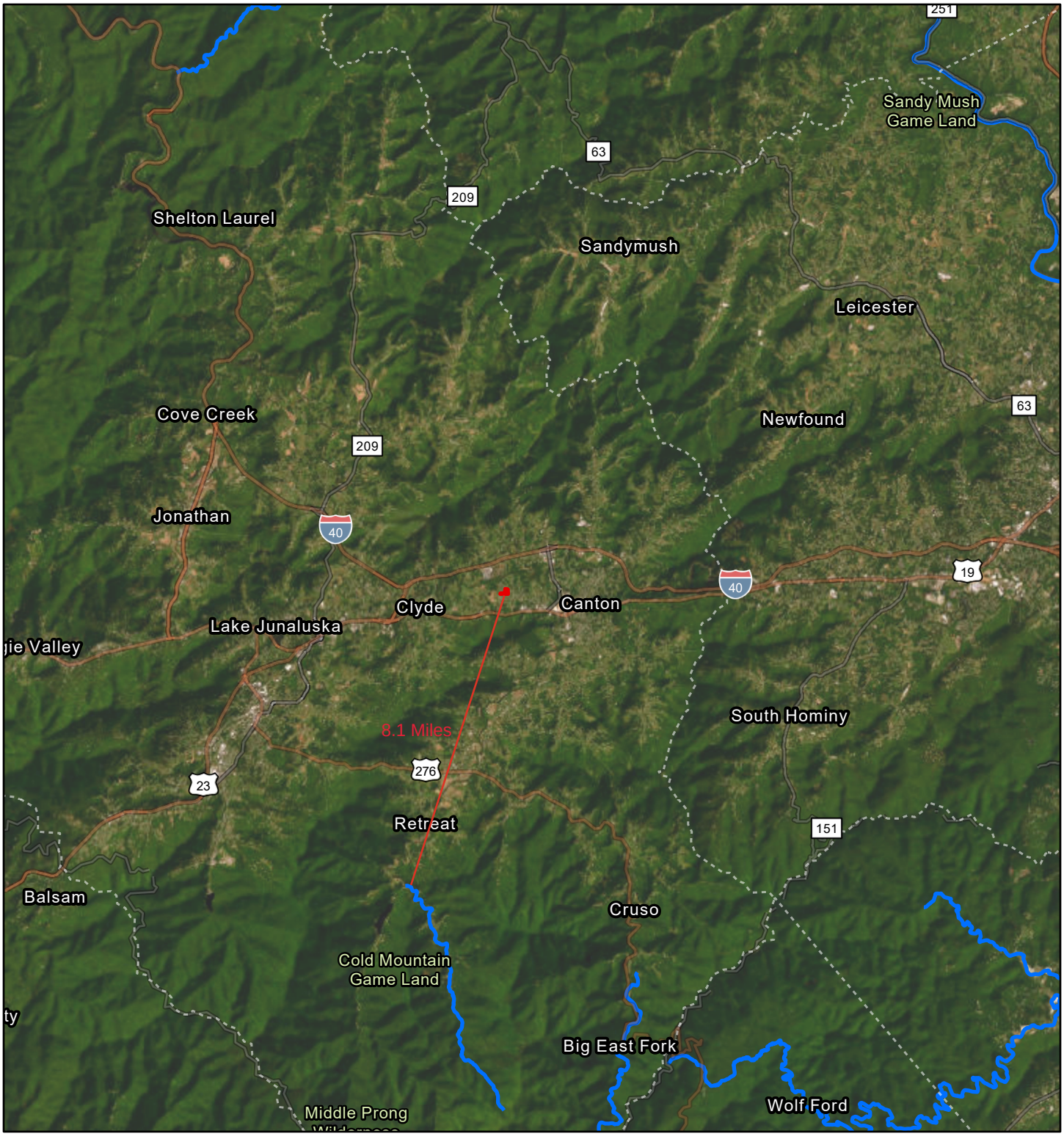
Wild and Scenic Rivers

Wild and Scenic Rivers | Harkins Ave



7/16/2026

MFH Site Boundary

Nationwide Rivers Inventory

National Wild and Scenic Rivers Line

1:288,895

0 2 4 8 mi

0 3.25 6.5 13 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, NPS, Managing Agencies United States Forest Service (USFS), National Park Service (NPS), Bureau of Land Management (BLM), Fish and Wildlife Services (FWS), Earthstar Geographics

Land Development

Meeting Notes

Title: Harkins ToC TRC Mtg

Location: ToC Town Hall Board room **Date/Time:** 4/16/26 @ 1pm

Attendees: Byron Hillcox — ToC water/utilities
Town Mgr — Si Simmons
Chief of Police — Maggie Leftwich
Chief of Fire Dept.

Notes:
- Harkins is State rd, Keith St not DOT maintained
- water line (existing) in need of repair @ bottom of plat
- Fire Dept. - radius on cul de sacs looks doable, but tight for trucks (rd is 23') sidewalks okay
- Fire Hydrants - existing (bottom left on plat) + 2 more (lots 13 & 18)
- ① Planning Board → ② Alderman - if full dev of double-wides, it may (unlikely though) get annexed into town
  - * Option: Manufactured Home Overlay District (zoning) - would have to be approved as above (~10-12 wk process) - NO MIN. SQFT
- Police Dept. - spread thin (staffing/manpower) but especially w/ 9 at a time, the plan is okay.

Action Items:
① Hay Co - $ for waterline?
② ToC - overlay request
③ MPI → K & H - demographics (financial)
M - Narrative/draft request
Si - sign off/submit
K+H+C = Saft/affordable options for stickbuilt

BUNNELL LAMMONS ENGINEERING

July 26, 2021

Mr. Scott Burwell, PE
McGill Associates, P.A.
55 Broad Street
Asheville, North Carolina 28801

Subject: **Report of Preliminary Geotechnical Exploration**
Harkins Avenue Property (Haywood County Parcel #8647-83-7739)
West Canton, North Carolina
BLE Project No. J21-16456-01

Dear Mr. Burwell:

Bunnell-Lammons Engineering, Inc. (BLE) is pleased to present this report of preliminary geotechnical exploration for the above-referenced project. Our services were provided in accordance with Bunnell-Lammons Engineering (BLE) Proposal No. P21-1456 dated July 9, 2021 and executed by you on July 19, 2021. The purpose of this exploration was to develop information about the site and subsurface soil conditions that could be used in evaluating the feasibility of prospective construction at the site. This report details the findings of the preliminary geotechnical exploration performed. Project information was obtained through correspondence with McGill Associates, P.A. personnel and a review of publicly available aerial photography. Additional project information was obtained from several site visits performed by BLE during the course of the geotechnical exploration.

PROJECT INFORMATION

Consideration is currently being given to the purchase of a parcel of land totaling approximately 5.97 acres. The parcel of land is identified by the Haywood County Tax Assessor as PIN 8647-83-7739 (Figure 1). The project is in the early stages of development at this time; however, we understand initial plans are to develop the property with a new single-family subdivision. The exact building type, orientation and site layout is speculative at this time. However, we anticipate that potential structures would be typical wood framed one or two-story residential dwellings supported on crawl spaces or grade slabs. Asphalt drives and roadway are also anticipated. At this preliminary stage, site layout information has not been developed; however, we anticipate that the site layout to incorporate potential structures at elevations close to that of the existing site grades. As such, minimal grading is anticipated to establish new site grades.

Detailed information regarding anticipated structural loads have not been developed at this time. For the purposes of this report, we have assumed that future buildings would be lightly loaded wood framed residential type structures, as such, based on our experience on similar projects, we assume that the typical wall footing loads would not exceed 3 kips per lineal foot (klf).

FIELD EXPLORATION

The preliminary exploration included ten (10) soil test borings. Boring locations were distributed across the property and were located in areas that could be accessed by the drill rig without requiring clearing of vegetation or grading. The approximate locations of the borings are shown on the attached Figure 2 - Boring Location Plan. The soil test borings were performed using a track-mounted drill rig using 2-1/4 inch I.D. hollow-stem augers. The soil test borings ranged in depth from 15 feet to 20 feet (boring termination depth) below the existing ground surface. Soil samples were obtained in accordance with ASTM D 1586 by driving a 1-3/8 inch I.D. split-spoon sampler with an Autohammer. The boring locations were established in the field by our Mr. Sam Interlicchia by referencing publicly available aerial photography, using existing site features (existing roads and structures) as reference. As such, the boring locations referenced in this report and shown on the figures and field records should be considered approximate.

Area Geology

The project site is located in the Blue Ridge Physiographic Province. The bedrock in this region is a complex crystalline formation that has been faulted and contorted by past tectonic movements. The rock has weathered to residual soils which mantle the hillsides and hilltops. The typical residual soil profile in areas not disturbed by erosion or human activities consists of clayey soils near the surface where weathering is more advanced, underlain by sandy silts and silty sands.

The boundary between soil and rock is not sharply defined, and there often is a transitional zone, termed "partially weathered rock," overlying the parent bedrock. Partially weathered rock is defined, for engineering purposes, as residual material with standard penetration resistances in excess of 100 blows per foot (bpf). Weathering is facilitated by fractures, joints, and the presence of less resistant rock types. Consequently, the profile of the partially weathered rock and hard rock is quite irregular and erratic, even over short horizontal distances. Also, it is not unusual to find lenses and boulders of hard rock and/or zones of partially weathered rock within the soil mantle, well above the general bedrock level. The upper soils along drainage features and in flood plain areas are generally water-deposited (alluvial) materials that have been eroded and washed down from adjacent higher ground. Alluvial soils are usually soft and compressible, having never been consolidated by pressures in excess of their present overburden.

Site Conditions

The subject site is located in West Canton, North Carolina. The site consists of one parcel of land, identified by the Haywood County Tax Assessor as Parcel Number 8647-83-7739, totaling approximately 5.97-acres. The property was accessed at the end of Harkins Avenue, which is located on the west side of the property, near the southern end of the site. The property is currently undeveloped and based on our review of publicly available current and historical aerial photography, the property has primarily been utilized as an agricultural field. Generally speaking, the existing topography slopes to the south, southwest with an elevation difference estimated to be approximate 50 feet across the site. Surrounding properties typically consists of residential and agricultural developments. A small unnamed creek flows in an east to west directions along the southern property boundary. At the time of our site visit, the creek was observed to be approximately 12 inches in width and several inches in depth with a bottom consisting of grass along with scattered sand and gravel. No apparent groundwater springs (other than what was noted above) or rock outcroppings were observed in the general area surrounding our soil test borings at the time of our site visit. We note that this is a large site and we only observed site conditions in the vicinity of the soil test borings. Conditions differing from the above-described are plausible

Subsurface Conditions

Subsurface conditions in the area where the soil test borings were performed generally consisted of a 4- to 8-inch-thick surface layer of roots and topsoil at all ten-soil test boring locations. The various elements composing the subsurface are summarized in Table 1 and detailed on the Boring Records attached to this report.

Table 1. Subsurface Elements

Boring Number	Fill Thickness, ft.	Depth to Residual Material, ft.	Boring Depth, ft.
B-1	3½	3½	20 (a)
B-2	3½	3½	20 (a)
B-3	3½	3½	20 (a)
B-4	6	6	20 (a)
B-5	6	6	20 (a)
B-6	6	6	20 (a)
B-7	3½	3½	15 (a)
B-8	6	6	20 (a)
B-9	3½	3½	15 (a)
B-10	3	3	15 (a)

(a) relative to the existing ground surface elevation.

Soil interpreted as fill soils composed of firm and dense clayey, very-silty sands were encountered at all ten-soil test boring locations to depths of between 3 feet and 6 feet below the existing ground surface. It is also thought that the near surface soils may also have been disturbed by agricultural activities. No compaction testing data or field records of fill placement were available for our review. The SPT resistance data ranged from 8 to 35 blows per foot. The high SPT resistance data was also most likely elevated by rock fragments within the soil matrix, particular at soil test borings B-5 and B-9. The fill soils were also noted to be very dry at the time of our exploration and the low moisture content may have resulted in elevated SPT resistance values higher than would account for the strength and density of the soils. The fill was generally free of organics and deleterious materials, but it should be noted that the content and quality of man-made fills can vary significantly.

Soil interpreted as residual soil typical of the Blue Ridge Physiographic Province was encountered below the previously described fill soil. The residual soils consisted of loose and dense damp to wet very silty and silty sands. Standard penetration resistance (blow counts, N values) ranged from 6 to 39 blows per foot. All ten soil test borings were terminated in residual soil. No partially weathered rock (PWR) or rock was encountered at the depths drilled during the exploration.

Groundwater was not encountered in the soil test boring at the time of drilling or backfilling. However, the soil test borings were noted to have caved at depths of between 7 feet and 10 feet below the existing ground surface before the boreholes were backfilled as indicated in Table 2 below. Caved conditions often indicate a groundwater level just below that depth. Because the borings were located in an area that was accessible by the public (kids were see running around) and for safety concerns, the borings were backfilled shortly after drilling, thus precluding 24-hour groundwater level measurements. It should be noted that groundwater levels may fluctuate several feet with seasonal and rainfall variations and with changes in the water level in the adjacent unnamed creek and associated drainage features. Normally, the highest groundwater levels occur in late winter and spring and the lowest levels occur in late summer and fall. Groundwater elevations may also fluctuate due to construction activity.

Table 2 - Groundwater Summary Table

Boring No.	Ground Water at Time of Drilling/Backfilling Depth (ft)	Caved Depth Depth (ft)
B-1	---	8 (a)
B-2	---	9 (a)
B-3	---	7 (a)
B-4	---	9 (a)
B-5	---	10 (a)
B-6	---	8 (a)
B-7	---	9 (a)
B-8	---	9 (a)
B-9	---	8 (a)
B-10	---	9 (a)

(a) relative to the existing ground surface elevation.

The descriptions above provide a general summary of the subsurface conditions encountered. The appended test boring records contain detailed information recorded at each boring location. These represent our interpretation of subsurface conditions based on engineering examination of the field samples. The lines designating the interfaces between various strata represent approximate boundaries and the transition between strata may be gradual. It should be noted that the soil conditions will vary between boring locations.

PRELIMINARY GEOTECHNICAL RECOMMENDATIONS

These preliminary recommendations have been developed from the obtained boring data, our experience with similar soil conditions, and the assumed foundation loading. Additional soil test borings, laboratory testing and analysis will be needed as the project advances. Assuming subsurface conditions encountered at the boring locations are representative of subsurface conditions elsewhere on the site, the following preliminary conclusions and recommendations should generally be applicable for this site.

General Assessment

Based on the boring data collected to date, the near surface soils generally consist of low to moderate consistency fill and residual soils within the depths of interest. Assuming subsurface conditions encountered at the boring locations are representative of subsurface conditions elsewhere throughout the site, it is anticipated that future site development can generally be accomplished using conventional construction approaches and standard building practices. Shallow foundations appear to be a feasible approach to building support, provided all footings bear in firm or better residual soils; evaluated and approved existing fill; or in new, well-compacted fill that has been monitored and tested by BLE. However, it is possible that these borings may not fully represent the conditions across the entire site. Since the site was previously developed, unexpected conditions, such as buried debris or loose/soft fill soils can be present between the boring locations, and as such some selective undercutting may be required at some locations.

Another area that could require additional scrutiny from a geotechnical perspective is the south boundary of the property where the small unnamed creek was observed (if development is proposed in this area). It is possible for soft/loose and wet alluvium soils (water-deposited) to be present. Since the scope and scale of the project is speculative at this time and future development locations have had not been determined additional exploration may be required if development is proposed in this area.

Foundations Preliminary Design Parameters

It is anticipated that the new residential structures could be supported on shallow foundations bearing in the undisturbed residual soils, approved existing fill, or in new well compacted fill evaluated and tested by BLE and provided that the loads do not exceed 3 kips per lineal foot (klf) and that the provisions provided in this report are followed. Provided this is accomplished, the foundations may be sized for a uniform allowable bearing pressure of 2,500 psf, subject to the criteria and site preparation recommendations in this report.

Once detailed foundation loads and bearing elevations are determined, we can provide more specific recommendations. As these are preliminary recommendations, we have not performed any detailed settlement evaluation.

As with any previously placed, undocumented fill, there remains the possibility of encountering unexpected conditions during construction. Although not prevalent, in areas where foundations bear in pre-existing fill, select undercut and replacement maybe required. The need for undercutting should be determined by a BLE representative at the time of construction.

General Foundation Recommendations

We recommend that the minimum widths for individual column and continuous wall footings be 24 and 18 inches, respectively. The minimum widths are considered advisable to provide a margin of safety against a local or punching shear failure of the foundation soils. Exterior/perimeter footings should bear at least 24 inches below final exterior grade for embedment needed to develop the recommended allowable design bearing pressure range and to provide frost protection. Interior footings beneath heated space that will be protected from frost heave should bear at least 18-inches below the floor slab. Shallow foundation proposed to be located on or near the crest of slopes are recommended to have the bearing elevations established such that the footings have at least 6 feet of soil cover measured horizontally from the bottom of the foundation to the slope face. This may result in the footings bearing deeper than that recommended for minimum frost embedment depth. We recommend that foundation excavations be observed and tested by an experienced engineering technician working under the direction of the BLE geotechnical engineer.

Grade Slab

Grade slabs may be soil supported assuming that the site is prepared in accordance with the recommendations in this report. The grade slab should be jointed around columns and along footing supported walls so that the slab and foundations can settle differentially without damage. If slab thickness permits, joints containing dowels or keys may be used in the slab to permit lateral movement between parts of the slab without cracking or sharp vertical displacements. A layer of granular material, such as clean, #57 stone (minimum thickness 6 inches), should be placed immediately beneath the grade slab to provide a capillary barrier and to increase the load distribution capabilities. We recommend that a modulus of subgrade reaction value of 100 psi/inch or less be used for design of grade slab on subgrades prepared as recommended in this report. An appropriate vapor barrier should be incorporated in the grade slab design. Completed slabs should be protected from excessive surface moisture prior to and during periods of prolonged below-freezing temperatures to prevent subgrade freezing and resulting heave.

General Grading Recommendations

Site Preparation

Existing cultivated soil and other plant growth, disturbed soils and surface soils containing organic matter or other deleterious materials should be stripped from within the proposed fill areas and building areas. Topsoil and organic soils may be stockpiled for later use in areas to be landscaped. Based on our visual observation, it appears the upper 4 to 8 inches of the soil contain significant root content. As such, a stripping depth of 8-inches can be assumed for preliminary evaluation of grading costs. However, we recommend that a number of shallow test pits be excavated throughout the site to confirm this assumed depth.

Proofrolling

After the removal of all unsuitable surface materials and before any grading commences, we recommend that areas to provide support for fill areas, foundations, floor slab area and roadways be carefully inspected for soft surficial soils and proofrolled with a 20 to 25-ton, four-wheeled, rubber-tired roller or similar approved equipment. The proofroller should make at least four passes over each location, with the last two passes perpendicular to the first two. Any areas which wave, rut, or deflect excessively and continue to do so after several passes of the proofroller should be excavated to firmer soils. The excavated areas should be backfilled in thin lifts with engineered fill as recommended in this report. Proofrolling and excavating operations should be monitored by an experienced engineering technician working under the direction of the BLE geotechnical engineer. Proofrolling should not be performed during or immediately after periods of precipitation or when the ground is frozen.

Ground Water Control

As previously mentioned, ground water was not encountered in the depth explored, but caved conditions were present between 7 and 10 feet below the existing ground surface elevation for the soil test borings performed for the proposed project. However, based on the anticipated construction depths (less than 4 to 5 feet), groundwater is not anticipated to be encountered. However, groundwater could be encountered for deep cuts or deep utility installation. It is also possible that groundwater will be encountered along the southern portion of the property, near the existing unnamed creek, if development is proposed in this area. If there are areas where groundwater seepage is exposed during grading, then subsurface drainage for those areas should be provided with subsurface trench drains that are routed to a suitable outfall outside of the construction area or into the storm drain system as recommended by the Civil Engineer. A typical subsurface trench drain would consist of excavating a trench, lining the trench with filter fabric (Mirafi 140N or equal), backfilling the trench with about 6 inches of washed, crushed No. 57 stone, placing a perforated pipe (either dual-wall high density polyethylene (HDPE) or schedule 80 PVC pipe) in the stone, filling over top of the pipe with an additional 12 inches of stone, wrapping the fabric over the top of the crushed stone, and then covering the drain with properly compacted soil fill. Additionally, it is important to realize that ground water levels will fluctuate and could occur at higher elevations or be perched. BLE should be consulted, if higher than anticipated groundwater levels are encountered. The contractor should also be prepared to promptly remove surface water from the general construction area. If required, adequate control of could likely be accomplished by means of open gravity ditches, trench drains and pumping from gravel-lined, cased sumps located outside of the construction footprint.

Cut and Fill Slopes

Based on our understanding of the limited project information at the time of reporting and our site reconnaissance, the following slope ratios (horizontal:vertical) shown in Table 3 below are recommended for slopes without surcharge at the top. Please note these are provided for slopes less than 15 feet in height.

Table 3 – Slope Ratios

Type of Material	Temporary Slopes (Horizontal:Vertical)	Permanent Slopes (Horizontal:Vertical)
Engineered Fill	1.5:1	2.0:1 or flatter
Residual Soil (cut)	1:1	1.5:1 or flatter
Partially Weathered Rock (cut)	0.5:1	1.5:1

Permanent slopes of 3:1 or flatter would be desirable for mowing. Slope stability analyses and evaluation should be performed on slopes higher than 15 feet. Such analyses are beyond the scope of the services associated with preparation of this preliminary report.

We recommend that the edge of the top of compacted fill slopes extend horizontally beyond the outside edge of the building foundation at least 15 feet or a distance equivalent to the height of fill, whichever is greater, before sloping. The outer edge of structural fill should also extend at least 5 feet beyond paved areas before sloping. Fill slopes should be adequately compacted in accordance with the recommendations of this report. Fill material should be constructed in horizontal stages starting at the base. Prior to each stage of fill placement, the sloped area should be benched into the existing soils with a level pad. The level pad will allow for better compaction of the fill materials. The resulting series of level benches will also serve to break the potential slip plane between the compacted fill layers.

Engineered Fill

Fill used for raising site grades should be uniformly compacted in thin lifts to at least 95 percent of the ASTM D-698 maximum dry density. In addition, the upper 18 inches of subgrade fill beneath the floor slabs and parking areas should be compacted to at least 98 percent of the maximum dry density. As a general rule, the moisture content of the fill soils compacted to 95 percent of the standard maximum dry density should be maintained within plus or minus 3 percent of the optimum moisture content as determined from the standard compaction test. This provision may require the contractor to dry soils during periods of wet weather or to wet soils during dry periods. The fill soils should have a Plasticity Index (PI) of less than 30, and a maximum dry density of no less than 90 pounds per cubic foot (pcf). The soils to be used in the engineered fill should contain no more than 3 percent organic matter by weight and should be free of roots, limbs, other deleterious material and should generally preclude rocks larger than 3 inches in diameter.

Before filling operations begin, representative samples of each proposed fill material should be collected and tested to determine the compaction and classification characteristics, if not already determined. The maximum dry density and optimum moisture content should be determined. Once compaction begins, a sufficient number of density tests should be performed by an experienced engineering technician working under the direction of the geotechnical engineer to measure the degree of compaction being obtained.

Additional Subsurface Exploration

This exploration is preliminary in nature and should be used for general site planning and feasibility evaluation only. Because of the relatively limited information available at this preliminary stage of the project, preparation of a complete report of geotechnical study with specific recommendations for foundation design and site preparation will require supplemental exploration and additional analysis. Additional field testing may include items such as more soil test borings, the collection of relatively undisturbed and disturbed samples, and possibly in-situ testing. Laboratory testing may include triaxial shear tests, consolidation tests, direct shear tests, grain size analysis, unit weight, Atterberg limits, moisture content and compaction tests. Bunnell-Lammons Engineering should be retained to consult with the designer during design development, design and construction phases to be sure that the recommendations are properly interpreted and further developed as necessary.

Basis of Recommendations

Our evaluation and recommendations for this preliminary geotechnical exploration has been based on our understanding of the project and site information and data obtained in our exploration and provided to us. The general subsurface conditions utilized in our evaluations and analyses are based on interpolation of subsurface data between the widely spaced borings. Since this preliminary exploration provides only general soil conditions over the subject site, additional subsurface exploration (more borings and/or test pits, further engineering evaluation, and laboratory testing) may be required for final foundation design and determining more specific site preparation procedures. The final exploration should be performed after the locations, configurations, loading conditions, and finished floor elevations have been finalized.

Closing

We appreciate the opportunity to provide our professional geotechnical services on this project. We look forward to providing additional geotechnical and material testing services as the project progresses. If you have any questions regarding this preliminary report, please to not hesitate to call us.

Sincerely,
BUNNELL-LAMMONS ENGINEERING, INC.
BLE NC License No. C-1538

Sam C. Interlicchia
Project Manager

NORTH CAROLINA PROFESSIONAL SEAL 023614 ENGINEER JAMES J. BELGERI
7/26/21

James J. Belgeri, P.E.
Senior Engineer
North Carolina Registered 023614

Attachments:

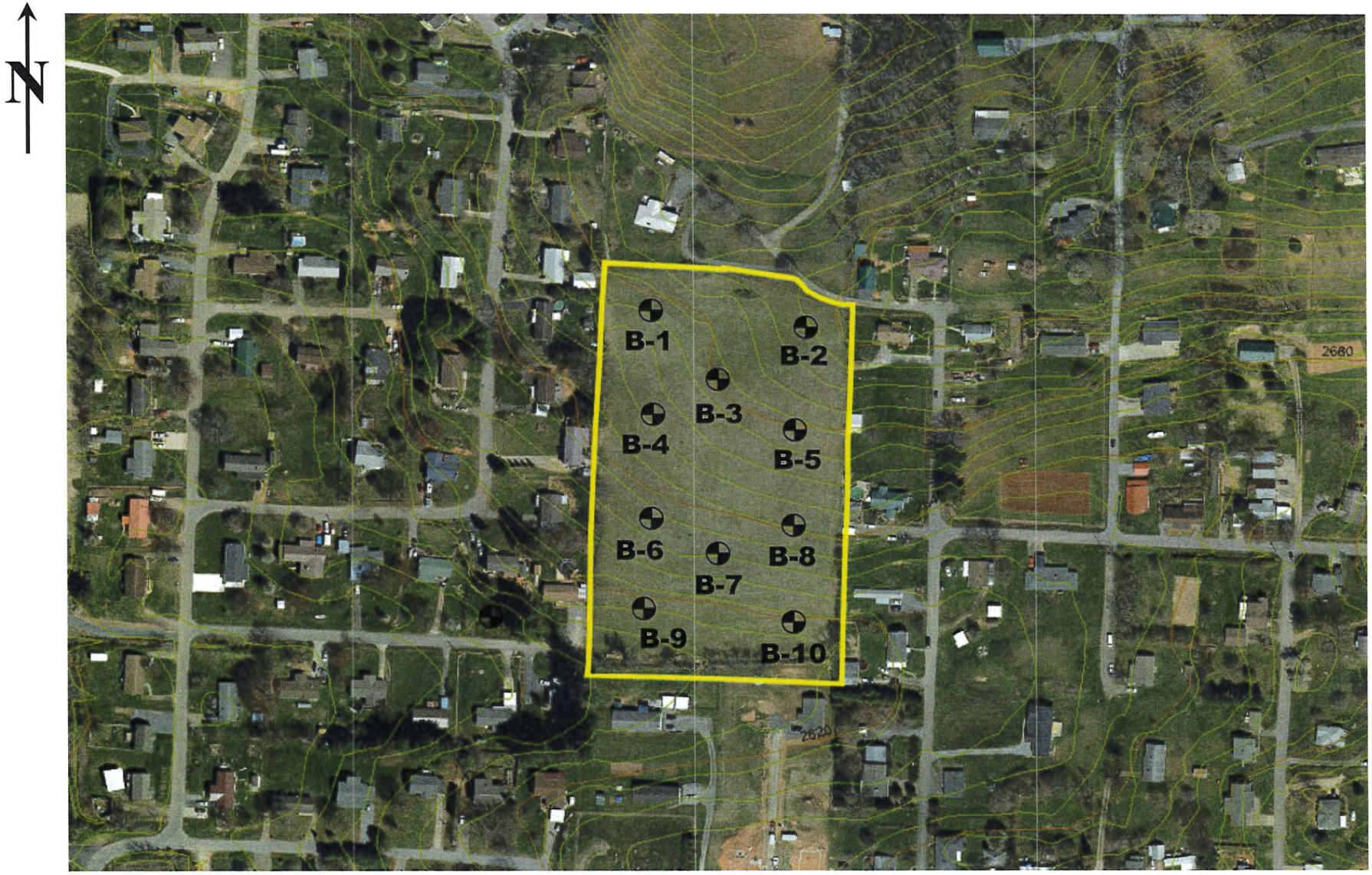
Reference: Haywood County GIS

BUNNELL LAMMONS ENGINEERING

Site Location Map
Harkins Avenue Property
West Canton, North Carolina
BLE Project No. J21-16456-01

Date:
July 2021

Figure No.
1



Approximate Soil Test Boring Location

BLE BUNNELL LAMMONS ENGINEERING	Drawn By: SCI Date: July 2021	Harkins Avenue Property West Canton, North Carolina BLE Job No. J21-16456-01	Boring Location Plan	Figure No. 2

BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

SOIL BORINGS NO. B-1

PROJECT: Harkins Avenue Property — PROJECT NO.: J21-16456-01

CLIENT: McGill Associates, P.A. — START: 07/2021 END: 07/2021

LOCATION: Asheville, North Carolina — ELEVATION:

DRILLER: JORDAN ENVIRONMENTAL, LLC. — LOGGED BY: S. Interlicchia

DRILLING METHOD: Auto Hammer, 2 1-4" Hollow Stem Auger

DEPTH TO - WATER> INITIAL: ▽ _____ AFTER 24 HOURS: ▼ _____ CAVING> 8

ELEVATION/ DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT
	Firm, dry, tan brown, silty fine to medium SAND (SM) - (fill)		4 4 7	
	Firm, dry, red, brown, micaceous, silty fine to medium SAND (SM) - (residuum)		2 5 10	
5				
	Firm, damp to wet, orangish red, slightly micaceous to micaceous, very silty fine to medium SAND (SM) -		3 4 7	
			3 4 8	
10				
			3 6 9	
15				
			5 7 11	
20	Boring terminated at 20 feet. No groundwater encountered at time of boring or end of day.			

STANDARD PENETRATION RESULTS BLOWS/FOOT: 2 5 10 20 30 40 50 70 90

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BLB INC.

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

SOIL BORINGS NO. B-2

PROJECT: Harkins Avenue Property
PROJECT NO.: J21-16456-01
CLIENT: McGill Associates, P.A.
START: 07/2021 END: 07/2021
LOCATION: Asheville, North Carolina
ELEVATION:
DRILLER: JORDAN ENVIRONMENTAL, LLC.
LOGGED BY: S. Interlicchia
DRILLING METHOD: Auto Hammer, 2 1-4" Hollow Stem Auger
DEPTH TO - WATER> INITIAL: ▽ AFTER 24 HOURS: ▼ CAVING> 9

ELEVATION/ DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT
	Firm, dry, pale red, clayey, slightly micaceous, very silty, fine to medium SAND (SM) - (fill)		4 4 7	
	Firm, damp, orangish red, micaceous, very silty fine to medium SAND (SM) - (residuum)		2 5 7	
5			3 6 9	
	Very firm and dense, wet, reddish brown, slightly micaceous to micaceous, very silty fine to medium SAND (SM)		5 11 15	
10				
			5 9 13	
15				
			6 15 17	
20	Boring terminated at 20 feet. No groundwater encountered at time of boring or end of day. Boring caved at 9 feet.			

2 5 10 20 30 40 50 70 90

BLB INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

SOIL BORINGS NO. B-3

PROJECT: Harkins Avenue Property — PROJECT NO.: J21-16456-01

CLIENT: McGill Associates, P.A. — START: 07/2021 END: 07/2021

LOCATION: Asheville, North Carolina — ELEVATION:

DRILLER: JORDAN ENVIRONMENTAL, LLC. — LOGGED BY: S. Interlicchia

DRILLING METHOD: Auto Hammer, 2 1-4" Hollow Stem Auger

DEPTH TO - WATER> INITIAL: ▽ _____ AFTER 24 HOURS: ▼ _____ CAVING> 7

ELEVATION/ DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT (2 5 10 20 30 40 50 70 90)
	Firm, dry, pale red, slightly clayey, slightly micaceous, very silty fine to medium SAND (SM) - (fill)		4 5 7	
5	Loose, damp, tan, red, slightly micaceous, very silty fine to medium SAND (SM) - (residuum)		1 3 5	
	Firm, damp, reddish brown, slightly micaceous to micaceous, very silty fine to medium SAND (SM)		3 5 8	
10			4 6 9	
15			4 7 11	
			5 8 11	
20	Boring terminated at 20 feet. No groundwater encountered at time of boring or end of day. Boring caved at 7 feet.			

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BLB INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

SOIL BORINGS NO. B-4

PROJECT: Harkins Avenue Property — PROJECT NO.: J21-16456-01

CLIENT: McGill Associates, P.A. — START: 07/2021 END: 07/2021

LOCATION: Asheville, North Carolina — ELEVATION:

DRILLER: JORDAN ENVIRONMENTAL, LLC. — LOGGED BY: S. Interlicchia

DRILLING METHOD: Auto Hammer, 2 1-4" Hollow Stem Auger

DEPTH TO - WATER> INITIAL: ▽ _____ AFTER 24 HOURS: ▼ _____ CAVING> 9

ELEVATION/ DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT (2 5 10 20 30 40 50 70 90)
	Firm, dry, pale red, slightly clayey, slightly micaceous, very silty fine to medium SAND (SM) - (fill)		4 4 7	11
5			5 6 8	14
	Firm, moist, light brown, micaceous, very silty fine to medium SAND (SM) - (residuum)		4 5 7	12
	Very firm, moist, dark reddish brown, very micaceous, very silty fine to medium SAND (SM)		6 10 12	22
10			5 12 12	24
15			4 13 17	30
20	Boring terminated at 20 feet. No groundwater encountered at time of boring or end of day. Boring caved at 9 feet.			

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BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

SOIL BORINGS NO. B-5

PROJECT: Harkins Avenue Property — PROJECT NO.: J21-16456-01

CLIENT: McGill Associates, P.A. — START: 07/2021 END: 07/2021

LOCATION: Asheville, North Carolina — ELEVATION:

DRILLER: JORDAN ENVIRONMENTAL, LLC. — LOGGED BY: S. Interlicchia

DRILLING METHOD: Auto Hammer, 2 1-4" Hollow Stem Auger

DEPTH TO - WATER> INITIAL: ▽ _____ AFTER 24 HOURS: ▼ _____ CAVING> 10

ELEVATION/ DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT (2 5 10 20 30 40 50 70 90)
	Firm, dry, pale red, clayey, slightly micaceous, very silty fine to medium SAND (SM) - (fill)		4 5 6	10
5			4 13 12	25
	Firm, moist, pale brown, slightly micaceous, very silty fine to medium SAND (SM) - (residuum)		5 5 8	10
10			3 5 8	10
			5 4 7	10
15			5 9 9	18
20	Boring terminated at 20 feet. No groundwater encountered at time of boring or end of day. Boring caved at 10 feet.			

BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

SOIL BORINGS NO. B-6

PROJECT: Harkins Avenue Property — PROJECT NO.: J21-16456-01

CLIENT: McGill Associates, P.A. — START: 07/2021 END: 07/2021

LOCATION: Asheville, North Carolina — ELEVATION:

DRILLER: JORDAN ENVIRONMENTAL, LLC. — LOGGED BY: S. Interlicchia

DRILLING METHOD: Auto Hammer, 2 1-4" Hollow Stem Auger

DEPTH TO - WATER> INITIAL: ▽ — AFTER 24 HOURS: ▼ — CAVING> 8

ELEVATION/ DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT (2 5 10 20 30 40 50 70 90)
	Firm, dry, pale, red, clayey, very silty fine to medium SAND (SM) - fill		6 6 10	
	Rock Fragments		7 10 14	
5	Firm damp, yellowish brown, micaceous, silty fine to medium SAND (SM) - (residuum)		8 13 7	
	Firm, moist, reddish brown, micaeous, very silty fine to medium SAND (SM)		3 5 6	
10			4 5 7	
15			5 7 9	
20	Boring terminated at 20 feet. No groundwater encountered at time of boring or end of day. Boring caved at 8 feet.			

GEOT_NOWELL 16546-01.GPJ 7/26/21

BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

SOIL BORINGS NO. B-7

PROJECT: Harkins Avenue Property — PROJECT NO.: J21-16456-01

CLIENT: McGill Associates, P.A. — START: 07/2021 END: 07/2021

LOCATION: Asheville, North Carolina — ELEVATION:

DRILLER: JORDAN ENVIRONMENTAL, LLC. — LOGGED BY: S. Interlicchia

DRILLING METHOD: Auto Hammer, 2 1-4" Hollow Stem Auger

DEPTH TO - WATER> INITIAL: ▽ _____ AFTER 24 HOURS: ▼ _____ CAVING> 9

ELEVATION/ DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT
	Firm, dry, pale red, silty, clayey fine to medium SAND (SM) - (fill)		6 7 12	
	Firm, damp, red, very silty fine SAND (SM) - (residuum)		4 6 8	
5				
	Firm and dense, tan, brown, micaceous, silty fine to medium SAND (SM)		6 12 8	
			4 4 4	
10				
	Rock fragments		10 20 19	
15				
	Boring terminated at 15 feet. No groundwater encountered at time of boring or end of day. Boring caved at 9 feet.			
20				

STANDARD PENETRATION RESULTS BLOWS/FOOT: 2 5 10 20 30 40 50 70 90

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BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

SOIL BORINGS NO. B-8

PROJECT: Harkins Avenue Property — PROJECT NO.: J21-16456-01

CLIENT: McGill Associates, P.A. — START: 07/2021 END: 07/2021

LOCATION: Asheville, North Carolina — ELEVATION:

DRILLER: JORDAN ENVIRONMENTAL, LLC. — LOGGED BY: S. Interlicchia

DRILLING METHOD: Auto Hammer, 2 1-4" Hollow Stem Auger

DEPTH TO - WATER> INITIAL: ▽ ____ AFTER 24 HOURS: ▼ ____ CAVING> 9

ELEVATION/ DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT (2 5 10 20 30 40 50 70 90)
0	Firm, dry, pale red, silty, clayey fine to medium SAND (SM) - (fill)		5 6 9	11
			5 7 10	17
5				
	Firm, moist, tan, brown, micaceous, silty fine to medium SAND (SM) - (residuum)		4 8 10	18
			4 6 6	12
10				
			3 6 8	14
15				
			5 10 10	20
20	Boring terminated at 20 feet. No groundwater encountered at time of boring or end of day. Boring caved at 9 feet.			

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BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

SOIL BORINGS NO. B-9

PROJECT: Harkins Avenue Property — PROJECT NO.: J21-16456-01

CLIENT: McGill Associates, P.A. — START: 07/2021 END: 07/2021

LOCATION: Asheville, North Carolina — ELEVATION:

DRILLER: JORDAN ENVIRONMENTAL, LLC. — LOGGED BY: S. Interlicchia

DRILLING METHOD: Auto Hammer, 2 1-4" Hollow Stem Auger

DEPTH TO - WATER> INITIAL: ▽ _____ AFTER 24 HOURS: ▼ _____ CAVING> 8

ELEVATION/ DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT (2 5 10 20 30 40 50 70 90)
	Dense, dry, brown, silty fine to medium SAND (SM) with rock fragments - (fill)		7 10 25	
	Firm and loose, wet, tan to reddish brown, very silty fine to medium SAND (SM) - (residuum)		1 4 8	
5			3 5 8	
			3 4 8	
10				
			2 3 7	
15	Boring terminated at 15 feet. No groundwater encountered at time of boring or end of day. Boring caved at 8 feet at end of day.			
20				

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BLB INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

SOIL BORINGS NO. B-10

PROJECT: Harkins Avenue Property — PROJECT NO.: J21-16456-01

CLIENT: McGill Associates, P.A. — START: 07/2021 END: 07/2021

LOCATION: Asheville, North Carolina — ELEVATION:

DRILLER: JORDAN ENVIRONMENTAL, LLC. — LOGGED BY: S. Interlicchia

DRILLING METHOD: Auto Hammer, 2 1-4" Hollow Stem Auger

DEPTH TO - WATER> INITIAL: ▽ _____ AFTER 24 HOURS: ▼ _____ CAVING> 9

ELEVATION/ DEPTH (FT)	SOIL DESCRIPTION	SOIL TYPE	SAMPLES	STANDARD PENETRATION RESULTS BLOWS/FOOT
	Firm, dry, tan, brown, silty fine to medium SAND (SM) - (fill)		7 10 25	
	Firm, damp, pale brown, slightly micaceous, silty fine to medium SAND (SM) - (residuum)		1 4 8	
5				
	Loose to very firm, wet, dark reddish gray, slightly micaceous, very silty fine medium SAND (SM)		3 5 8	
			3 4 8	
10				
			2 3 7	
15	Boring terminated at 15 feet. No groundwater encountered at time of boring or end of day. Boring caved at 9 feet at end of day.			
20				

STANDARD PENETRATION RESULTS BLOWS/FOOT: 2 5 10 20 30 40 50 70 90

GEOT_NOWELL 16546-01.GPJ 7/26/21

KEY TO SOIL CLASSIFICATIONS AND CONSISTENCY DESCRIPTIONS

BUNNELL-LAMMONS ENGINEERING, INC.
ASHEVILLE, NORTH CAROLINA

Penetration Resistance* Blows per Foot	Relative Density
SANDS	
0 to 4	Very Loose
5 to 10	Loose
11 to 20	Firm
21 to 30	Very Firm
31 to 50	Dense
over 50	Very Dense

Penetration Resistance* Blows per Foot	Consistency
SILTS and CLAYS	
0 to 2	Very Soft
3 to 4	Soft
5 to 8	Firm
9 to 15	Stiff
16 to 30	Very Stiff
31 to 50	Hard
over 50	Very Hard

*ASTM D 1586

Particle Size Identification

Boulder: Greater than 300 mm
Cobble: 75 to 300 mm
Gravel:
Coarse - 19 to 75 mm
Fine - 4.75 to 19 mm
Sand:
Coarse - 2 to 4.75 mm
Medium - 0.425 to 2 mm
Fine - 0.075 to 0.425 mm
Silt & Clay: Less than 0.075 mm

12	Number of blows in first 6-inches
15	Number of blows in second 6-inches
16	Number of blows in third 6-inches

KEY TO DRILLING SYMBOLS

Grab Sample

Split Spoon Sample

Undisturbed Sample

Groundwater Table at Time of Drilling

Groundwater Table 24 Hours after Completion of Drilling

KEY TO SOIL CLASSIFICATIONS

Well-graded Gravel
GW

Low Plasticity Clay
CL

Clayey Silt
MH

Silty Sand
SM

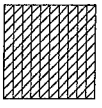
Poorly-graded Gravel
GP

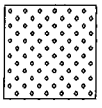
Sandy Clay
CLS

Sandy Silt
MLS

Topsoil
TOPSOIL

Partially Weathered Rock
BLDRCBBL

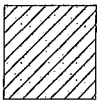

Silty Clay
CL-ML


Sand
SW

Bedrock
BEDROCK

High Plasticity Clay
CH

Silt
ML


Clayey Sand
SC

Concrete
A5

Field Exploration Procedures

SOIL TEST BORINGS

The borings were made by mechanically twisting a continuous flight steel auger into the soil. Soil sampling and penetration testing were performed in accordance with ASTM D-1586. At assigned intervals, soil samples were obtained with a standard 1.4-inch I.D., 2-inch O.D., split-tube sampler. The sampler was first seated 6 inches to penetrate any loose cuttings, and then driven an additional 12 inches with blows of a 140-pound hammer falling 30 inches. The number of hammer blows required to drive the sampler the final 12 inches was recorded and is designated the "standard penetration resistance." The penetration resistance, once properly evaluated, is an index to the strength of the soil and foundation supporting capability. Representative portions of the soil samples, thus obtained, were placed in glass jars and transported to the laboratory. In the laboratory, the samples were examined by a geotechnical engineer and visually classified. Soil Test Boring Records are attached showing the soil descriptions and penetration resistance.

Important Information about This

Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

The Geoprofessional Business Association (GBA) has prepared this advisory to help you – assumedly a client representative – interpret and apply this geotechnical-engineering report as effectively as possible. In that way, you can benefit from a lowered exposure to problems associated with subsurface conditions at project sites and development of them that, for decades, have been a principal cause of construction delays, cost overruns, claims, and disputes. If you have questions or want more information about any of the issues discussed herein, contact your GBA-member geotechnical engineer. Active engagement in GBA exposes geotechnical engineers to a wide array of risk-confrontation techniques that can be of genuine benefit for everyone involved with a construction project.

Understand the Geotechnical-Engineering Services Provided for this Report

Geotechnical-engineering services typically include the planning, collection, interpretation, and analysis of exploratory data from widely spaced borings and/or test pits. Field data are combined with results from laboratory tests of soil and rock samples obtained from field exploration (if applicable), observations made during site reconnaissance, and historical information to form one or more models of the expected subsurface conditions beneath the site. Local geology and alterations of the site surface and subsurface by previous and proposed construction are also important considerations. Geotechnical engineers apply their engineering training, experience, and judgment to adapt the requirements of the prospective project to the subsurface model(s). Estimates are made of the subsurface conditions that will likely be exposed during construction as well as the expected performance of foundations and other structures being planned and/or affected by construction activities.

The culmination of these geotechnical-engineering services is typically a geotechnical-engineering report providing the data obtained, a discussion of the subsurface model(s), the engineering and geologic engineering assessments and analyses made, and the recommendations developed to satisfy the given requirements of the project. These reports may be titled investigations, explorations, studies, assessments, or evaluations. Regardless of the title used, the geotechnical-engineering report is an engineering interpretation of the subsurface conditions within the context of the project and does not represent a close examination, systematic inquiry, or thorough investigation of all site and subsurface conditions.

Geotechnical-Engineering Services are Performed for Specific Purposes, Persons, and Projects, and At Specific Times

Geotechnical engineers structure their services to meet the specific needs, goals, and risk management preferences of their clients. A geotechnical-engineering study conducted for a given civil engineer will not likely meet the needs of a civil-works constructor or even a different civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared *solely* for the client.

Likewise, geotechnical-engineering services are performed for a specific project and purpose. For example, it is unlikely that a geotechnical-engineering study for a refrigerated warehouse will be the same as one prepared for a parking garage; and a few borings drilled during a preliminary study to evaluate site feasibility will not be adequate to develop geotechnical design recommendations for the project.

Do not rely on this report if your geotechnical engineer prepared it:

- for a different client;
- for a different project or purpose;
- for a different site (that may or may not include all or a portion of the original site); or
- before important events occurred at the site or adjacent to it; e.g., man-made events like construction or environmental remediation, or natural events like floods, droughts, earthquakes, or groundwater fluctuations.

Note, too, the reliability of a geotechnical-engineering report can be affected by the passage of time, because of factors like changed subsurface conditions; new or modified codes, standards, or regulations; or new techniques or tools. *If you are the least bit uncertain* about the continued reliability of this report, contact your geotechnical engineer before applying the recommendations in it. A minor amount of additional testing or analysis after the passage of time – if any is required at all – could prevent major problems.

Read this Report in Full

Costly problems have occurred because those relying on a geotechnical-engineering report did not read the report in its entirety. Do not rely on an executive summary. Do not read selective elements only. *Read and refer to the report in full.*

You Need to Inform Your Geotechnical Engineer About Change

Your geotechnical engineer considered unique, project-specific factors when developing the scope of study behind this report and developing the confirmation-dependent recommendations the report conveys. Typical changes that could erode the reliability of this report include those that affect:

- the site's size or shape;
- the elevation, configuration, location, orientation, function or weight of the proposed structure and the desired performance criteria;
- the composition of the design team; or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project or site changes – even minor ones – and request an assessment of their impact. *The geotechnical engineer who prepared this report cannot accept*

responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.

Most of the "Findings" Related in This Report Are Professional Opinions

Before construction begins, geotechnical engineers explore a site's subsurface using various sampling and testing procedures. *Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing is performed.* The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgement to form opinions about subsurface conditions throughout the site. Actual sitewide-subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team through project completion to obtain informed guidance quickly, whenever needed.

This Report's Recommendations Are Confirmation-Dependent

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, they are <u>not</u> final, because the geotechnical engineer who developed them relied heavily on judgement and opinion to do so. Your geotechnical engineer can finalize the recommendations *only after observing actual subsurface conditions* exposed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. *The geotechnical engineer who prepared this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.*

This Report Could Be Misinterpreted

Other design professionals' misinterpretation of geotechnical-engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a continuing member of the design team, to:

- confer with other design-team members;
- help develop specifications;
- review pertinent elements of other design professionals' plans and specifications; and
- be available whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction-phase observations.

Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, *but be certain to note conspicuously that you've included the material for information purposes only.* To avoid misunderstanding, you may also want to note that "informational purposes" means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, *only* from the design drawings and specifications. Remind constructors that they may perform their own studies if they want to, and *be sure to allow enough time* to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. This happens in part because soil and rock on project sites are typically heterogeneous and not manufactured materials with well-defined engineering properties like steel and concrete. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled "limitations," many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are <u>Not</u> Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a "phase-one" or "phase-two" environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually provide environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated subsurface environmental problems have led to project failures.* If you have not obtained your own environmental information about the project site, ask your geotechnical consultant for a recommendation on how to find environmental risk-management guidance.

Obtain Professional Assistance to Deal with Moisture Infiltration and Mold

While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, the engineer's services were not designed, conducted, or intended to prevent migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, ***proper implementation of the geotechnical engineer's recommendations will <u>not</u> of itself be sufficient to prevent moisture infiltration. Confront the risk of moisture infiltration*** by including building-envelope or mold specialists on the design team. ***Geotechnical engineers are <u>not</u> building-envelope or mold specialists.***

GEOPROFESSIONAL BUSINESS ASSOCIATION

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e-mail: info@geoprofessional.org www.geoprofessional.org

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Socioeconomic

County Subdivision

Beaverdam township, Haywood County, North Carolina

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// United States / North Carolina / Haywood County, North Carolina / Beaverdam township, Haywood County, North Carolina

ON Display Sources

Populations and People
Total Population
12,981
P1 | *2020 Decennial Census*

Income and Poverty
Median Household Income
$66,679
S1901 | *2024 American Community Survey 5-Year Estimates*

Education
Bachelor's Degree or Higher
23.1%
S1501 | *2024 American Community Survey 5-Year Estimates*

Employment
Employment Rate
60.2%
DP03 | *2024 American Community Survey 5-Year Estimates*

Housing
Total Housing Units
6,217
B25002 | *2024 American Community Survey 5-Year Estimates*

Health
Without Health Care Coverage
8.1%
S2701 | *2024 American Community Survey 5-Year Estimates*

Families and Living Arrangements
Total Households
5,506
DP02 | *2024 American Community Survey 5-Year Estimates*

Race and Ethnicity
Hispanic or Latino (of any race)
552
P9 | *2020 Decennial Census*

Source: undefined |

Employment

Class of Worker

14.0% ± 3.7%
Local, state, and federal government workers in Beaverdam township, Haywood County, North Carolina

15.5% ± 1.8%
Local, state, and federal government workers in Haywood County, North Carolina

S2406 | *2024 American Community Survey 5-Year Estimates*

Class of Worker
in Beaverdam township, Haywood County, North Carolina

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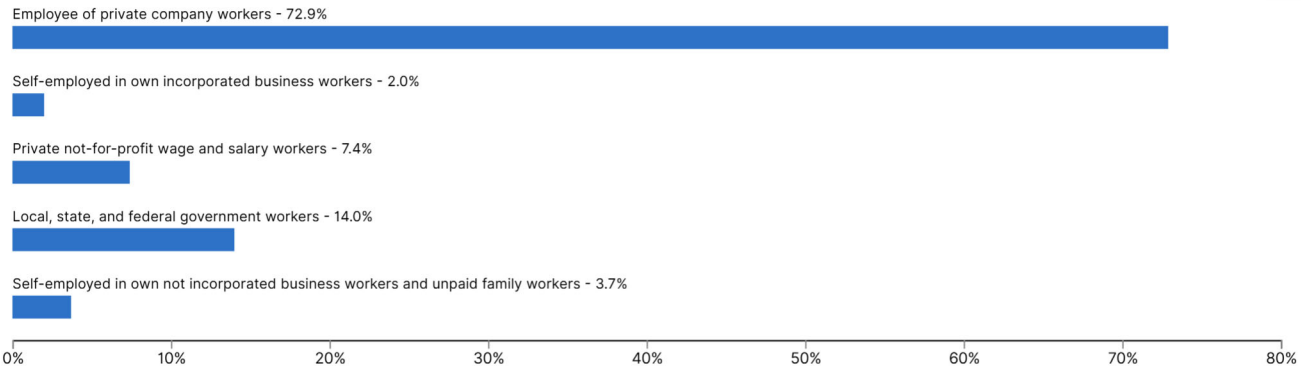

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S2406 | *2024 American Community Survey 5-Year Estimates*

Commuting

23.8 ± 2.4
Average travel time to work (in minutes) in Beaverdam township, Haywood County, North Carolina

23.8 ± 1.2
Average travel time to work (in minutes) in Haywood County, North Carolina

S0801 | *2024 American Community Survey 5-Year Estimates*

Means of Transportation to Work (Workers 16 Years and Over)
in Beaverdam township, Haywood County, North Carolina

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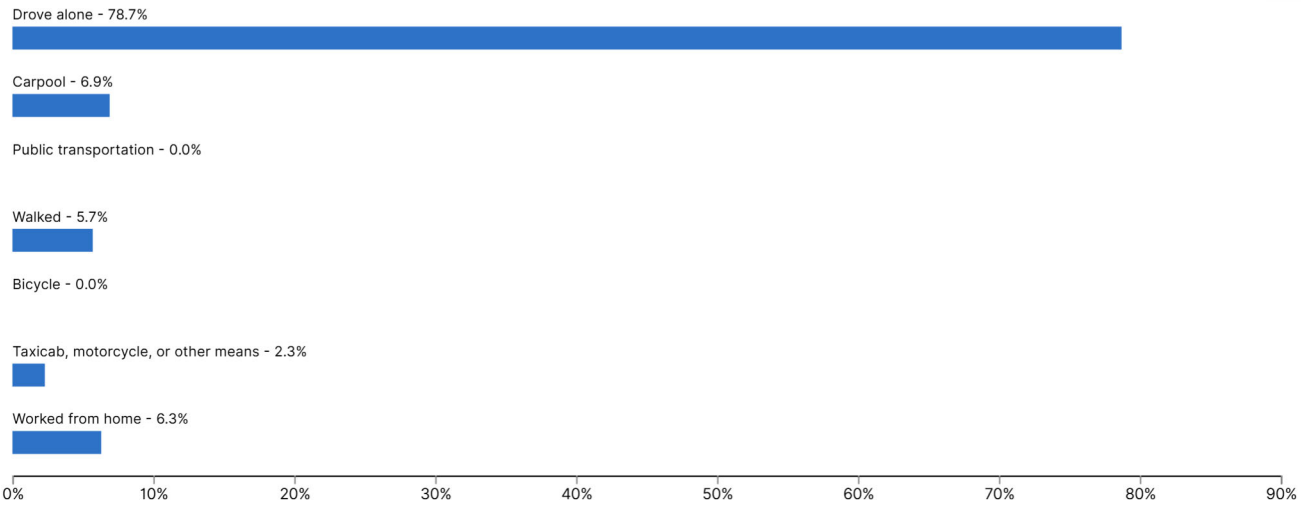

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S0801 | *2024 American Community Survey 5-Year Estimates*

Employment and Labor Force Status

60.2% ± 4.6%
Employment Rate in Beaverdam township, Haywood County, North Carolina

54.1% ± 1.6%
Employment Rate in Haywood County, North Carolina

DP03 | *2024 American Community Survey 5-Year Estimates*

Industry

Industry for the Civilian Employed Population 16 Years and Over
in Beaverdam township, Haywood County, North Carolina

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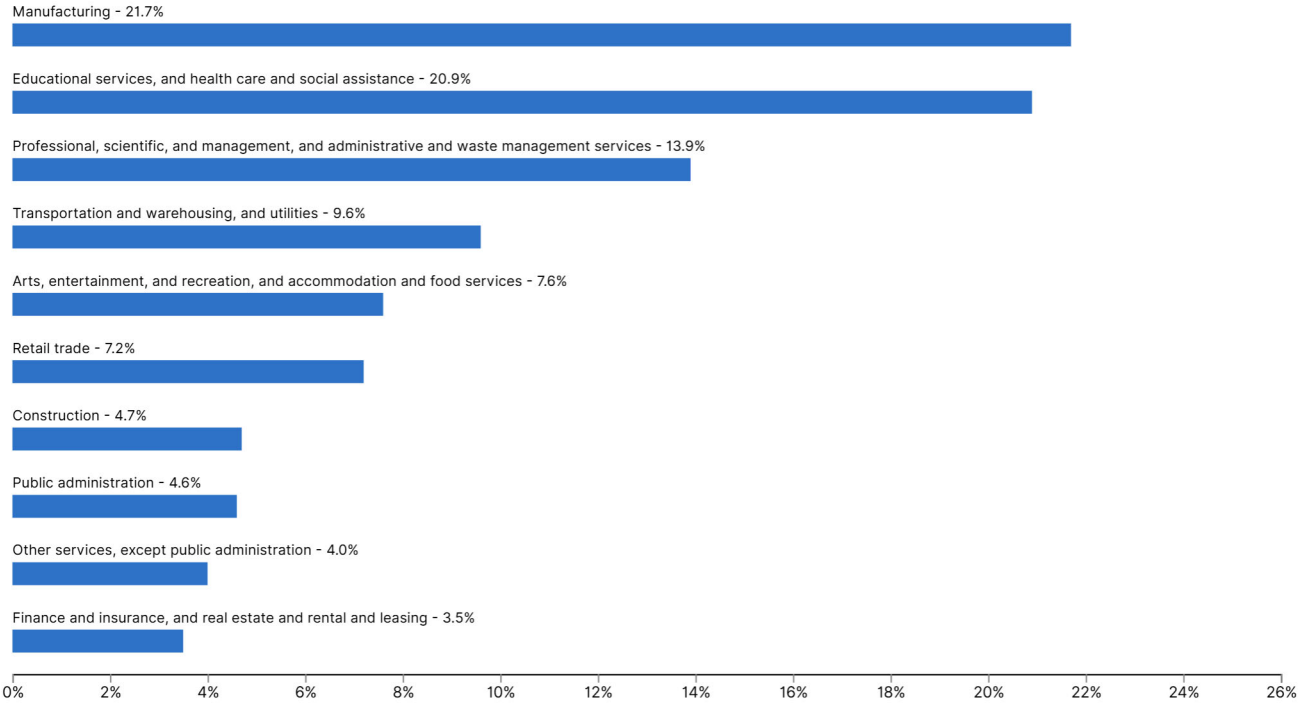

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DP03 | *2024 American Community Survey 5-Year Estimates*

Occupation

Occupation for the Civilian Employed Population 16 Years and Over
in Beaverdam township, Haywood County, North Carolina

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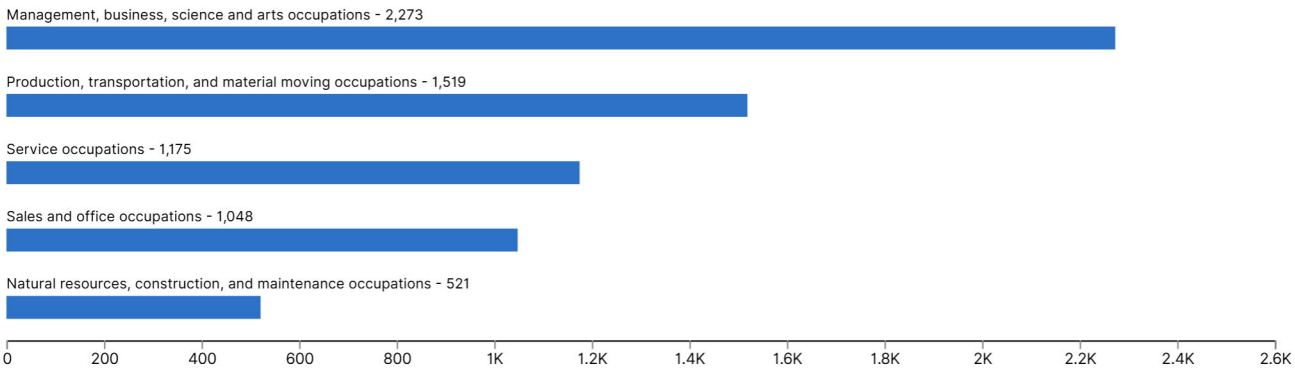

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S2401 | *2024 American Community Survey 5-Year Estimates*

Work Experience

40.5 ± 1.9
Mean Usual Hours Worked for Workers in Beaverdam township, Haywood County, North Carolina

39.3 ± 0.7
Mean Usual Hours Worked for Workers in Haywood County, North Carolina

S2303 | *2024 American Community Survey 5-Year Estimates*

Mean Usual Hours Worked for Workers by Sex
in Beaverdam township, Haywood County, North Carolina

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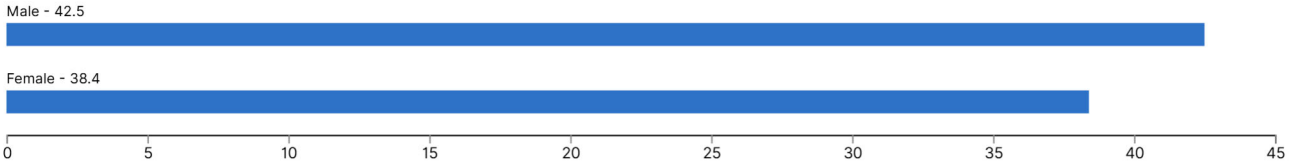

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S2303 | *2024 American Community Survey 5-Year Estimates*

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County Subdivision

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// United States / North Carolina / Haywood County, North Carolina / Beaverdam township, Haywood County, North Carolina

ON Display Sources

Populations and People
Total Population
12,981
P1 | *2020 Decennial Census*

Income and Poverty
Median Household Income
$66,679
S1901 | *2024 American Community Survey 5-Year Estimates*

Education
Bachelor's Degree or Higher
23.1%
S1501 | *2024 American Community Survey 5-Year Estimates*

Employment
Employment Rate
60.2%
DP03 | *2024 American Community Survey 5-Year Estimates*

Housing
Total Housing Units
6,217
B25002 | *2024 American Community Survey 5-Year Estimates*

Health
Without Health Care Coverage
8.1%
S2701 | *2024 American Community Survey 5-Year Estimates*

Families and Living Arrangements
Total Households
5,506
DP02 | *2024 American Community Survey 5-Year Estimates*

Race and Ethnicity
Hispanic or Latino (of any race)
552
P9 | *2020 Decennial Census*

Source: undefined |

Housing

Financial Characteristics

$975 ± $149
Median Gross Rent in Beaverdam township, Haywood County, North Carolina

$1,067 ± $50
Median Gross Rent in Haywood County, North Carolina

DP04 | *2024 American Community Survey 5-Year Estimates*

Occupied Units Paying Rent
in Beaverdam township, Haywood County, North Carolina

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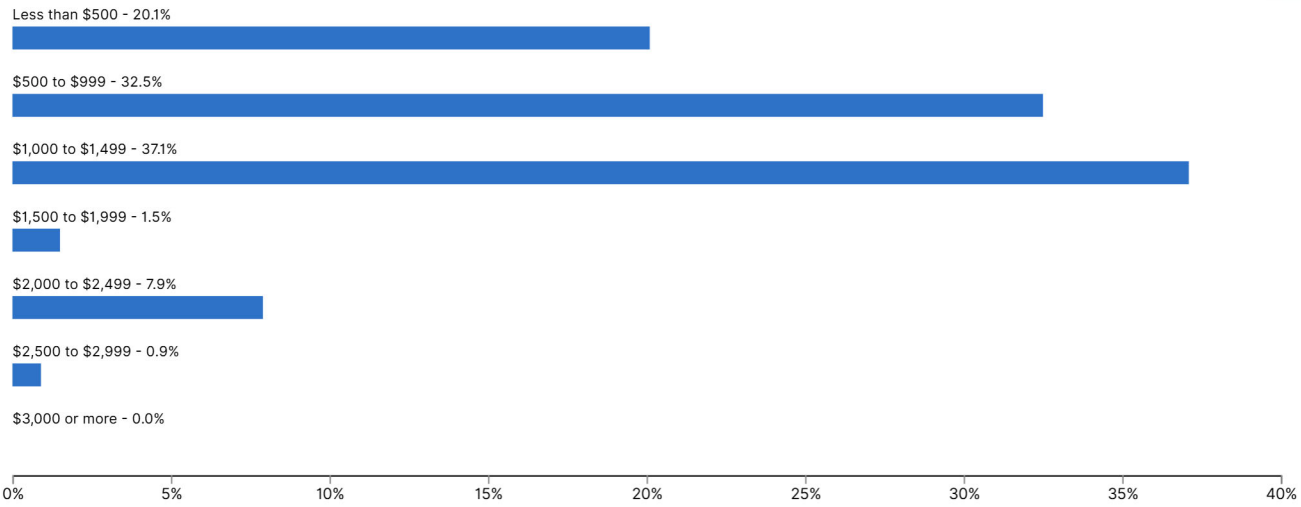

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DP04 | *2024 American Community Survey 5-Year Estimates*

Homeownership Rate

76.8% ± 4.8%
Homeownership Rate in Beaverdam township, Haywood County, North Carolina

74.9% ± 2.1%
Homeownership Rate in Haywood County, North Carolina

DP04 | *2024 American Community Survey 5-Year Estimates*

Housing Value
in Beaverdam township, Haywood County, North Carolina

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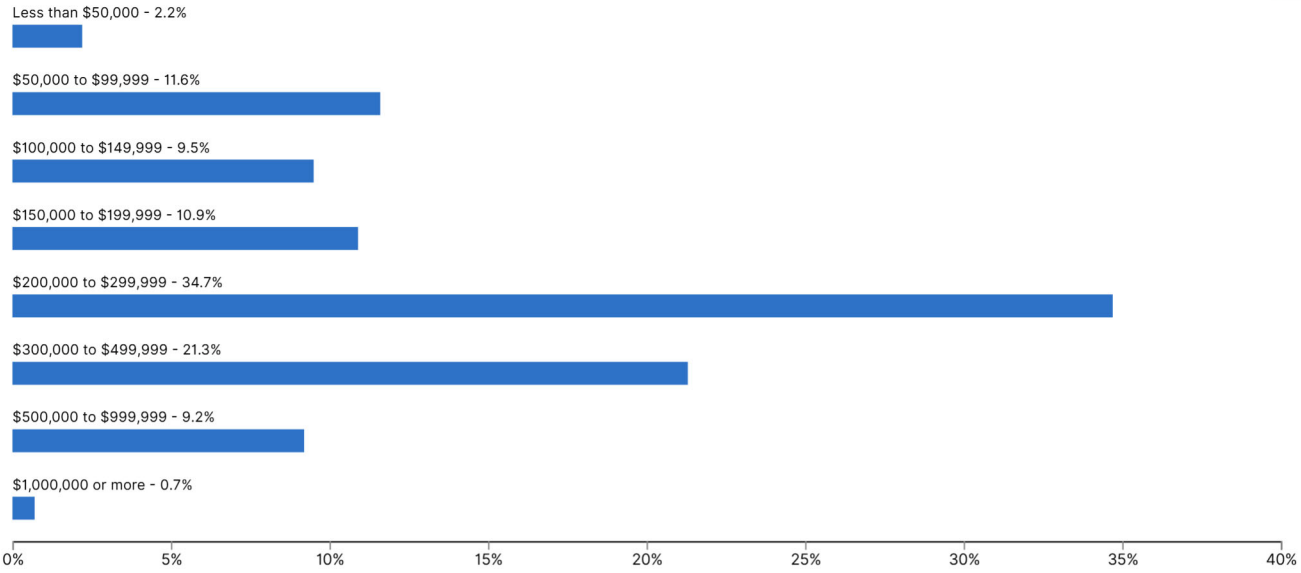

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DP04 | *2024 American Community Survey 5-Year Estimates*

Housing Units

6,217 ± 424
Total Housing Units in Beaverdam township, Haywood County, North Carolina

35,560 ± 41
Total Housing Units in Haywood County, North Carolina

B25002 | *2024 American Community Survey 5-Year Estimates*

Housing Occupancy
in Beaverdam township, Haywood County, North Carolina

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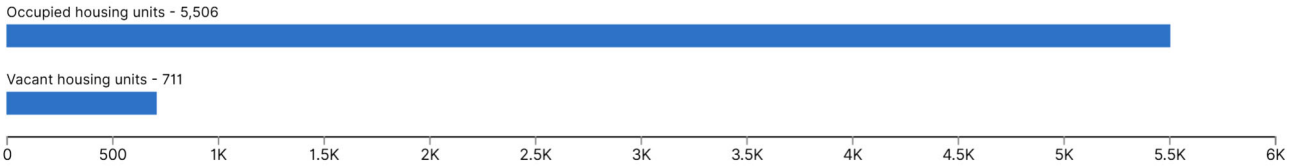

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B25002 | *2024 American Community Survey 5-Year Estimates*

Occupancy Characteristics

5,506 ± 460
Occupied Housing Units in Beaverdam township, Haywood County, North Carolina

27,123 ± 647
Occupied Housing Units in Haywood County, North Carolina

B25002 | *2024 American Community Survey 5-Year Estimates*

Owner Occupied Housing Units by Types of Households
in Beaverdam township, Haywood County, North Carolina

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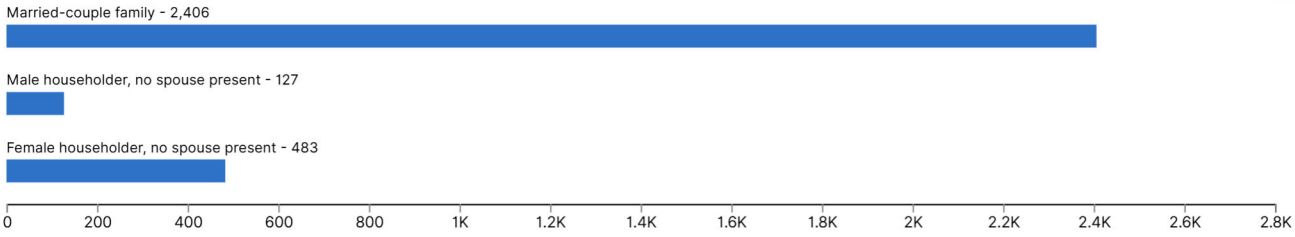

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S2501 | *2024 American Community Survey 5-Year Estimates*

Physical Characteristics

13.5% ± 3.9%
Occupied Housing Units with Four or More Bedrooms in Beaverdam township, Haywood County, North Carolina

13.4% ± 1.8%
Occupied Housing Units with Four or More Bedrooms in Haywood County, North Carolina

S2504 | *2024 American Community Survey 5-Year Estimates*

Bedrooms in Occupied Housing Units
in Beaverdam township, Haywood County, North Carolina

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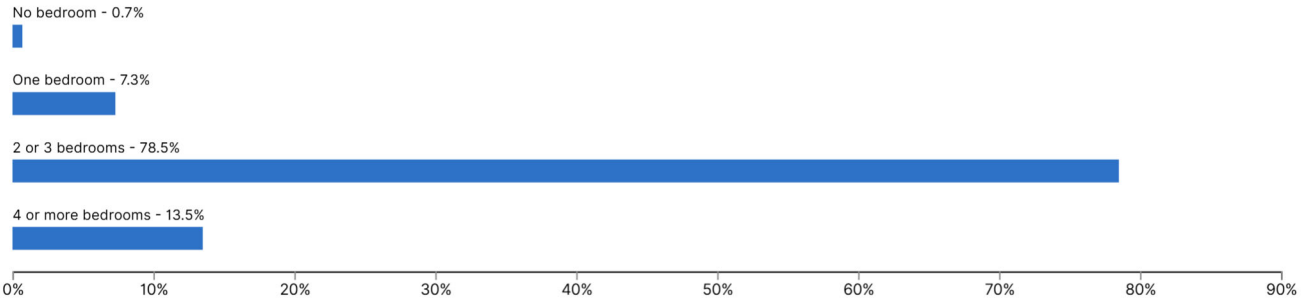

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S2504 | *2024 American Community Survey 5-Year Estimates*

Vacancy

711 ± 251
Vacant Housing Units in Beaverdam township, Haywood County, North Carolina

8,437 ± 649
Vacant Housing Units in Haywood County, North Carolina

B25002 | *2024 American Community Survey 5-Year Estimates*

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County Subdivision

Beaverdam township, Haywood County, North Carolina

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// United States / North Carolina / Haywood County, North Carolina / Beaverdam township, Haywood County, North Carolina

ON Display Sources

Populations and People
Total Population
12,981
P1 | *2020 Decennial Census*

Income and Poverty
Median Household Income
$66,679
S1901 | *2024 American Community Survey 5-Year Estimates*

Education
Bachelor's Degree or Higher
23.1%
S1501 | *2024 American Community Survey 5-Year Estimates*

Employment
Employment Rate
60.2%
DP03 | *2024 American Community Survey 5-Year Estimates*

Housing
Total Housing Units
6,217
B25002 | *2024 American Community Survey 5-Year Estimates*

Health
Without Health Care Coverage
8.1%
S2701 | *2024 American Community Survey 5-Year Estimates*

Families and Living Arrangements
Total Households
5,506
DP02 | *2024 American Community Survey 5-Year Estimates*

Race and Ethnicity
Hispanic or Latino (of any race)
552
P9 | *2020 Decennial Census*

Source: undefined |

Income and Poverty

Income and Earnings

$66,679 ± $8,816
Median Household Income in Beaverdam township, Haywood County, North Carolina

$61,912 ± $2,423
Median Household Income in Haywood County, North Carolina

S1901 | *2024 American Community Survey 5-Year Estimates*

Median Income by Types of Families
in Beaverdam township, Haywood County, North Carolina

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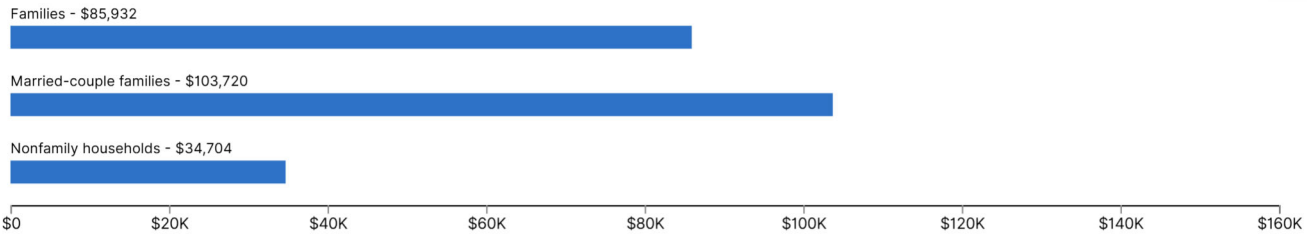

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S1901 | *2024 American Community Survey 5-Year Estimates*

Poverty

13.4% ± 3.6%
Poverty, All people in Beaverdam township, Haywood County, North Carolina

13.1% ± 1.9%
Poverty, All people in Haywood County, North Carolina

S1701 | *2024 American Community Survey 5-Year Estimates*

Poverty by Age
in Beaverdam township, Haywood County, North Carolina

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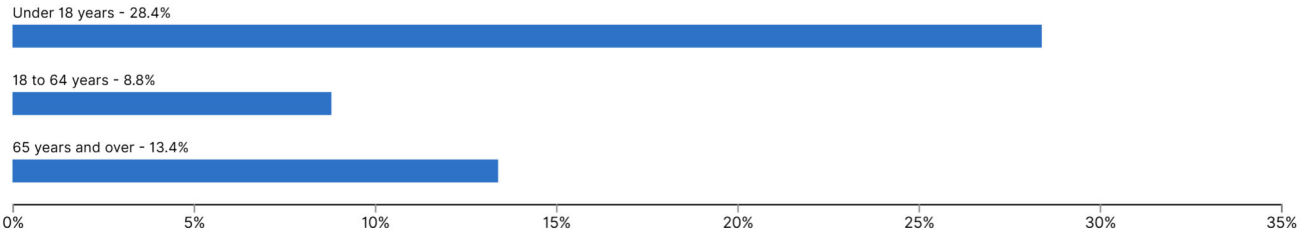

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S1701 | *2024 American Community Survey 5-Year Estimates*

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County

Haywood County, North Carolina

Haywood County, North Carolina has 553.6 square miles of land area and is the 30th largest county in North Carolina by total area. Haywood County, North Carolina is bordered by Jackson County, North Carolina, Swain County, North Carolina, Transylvania County, North Carolina, Henderson County, North Carolina, Cocke County, Tennessee, Buncombe County, North Carolina, Madison County, North Carolina, and Sevier County, Tennessee.

// United States / North Carolina / Haywood County, North Carolina

ON Display Sources

Populations and People
Total Population
62,089
P1 | *2020 Decennial Census*

Income and Poverty
Median Household Income
$61,912
S1901 | *2024 American Community Survey 5-Year Estimates*

Education
Bachelor's Degree or Higher
29.5%
S1501 | *2024 American Community Survey 5-Year Estimates*

Employment
Employment Rate
54.1%
DP03 | *2024 American Community Survey 5-Year Estimates*

Housing
Total Housing Units
35,560
B25002 | *2024 American Community Survey 5-Year Estimates*

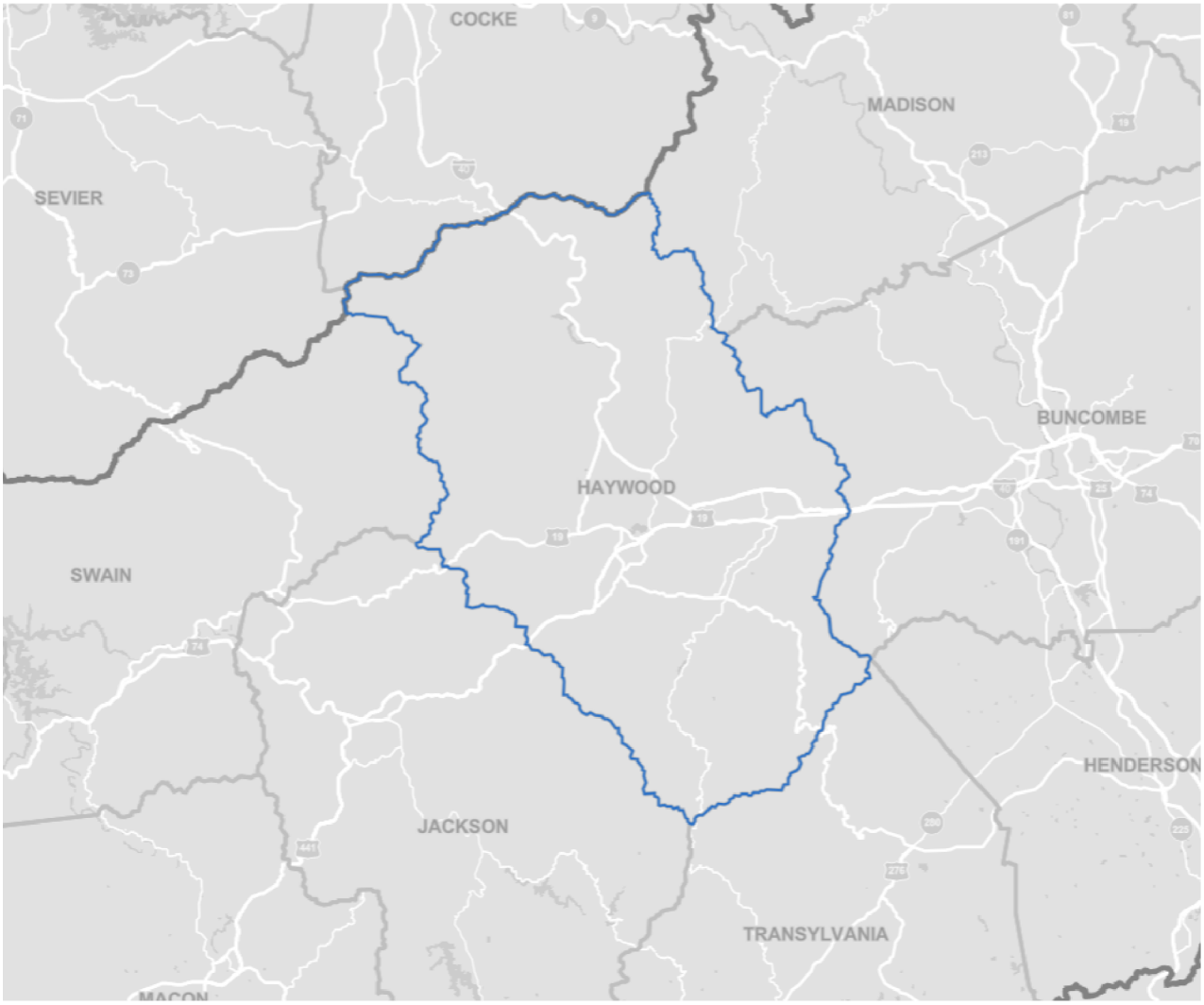
Health
Without Health Care Coverage
11.4%
S2701 | *2024 American Community Survey 5-Year Estimates*

Business and Economy
Total Employer Establishments
1,546
CB2300CBP | *2023 Economic Surveys Business Patterns*

Families and Living Arrangements
Total Households
27,123
DP02 | *2024 American Community Survey 5-Year Estimates*

Race and Ethnicity
Hispanic or Latino (of any race)
2,829
P9 | *2020 Decennial Census*

Haywood County, North Carolina Reference Map



Source: U.S. Census Bureau

Employment

Class of Worker

15.5% ± 1.8%
Local, state, and federal government workers in Haywood County, North Carolina

13.7% ± 0.3%
Local, state, and federal government workers in North Carolina

S2406 | *2024 American Community Survey 5-Year Estimates*

Class of Worker
in Haywood County, North Carolina

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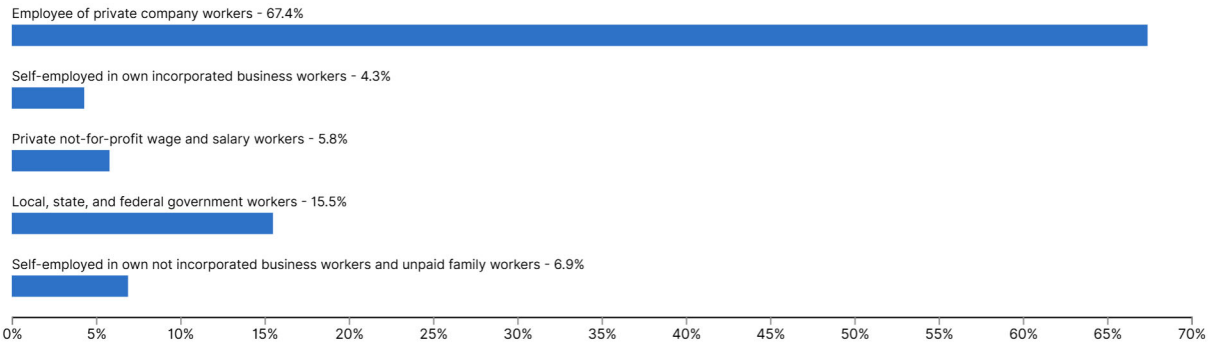

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S2406 | *2024 American Community Survey 5-Year Estimates*

Commuting

23.8 ± 1.2
Average travel time to work (in minutes) in Haywood County, North Carolina

25.7 ± 0.2
Average travel time to work (in minutes) in North Carolina

S0801 | *2024 American Community Survey 5-Year Estimates*

Means of Transportation to Work (Workers 16 Years and Over)
in Haywood County, North Carolina

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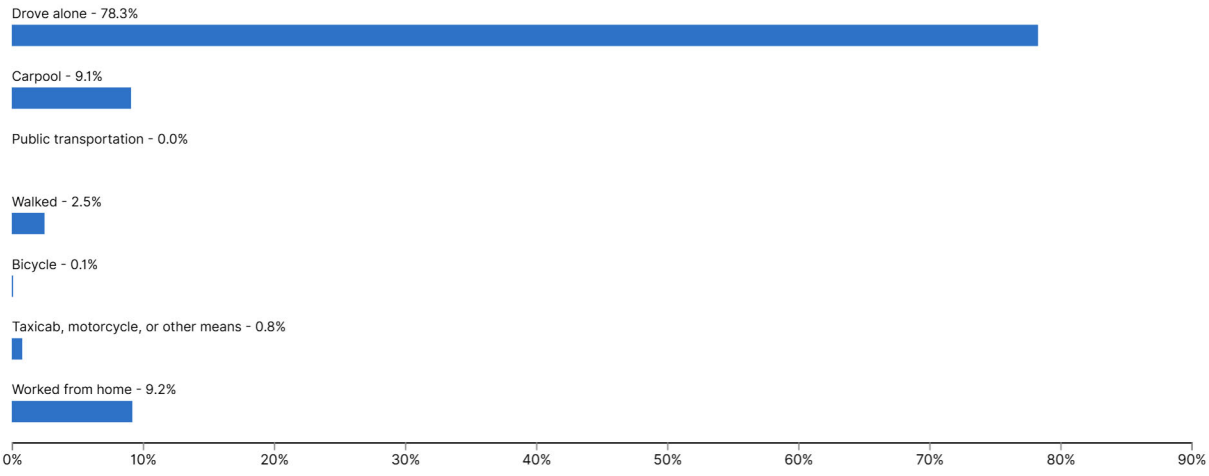

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S0801 | *2024 American Community Survey 5-Year Estimates*

Employment and Labor Force Status

54.1% ± 1.6%
Employment Rate in Haywood County, North Carolina

59.8% ± 0.3%
Employment Rate in North Carolina

DP03 | *2024 American Community Survey 5-Year Estimates*

Industry

Industry for the Civilian Employed Population 16 Years and Over
in Haywood County, North Carolina

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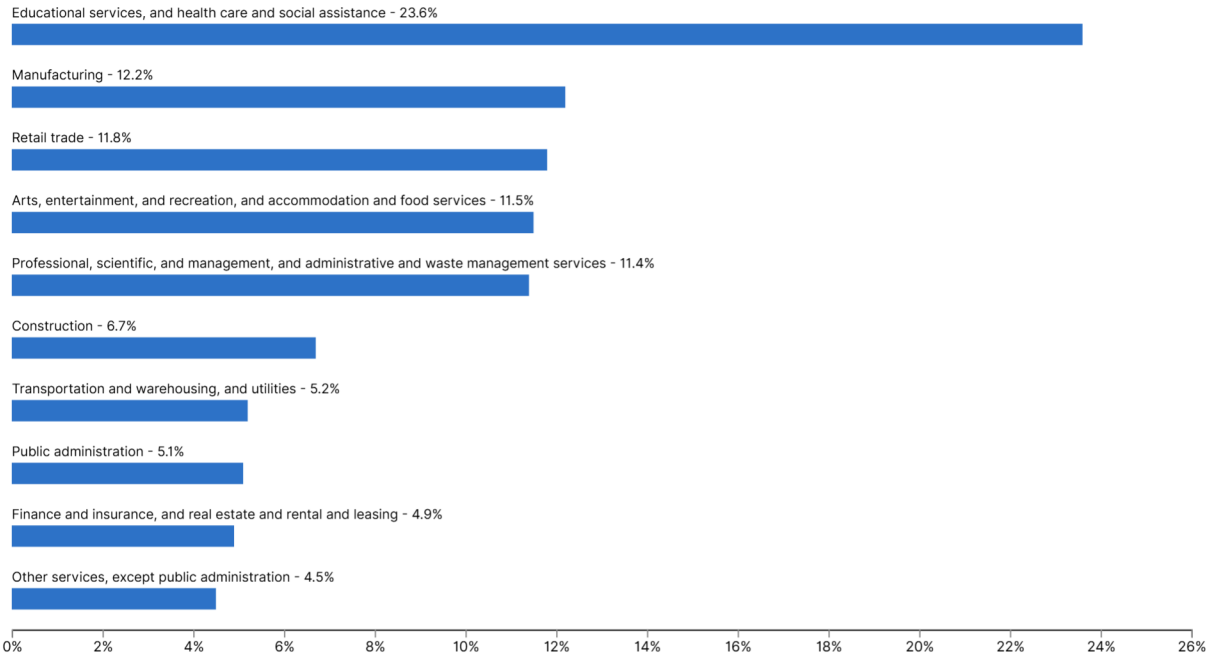

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DP03 | *2024 American Community Survey 5-Year Estimates*

Occupation

Occupation for the Civilian Employed Population 16 Years and Over
in Haywood County, North Carolina

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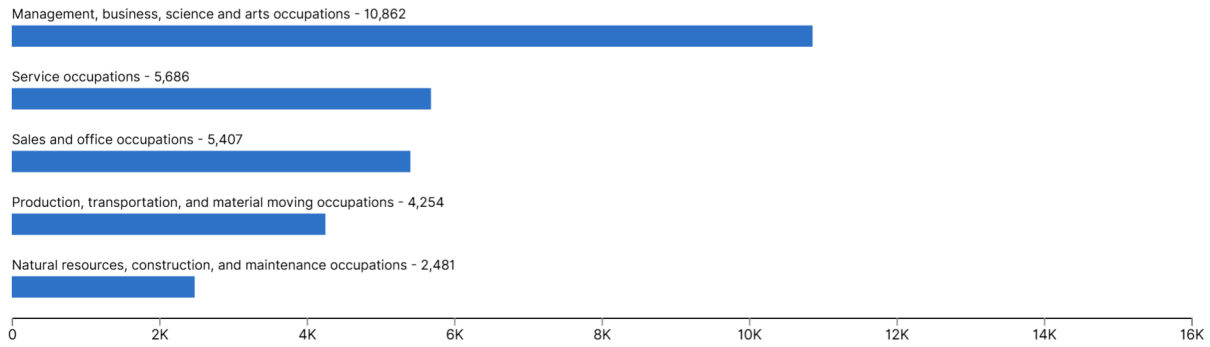

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S2401 | *2024 American Community Survey 5-Year Estimates*

Work Experience

39.3 ± 0.7
Mean Usual Hours Worked for Workers in Haywood County, North Carolina

38.6 ± 0.1
Mean Usual Hours Worked for Workers in North Carolina

S2303 | *2024 American Community Survey 5-Year Estimates*

Mean Usual Hours Worked for Workers by Sex
in Haywood County, North Carolina

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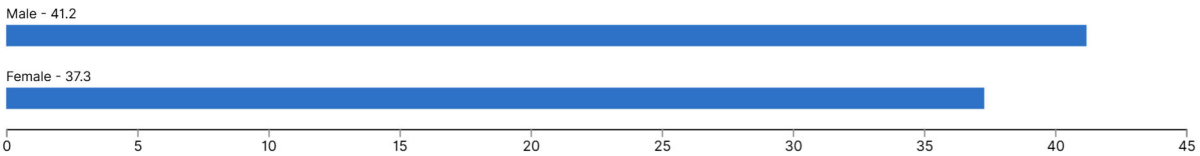

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S2303 | 2024 American Community Survey 5-Year Estimates

Nearby Counties

County

Haywood County, North Carolina

Haywood County, North Carolina has 553.6 square miles of land area and is the 30th largest county in North Carolina by total area. Haywood County, North Carolina is bordered by Jackson County, North Carolina, Swain County, North Carolina, Transylvania County, North Carolina, Henderson County, North Carolina, Cocke County, Tennessee, Buncombe County, North Carolina, Madison County, North Carolina, and Sevier County, Tennessee.

// United States / North Carolina / Haywood County, North Carolina

ON Display Sources

Populations and People
Total Population
62,089
P1 | *2020 Decennial Census*

Income and Poverty
Median Household Income
$61,912
S1901 | *2024 American Community Survey 5-Year Estimates*

Education
Bachelor's Degree or Higher
29.5%
S1501 | *2024 American Community Survey 5-Year Estimates*

Employment
Employment Rate
54.1%
DP03 | *2024 American Community Survey 5-Year Estimates*

Housing
Total Housing Units
35,560
B25002 | *2024 American Community Survey 5-Year Estimates*

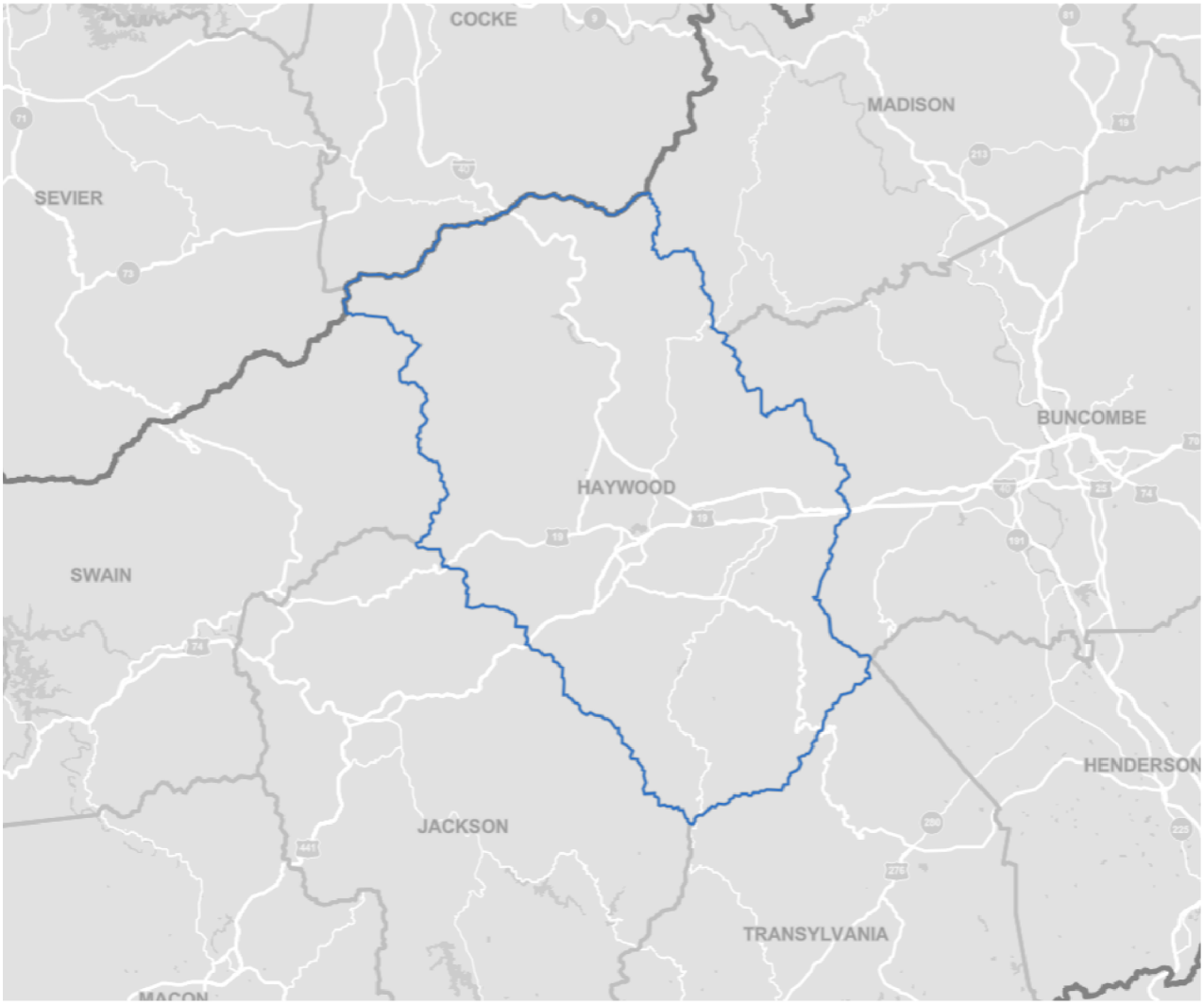
Health
Without Health Care Coverage
11.4%
S2701 | *2024 American Community Survey 5-Year Estimates*

Business and Economy
Total Employer Establishments
1,546
CB2300CBP | *2023 Economic Surveys Business Patterns*

Families and Living Arrangements
Total Households
27,123
DP02 | *2024 American Community Survey 5-Year Estimates*

Race and Ethnicity
Hispanic or Latino (of any race)
2,829
P9 | *2020 Decennial Census*

Haywood County, North Carolina Reference Map



Source: U.S. Census Bureau

Housing

Financial Characteristics

$1,067 ± $50
Median Gross Rent in Haywood County, North Carolina

$1,338 ± $14
Median Gross Rent in North Carolina

DP04 | *2024 American Community Survey 5-Year Estimates*

Occupied Units Paying Rent
in Haywood County, North Carolina

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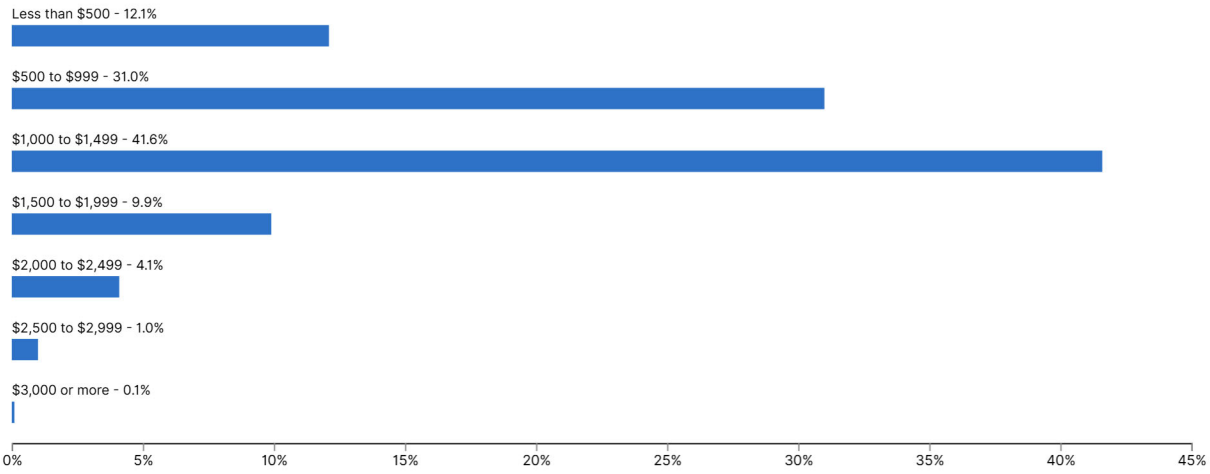

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DP04 | *2024 American Community Survey 5-Year Estimates*

Homeownership Rate

74.9% ± 2.1%
Homeownership Rate in Haywood County, North Carolina

66.8% ± 0.5%
Homeownership Rate in North Carolina

DP04 | *2024 American Community Survey 5-Year Estimates*

Housing Value
in Haywood County, North Carolina

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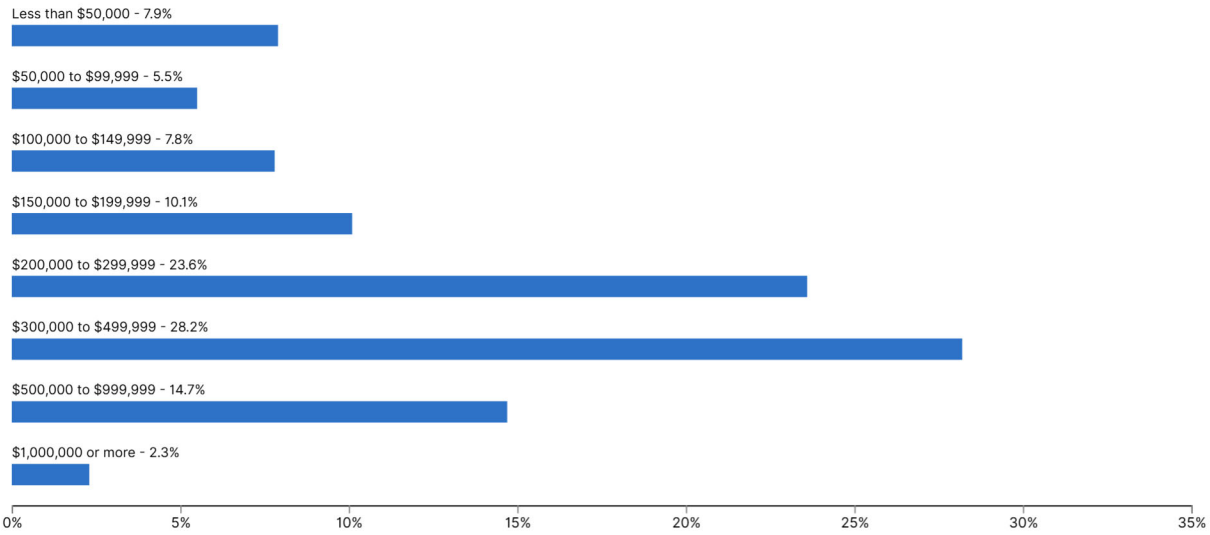

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DP04 | 2024 American Community Survey 5-Year Estimates

Housing Units

35,560 ± 41
Total Housing Units in Haywood County, North Carolina

5,073,509 ± 767
Total Housing Units in North Carolina

B25002 | 2024 American Community Survey 5-Year Estimates

Housing Occupancy
in Haywood County, North Carolina

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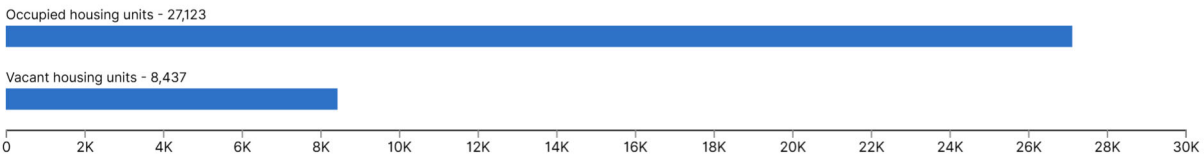

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B25002 | 2024 American Community Survey 5-Year Estimates

Occupancy Characteristics

27,123 ± 647
Occupied Housing Units in Haywood County, North Carolina

4,496,359 ± 13,556
Occupied Housing Units in North Carolina

B25002 | 2024 American Community Survey 5-Year Estimates

Owner Occupied Housing Units by Types of Households
in Haywood County, North Carolina

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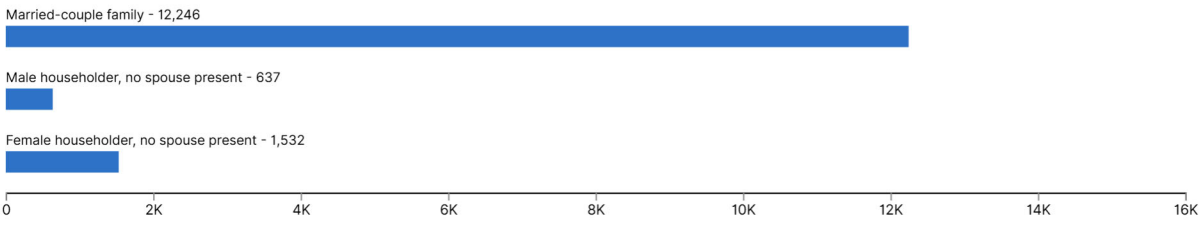

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S2501 | 2024 American Community Survey 5-Year Estimates

Physical Characteristics

13.4% ± 1.8%
Occupied Housing Units with Four or More Bedrooms in Haywood County, North Carolina

22.9% ± 0.4%
Occupied Housing Units with Four or More Bedrooms in North Carolina

S2504 | *2024 American Community Survey 5-Year Estimates*

Bedrooms in Occupied Housing Units
in Haywood County, North Carolina

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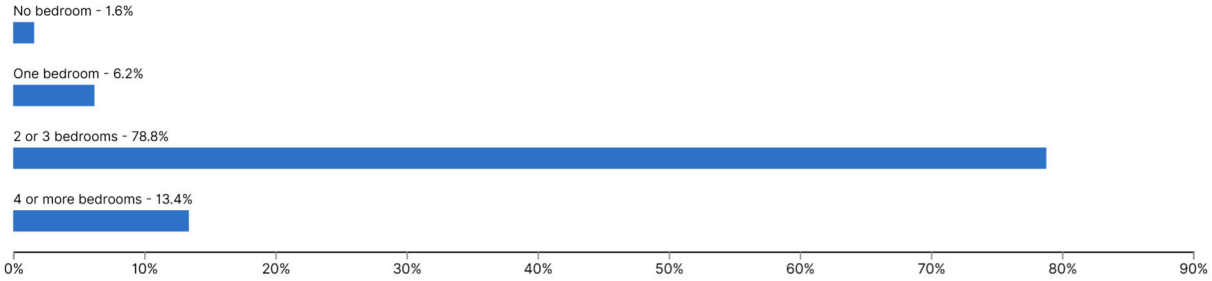

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S2504 | *2024 American Community Survey 5-Year Estimates*

Vacancy

8,437 ± 649
Vacant Housing Units in Haywood County, North Carolina

577,150 ± 13,861
Vacant Housing Units in North Carolina

B25002 | *2024 American Community Survey 5-Year Estimates*

Nearby Counties

Accessibility | Information Quality | FOIA | Data Protection and Privacy Policy | U.S. Department of Commerce | Release Notes

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// United States / North Carolina / Haywood County, North Carolina

ON Display Sources

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DP03 | *2024 American Community Survey 5-Year Estimates*

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B25002 | *2024 American Community Survey 5-Year Estimates*

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Without Health Care Coverage
11.4%
S2701 | *2024 American Community Survey 5-Year Estimates*

Business and Economy
Total Employer Establishments
1,546
CB2300CBP | *2023 Economic Surveys Business Patterns*

Families and Living Arrangements
Total Households
27,123
DP02 | *2024 American Community Survey 5-Year Estimates*

Race and Ethnicity
Hispanic or Latino (of any race)
2,829
P9 | *2020 Decennial Census*

Source: undefined |

Income and Poverty

Income and Earnings

$61,912 ± $2,423
Median Household Income in Haywood County, North Carolina

$73,958 ± $863
Median Household Income in North Carolina

S1901 | *2024 American Community Survey 5-Year Estimates*

Median Income by Types of Families
in Haywood County, North Carolina

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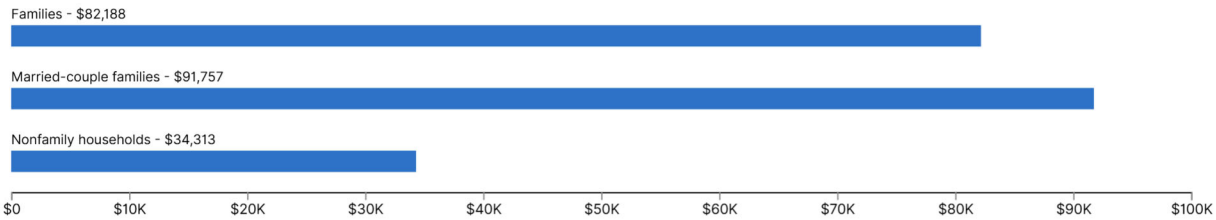

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S1901 | *2024 American Community Survey 5-Year Estimates*

Poverty

13.1% ± 1.9%
Poverty, All people in Haywood County, North Carolina

12.5% ± 0.3%
Poverty, All people in North Carolina

S1701 | *2024 American Community Survey 5-Year Estimates*

Poverty by Age
in Haywood County, North Carolina

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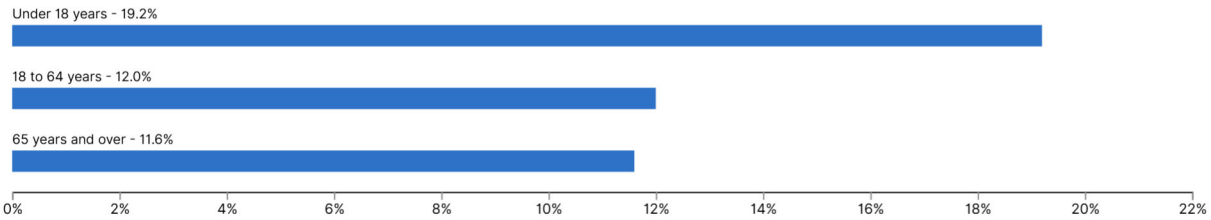

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S1701 | *2024 American Community Survey 5-Year Estimates*

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Populations and People
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P1 | *2020 Decennial Census*

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Bachelor's Degree or Higher
29.5%
S1501 | *2024 American Community Survey 5-Year Estimates*

Housing
Total Housing Units
35,560
B25002 | *2024 American Community Survey 5-Year Estimates*

Business and Economy
Total Employer Establishments
1,546
CB2300CBP | *2023 Economic Surveys Business Patterns*

Race and Ethnicity
Hispanic or Latino (of any race)
2,829
P9 | *2020 Decennial Census*

Income and Poverty
Median Household Income
$61,912
S1901 | *2024 American Community Survey 5-Year Estimates*

Employment
Employment Rate
54.1%
DP03 | *2024 American Community Survey 5-Year Estimates*

Health
Without Health Care Coverage
11.4%
S2701 | *2024 American Community Survey 5-Year Estimates*

Families and Living Arrangements
Total Households
27,123
DP02 | *2024 American Community Survey 5-Year Estimates*

Source: undefined |

Families and Living Arrangements

Children

17.6% ± *****
Under 18 years old in Haywood County, North Carolina

21.3% ± 0.1%
Under 18 years old in North Carolina

S0101 | *2024 American Community Survey 5-Year Estimates*

Children Under 18 by Age Range
in Haywood County, North Carolina

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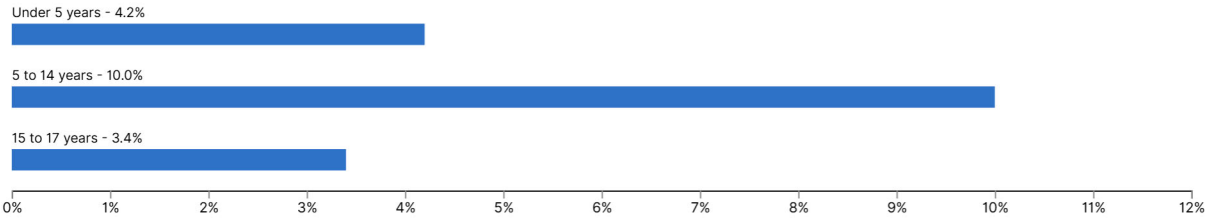

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S0101 | *2024 American Community Survey 5-Year Estimates*

Families and Household Characteristics

2.79 ± 0.10
Average Family Size in Haywood County, North Carolina

2.97 ± 0.01
Average Family Size in North Carolina

DP02 | *2024 American Community Survey 5-Year Estimates*

Total Households by Type of Households
in Haywood County, North Carolina

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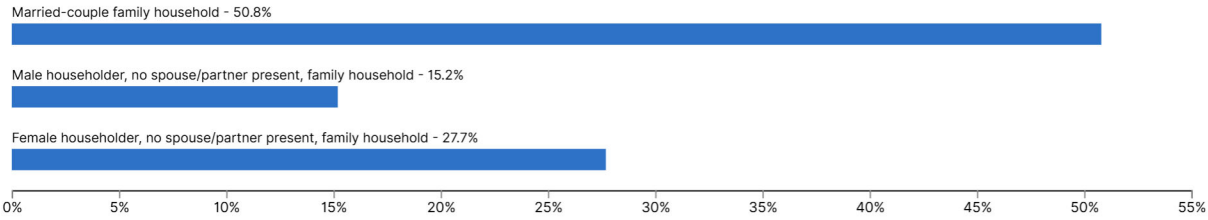

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DP02 | *2024 American Community Survey 5-Year Estimates*

Marital Status and Marital History

24.8% ± 1.6%
Never Married in Haywood County, North Carolina

33.3% ± 0.4%
Never Married in North Carolina

S1201 | *2024 American Community Survey 5-Year Estimates*

Marital Status by Sex
in Haywood County, North Carolina

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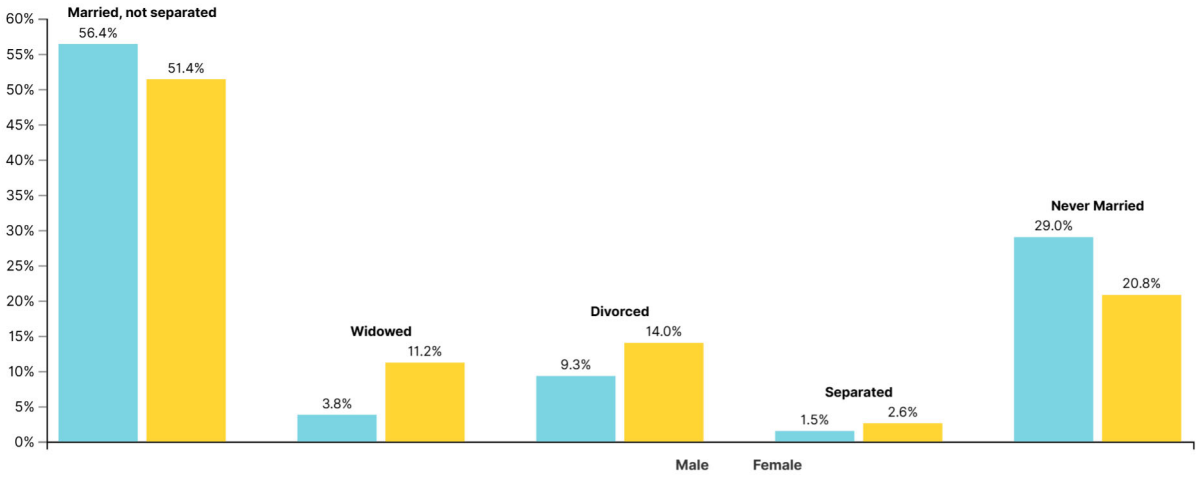

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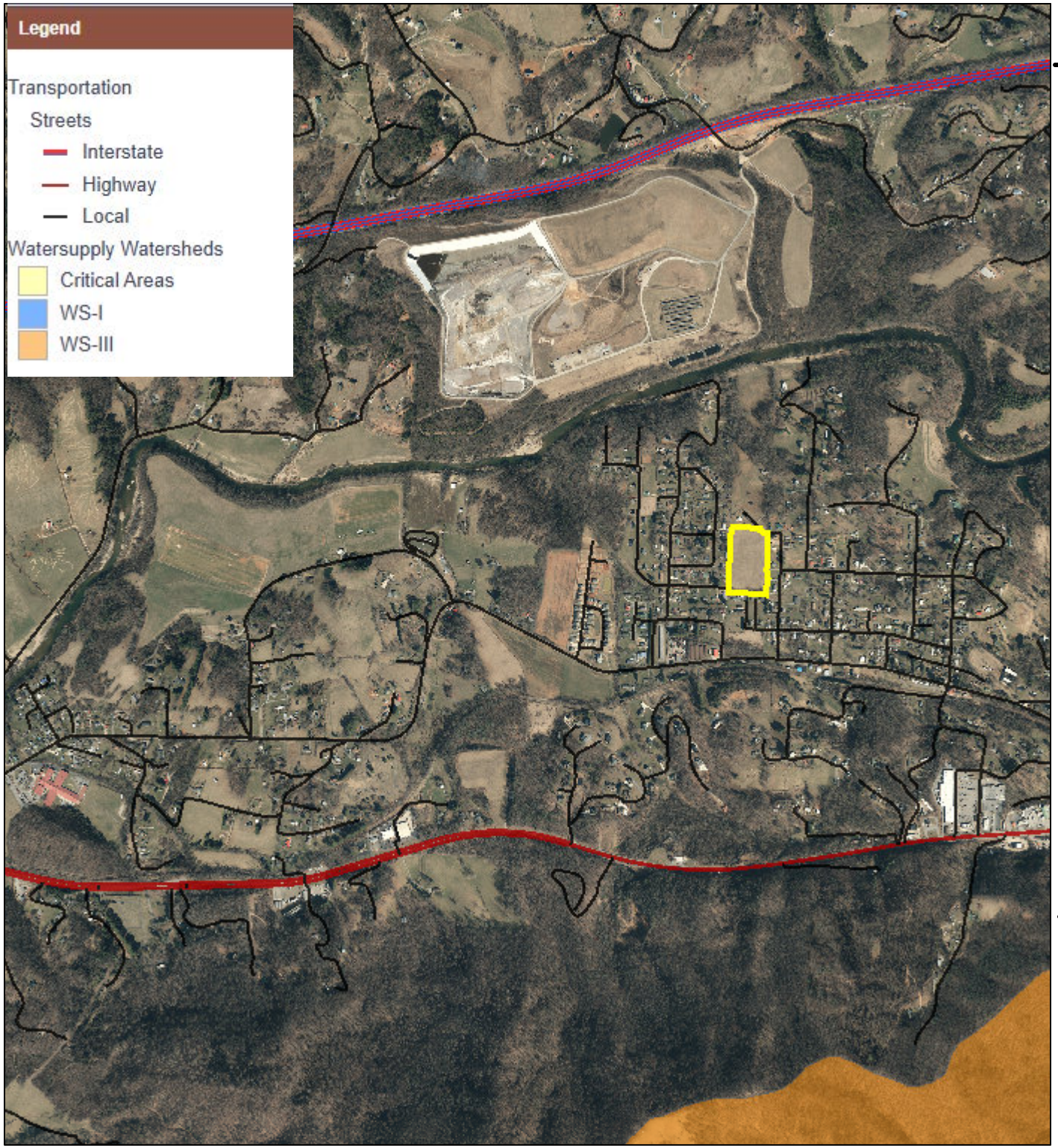
S1201 | 2024 ACS 5-Year Estimates Subject Tables

Nearby Counties

Community Facilities and Services

Unique Service Line ID	Sensitive Population	Disadvantaged Neighborhood	House Number	Street Address	City State Zip	Latitude	Longitude	Building Type Connected to Service Line	Service Line Installation Date (Customer Owned Portion) (from tax parcel)	Service Line Installation Date (Customer Owned Portion) (estimate from satellite)	Structure Present	Number of Structures	Address Type	SubAddress	Parcel Number	Parcel Use Code	Parcel Use Code 2	Parcel Use Description	Parcel Use Description 2	SOURCEREF	SOURCEAGNT	SOURCEDATE	Installed before 1988	Basis of Material Classification
2714427		No	19	CANDLELIGHT Circle	CLYDE, NC 28721	35.53977382	-82.87313908	Residence	1973	<1975	Yes				8647-83-0982	HP		Homesite Primary		1990E/86	Haywood County Assessor	1990/02/28	Yes	Installation date before lead ban
2714210		No	38	CANDLELIGHT Circle	CLYDE, NC 28721	35.53951753	-82.87280726	Residence	1972	1972	Yes				8647-83-1741	HP		Homesite Primary		395/372	Haywood County Assessor	1988/12/02	Yes	Installation date before lead ban
2717120		No	44	CANDLELIGHT Circle	CLYDE, NC 28721	35.53953176	-82.87264402	Residence	1974	1974	Yes				8647-83-2751	HP		Homesite Primary		466/720	Haywood County Assessor	1998/07/02	Yes	Installation date before lead ban
2713532		No	45	CANDLELIGHT Circle	CLYDE, NC 28721	35.5397833	-82.87260369	Residence	1974	1974	Yes				8647-83-2971	HP		Homesite Primary		358/981	Haywood County Assessor	1985/04/03	Yes	Installation date before lead ban
2713880		No	64	CANDLELIGHT Circle	CLYDE, NC 28721	35.53952668	-82.87227868	Residence	1974	1974	Yes				8647-83-3762	HP		Homesite Primary		378/634	Haywood County Assessor	1987/03/24	Yes	Installation date before lead ban
2722027		No	69	CANDLELIGHT Circle	CLYDE, NC 28721	35.53977907	-82.87224197	Residence	1975	<1975	Yes				8647-83-3869	HP		Homesite Primary		666/320	Haywood County Assessor	2006/04/27	Yes	Installation date before lead ban
2744807		No	80	CANDLELIGHT Circle	CLYDE, NC 28721	35.53953345	-82.87195501	Residence	1974	1974	Yes				8647-83-4762	HP		Homesite Primary		1069/2409	Haywood County Assessor	2022/08/18	Yes	Installation date before lead ban
2734231		No	84	CANDLELIGHT Circle	CLYDE, NC 28721	35.5396586	-82.87177179	Residence	1974	1974	Yes				8647-83-5832	HP	SF	Homesite Primary	Single-Family	948/1396	Haywood County Assessor	2018/03/28	Yes	Installation date before lead ban
2712488		No	100	CANDLELIGHT Circle	CLYDE, NC 28721	35.5399368	-82.87179579	Residence	1974	1974	Yes				8647-83-5941	HP		Homesite Primary		282/263	Haywood County Assessor	1976/07/12	Yes	Installation date before lead ban
2746942		No	115	CANDLELIGHT Circle	CLYDE, NC 28721	35.54015403	-82.8721022	Residence	1974	1974	Yes				8647-84-3071	HP		Homesite Primary		1088/1466	Haywood County Assessor	2023/06/16	Yes	Installation date before lead ban
2715279		No	116	CANDLELIGHT Circle	CLYDE, NC 28721	35.54017228	-82.87179987	Residence	1974	1974	Yes				8647-84-5041	HP		Homesite Primary		438/204	Haywood County Assessor	1993/09/30	Yes	Installation date before lead ban
2712342		No	148	CANDLELIGHT Circle	CLYDE, NC 28721	35.54061999	-82.87180338	Residence	1974	1974	Yes				8647-84-5151	HP		Homesite Primary		269/270	Haywood County Assessor	1974/07/08	Yes	Installation date before lead ban
2712374		No	157	CANDLELIGHT Circle	CLYDE, NC 28721	35.54069996	-82.872138	Residence	1974	1974	Yes				8647-84-3274	HP		Homesite Primary		272/626	Haywood County Assessor	1974/12/31	Yes	Installation date before lead ban
2717328		No	158	CANDLELIGHT Circle	CLYDE, NC 28721	35.54077079	-82.8717433	Residence	1975	<1975	Yes				8647-84-5261	HP		Homesite Primary		468/2640	Haywood County Assessor	1998/11/17	Yes	Installation date before lead ban
2718972		No	177	CANDLELIGHT Circle	CLYDE, NC 28721	35.54105611	-82.87207904	Residence	1975	<1975	Yes				8647-84-3346	HP		Homesite Primary		504/844	Haywood County Assessor	2001/10/11	Yes	Installation date before lead ban
2712787		No	186	CANDLELIGHT Circle	CLYDE, NC 28721	35.54114965	-82.87173121	Residence	1975	<1975	Yes				8647-84-5371	HP		Homesite Primary		307/496	Haywood County Assessor	1979/06/13	Yes	Installation date before lead ban
2721900		No	204	CANDLELIGHT Circle	CLYDE, NC 28721	35.54143402	-82.87169771	Residence	1975	<1975	Yes				8647-84-5472	HP		Homesite Primary		661/36	Haywood County Assessor	2006/03/06	Yes	Installation date before lead ban
2717734		No	207	CANDLELIGHT Circle	CLYDE, NC 28721	35.54149451	-82.87205203	Residence	1977	<1975	Yes				8647-84-3446	HP		Homesite Primary		474/1479	Haywood County Assessor	1999/09/13	Yes	Installation date before lead ban
2723329		No	213	CANDLELIGHT Circle	CLYDE, NC 28721	35.54162363	-82.87205584	Residence	1975	<1975	Yes				8647-84-2489	HP		Homesite Primary		720/1555	Haywood County Assessor	2007/10/31	Yes	Installation date before lead ban
2713352		No	222	CANDLELIGHT Circle	CLYDE, NC 28721	35.54171475	-82.87174191	Residence	1975	<1975	Yes				8647-84-5583	HP		Homesite Primary		349/81	Haywood County Assessor	1984/03/02	Yes	Installation date before lead ban
2740385		No	233	CANDLELIGHT Circle	CLYDE, NC 28721	35.5419151	-82.87218713	Residence	2002	1996-2000	Yes				8647-84-3617	HP		Homesite Primary		1022/1547	Haywood County Assessor	2021/02/25	No	Installation date after lead ban
2727131		No	234	CANDLELIGHT Circle	CLYDE, NC 28721	35.54184995	-82.87178873	Residence	1975	<1975	Yes				8647-84-5673	HP		Homesite Primary		837/40	Haywood County Assessor	2012/12/12	Yes	Installation date before lead ban
2727130		No	236	CANDLELIGHT Circle	CLYDE, NC 28721	35.54187851	-82.87180028	Residence	1975	<1975	Yes				8647-84-5673	HP		Homesite Primary		837/40	Haywood County Assessor	2012/12/12	Yes	Installation date before lead ban
2727137		No	238	CANDLELIGHT Circle	CLYDE, NC 28721	35.54192311	-82.87182349	Residence	1975	<1975	Yes				8647-84-5673	HP		Homesite Primary		837/40	Haywood County Assessor	2012/12/12	Yes	Installation date before lead ban
2727129		No	240	CANDLELIGHT Circle	CLYDE, NC 28721	35.5420623	-82.87192483	Residence	1976	<1975	Yes				8647-84-4698	HP		Homesite Primary		836/2488	Haywood County Assessor	2012/12/12	Yes	Installation date before lead ban
2727138		No	242	CANDLELIGHT Circle	CLYDE, NC 28721	35.54210179	-82.87197173	Residence	1976	<1975	Yes				8647-84-4698	HP		Homesite Primary		836/2488	Haywood County Assessor	2012/12/12	Yes	Installation date before lead ban
2739326		No	254	CANDLELIGHT Circle	CLYDE, NC 28721	35.54222374	-82.87211753	Residence	1980	<1975	Yes				8647-84-4723	HP		Homesite Primary		1007/2219	Haywood County Assessor	2020/09/18	Yes	Installation date before lead ban
2739328		No	262	CANDLELIGHT Circle	CLYDE, NC 28721	35.54230487	-82.87219766	Residence	1980	<1975	Yes				8647-84-4723	HP		Homesite Primary		1007/2219	Haywood County Assessor	2020/09/18	Yes	Installation date before lead ban
2725791		No	290	CANDLELIGHT Circle	CLYDE, NC 28721	35.54245031	-82.87238715	Residence	1976	<1975	Yes				8647-84-3852	HP		Homesite Primary		799/1157	Haywood County Assessor	2011/03/03	Yes	Installation date before lead ban
2723839		No	310	CANDLELIGHT Circle	CLYDE, NC 28721	35.54260807	-82.87302022	Residence	1976	<1975	Yes				8647-84-1911	HP	AP,AP	Homesite Primary	Apartment,Apartment	738/2030	Haywood County Assessor	2008/06/16	Yes	Installation date before lead ban
2723862		No	312	CANDLELIGHT Circle	CLYDE, NC 28721	35.54261596	-82.87308338	Residence	1976	<1975	Yes				8647-84-1911	HP	AP,AP	Homesite Primary	Apartment,Apartment	738/2030	Haywood County Assessor	2008/06/16	Yes	Installation date before lead ban
2723852		No	314	CANDLELIGHT Circle	CLYDE, NC 28721	35.54261461	-82.87313096	Residence	1976	<1975	Yes				8647-84-1911	HP	AP,AP	Homesite Primary	Apartment,Apartment	738/2030	Haywood County Assessor	2008/06/16	Yes	Installation date before lead ban
2749920		No	226	HARKINS AVE		35.54016184	-82.86913311	Residence		2016-2020	Yes				8647-93-2827	HP,HR		Homesite Primary,Homesite Residual		775/752	Haywood County Assessor	2009/12/22	No	Installation date after lead ban
2730837		No	33	HARKINS Avenue	CANTON, NC 28716	35.53759874	-82.86970406	Building	1970	1970	Yes				8647-93-0040	HP,HP	,	Homesite Primary,Homesite Primary	,	902/43	Haywood County Assessor	2016/03/03	Yes	Installation date before lead ban
2730836		No	39	HARKINS Avenue	CANTON, NC 28716	35.53768257	-82.86968986	Building	1970	1970	Yes				8647-93-0040	HP,HP	,	Homesite Primary,Homesite Primary	,	902/43	Haywood County Assessor	2016/03/03	Yes	Installation date before lead ban
2714298		No	93	HARKINS Avenue	CANTON, NC 28716	35.53844834	-82.86971293	Residence	1976	<1975	Yes				8647-83-9395	HP		Homesite Primary		399/600	Haywood County Assessor	1989/05/08	Yes	Installation date before lead ban
2743773		No	98	HARKINS Avenue	CANTON, NC 28716	35.53848331	-82.86942354	Residence	1963	<1975	Yes				8647-93-1296	HP	,SF	Homesite Primary	,Single-Family	1061/1483	Haywood County Assessor	2022/04/26	Yes	Installation date before lead ban
2728308		No	108	HARKINS Avenue	CANTON, NC 28716	35.538657	-82.86943325	Residence	2015	2011-2015	Yes				8647-93-2472	HP		Homesite Primary		861/891	Haywood County Assessor	2014/01/31	No	Installation date after lead ban
2711554		No	131	HARKINS Avenue	CANTON, NC 28716	35.5389623	-82.86972958	Residence	1952	<1975	Yes				8647-93-0577	HP		Homesite Primary		187/363	Haywood County Assessor	1960/12/16	Yes	Installation date before lead ban
2743190		No	148	HARKINS Avenue	CANTON, NC 28716	35.53924453	-82.86945823	Residence	1955	<1975	Yes				8647-93-2620	HP		Homesite Primary		1054/2371	Haywood County Assessor	2022/02/08	Yes	Installation date before lead ban
2716810		No	155	HARKINS Avenue	CANTON, NC 28716	35.53928185	-82.86969291	Building		<1975	Yes				8647-93-0653	HR		Homesite Residual		461/1660	Haywood County Assessor	1997/10/06	Yes	Installation date before lead ban
2718464		No	179	HARKINS Avenue	CANTON, NC 28716	35.53971794	-82.86970622	Residence	1936	1936	Yes				8647-93-0862	HP	,	Homesite Primary	,	483/2164	Haywood County Assessor	2000/12/19	Yes	Installation date before lead ban
2718467		No	183	HARKINS Avenue	CANTON, NC 28716	35.53975285	-82.86969871	Residence	1936	1936	Yes				8647-93-0862	HP	,	Homesite Primary	,	483/2164	Haywood County Assessor	2000/12/19	Yes	Installation date before lead ban
2743003		No	219	HARKINS Avenue	CANTON, NC 28716	35.54017739	-82.86974763	Residence	1952	<1975	Yes				8647-93-0979	HP		Homesite Primary		1052/1705	Haywood County Assessor	2022/01/10	Yes	Installation date before lead ban
2742982		No	235	HARKINS Avenue	CANTON, NC 28716	35.54046766	-82.86971646	Residence	1952	<1975	Yes				8647-93-0979	HP		Homesite Primary		1052/1705	Haywood County Assessor	2022/01/10	Yes	Installation date before lead ban
2728818		No	250	HARKINS Avenue	CANTON, NC 28716	35.54059414	-82.86945614	Residence	1940	<1975	Yes				8647-94-2120	HP		Homesite Primary		870/1042	Haywood County Assessor	2014/08/01	Yes	Installation date before lead ban
2711699		No	260	HARKINS Avenue	CANTON, NC 28716	35.54079513	-82.86972849	Residence	1950	<1975	Yes				8647-94-0345	HP,HR		Homesite Primary,Homesite Residual		209/542	Haywood County Assessor	1965/11/27	Yes	Installation date before lead ban
2711700		No	272	HARKINS Avenue	CANTON, NC 28716	35.54074955	-82.86990508	Residence	1950	<1975	Yes				8647-94-0345	HP,HR		Homesite Primary,Homesite Residual		209/542	Haywood County Assessor	1965/11/27	Yes	Installation date before lead ban
2717869		No	339	HARKINS Avenue	CANTON, NC 28716	35.5411656	-82.87083934	Residence	1970	1970	Yes				8647-84-6257	HP		Homesite Primary		476/1356	Haywood County Assessor	1999/12/09	Yes	Installation date before lead ban
2736109		No	25	HAYDEN GRACE Lane	CANTON, NC 28716	35.53821152	-82.87046735	Residence	2018	2011-2015	Yes				8647-83-8392	HP	,,,	Homesite Primary	,,,	969/204	Haywood County Assessor	2019/03/07	No	Installation date after lead ban
2736112		No	26	HAYDEN GRACE Lane	CANTON, NC 28716	35.53818822	-82.87029979	Residence	2018	2011-2015	Yes				8647-83-8392	HP	,,,	Homesite Primary	,,,	969/204	Haywood County Assessor	2019/03/07	No	Installation date after lead ban
2736108		No	45	HAYDEN GRACE Lane	CANTON, NC 28716	35.53851811	-82.87050826	Residence	2018	2011-2015	Yes				8647-83-8392	HP	,,,	Homesite Primary	,,,	969/204	Haywood County Assessor	2019/03/07	No	Installation date after lead ban
2736110		No	46	HAYDEN GRACE Lane	CANTON, NC 28716	35.53854528	-82.87032997	Residence	2018	2011-2015	Yes				8647-83-8392	HP	,,,	Homesite Primary	,,,	969/204	Haywood County Assessor	2019/03/07	No	Installation date after lead ban
2736111		No	56	HAYDEN GRACE Lane	CANTON, NC 28716	35.53868864	-82.87032513	Residence	2018	2011-2015	Yes				8647-83-8392	HP	,,,	Homesite Primary	,,,	969/204	Haywood County Assessor	2019/03/07	No	Installation date after lead ban
2736114		No	63	HAYDEN GRACE Lane	CANTON, NC 28716	35.53877759	-82.87045494	Residence	2018	2011-2015	Yes				8647-83-8392	HP	,,,	Homesite Primary	,,,	969/204	Haywood County Assessor	2019/03/07	No	Installation date after lead ban
2731810		No	38	KEITH Street	CLYDE, NC 28721	35.53895713	-82.87276956	Residence	1973	<1975	Yes				8647-83-1552	HP		Homesite Primary		916/1992	Haywood County Assessor	2016/11/02	Yes	Installation date before lead ban
2738774		No	56	KEITH Street	CLYDE, NC 28721	35.53895426	-82.87242337	Residence	1975	<1975	Yes				8647-83-2552	HP		Homesite Primary		1000/1442	Haywood County Assessor	2020/06/25	Yes	Installation date before lead ban
2716373		No	76	KEITH Street	CLYDE, NC 28721	35.53895974	-82.87210702	Residence	1975	<1975	Yes				8647-83-3540	HP		Homesite Primary		455/1456	Haywood County Assessor	1996/10/21	Yes	Installation date before lead ban
2747465		No	94	KEITH Street	CLYDE, NC 28721	35.53894629	-82.87178613	Residence	1975	<1975	Yes				8647-83-4449	HP		Homesite Primary		2023E/510	Haywood County Assessor	2023/08/07	Yes	Installation date before lead ban
2737323		No	100	KEITH Street	CLYDE, NC 28721	35.53895213	-82.87160169	Residence	1975	<1975	Yes				8647-83-5449	HP		Homesite Primary		983/558	Haywood County Assessor	2019/10/11	Yes	Installation date before lead ban
2742776		No	111	KEITH Street	CLYDE, NC 28721	35.5391878	-82.87143372	Residence	1975	<1975	Yes				8647-83-5659	HP		Homesite Primary		1050/746	Haywood County Assessor	2021/12/10	Yes	Installation date before lead ban
2723851		No	27	TODD Road	CLYDE, NC 28721	35.53822863	-82.87298573	Residence	1976	<1975	Yes				8647-83-1343	HP		Homesite Primary		738/2030	Haywood County Assessor	2008/06/16	Yes	Installation date before lead ban
2716712		No	28	TODD Road	CLYDE, NC 28721	35.53797945	-82.87302335	Residence	1987	<1975	Yes				8647-83-0164	HP		Homesite Primary		460/1158	Haywood County Assessor	1997/07/25	Yes	Installation date before lead ban
2723853		No	39	TODD Road	CLYDE, NC 28721	35.53822827	-82.87282474	Residence	1976	<1975	Yes				8647-83-1343	HP		Homesite Primary		738/2030	Haywood County Assessor	2008/06/16	Yes	Installation date before lead ban
2712907		No	44	TODD Road	CLYDE, NC 28721	35.53799905	-82.87265679	Residence	1977	<1975	Yes				8647-83-2137	HP		Homesite Primary		317/936	Haywood County Assessor	1980/09/12	Yes	Installation date before lead ban
2720771		No	57	TODD Road	CLYDE, NC 28721	35.53822247	-82.87248955	Residence	1977	<1975	Yes				8647-83-2345	HP		Homesite Primary		613/1635	Haywood County Assessor	2004/11/12	Yes	Installation date before lead ban
2742800		No	68	TODD Road	CLYDE, NC 28721	35.53797029	-82.87229753	Residence	1977	<1975	Yes				8647-83-3162	HP		Homesite Primary		1050/1165	Haywood County Assessor	2021/12/13	Yes	Installation date before lead ban
2735756		No	77	TODD Road	CLYDE, NC 28721	35.53821318	-82.87212391	Residence	1978	<1975	Yes				8647-83-3345	HP		Homesite Primary		964/2359	Haywood County Assessor	2018/12/17	Yes	Installation date before lead ban
2727682		No	85	TODD Road	CLYDE, NC 28721	35.53820813	-82.87196913	Residence	1978	<1975	Yes				8647-83-4344	HP		Homesite Primary		850/503	Haywood County Assessor	2013/07/08	Yes	Installation date before lead ban
2727552		No	109	TODD Road	CANTON, NC 28716	35.53823548	-82.87153575	Residence	1978	<1975	Yes				8647-83-5333	HP		Homesite Primary		847/1399	Haywood County Assessor	2013/05/24	Yes	Installation date before lead ban
2712901		No	124	TODD Road	CLYDE, NC 28721	35.53780242	-82.87162607	Residence	1977	<1975	Yes				8647-83-4165	HP		Homesite Primary		317/467	Haywood County Assessor	1980/08/22	Yes	Installation date before lead ban



Report For

MOUNTAIN PROJECTS INC
2177 ASHEVILLE RD
WAYNESVILLE, NC 28786-3139

Account Information

PIN: 8647-83-7739
Deed: 1043/1001

Site Information

HARKINS AVE

Heated Area:
Year Built:
Total Acreage: 5.97
Township: BeaverDam

Site Value Information

Land Value:
Building Value:
Market Value:
Defered Value:
Assessed Value:
Sale Price:
Sale Date: 09/27/2021
Tax Bill 1:
Tax Bill 2:

1 inch = 1,500 feet
July 13, 2026

Disclaimer: The maps on this site are not surveys. They are prepared from the inventory of real property found within this jurisdiction and are compiled from recorded deeds, plats and other public records and data. Users of this site are hereby notified that the aforementioned public primary information sources should be consulted for verification of any information contained on these maps. Haywood county and the website provider assume no legal responsibility for the information contained on these maps.

Natural Features

NC DEPARTMENT of COMMERCE
COMMUNITY REVITALIZATION

Josh Stein
GOVERNOR

Lee Lilley
SECRETARY

Stephanie McGarrah
DEPUTY SECRETARY

Electronic Delivery Via: kyle.briggs@ncwildlife.gov

May 1, 2026

Mr. Kyle Briggs
Executive Director
Wildlife Interaction, Regulated Activities, and Permits
North Carolina Wildlife Resources Commission
1707 Mail Service Center
Raleigh, NC 27699

RE: Section 7 of the Endangered Species Act and State Endangered Species Program
Harkins Avenue Subdivision Development, Haywood County
North Carolina Department of Commerce, Division of Community Revitalization and the North Carolina Office of Recovery and Resiliency

Dear Mr. Briggs,

The North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) is proposing to use Community Development Block Grant - Disaster Recovery funds for construction of the Harkins Avenue Subdivision Development. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is located in West Canton, Haywood County, North Carolina (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: -82.870754, 35.540037).

In accordance with 24 CFR § 58.4, DCR has assumed the role of Responsible Entity, and responsibility for environmental review, decision-making, and any other action that would otherwise apply to HUD under National Environmental Policy Act (NEPA) and other provisions of law that further the purposes of NEPA, as specified in § 58.5. Based on the size, extent and potential for impacts to environmental resources, DCR is evaluating the project at an Environmental Assessment level of review per 24 CFR § 58.36.

The proposed project is subject to the rules and policies of Section 7 of the Endangered Species Act and the state Endangered Species Program. Project activities are not anticipated to adversely impact threatened & endangered federal and state-listed species. Additionally, the proposed activities are anticipated to be consistent with the North Carolina Natural Heritage Program's mission to conserve, protect and enhance fish, wildlife, plants and their habitats, and no further consultation or permitting would be necessary.

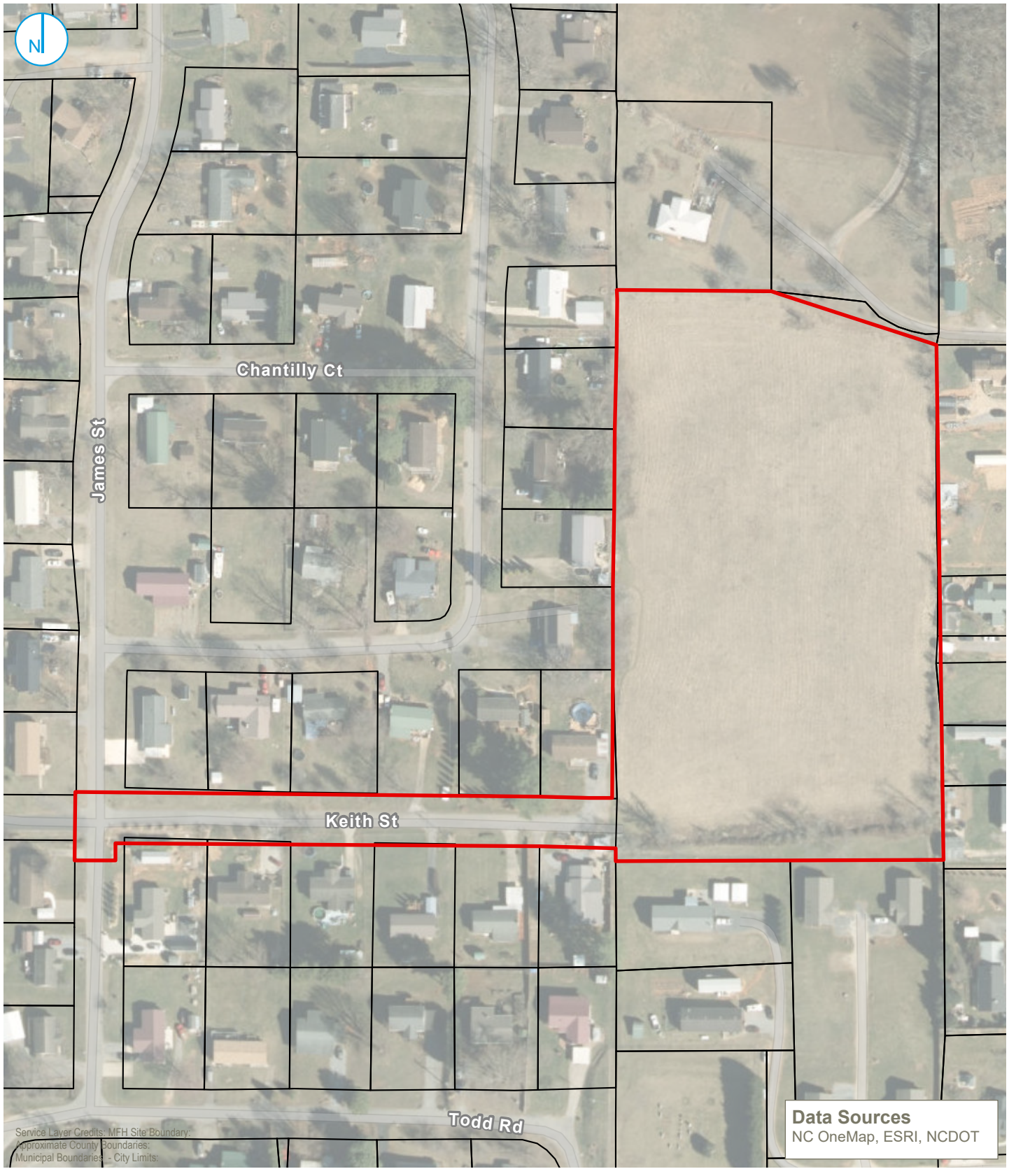
With this solicitation, the DCR is requesting comments and feedback on the proposed activities as well as any concerns you may have regarding the proposed project with respect to protected species and Natural Heritage resources.

To facilitate compliance with these policies and expedite the review process, we respectfully request this information and/or any concerns, comments or objections related to the proposed project be provided within 30 days from receipt of this letter. We sincerely appreciate your comments and timely response to this solicitation. Should you have any questions, please do not hesitate to email me at daniel.herrera@commerce.nc.gov.

Respectfully Yours,

Daniel Herrera
Environmental Program Manager
North Carolina Department of Commerce
Division of Community Revitalization

Enclosures:
Project Site Location Map, Site Plan, Keith St Stormwater Improvement, Critical Habitat Map, USFWS IPaC



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 01 - Site Location

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Map Scale: 1:2,400 | Map Center: 82°52'19"W 35°32'23"N

KEY MAP (not to scale)

- Approximate Site Boundary
- Approximate County Boundaries
- Municipal Boundaries - City Limits
- Parcel Boundaries

0 100 200 Feet

SITE LOCATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

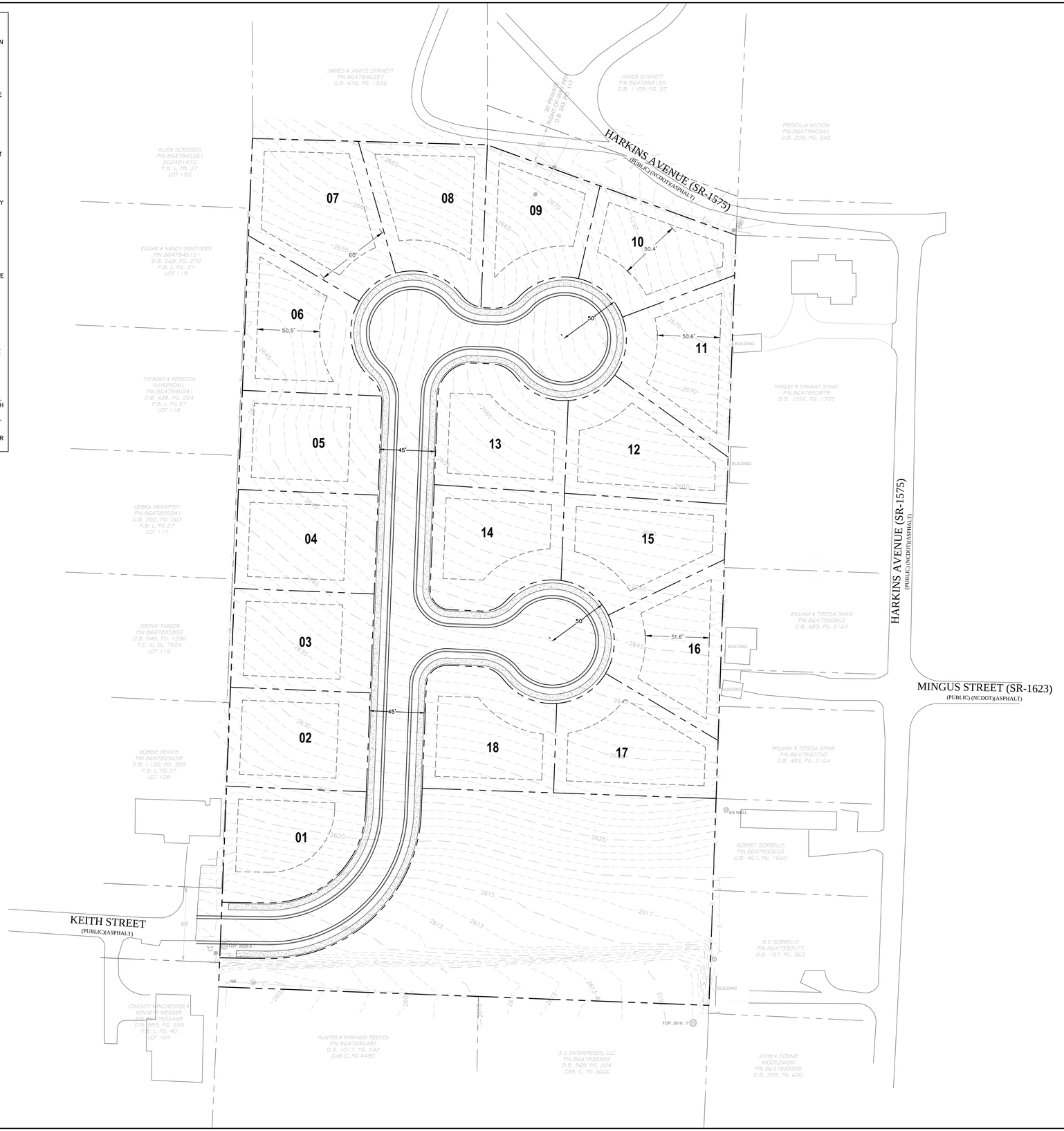
FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

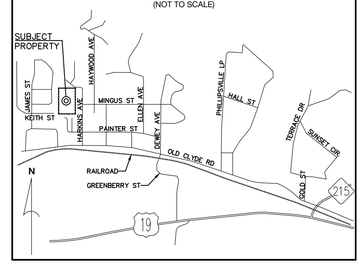
SITE NOTES

1. ALL SITEWORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS AND ALL REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
2. SINGLE-PHASE CONSTRUCTION.
3. ALL WORK MUST BE PERFORMED BY A **NORTH CAROLINA** LICENSED CONTRACTOR.
4. TO SCHEDULE THE REQUIRED INSPECTIONS ON ALL WORK, CALL THE CIVIL DESIGN CONCEPTS INSPECTIONS HOTLINE AT 828-771-4755, OR EMAIL AT INSPECTIONS@CDCGO.COM. FAILURE TO SCHEDULE INSPECTIONS MAY RESULT IN UNCOVERING OR REDOING WORK
5. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION. CONTACT ENGINEER TO CONFIRM IF ADDITIONAL PERMITS ARE NEEDED.
6. CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES (SHOWN TO REMAIN) AND NEWLY COMPLETED WORK DURING CONSTRUCTION. ANY DAMAGE INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY ULOCO AT 1-800-632-4949 OR 811, 72 HOURS BEFORE CONSTRUCTION BEGINS.
8. SIDEWALKS SHALL BE CONSTRUCTED IN ORDER TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. SIDEWALKS TO MEET ALL ADA/PROWAG STANDARDS. CONTRACTOR TO NOTIFY ENGINEER AFTER FORMING BUT PRIOR TO POURING SIDEWALK. ANY SIDEWALK/CROSSWALK NOT INSTALLED TO REQUIRED STANDARDS SHALL BE REMOVED AND REPLACED AT CONTRACTORS EXPENSE.
9. ALL RADII LISTED ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED. ALL PARKING LOT RADII ARE **4'** UNLESS OTHERWISE NOTED.
10. ALL ROAD/PARKING LOT IMPROVEMENTS, STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION AND THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). CONTRACTOR MAY USE A PAINT SUITABLE FOR ASPHALT APPLICATION IN LIEU OF THERMOPLASTIC WITH PRIOR APPROVAL FROM THE ENGINEER.
11. CURB AND GUTTER ON THE HIGH SIDE OF PAVED AREAS AND ROADS SHALL BE CONSTRUCTED WITH SPILLOUT CURB AND GUTTER. CURB AND GUTTER ON THE LOW SIDE SHALL BE CONSTRUCTED WITH STANDARD CURB AND GUTTER; REFER TO SPILLOUT CURB AND GUTTER DETAILS. CURB END TREATMENT SHALL BE APPLIED AT ALL CURB ENDS; REFER TO CURB END TREATMENT DETAIL.
12. PROPOSED ROADS TO BE **PRIVATE. NCDOT IS NOT** RESPONSIBLE FOR ANY ROAD MAINTENANCE.



VICINITY MAP

(NOT TO SCALE)



DEVELOPMENT DATA

OWNER/DEVELOPER:	MOUNTAIN PROJECTS, INC. 2177 ASHEVILLE RD WAYNESVILLE, NV 28786-3139
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 84 COXE AVE - STE 260 ASHEVILLE, NC 28801
CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

PROJECT DATA

PIN:	8647-83-7739
ADDRESS:	HARKINS AVE.
DEED BOOK/PAGE:	1043/1001
PROJECT ACREAGE:	5.97± ACRES
CURRENT ZONING:	N/A
PROPOSED ZONING:	R-1, SINGLE FAMILY

MINIMUM SETBACK FROM PROPERTY LINE:

FRONT:	25'
SIDES:	10'
REAR:	10'

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811 Know what's **below.** **Call** before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

84 COXE AVENUE - SUITE 260
ASHEVILLE, NC 28801
PHONE (828) 252-5388
FAX (828) 252-5365

52 WALNUT STREET - SUITE 9
WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036181 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXXX
XXX PERMIT NO. XXXX

SHEET

C201

HARKINS AVENUE (SR-1575)
(PUBLIC/ASPHALT)

JAMES STREET
(PUBLIC/ASPHALT)

KEITH STREET
(PUBLIC/ASPHALT)

PROPOSED STORMWATER PIPE (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

APPROXIMATE LOCATION OF
EXISTING STORM PIPE (TYP)

APPROXIMATE LOCATION OF
EXISTING STORM CULVERT (TYP)

PROPOSED STORMWATER STRUCTURE
TO TIE INTO EXISTING STORM CULVERT

PROPOSED STORMWATER SYSTEM (TYP)

PROPOSED STORMWATER CONTROL MEASURE

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

CDC Civil Design Concepts, PA
NCBELS # C-2184

HARKINS AVE SUBDIVISION
CONCEPTUAL KIETH ST STORMWATER IMPROVEMENT
PROGRESS DRAWINGS DO NOT USE FOR CONSTRUCTION

NORTH

C:\Users\taylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 18 - NC HPO Historic Properties and Districts

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Approximate Site Boundary

Final Critical Habitat Features

- Endangered
- Threatened

Proposed Critical Habitat Feature

- Endangered
- Threatened
- Proposed Endangered
- Proposed Threatened

CRITICAL HABITAT FOR THREATENED AND ENDANGERED SPECIES

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 13

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Asheville Ecological Services Field Office
160 Zillicoa Street, Suite B
Asheville, NC 28801-1082
Phone: (828) 258-3939 Fax: (828) 258-5330

In Reply Refer To: 04/23/2026 18:19:32 UTC
Project Code: 2026-0068562
Project Name: Harkins Avenue Subdivision Development

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, and proposed species, as well as proposed and designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The enclosed species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please note that new species information can change your official species list. Under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends you visit the ECOS-IPaC website regularly during project planning and implementation to ensure your species list is accurate or obtain an updated species list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A biological assessment (BA) or biological evaluation (BE) should be completed for your project. A BA is required for major construction activities (or other undertakings having similar physical impacts) considered to be Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c))(NEPA). For projects other than major construction activities, the Service suggests that a BE be prepared to determine effects of the action and whether those effects may affect listed species and/or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it is reasonably certain to occur and would not occur “but for” the proposed action.

Recommended contents of a BA/BE are described at 50 CFR 402.12. More information and resources about project review and preparing a BA/BE can be found at the following web link: https://www.fws.gov/office/asheville-ecological-services/asheville-field-office-online-review-process-overview.

If a Federal agency determines listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. The Service is not required to concur with "no effect" determinations from Federal action agencies. If consultation is required, the Service recommends that candidate species, proposed species, proposed critical habitat, and at-risk species be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or licensed applicants, can be found in the "Endangered Species Consultation Handbook" at the following web link: https://www.fws.gov/media/endangered-species-consultation-handbook.

Conservation measures (CMs) are actions included in the project description that the action agency or the applicant commits to implementing to avoid or minimize impacts to federally threatened or endangered species from their actions. CMs are a part of the proposed action and their implementation is required under the terms of a section 7 consultation. Ultimately, the lead federal action agency (project funder, permitter, or implementer) commits to CMs, however, implementation may be passed to the applicant via permit conditions. CMs demonstrate the action agency’s commitment to imperiled species conservation and have the potential to expedite project review under the Act by eliminating or decreasing adverse impacts that would otherwise result from project implementation. Potential CMs can be found at the following web link: https://www.fws.gov/sites/default/files/documents/2025-03/2025-02-sample-conservation-measures-asheville_field_office.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Act, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). More information about MBTA and BGEPA can be found at the following web link: https://www.fws.gov/program/migratory-birds.

We appreciate your consideration of Federally listed species. The Service encourages Federal agencies to include conservation of threatened and endangered species in their project planning to further the purposes of the Act. Please contact our staff at 828-258-3939, if you have any questions. In future correspondence concerning this project, please reference the Project Code which can be found in the header of this letter.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Asheville Ecological Services Field Office
160 Zillicoa Street, Suite B
Asheville, NC 28801-1082
(828) 258-3939

PROJECT SUMMARY

Project Code: 2026-0068562
Project Name: Harkins Avenue Subdivision Development
Project Type: Residential Construction
Project Description: The project will include the construction of up to 19 single-family housing units including all associated site development and infrastructure. Infrastructure (water, storm water, sewer, utilities, internet, etc.) for the development will tie into existing utility infrastructure along Keith Street and James Street.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@35.5399823,-82.87071391349636,14z

Counties: Haywood County, North Carolina

ENDANGERED SPECIES ACT SPECIES

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Gray Bat *Myotis grisescens* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329	Endangered
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

AMPHIBIANS

NAME	STATUS
Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9039	Proposed Endangered

CLAMS

NAME	STATUS
Appalachian Elktoe *Alasmidonta raveneliana* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5039	Endangered

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

FLOWERING PLANTS

NAME	STATUS
Small Whorled Pogonia *Isotria medeoloides* Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1890	Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act [2] and the Migratory Bird Treaty Act (MBTA) [1]. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

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1. The Bald and Golden Eagle Protection Act of 1940.
2. The Migratory Birds Treaty Act of 1918.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are Bald Eagles and/or Golden Eagles in your project area.

Measures for Proactively Minimizing Eagle Impacts
For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the National Bald Eagle Management Guidelines. You may employ the timing and activity-specific distance recommendations in this document when designing your project/ activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to Bald Eagle Nesting and Sensitivity to Human Activity.

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

If disturbance or take of eagles cannot be avoided, an incidental take permit may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the Do I Need A Permit Tool. For assistance making this determination for golden eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

Ensure Your Eagle List is Accurate and Complete

If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the Supplemental Information on Migratory Birds and Eagles, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

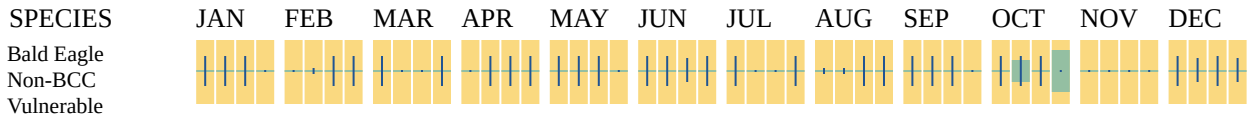
Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

■ probability of presence ■ breeding season | survey effort – no data



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) [1] prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

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1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Aug 31
Canada Warbler *Cardellina canadensis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9643	Breeds May 20 to Aug 10

NAME	BREEDING SEASON
Cerulean Warbler *Setophaga cerulea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/2974	Breeds Apr 27 to Jul 20
Chimney Swift *Chaetura pelagica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Prothonotary Warbler *Protonotaria citrea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9439	Breeds Apr 1 to Jul 31
Rusty Blackbird *Euphagus carolinus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9478	Breeds elsewhere
Wood Thrush *Hylocichla mustelina* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9431	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

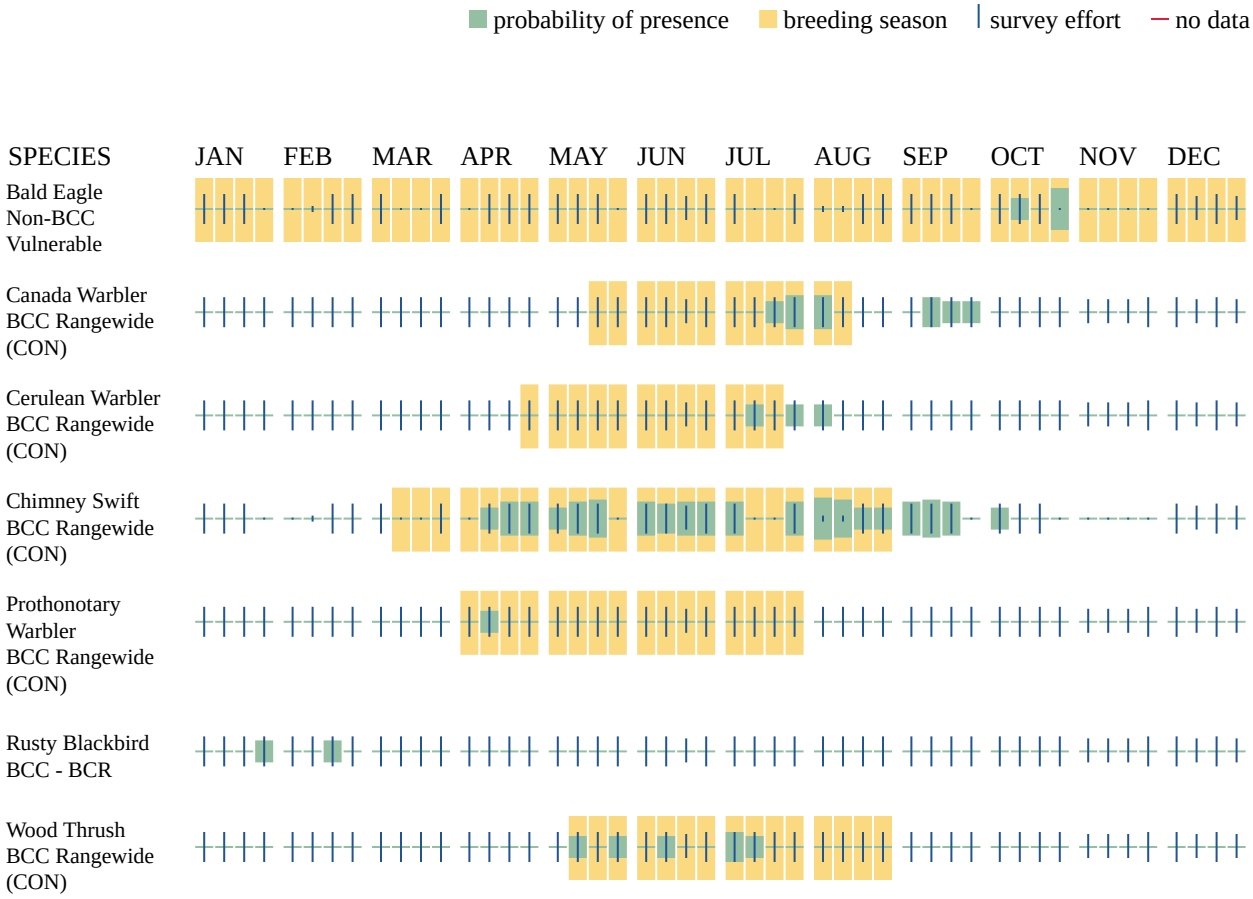
Probability of Presence (▪)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (▪)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

WETLANDS

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: State of North Carolina
Name: Karyn Desselle
Address: 8235 YMCA Plaza Drive, Suite 300
City: Baton Rouge
State: LA
Zip: 70810
Email kdesselle@ramboll.com
Phone: 2254082841

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development
Name: Daniel Herrera
Email: daniel.herrera@commerce.nc.gov

North Carolina Wildlife Resources Commission

M. Kyle Briggs, Executive Director

MEMORANDUM

TO: Daniel Herrera, Environmental Program Manager
Division of Community Revitalization, NC Department of Commerce

FROM: David Cox, Supervisor
Habitat Conservation Division

DATE: May 14, 2026

SUBJECT: Harkins Avenue Subdivision Development, Haywood County

Biologists with the North Carolina Wildlife Resources Commission (NCWRC) have reviewed the documents associated with the Harkins Avenue Subdivision development in West Canton, Haywood County. Our comments are provided in accordance with certain provisions of the N.C. Environmental Policy Act (G.S. 113A-1 through 113A-10; 1 NCAC 25) and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.).

The NC Division of Community Revitalization proposes to use CDBG-DR funds for the construction of the Harkins Avenue Subdivision. Project activities will include all site work, utilities, and infrastructure necessary to support the development. The subdivision will be constructed on a vacant 5.97-acre parcel. The area of disturbance will extend along Keith Street to James Steet to facilitate the installation of a stormwater pipe and other utilities.

Please note that the US Fish and Wildlife Service (USFWS) is the only agency that can determine Endangered Species Act compliance and a No Effect determination; please ensure you consult with the USFWS. Given the scope of the project, we do not anticipate the need to consult with NCWRC any further. There are no NCWRC permits that would be needed.

In regard to your request for feedback on the proposed activities and concerns with respect to the state “Endangered Species Program”, we offer the following:

1. We are unaware of any records for listed species or significant natural areas withing 1 mile of the project boundaries.

Mailing Address: Habitat Conservation • 1721 Mail Service Center • Raleigh, NC 27699-1721
Telephone: (919) 707-0220 • **Fax:** (919) 707-0028

2. We support the use of a parcel within an existing developed area rather than developing a subdivision in a rural area. This minimizes impacts to undisturbed wildlife habitats, minimizes habitat fragmentation, and consolidates development in areas with existing utilities.

3. We recommend the project incorporates Low Impact Development (LID) technologies into the design and construction of the subdivision and residences. This can mitigate some of the stormwater runoff resulting from increased impervious surfaces.

Thank you for the opportunity to review and comment on this project. If we can be of further assistance, please contact me at david.cox@ncwildlife.gov or (919) 707-4055.

NC DEPARTMENT of COMMERCE
COMMUNITY REVITALIZATION

Josh Stein
GOVERNOR

Lee Lilley
SECRETARY

Stephanie McGarrah
DEPUTY SECRETARY

Electronic Delivery Via: misty.franklin@dncr.nc.gov

May 1, 2026

Ms. Misty Franklin, Director
North Carolina Natural Heritage Program
Nature Research Center - 121 W. Jones Street
1651 Mail Service Center
Raleigh, NC 27699-1651

RE: Endangered Species Act and Natural Heritage Program Compliance
Harkins Avenue Subdivision Development, Haywood County
North Carolina Department of Commerce, Division of Community Revitalization and the North Carolina Office of Recovery and Resiliency

Dear Ms. Franklin,

The North Carolina Department of Commerce (NCDOC), Division of Community Revitalization (DCR) is proposing to use Community Development Block Grant - Disaster Recovery funds for construction of the Harkins Avenue Subdivision Development. The project proposes to construct approximately 18 detached single-family homes based on current design plans. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is located in West Canton, Haywood County, North Carolina (Parcel Number 8647-83-7739) measuring approximately 5.97-acres (Coordinates: -82.870754, 35.540037).

In accordance with 24 CFR § 58.4, DCR has assumed the role of Responsible Entity, and responsibility for environmental review, decision-making, and any other action that would otherwise apply to HUD under National Environmental Policy Act (NEPA) and other provisions of law that further the purposes of NEPA, as specified in § 58.5. Based on the size, extent and potential for impacts to environmental resources, DCR is evaluating the project at an Environmental Assessment level of review per 24 CFR § 58.36.

The proposed project is subject to the rules and policies of Section 7 of the Endangered Species Act and the state Endangered Species Program. Project activities are not anticipated to adversely impact threatened & endangered federal and state-listed species. Additionally, the proposed activities are anticipated to be consistent with the North Carolina Natural Heritage Program's mission to conserve, protect and enhance fish, wildlife, plants and their habitats, and no further consultation or permitting would be necessary.

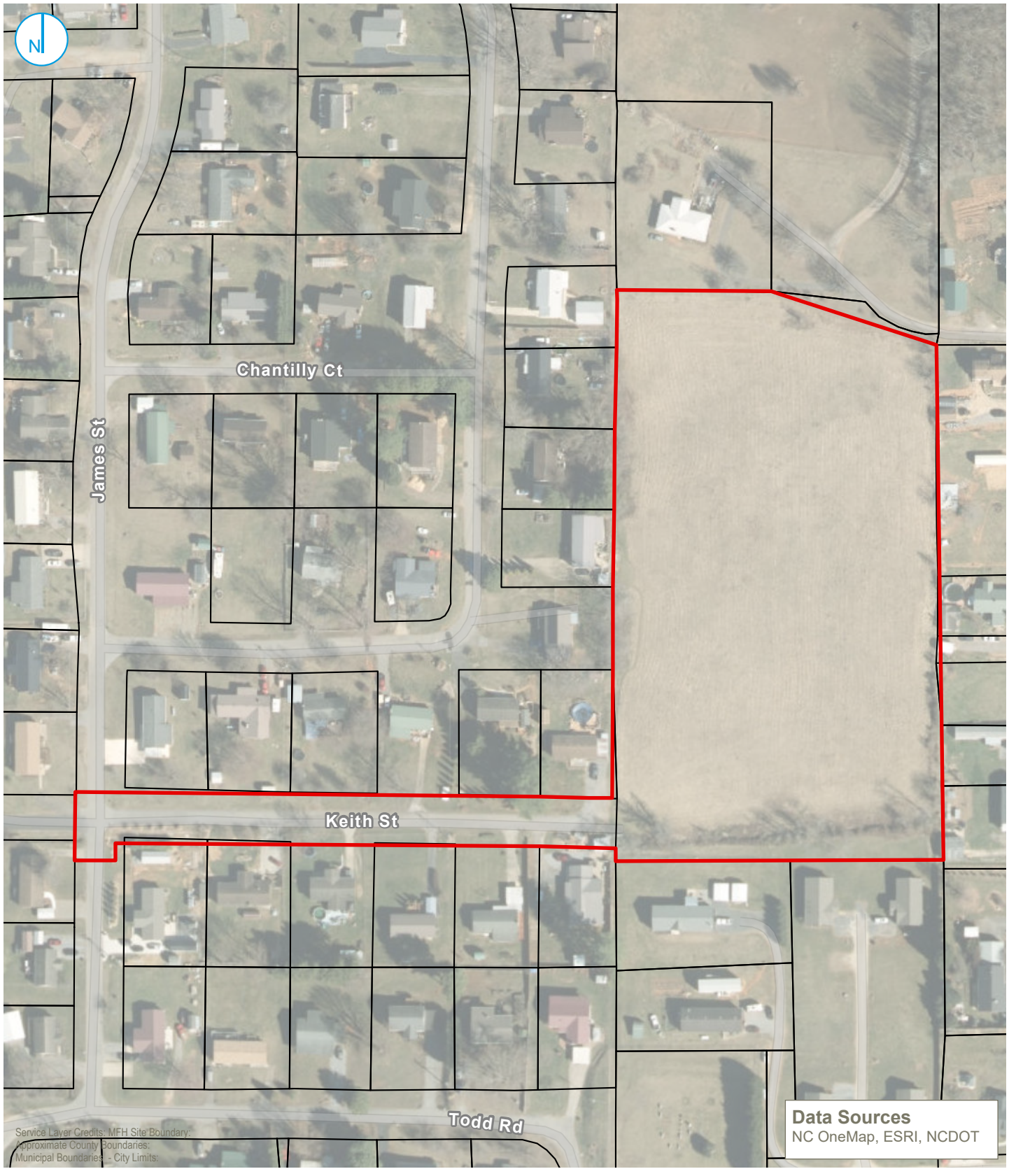
With this solicitation, the DCR is requesting comments and feedback on the proposed activities as well as any concerns you may have regarding the proposed project with respect to protected species and Natural Heritage resources.

To facilitate compliance with these policies and expedite the review process, we respectfully request this information and/or any concerns, comments or objections related to the proposed project be provided within 30 days from receipt of this letter. We sincerely appreciate your comments and timely response to this solicitation. Should you have any questions, please do not hesitate to email me at daniel.herrera@commerce.nc.gov.

Respectfully Yours,

Daniel Herrera
Environmental Program Manager
North Carolina Department of Commerce
Division of Community Revitalization

Enclosures:
Project Site Location Map, Critical Habitat Map, Site Plan, Keith St Stormwater Improvement, IPaC



C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 01 - Site Location

PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Map Scale: 1:2,400 | Map Center: 82°52'19"W 35°32'23"N

KEY MAP (not to scale)

- Approximate Site Boundary
- Approximate County Boundaries
- Municipal Boundaries - City Limits
- Parcel Boundaries

0 100 200 Feet

SITE LOCATION

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

C:\Users\ataylor\Ramboll\Western GIS Graphics Portal - General\Projects\NC DCR\03_GIS\Figure Creation\Figure Creation.aprx\Figure 13-Critical Habitat for Threatened and Endangered Species
PROJECT: 1690000XXXX | DATED: 4/24/2026 | DESIGNER: ATAYLOR

Approximate Site Boundary

Final Critical Habitat Features
- Endangered
- Threatened

Proposed Critical Habitat Feature
- Endangered
- Threatened
- Proposed Endangered
- Proposed Threatened

CRITICAL HABITAT FOR THREATENED AND ENDANGERED SPECIES

Harkins Avenue Subdivision Development
Harkins Avenue/Phillipsville/Circle Drive
Canton, Haywood County, North Carolina

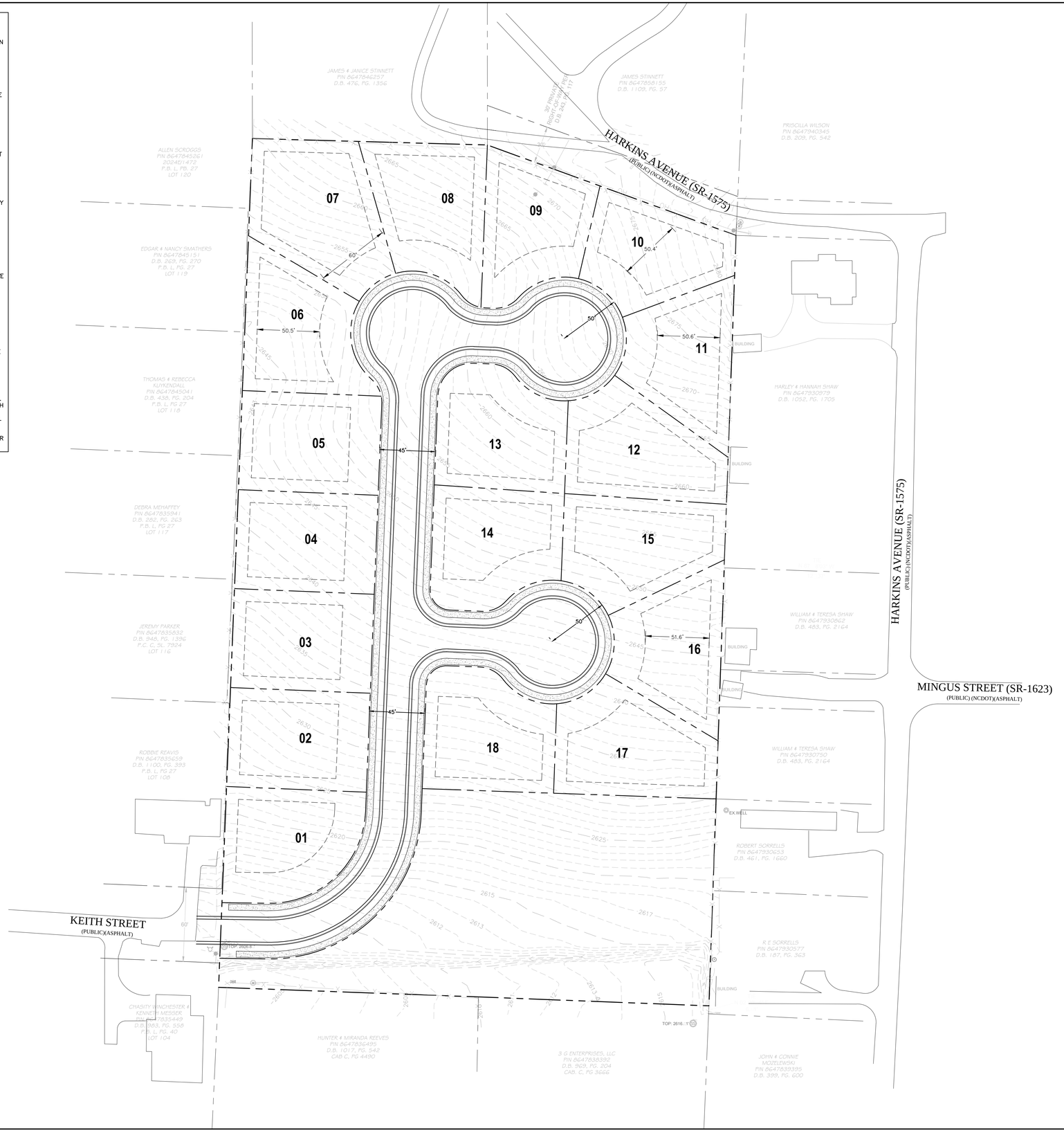
FIGURE 13

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

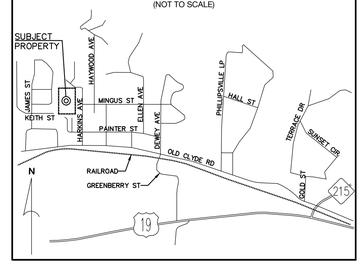
SITE NOTES

1. ALL SITEWORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS AND ALL REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
2. SINGLE-PHASE CONSTRUCTION.
3. ALL WORK MUST BE PERFORMED BY A **NORTH CAROLINA** LICENSED CONTRACTOR.
4. TO SCHEDULE THE REQUIRED INSPECTIONS ON ALL WORK, CALL THE CIVIL DESIGN CONCEPTS INSPECTIONS HOTLINE AT 828-771-4755, OR EMAIL AT INSPECTIONS@CDCGO.COM. FAILURE TO SCHEDULE INSPECTIONS MAY RESULT IN UNCOVERING OR REDOING WORK
5. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION. CONTACT ENGINEER TO CONFIRM IF ADDITIONAL PERMITS ARE NEEDED.
6. CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES (SHOWN TO REMAIN) AND NEWLY COMPLETED WORK DURING CONSTRUCTION. ANY DAMAGE INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY ULOCO AT 1-800-632-4949 OR 811, 72 HOURS BEFORE CONSTRUCTION BEGINS.
8. SIDEWALKS SHALL BE CONSTRUCTED IN ORDER TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. SIDEWALKS TO MEET ALL ADA/PROWAG STANDARDS. CONTRACTOR TO NOTIFY ENGINEER AFTER FORMING BUT PRIOR TO POURING SIDEWALK. ANY SIDEWALK/CROSSWALK NOT INSTALLED TO REQUIRED STANDARDS SHALL BE REMOVED AND REPLACED AT CONTRACTORS EXPENSE.
9. ALL RADII LISTED ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED. ALL PARKING LOT RADII ARE **4'** UNLESS OTHERWISE NOTED.
10. ALL ROAD/PARKING LOT IMPROVEMENTS, STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION AND THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). CONTRACTOR MAY USE A PAINT SUITABLE FOR ASPHALT APPLICATION IN LIEU OF THERMOPLASTIC WITH PRIOR APPROVAL FROM THE ENGINEER.
11. CURB AND GUTTER ON THE HIGH SIDE OF PAVED AREAS AND ROADS SHALL BE CONSTRUCTED WITH SPILLOUT CURB AND GUTTER. CURB AND GUTTER ON THE LOW SIDE SHALL BE CONSTRUCTED WITH STANDARD CURB AND GUTTER; REFER TO SPILLOUT CURB AND GUTTER DETAILS. CURB END TREATMENT SHALL BE APPLIED AT ALL CURB ENDS; REFER TO CURB END TREATMENT DETAIL.
12. PROPOSED ROADS TO BE **PRIVATE. NCDOT IS NOT** RESPONSIBLE FOR ANY ROAD MAINTENANCE.



VICINITY MAP

(NOT TO SCALE)



DEVELOPMENT DATA

OWNER/DEVELOPER:	MOUNTAIN PROJECTS, INC. 2177 ASHEVILLE RD WAYNESVILLE, NV 28786-3139
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 84 COXE AVE - STE 260 ASHEVILLE, NC 28801
CONTACT:	DAVE BRAUN, P.E. (828) 252-5388
SURVEYOR:	HOLMES GEOSPATIAL 200 RIDGEFIELD CT - STE 208 ASHEVILLE, NC 28806
CONTACT:	PHILLIP B. WHITE, PLS 828-225-6562

PROJECT DATA

PIN:	8647-83-7739
ADDRESS:	HARKINS AVE.
DEED BOOK/PAGE:	1043/1001
PROJECT ACREAGE:	5.97± ACRES
CURRENT ZONING:	N/A
PROPOSED ZONING:	R-1, SINGLE FAMILY

MINIMUM SETBACK FROM PROPERTY LINE:

FRONT:	25'
SIDES:	10'
REAR:	10'

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811 Know what's **below.** **Call** before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)
1 inch = 40 ft.

84 COXE AVENUE - SUITE 260
ASHEVILLE, NC 28801
PHONE (828) 252-5388
FAX (828) 252-5365

52 WALNUT STREET - SUITE 9
WAYNESVILLE, NC 28786
PHONE (828) 452-4416
FAX (828) 452-5365

CDC Civil Design Concepts, PA
www.civildesignconcepts.com
NCBELS LICENSE #: C-2184

NO.	DATE	DESCRIPTION	BY

PROGRESS DRAWING, DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049161 DAVID BRAUN

SITE PLAN FOR:

HARKINS AVE SUBDIVISION

MOUNTAIN PROJECTS, INC. - HAYWOOD COUNTY, NORTH CAROLINA

DRAWN BY: XX
CDC PROJECT NO.: XXXX
XXX PERMIT NO. XXXX

SHEET

C201

HARKINS AVENUE (SR-1575)
(PUBLIC/ASPHALT)

JAMES STREET
(PUBLIC/ASPHALT)

KEITH STREET
(PUBLIC/ASPHALT)

PROPOSED STORMWATER PIPE (TYP)

PROPOSED STORMWATER STRUCTURE TO TIE INTO EXISTING STORM CULVERT

APPROXIMATE LOCATION OF EXISTING STORM PIPE (TYP)

APPROXIMATE LOCATION OF EXISTING STORM CULVERT (TYP)

PROPOSED STORMWATER STRUCTURE TO TIE INTO EXISTING STORM CULVERT

PROPOSED STORMWATER SYSTEM (TYP)

PROPOSED STORMWATER CONTROL MEASURE

GRAPHIC SCALE

40 0 20 40 80 120

(IN FEET)

1 inch = 40 ft.

CDC Civil Design Concepts, PA
NCBELS # C-2184

HARKINS AVE SUBDIVISION

CONCEPTUAL KIETH ST STORMWATER IMPROVEMENT

PROGRESS DRAWINGS DO NOT USE FOR CONSTRUCTION

NORTH

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Asheville Ecological Services Field Office
160 Zillicoa Street, Suite B
Asheville, NC 28801-1082
Phone: (828) 258-3939 Fax: (828) 258-5330

In Reply Refer To: 04/23/2026 18:19:32 UTC
Project Code: 2026-0068562
Project Name: Harkins Avenue Subdivision Development

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, and proposed species, as well as proposed and designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The enclosed species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please note that new species information can change your official species list. Under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends you visit the ECOS-IPaC website regularly during project planning and implementation to ensure your species list is accurate or obtain an updated species list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A biological assessment (BA) or biological evaluation (BE) should be completed for your project. A BA is required for major construction activities (or other undertakings having similar physical impacts) considered to be Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c))(NEPA). For projects other than major construction activities, the Service suggests that a BE be prepared to determine effects of the action and whether those effects may affect listed species and/or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it is reasonably certain to occur and would not occur “but for” the proposed action.

Recommended contents of a BA/BE are described at 50 CFR 402.12. More information and resources about project review and preparing a BA/BE can be found at the following web link: https://www.fws.gov/office/asheville-ecological-services/asheville-field-office-online-review-process-overview.

If a Federal agency determines listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. The Service is not required to concur with "no effect" determinations from Federal action agencies. If consultation is required, the Service recommends that candidate species, proposed species, proposed critical habitat, and at-risk species be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or licensed applicants, can be found in the "Endangered Species Consultation Handbook" at the following web link: https://www.fws.gov/media/endangered-species-consultation-handbook.

Conservation measures (CMs) are actions included in the project description that the action agency or the applicant commits to implementing to avoid or minimize impacts to federally threatened or endangered species from their actions. CMs are a part of the proposed action and their implementation is required under the terms of a section 7 consultation. Ultimately, the lead federal action agency (project funder, permitter, or implementer) commits to CMs, however, implementation may be passed to the applicant via permit conditions. CMs demonstrate the action agency’s commitment to imperiled species conservation and have the potential to expedite project review under the Act by eliminating or decreasing adverse impacts that would otherwise result from project implementation. Potential CMs can be found at the following web link: https://www.fws.gov/sites/default/files/documents/2025-03/2025-02-sample-conservation-measures-asheville_field_office.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Act, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). More information about MBTA and BGEPA can be found at the following web link: https://www.fws.gov/program/migratory-birds.

We appreciate your consideration of Federally listed species. The Service encourages Federal agencies to include conservation of threatened and endangered species in their project planning to further the purposes of the Act. Please contact our staff at 828-258-3939, if you have any questions. In future correspondence concerning this project, please reference the Project Code which can be found in the header of this letter.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Asheville Ecological Services Field Office
160 Zillicoa Street, Suite B
Asheville, NC 28801-1082
(828) 258-3939

PROJECT SUMMARY

Project Code: 2026-0068562
Project Name: Harkins Avenue Subdivision Development
Project Type: Residential Construction
Project Description: The project will include the construction of up to 19 single-family housing units including all associated site development and infrastructure. Infrastructure (water, storm water, sewer, utilities, internet, etc.) for the development will tie into existing utility infrastructure along Keith Street and James Street.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@35.5399823,-82.87071391349636,14z

Counties: Haywood County, North Carolina

ENDANGERED SPECIES ACT SPECIES

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Gray Bat *Myotis grisescens* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329	Endangered
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

AMPHIBIANS

NAME	STATUS
Eastern Hellbender *Cryptobranchus alleganiensis alleganiensis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9039	Proposed Endangered

CLAMS

NAME	STATUS
Appalachian Elktoe *Alasmidonta raveneliana* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5039	Endangered

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

FLOWERING PLANTS

NAME	STATUS
Small Whorled Pogonia *Isotria medeoloides* Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1890	Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act [2] and the Migratory Bird Treaty Act (MBTA) [1]. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

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1. The Bald and Golden Eagle Protection Act of 1940.
2. The Migratory Birds Treaty Act of 1918.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are Bald Eagles and/or Golden Eagles in your project area.

Measures for Proactively Minimizing Eagle Impacts
For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the National Bald Eagle Management Guidelines. You may employ the timing and activity-specific distance recommendations in this document when designing your project/ activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to Bald Eagle Nesting and Sensitivity to Human Activity.

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

If disturbance or take of eagles cannot be avoided, an incidental take permit may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the Do I Need A Permit Tool. For assistance making this determination for golden eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

Ensure Your Eagle List is Accurate and Complete

If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the Supplemental Information on Migratory Birds and Eagles, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

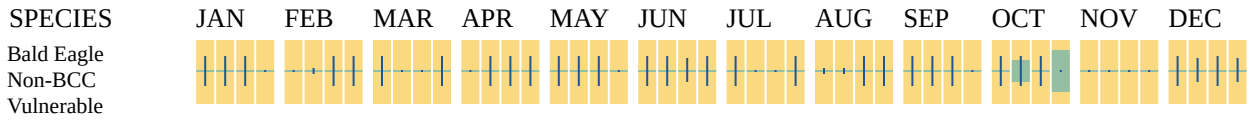
Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

■ probability of presence ■ breeding season | survey effort – no data



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) [1] prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

---

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Aug 31
Canada Warbler *Cardellina canadensis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9643	Breeds May 20 to Aug 10

NAME	BREEDING SEASON
Cerulean Warbler *Setophaga cerulea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/2974	Breeds Apr 27 to Jul 20
Chimney Swift *Chaetura pelagica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Prothonotary Warbler *Protonotaria citrea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9439	Breeds Apr 1 to Jul 31
Rusty Blackbird *Euphagus carolinus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9478	Breeds elsewhere
Wood Thrush *Hylocichla mustelina* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9431	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

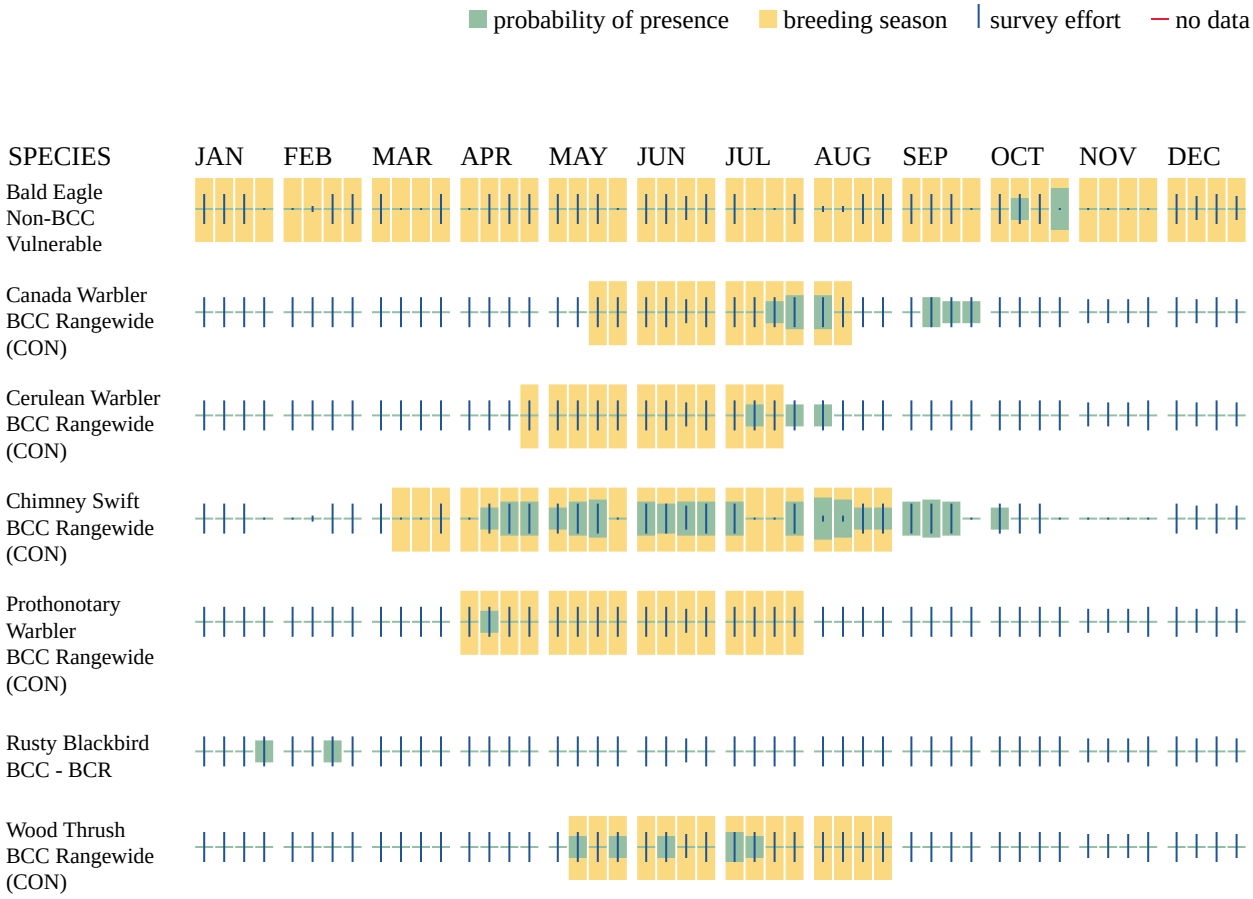
Probability of Presence (▪)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (▪)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

WETLANDS

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: State of North Carolina
Name: Karyn Desselle
Address: 8235 YMCA Plaza Drive, Suite 300
City: Baton Rouge
State: LA
Zip: 70810
Email kdesselle@ramboll.com
Phone: 2254082841

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development
Name: Daniel Herrera
Email: daniel.herrera@commerce.nc.gov

From: Schlosser, Lauren
To: Karyn Desselle
Subject: RE: [External] Harkins Avenue Subdivision Development Project, Haywood County, NC | NEPA SOV
Date: Monday, May 4, 2026 6:10:00 AM
Attachments: image001.png
image002.png

> You don't often get email from lauren.schlosser@dncr.nc.gov. Learn why this is important

Good Morning Karyn,

I am happy to run this environmental review for you. Please create your account with the Natural Heritage Data Explorer using this link. Once your account has been created, I will be able to run the report and attach it to your profile.

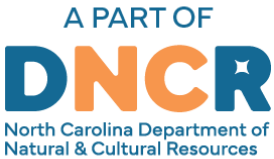
The fee associated with NHDE staff running this report will be $65. Once the payment is made, you will be able to download your project and its findings. Please let me know if you have any additional questions!

Respectfully,

Lauren Schlosser

Business Services Coordinator
North Carolina Natural Heritage Program
N.C. Department of Natural & Cultural Resources

919-707-9392
lauren.schlosser@dncr.nc.gov
www.ncnhp.org
Facebook | Instagram| iNaturalist



From: Karyn Desselle <KDESSELLE@ramboll.com>
Sent: Friday, May 1, 2026 4:18 PM
To: Franklin, Misty <misty.franklin@dncr.nc.gov>
Cc: Herrera, Daniel <daniel.herrera@commerce.nc.gov>; Panteria, Gabrien J

<gabrien.panteria@commerce.nc.gov>
Subject: [External] Harkins Avenue Subdivision Development Project, Haywood County, NC | NEPA SOV

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Good afternoon,

On behalf of the North Carolina Department of Commerce (DOC) Division of Community Revitalization (DCR), please find the attached Solicitation of Views (SOV) letter. We would greatly appreciate your participation in the SOV process for the Harkins Avenue Subdivision Development project in Haywood County, NC. The project is funded by the US Department of Housing and Urban Development's Community Development Block Grant-Disaster Recovery provided after Tropical Storm Fred. As per HUD's National Environmental Policy Act (NEPA) regulations at 24 CFR Part 58, the NC DCR has assumed responsible entity authority for the federal environmental review process.

The Harkins Avenue project consists of building approximately 18 single family homes on 5.97 acres of a previously undisturbed lot located in West Canton, NC. With this solicitation, DCR invites you to participate in the NEPA process as a stakeholder or interested party.

Your expertise and perspective are essential to ensuring that our final decision is well-informed, complies with NEPA and applicable laws, regulations, and authorities, and avoids or minimizes potential adverse impacts.

To facilitate compliance with these policies and expedite the review process, we respectfully request that you respond within 30 days from receipt of this letter. If you have any questions or would like any additional information, please do not hesitate to email daniel.herrera@commerce.nc.gov. We sincerely appreciate your comments and timely response to this solicitation.

Kind regards
Karyn Desselle

Sr. Managing Consultant
1946184 - South IA and B&E

D +1 225-408-2841
M 2259317052
kdesselle@ramboll.com

Connect with us

Ramboll
8235 YMCA Plaza Drive
Suite 300
Baton Rouge, LA 70810
USA
https://ramboll.com

Classification: Confidential

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NORTH CAROLINA Natural Heritage Program
SCIENCE GUIDING CONSERVATION

A PART OF DNCR
North Carolina Department of Natural & Cultural Resources

Josh Stein
Governor

Pamela B. Cashwell
Secretary, DNCR

Misty Franklin
Director, NC Natural Heritage Program

NCNHDE-35955

July 13, 2026

Karyn Desselle
Ramboll
8235 YMCA Plaza Drive, Suite 300
Baton Rouge, NC 70810
RE: Harkins Avenue Subdivision Development; NCDOC DCR TO2:Harkins

Dear Karyn Desselle:

The North Carolina Natural Heritage Program (NCNHP) appreciates the opportunity to provide information about natural heritage resources for the project referenced above.

Based on the project area mapped with your request, a query of the NCNHP database indicates that there are no records for rare species, important natural communities, natural areas, and/or conservation/managed areas within the proposed project boundary. Please note that although there may be no documentation of natural heritage elements within the project boundary, it does not imply or confirm their absence; the area may not have been surveyed. The results of this query should not be substituted for field surveys where suitable habitat exists. In the event that rare species are found within the project area, please contact the NCNHP so that we may update our records.

The attached 'Potential Occurrences' table summarizes rare species and natural communities that have been documented within a one-mile radius of the property boundary. The proximity of these records suggests that these natural heritage elements may potentially be present in the project area if suitable habitat exists. Tables of natural areas and conservation/managed areas within a one-mile radius of the project area, if any, are also included in this report.

If a Federally-listed species is found within the project area or is indicated within a one-mile radius of the project area, the NCNHP recommends contacting the US Fish and Wildlife Service (USFWS) for guidance. Contact information for USFWS offices in North Carolina is found here: https://www.fws.gov/our-facilities?type=%5B%22Conservation%20Office%22%5D&state_name=%5B%22North%20Carolina%22%5D.

Please note that natural heritage element data are maintained for the purposes of conservation planning, project review, and scientific research, and are not intended for use as the primary criteria for regulatory decisions. Information provided by the NCNHP database may not be published without prior written notification to the NCNHP, and the NCNHP must be credited as an information source in these publications. Maps of NCNHP data may not be redistributed without permission.

Also note that if a Dedicated Nature Preserve (DNP), Registered Natural Heritage Area (RHA), or a NC Land and Water Fund (NCLWF) Project or Conservation Agreement are documented near the project area, NCNHP or NCLWF staff may provide additional correspondence.

If you have questions regarding the information provided in this letter or need additional assistance, please contact the NCNHP at natural.heritage@dncr.nc.gov.

Sincerely,
NC Natural Heritage Program

Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Within a One-mile Radius of the Project Area
Harkins Avenue Subdivision Development
Project No. NCDOC DCR TO2:Harkins
July 13, 2026
NCNHDE-35955

Element Occurrences Documented Within a One-mile Radius of the Project Area

Taxonomic Group	EO ID	Scientific Name	Common Name	Last Observation Date	Element Occurrence Rank	Accuracy	Federal Status	State Status	Global Rank	State Rank
Freshwater Fish	26671	Percina squamata	Olive Darter	2023-07-19	E	3-Medium	---	Special Concern	G3	S2
Mammal	1300	Mustela nivalis	Least Weasel	2014-01-30	E	3-Medium	---	Game Animal	G5	S2
Mammal	40585	Myotis grisescens	Gray Bat	2019-04-22	E	2-High	Endangered	Endangered	G3G4	S1
Vascular Plant	23933	Hackelia virginiana	Virginia Stickseed	1968-Pre	H	5-Very Low	---	Significantly Rare Peripheral	G5	S2
Vascular Plant	23969	Orbexilum onobrychis	Lanceleaf Scurfpea	1891-07-17	X	5-Very Low	---	Special Concern Historical	G5	SX

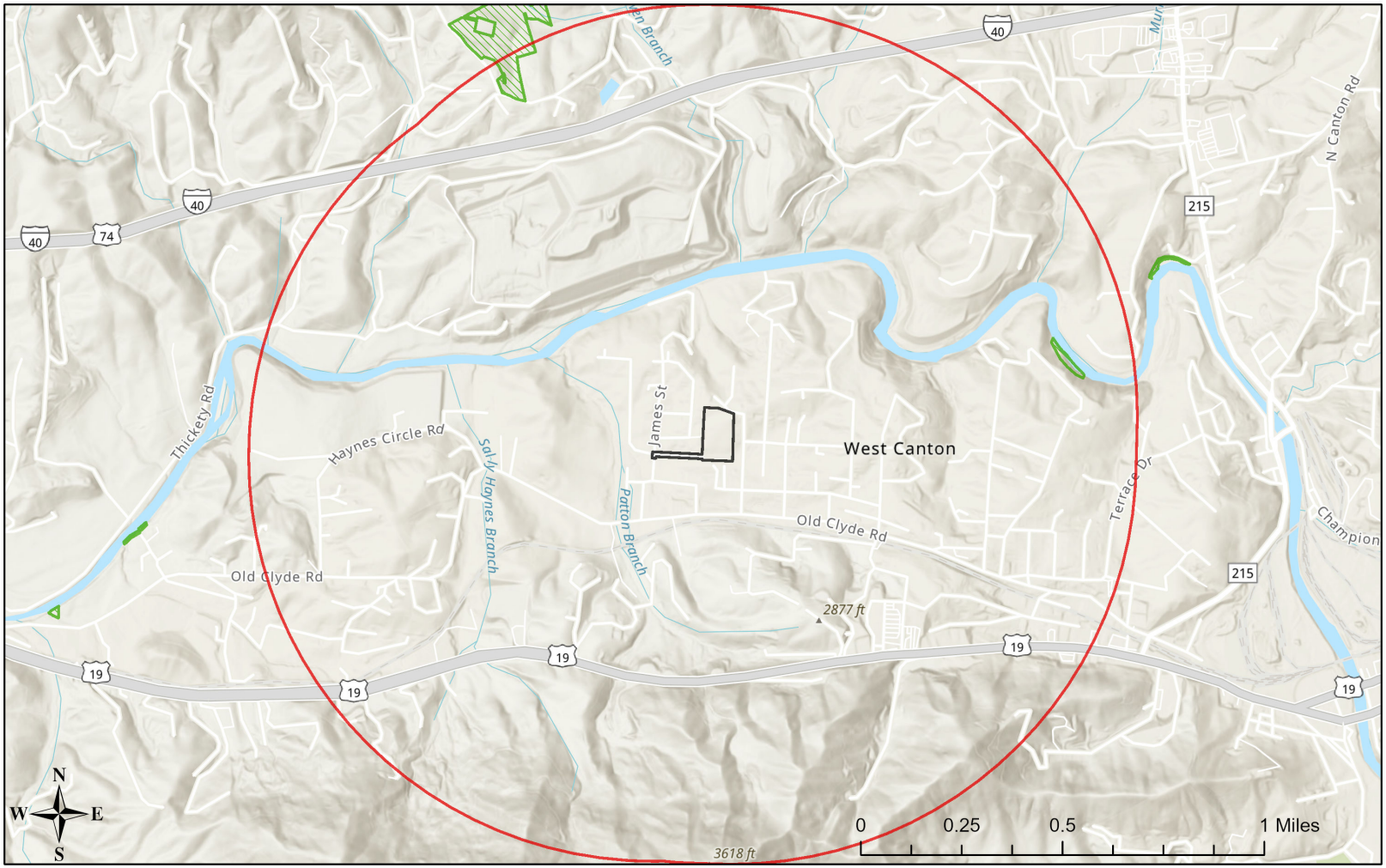
No Natural Areas are Documented Within a One-mile Radius of the Project Area

Managed Areas Documented Within a One-mile Radius of the Project Area

Managed Area Name	Owner	Owner Type
NC Agricultural Development and Farmland Preservation Trust Fund Easement	NC Department of Agriculture	State
NC Land and Water Fund Conservation Agreement	NC DNCR, NC Land and Water Fund	State

Definitions and an explanation of status designations and codes can be found at https://ncnhde.natureserve.org/help. Data query generated on July 13, 2026; source: NCNHP, Spring (April) 2026. Please resubmit your information request if more than one year elapses before project initiation as new information is continually added to the NCNHP database.

NCNHDE-35955: Harkins Avenue Subdivision Development



July 13, 2026

Managed Area (MAREA)

Buffered Project Boundary

Project Boundary

Buncombe County, NC, State of North Carolina DOT, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS
Esri, NASA, NGA, USGS, FEMA

Gap Data Tool — North Carolina Species Report

Least weasel

Mustela nivalis

ITIS Species Code: 180554 **NatureServ Element Code:** AMAJF02020

Taxa: *Mammalia*
Order: *Carnivora*
Family: *Mustelidae*

NatureServe Global Rank: *G5*
NatureServe State (NC) Rank: *S2?*

Federal Status: ---
NC State Status: *SR*

HEXAGONAL KNOWN RANGE:

PREDICTED DISTRIBUTION:

SUMMARY OF STATEWIDE PREDICTED DISTRIBUTION:

Land Unit	Hectares	Acres	% of Dist. on Prot. Lands	% of Dist. on All Lands
US Fish & Wildlife Service	0.00	0.00	0.0 %	0.0 %
US Forest Service	217,371.06	537,135.48	72.4 %	20.3 %
US National Park Service	0.00	0.00	0.0 %	0.0 %
US Department of Defense	54,969.66	135,832.96	18.3 %	5.1 %
NC State Parks	3,566.34	8,812.62	1.2 %	0.3 %
NC University System	23.40	57.82	< 0.1 %	< 0.1 %
NC Wildlife Res. Com.	8,209.08	20,285.07	2.7 %	0.8 %
NC Forest Service	2,737.38	10,316.01	0.9 %	0.3 %
NC Div. of Coastal Mgmt.	0.00	0.00	0.0 %	0.0 %
Local Governments	7,526.52	18,598.43	1.9 %	0.7 %
Non-Governmental Org.	6,073.56	15,008.09	1.9 %	0.6 %
Other Public Lands	1.35	3.34	< 0.1 %	< 0.1 %
Private Lands	770,209.29	1,903,228.23	0.0 %	71.9 %
GAP Status 1-2	89,096.25	223,713.38	29.7 %	8.3 %
All Protected Lands	300,084.42	745,076.40	-----	-----
Statewide	1,070,687.64	2,649,278.06	-----	-----

HABITAT DESCRIPTION:

Only known from a few records in the mountains of western North Carolina (Lee et al. 1982).

With few accounts throughout its range, a consensus among authors regarding habitat requirements for this small elusive mustelid does not appear to be established. Whitaker and Hamilton (1998) describes open habitats near water as the least weasel's primary stomping ground. Lowman (1975) indicates the weasel will use deciduous forests and fields. Open woodlands, brushy areas, fencerows, marshes, and cultivated fields are also given as possible habitats (Webster et al. 1985).

This weasel will enlarge and occupy the underground tunnels and chambers of its prey (mice and moles) after it has dispatched them or will burrow out a den of its own (Whitaker and Hamilton 1998). It will den in open woodlands, brushy or grassy fields, along fencerows, and beside marshes, streams or cultivated fields (Webster et al. 1985, Whitaker and Hamilton 1998).

NATURE SERVE GLOBAL HABITAT COMMENTS:

Habitat varies geographically and includes open forests, farmlands and cultivated areas, grassy fields and meadows, riparian woodlands, hedgerows, alpine meadows, scrub, steppe and semi-deserts, prairies, coastal dunes, and sometimes rural residential areas; snow cover is not an obstacle; generally avoids deep dense forest and sandy desert. When inactive, occupies burrow made by vole or mole, or rests in nest in hole in wall of building or under corn shock or similar site. Den site may change often. Young are born in abandoned underground burrows made by other mammals (or similar secluded sites).

MODELING DESCRIPTION:

Occupied Landcover Map Units:

Code	Name	Description	NC Natural Heritage Program Equivalent
238	Piedmont/Mountain Submerged Aquatic Vegetation	Seasonally to permanently flooded areas with aquatic vegetation. Waterlily, pondweed, hydrilla smartweed are a few of the species that can occur.	Piedmont/Mountain Semipermanent Impoundment (in part)
239	Piedmont/Mountain Emergent Vegetation	Emergent vegetation of all wetland hydrologies. Sites would commonly support species such as tussock sedge, rushs, and cattail alliances.	Rocky Bar and Shore (in part)
267	Riverbank Shrublands	Riverside shrubs with temporarily flooded hydrologies. Found in the both the Mountains and Piedmont. Containing dominants such as smooth alder and a Carolina or black willows.	Sand and Mud Bar
269	Floodplain Wet Shrublands	Saturated shrublands of the Piedmont, includes buttonbush, swamp-loosestrife, decodon and alders.	Piedmont/mountain Semipermanent Impoundment
230	Piedmont Mesic Forest	American Beech - Red Oak - White Oak Forests.	Mesic Mixed Hardwood
384	Piedmont/Mountain Mixed Bottomland Hardwood Forests	Includes temporarily to seasonally forests dominated by hardwood species. Hardwoods include sweetgum, red maple, sycamore which co-occur in a mosaic of bottomland and levee positions. Includes alluvial hardwood forests in the mountains. Hemlock and white pine may occur as inclusions, but are generally mapped separately.	Piedmont/Mountain Alluvial Forest, Piedmont/Mountain Levee Forest
383	Piedmont Mixed Successional Forest	Generally loblolly mixed with successional hardwoods. Sweetgum, tulip poplar and red maple are common co-dominants in these successional forests.	No equivalent

228	Piedmont Dry-Mesic Oak and Hardwood Forests	Primarily oak dominated forests, white oak is often dominant, with co-dominants including . Also represented by sweetgum and tulip poplar dominated forests.	Dry Mesic Oak Hickory Forest, Basic Oak Hickory Forest, Dry Oak Hickory Forest
222	Piedmont Dry-Mesic Pine Forests	Loblolly dominated forests resulting from succession following clearing. This type occurs on all moisture regimes following disturbance with the exception of the extremely xeric sites.	No equivalent
382	Dry Mesic Oak Pine Forests	Mixed forests of the coastal plain and piedmont. Includes loblolly pine with white, southern red and/or post oak and loblolly with water oak. On basic sites of the piedmont, eastern red cedar may co-occur with post, black, and blackjack oaks.	Dry Mesic Oak Hickory Forest, Xeric Hard Pan Forest, Chestnut Oak Forest, Dry Mesic Oak Hickory Forest, Dry Oak Hickory Forest
226	Piedmont Xeric Woodlands	Generally post and blackjack oak dominated woodlands. White ash and pignut hickory can be found in combination with Eastern red cedar on glades.	Xeric Hardpan Forest
36	Successional Deciduous Forests	Regenerating deciduous trees with a shrub stature. Commonly dominated by sweetgum, tulip poplars and maples.	No equivalent
180	Agricultural Crop Fields	Farm fields used for row crops.	No equivalent
205	Agricultural Pasture/Hay and Natural Herbaceous	Farm fields used for pasture grass or hay production, as well as old fields dominated by native and exotic grasses.	No equivalent
517	Hemlock Floodplain Forest	Alluvial forest with hemlock and/or white pine in mountains and western piedmont. Hydrology is generally temporarily to seasonally flooded.	Canada Hemlock Forest
521	Spruce/Fir Forest	High Elevation Frazer-Fir - Red Spruce, Red Spruce and Red-Spruce-Yellow Birch Forests. Tree densities included here include both woodland to forest density. Highly intermixed with Northern Hardwoods, Grassy Balds, and Shrub Balds.	Red Spruce--Fraser Fir Forest, Fraser Fir Forest
522	Northern Hardwoods	High Elevation forests including yellow birch, American beech, and yellow buckeye. Includes forests with Hemlock and Yellow Birch.	Northern Hardwoods Forest, Boulderfield Forest
523	Grassy Bald	High Elevation grassy balds including Pennsylvania sedge, mountain oatgrass, as well as shrubby areas dominated by Alleghany and smooth blackberry.	Grassy Bald
524	Shrub Bald	Variable phenologies, predominantly evergreen balds with rhododendon and Mountain laurels. Deciduous shrubs including green alder and Alleghany and smooth blackberry are included as well. Red Oak - Chestnut Oak Woodlands may be included in cases where the density of the woodland species is low and the shrub component is dense.	Heath Bald
525	Appalachian Oak Forest	A variety of oak forest types including Black, White, Scarlet Oaks in dry to mesic situations. Includes forests historically co-dominated by American Chestnut.	High Elevation Red Oak Forest, Montane White Oak Forest
526	Appalachian Cove Forest	Mixed Mesophytic forests of the mountains. Includes tuliptree, basswood, yellow buckeye and surgar maple. This class is mapped to include cove forests dominated or co-dominated by hemlock.	Rich Cove Forest, Acidic Cove Forest
527	Appalachian Hemlock	Upland hemlock forests of the moutains region. Vary from side slopes to steep slope positions.	Canada Hemlock Forest
528	Appalachian Xeric Pine Forest	Pine forests and woodlands on xeric sites. A variety of pines, including Virginia, Shortleaf, Eastern White Pine, Table Mountain and Pitch pine. Often small areas of dense pine within a matrix of Xeric Oak-Pine Forests.	Pine Oak Heath

529	Appalachian Xeric Mixed Forest	Mixed forests with Virginia, Shortleaf, Eastern White Pine, Table Mountain and Pitch pines in combination with xeric oak species. Oaks include, white, Southern Red, black, and rock chestnut.	Pine Oak Heath
530	Appalachian Xeric Deciduous Forest	Deciduous forests in the mountains dominated by Xeric Oak species. Species include, white, Southern red, black, and rock chestnut.	High Elevation Red Oak Forest, Montane White Oak Forest
533	Appalachian Swamp Forest	Evergreen and deciduous forests with saturated hydrologies. This class may contain a variety of trees species, including hemlock - red maple, pitch pine, and white pine forests.	Swamp Forest-Bog Complex, Southern Appalachian Bog, Southern Appalachian Fen
534	Appalachian Wet Shrubland/ Herbaceous	Saturated shrubs and herbaceous vegetation. Often mapped as an inclusion in Appalachian Swamp Forest.	Southern Appalachian Bog, Southern Appalachian Fen

View Entire Landcover Legend

Additional Spatial Constraints:

Exclude all area outside of known range.

Exclude areas of intensive human activity including moderately to highly developed landscapes.

CITATIONS:

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10 March 2005

This data was compiled and/or developed by the North Carolina GAP Analysis Project.

For more information please contact them at:
NC-GAP Analysis Project
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Raleigh, NC 27695-7617
(919) 513-2853
www.basic.ncsu.edu/ncgap

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Request for Release of Funds and Certification (RROF)

Docusign Envelope ID: 95B3B5BA-0946-89B5-82D5-7ECF836E59FF

Request for Release of Funds and Certification

U.S. Department of Housing and Urban Development
Office of Community Planning and Development

OMB No. 2506-0087
(exp. 04/30/2027)

This form is to be used by Responsible Entities and Recipients (as defined in 24 CFR 58.2) when requesting the release of funds, and requesting the authority to use such funds, for HUD programs identified by statutes that provide for the assumption of the environmental review responsibility by units of general local government and States. Public reporting burden for this collection of information is estimated to average 36 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless that collection displays a valid OMB control number.

Part 1. Program Description and Request for Release of Funds (to be completed by Responsible Entity)

1. Program Title(s)	2. HUD/State Identification Number	3. Recipient Identification Number (optional)
Harkins Avenue Subdivision Development	P-21-NC-37-LDZ1	

4. OMB Catalog Number(s)	5. Name and address of responsible entity
14.228	North Carolina Department of Commerce Division of Community Revitalization 430 N Salisbury St, Raleigh, NC 27699
6. For information about this request, contact (name & phone number)	
Daniel Herrera (984)202-4267	

8. HUD or State Agency and office unit to receive request	7. Name and address of recipient (if different than responsible entity)
HUD HQ, Office of Disaster Recovery	Haywood County Community and Economic Development Office, 285 North Main St. Waynesville 28786

The recipient(s) of assistance under the program(s) listed above requests the release of funds and removal of environmental grant conditions governing the use of the assistance for the following

9. Program Activity(ies)/Project Name(s)	10. Location (Street address, city, county, State)
TS Fred Haywood County Housing	Harkins Avenue, Canton, NC 28716 Coordinates: 35.540037, -82.870754

11. Program Activity/Project Description

The project proposes to utilize CDBG-DR funds to support the construction of approximately 18 detached single-family homes on an approximately 5.97 acre site in Haywood County, NC. Project activities will include all site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way. The subject property proposed for development is currently undeveloped cleared land in the West Canton area of Beaverdam Township in Haywood County, North Carolina.

Docusign Envelope ID: 95B3B5BA-0946-89B5-82D5-7ECF836E59FF

Part 2. Environmental Certification (to be completed by responsible entity)

With reference to the above Program Activity(ies)/Project(s), I, the undersigned officer of the responsible entity, certify that:

1. The responsible entity has fully carried out its responsibilities for environmental review, decision-making and action pertaining to the project(s) named above.
2. The responsible entity has assumed responsibility for and complied with and will continue to comply with, the National Environmental Policy Act of 1969, as amended, and the environmental procedures, permit requirements and statutory obligations of the laws cited in 24 CFR 58.5; and also agrees to comply with the authorities in 24 CFR 58.6 and applicable State and local laws.
3. The responsible entity has assumed responsibility for and complied with and will continue to comply with Section 106 of the National Historic Preservation Act, and its implementing regulations 36 CFR 800, including consultation with the State Historic Preservation Officer, Indian tribes and Native Hawaiian organizations, and the public.
4. After considering the type and degree of environmental effects identified by the environmental review completed for the proposed project described in Part 1 of this request, I have found that the proposal did ☐ did not ☑ require the preparation and dissemination of an environmental impact statement.
5. The responsible entity has disseminated and/or published in the manner prescribed by 24 CFR 58.43 and 58.55 a notice to the public in accordance with 24 CFR 58.70 and as evidenced by the attached copy (copies) or evidence of posting and mailing procedure.
6. The dates for all statutory and regulatory time periods for review, comment or other action are in compliance with procedures and requirements of 24 CFR Part 58.
7. In accordance with 24 CFR 58.71(b), the responsible entity will advise the recipient (if different from the responsible entity) of any special environmental conditions that must be adhered to in carrying out the project.

As the duly designated certifying official of the responsible entity, I also certify that:

8. I am authorized to and do consent to assume the status of Federal official under the National Environmental Policy Act of 1969 and each provision of law designated in the 24 CFR 58.5 list of NEPA-related authorities insofar as the provisions of these laws apply to the HUD responsibilities for environmental review, decision-making and action that have been assumed by the responsible entity.
9. I am authorized to and do accept, on behalf of the recipient personally, the jurisdiction of the Federal courts for the enforcement of all these responsibilities, in my capacity as certifying officer of the responsible entity.

Signature of Certifying Officer of the Responsible Entity	Title of Certifying Officer
x **Signed by:** Stephanie McGarrah F95D3FB067514B2...	Deputy Secretary, NC Department of Commerce
	Date signed: 08/10/2026

Address of Certifying Officer

North Carolina Department of Commerce Division of Community Revitalization 301 North Wilmington Street Raleigh, NC 27601-1058

Part 3. To be completed when the Recipient is not the Responsible Entity

The recipient requests the release of funds for the programs and activities identified in Part 1 and agrees to abide by the special conditions, procedures and requirements of the environmental review and to advise the responsible entity of any proposed change in the scope of the project or any change in environmental conditions in accordance with 24 CFR 58.71(b).

Signature of Authorized Officer of the Recipient	Title of Authorized Officer
x	Date signed

We, the undersigned, certify under penalty of perjury that the information provided above is true and correct. WARNING: Anyone who knowingly submits a false claim or makes a false statement is subject to criminal and/or civil penalties, including confinement for up to 5 years, fines, and civil and administrative penalties. (18 U.S.C. §§ 287, 1001, 1010, 1012, 1014; 31 U.S.C. §3729, 3802)

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Status: Completed
Subject: Complete with Docusign: Harkins Avenue RROF.pdf
Source Envelope:
Document Pages: 2
Signatures: 1
Certificate Pages: 5
Initials: 0
AutoNav: Enabled
EnvelopeId Stamping: Enabled
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Stephanie McGarrah stephanie.mcgarrah@commerce.nc.gov Deputy Secretary Security Level: Email, Account Authentication (None)	Signed by: Stephanie McGarrah F95D3FB067514B2... Signature Adoption: Pre-selected Style Using IP Address: 71.217.116.186	Sent: 8/10/2026 5:14:14 PM Viewed: 8/11/2026 10:13:33 AM Signed: 8/11/2026 10:13:43 AM

Electronic Record and Signature Disclosure:
Accepted: 8/11/2026 10:13:33 AM
ID: 5dfa2958-519d-44fd-8042-fe042acc8399

In Person Signer Events	Signature	Timestamp

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Agent Delivery Events	Status	Timestamp

Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp

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Carrie Shortt carrie.shortt@commerce.nc.gov Executive Assistant NC Dept. of Commerce Security Level: Email, Account Authentication (None)	COPIED	Sent: 8/11/2026 10:13:44 AM Resent: 8/11/2026 10:13:45 AM

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Dan Herrera daniel.herrera@commerce.nc.gov Environmental Program Manager Security Level: Email, Account Authentication (None)	COPIED	Sent: 8/11/2026 10:13:44 AM Viewed: 8/11/2026 10:34:15 AM

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Notary Events	Signature	Timestamp

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Envelope Sent	Hashed/Encrypted	8/10/2026 5:14:14 PM
Certified Delivered	Security Checked	8/11/2026 10:13:33 AM
Signing Complete	Security Checked	8/11/2026 10:13:43 AM
Completed	Security Checked	8/11/2026 10:13:44 AM

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Authority to Use Grant Funds

U.S. Department of Housing and Urban Development
Office of Community Planning and Development

To: (name & address of Grant Recipient & name & title of Chief Executive Officer)	**Copy To:** (name & address of SubRecipient)
Stephanie McGarrah Deputy Secretary Division of Community Revitalization North Carolina Department of Commerce	

We received your Request for Release of Funds and Certification, form HUD-7015.15 on	8/11/26
Your Request was for HUD/State Identification Number	B-25-DU-37-0001

All objections, if received, have been considered. And the minimum waiting period has transpired.
You are hereby authorized to use funds provided to you under the above HUD/State Identification Number.
File this form for proper record keeping, audit, and inspection purposes.

Providing low- to moderate-income (LMI) single-family housing units in the West Canton community of Haywood County, North Carolina. Project activities will include all necessary site work, utilities and infrastructure necessary to support the development of the property. Areas of disturbance associated with the proposed development extend along Keith Street through the intersection of Keith Street and James Street to facilitate the installation of a new stormwater conveyance pipe along the centerline of Keith Street and new public infrastructure and utilities within the Keith Street right-of-way (see attached Project Plans).

$2,497,827.05

Typed Name of Authorizing Officer	Signature of Authorizing Officer	Date (mm/dd/yyyy)
Jill Smolen Title of Authorizing Officer Assistant Director	JILL SMOLEN X Digitally signed by: JILL SMOLEN DN: CN = JILL SMOLEN C = US O = U.S. Government OU = Department of Housing and Urban Development, Office of Administration Date: 2026.08.27 15:31:58 -04'00'	8/27/26