NC DEPARTMENT OF
NATURAL AND CULTURAL RESOURCES

Roy Cooper, **Governor**
Susi Hamilton, **Secretary**
Walter Clark, **Director, Land and Water Stewardship**

NCNHDE-10622

November 1, 2019

Rick Schneider
NatureServe
2550 S. Clark St.
Arlington, VA 22202
RE: Cane River Test Report 1

Dear Rick Schneider:

The North Carolina Natural Heritage Program (NCNHP) appreciates the opportunity to provide information about natural heritage resources for the project referenced above.

A query of the NCNHP database indicates that there are records for rare species, important natural communities, natural areas, and/or conservation/managed areas within the proposed project boundary. These results are presented in the attached 'Documented Occurrences' tables and map.

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 documented within the project area or 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/offices/Directory/ListOffices.cfm?statecode=37.

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 Information provided by the NCNHP database may not be published without prior written notification to the NCNHP, and the NCNHP must be credited as an information source in these publications.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 please note that the NC Natural Heritage Program may follow this letter with additional correspondence if a Dedicated Nature Preserve, Registered Heritage Area, Clean Water Management Trust Fund easement, or an occurrence of a Federally-listed species is documented near the project area.

If you have questions regarding the information provided in this letter or need additional assistance, please contact Rodney A. Butler at rodney.butler@ncdcr.gov or 919-707-8603.

Sincerely,
NC Natural Heritage Program

Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Intersecting the Project Area
Cane River Test Report 1
November 1, 2019
NCNHDE-10622

Element Occurrences Documented Within 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
Natural Community	27629	Acidic Cove Forest (Typic Subtype)	---	2010	A	3-Medium	---	---	G5	S4
Natural Community	30191	Northern Hardwood Forest (Rich Subtype)	---	2010	A	3-Medium	---	---	G3	S3
Natural Community	11550	Northern Hardwood Forest (Typic Subtype)	---	2010	A	3-Medium	---	---	G3G4	S3
Natural Community	27628	Rich Cove Forest (Montane Intermediate Subtype)	---	2010	A	3-Medium	---	---	G4	S4
Vascular Plant	11954	Lilium grayi	Gray's Lily	1898-06-22	H	3-Medium	---	Threatened	G1G2	S1S2

Natural Areas Documented Within Project Area

Site Name	Representational Rating	Collective Rating
Cane River Upper Watershed	R1 (Exceptional)	C1 (Exceptional)
FRB/Cane River Aquatic Habitat	R2 (Very High)	C3 (High)

Managed Areas Documented Within Project Area*

Managed Area Name	Owner	Owner Type
Southern Appalachian Highlands Conservancy Easement	Southern Appalachian Highlands Conservancy	Private

*NOTE: If the proposed project intersects with a conservation/managed area, please contact the landowner directly for additional information. If the project intersects with a Dedicated Nature Preserve (DNP), Registered Natural Heritage Area (RHA), or Federally-listed species, NCNHP staff may provide additional correspondence regarding the project.

Definitions and an explanation of status designations and codes can be found at https://ncnhde.natureserve.org/content/help. Data query generated on November 1, 2019; source: NCNHP, Q4 Oct 2019. Please resubmit your information request if more than one year elapses before project initiation as new information is continually added to the NCNHP database.

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
Amphibian	37469	Desmognathus organi	Northern Pygmy Salamander	1968-05-31	H	4-Low	---	Significantly Rare	G3	S2S3
Beetle	13601	Nicrophorus americanus	American Burying Beetle	1958-Pre	H	5-Very Low	Endangered	Significantly Rare	G2G3	SH
Bird	1738	Accipiter striatus	Sharp-shinned Hawk	1970-07-24	H	4-Low	---	Significantly Rare	G5	S1B,S4N
Bird	19613	Aegolius acadicus	Northern Saw-whet Owl	2001-04	B	4-Low	---	Threatened	G5	S2B,S2N
Bird	7386	Aegolius acadicus	Northern Saw-whet Owl	1989-05-31	H	3-Medium	---	Threatened	G5	S2B,S2N
Bird	4710	Aegolius acadicus	Northern Saw-whet Owl	1986-06-19	H	3-Medium	---	Threatened	G5	S2B,S2N
Bird	3365	Catharus guttatus	Hermit Thrush	2015-05-23	A	3-Medium	---	Significantly Rare	G5	S2B,S5N
Bird	9917	Certhia americana	Brown Creeper	2007-06-14	B	4-Low	---	Special Concern	G5	S3B,S5N
Bird	5900	Coccyzus erythropthalmus	Black-billed Cuckoo	1989-Pre	H	4-Low	---	Significantly Rare	G5	S2B
Bird	7714	Empidonax alnorum	Alder Flycatcher	2011-05-29	C	3-Medium	---	Significantly Rare	G5	S2B
Bird	5787	Setophaga magnolia	Magnolia Warbler	1986-07-05	H	3-Medium	---	Significantly Rare	G5	S2B
Bird	34197	Sphyrapicus varius	Yellow-bellied Sapsucker	1988-06-03	H	4-Low	---	Significantly Rare	G5	S2S3B, S5N
Bird	34269	Sphyrapicus varius	Yellow-bellied Sapsucker	2007-06-19	D?	2-High	---	Significantly Rare	G5	S2S3B, S5N
Dragonfly or Damselfly	33442	Calopteryx amata	Superb Jewelwing	2004-Pre	H?	5-Very Low	---	Significantly Rare	G5	S1S2
Freshwater or Terrestrial Gastropod	923	Glyphyalinia clingmani	Fragile Glyph	1985-Pre	H	4-Low	---	Endangered	G1	S1

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 or Terrestrial Gastropod	13177	Glyphyalinia vanattai	Honey Glyph	1902-Pre	H	4-Low	---	Special Concern	G2G3	S1
Freshwater or Terrestrial Gastropod	15995	Pallifera hemphilli	Black Mantleslug	1902-Pre	H	4-Low	---	Special Concern	G4	S2S3
Lichen	25736	Gymnoderma lineare	Rock Gnome Lichen	2007-06-14	AB	2-High	Endangered	Endangered	G3	S3
Mammal	10334	Glaucomys sabrinus coloratus	Carolina Northern Flying Squirrel	2017-03-09	E	2-High	Endangered	Endangered	G5T2	S2
Mammal	36292	Perimyotis subflavus	Tricolored Bat	2000-08-23	H?	4-Low	---	Significantly Rare	G2G3	S3
Mammal	14894	Sorex dispar blitchi	Southern Rock Shrew	2005-08-24	A	3-Medium	---	Significantly Rare	G4T3T4	S3
Mammal	13320	Sylvilagus obscurus	Appalachian Cottontail	2007-06-18	E	3-Medium	---	Game Animal	G4	S3
Moss	23431	Hylocomiastrum umbratum	Shaded Feather Moss	1963-10-26	H	4-Low	---	Significantly Rare Peripheral	G5	S1?
Natural Community	27629	Acidic Cove Forest (Typic Subtype)	---	2010	A	3-Medium	---	---	G5	S4
Natural Community	30051	High Elevation Red Oak Forest (Heath Subtype)	---	2010	A	4-Low	---	---	G4	S3
Natural Community	17823	High Elevation Red Oak Forest (Typic Herb Subtype)	---	2010	A	3-Medium	---	---	G4	S3
Natural Community	13978	High Elevation Rocky Summit (Typic Subtype)	---	1986	A?	3-Medium	---	---	G2	S2
Natural Community	32677	Northern Hardwood Forest (Beech Gap Subtype)	---	2013-07-02	A?	2-High	---	---	G1	S1S2
Natural Community	30191	Northern Hardwood Forest (Rich Subtype)	---	2010	A	3-Medium	---	---	G3	S3
Natural Community	11550	Northern Hardwood Forest (Typic Subtype)	---	2010	A	3-Medium	---	---	G3G4	S3

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
Natural Community	30136	Red Spruce--Fraser Fir Forest (Birch Transition Herb Subtype)	---	2014-07-10	A	4-Low	---	---	G2	S2
Natural Community	30194	Red Spruce--Fraser Fir Forest (Birch Transition Shrub Subtype)	---	2014-07-10	A	4-Low	---	---	G1?	S1
Natural Community	6031	Red Spruce--Fraser Fir Forest (Herb Subtype)	---	2014-07-10	A	3-Medium	---	---	G2	S2
Natural Community	30186	Red Spruce--Fraser Fir Forest (Low Rhododendron Subtype)	---	2011-08-02	B?	4-Low	---	---	G2?	S1
Natural Community	815	Red Spruce--Fraser Fir Forest (Rhododendron Subtype)	---	2014-07-10	B	4-Low	---	---	G1	S1S2
Natural Community	27628	Rich Cove Forest (Montane Intermediate Subtype)	---	2010	A	3-Medium	---	---	G4	S4
Natural Community	27639	Rich Montane Seep	---	2007-08-15	AB	3-Medium	---	---	G3	S3
Natural Community	27646	Rich Montane Seep	---	2007-06-14	B	2-High	---	---	G3	S3
Vascular Plant	33645	Aconitum reclinatum	Trailing Wolfsbane	1897-08-07	H	4-Low	---	Significantly Rare Throughout	G3G4	S3
Vascular Plant	3912	Aconitum reclinatum	Trailing Wolfsbane	1986-07-25	C	3-Medium	---	Significantly Rare Throughout	G3G4	S3
Vascular Plant	25734	Aconitum reclinatum	Trailing Wolfsbane	2006-07-09	BC	3-Medium	---	Significantly Rare Throughout	G3G4	S3
Vascular Plant	25043	Betula cordifolia	Mountain Paper Birch	1993-06-02	BC	2-High	---	Special Concern Vulnerable	G5T5	S1

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
Vascular Plant	25723	Cardamine clematitis	Mountain Bittercress	2007-08-22	AB	3-Medium	---	Significantly Rare Throughout	G3	S2S3
Vascular Plant	2738	Diervilla rivularis	Riverbank Bush-honeysuckle	1918-06-12	H	4-Low	---	Threatened	G3	S1
Vascular Plant	16260	Lilium grayi	Gray's Lily	1989-Pre	E	4-Low	---	Threatened	G1G2	S1S2
Vascular Plant	11954	Lilium grayi	Gray's Lily	1898-06-22	H	3-Medium	---	Threatened	G1G2	S1S2
Vascular Plant	19055	Platanthera grandiflora	Large Purple-fringed Orchid	1989-Pre	E	4-Low	---	Threatened	G5	S2
Vascular Plant	14007	Streptopus amplexifolius var. amplexifolius	White Mandarin	2007-06-14	A	3-Medium	---	Special Concern Vulnerable	G5T5	S1
Vascular Plant	12023	Streptopus amplexifolius var. amplexifolius	White Mandarin	1992	D	3-Medium	---	Special Concern Vulnerable	G5T5	S1

Natural Areas Documented Within a One-mile Radius of the Project Area

Site Name	Representational Rating	Collective Rating
Brush Fence Ridge/Point Misery	R2 (Very High)	C1 (Exceptional)
North Fork Watershed	R1 (Exceptional)	C1 (Exceptional)
Mount Mitchell State Park	R1 (Exceptional)	C1 (Exceptional)
Cane River Upper Watershed	R1 (Exceptional)	C1 (Exceptional)
Walker Cove	R2 (Very High)	C3 (High)
FRB/Cane River Aquatic Habitat	R2 (Very High)	C3 (High)

Managed Areas Documented Within a One-mile Radius of the Project Area

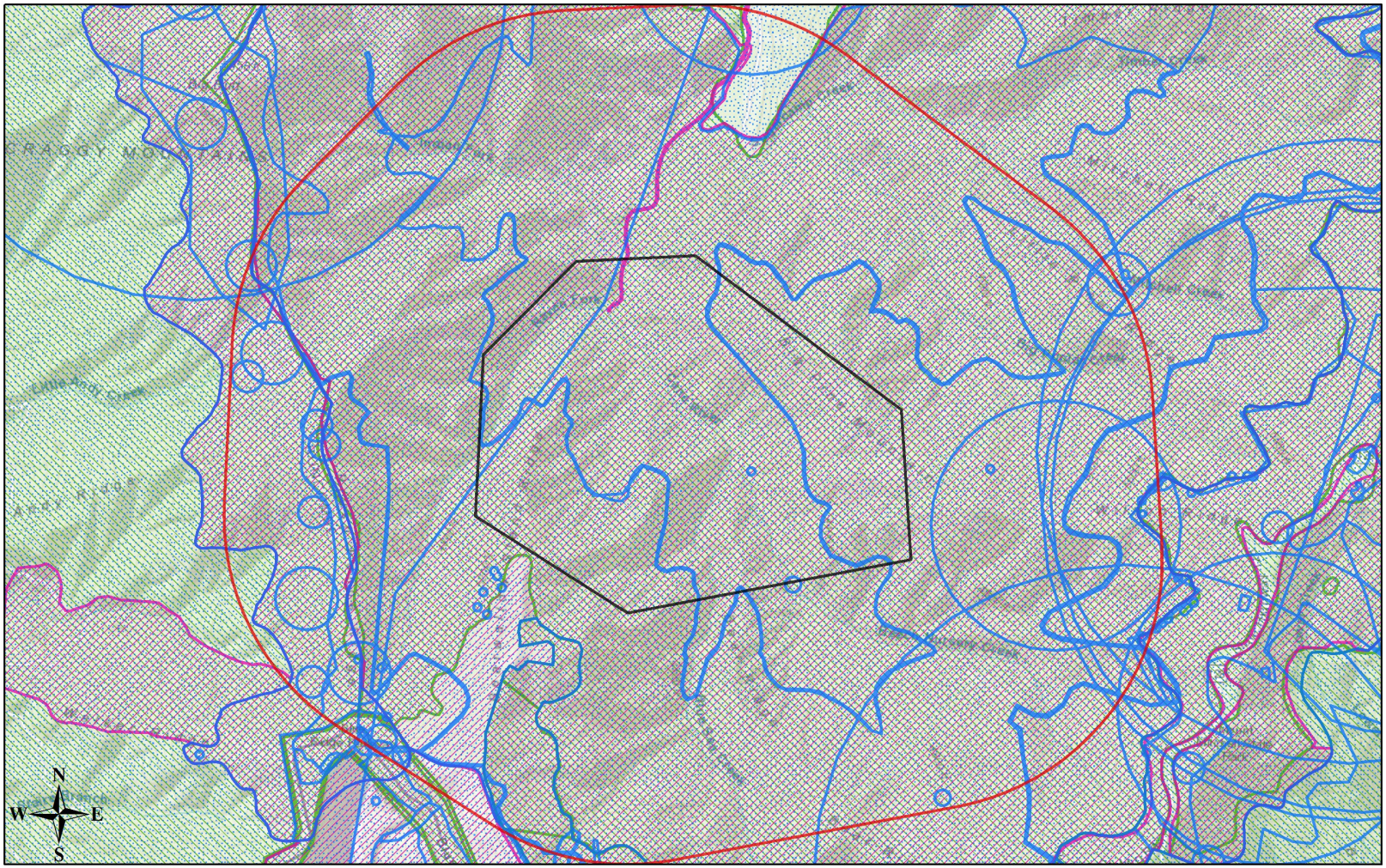
Managed Area Name	Owner	Owner Type
Pisgah National Forest - Appalachian Ranger District	US Forest Service	Federal
Blue Ridge Parkway	US National Park Service	Federal
Southern Appalachian Highlands Conservancy Easement	Southern Appalachian Highlands Conservancy	Private
Mount Mitchell State Park	NC DNCR, Division of Parks and Recreation	State
Mount Mitchell State Park Dedicated Nature Preserve	NC DNCR, Division of Parks and Recreation	State

Managed Areas Documented Within a One-mile Radius of the Project Area

Managed Area Name	Owner	Owner Type
North Fork Watershed (BRP/NPS) Registered Heritage Area	US National Park Service	Federal

Definitions and an explanation of status designations and codes can be found at https://ncnhde.natureserve.org/content/help. Data query generated on November 1, 2019; source: NCNHP, Q4 Oct 2019. 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-10622: Cane River Test Report 1



November 1, 2019

1:34,696

0 0.3 0.6 1.2 mi

0 0.475 0.95 1.9 km

- Project Boundary
- Buffered Project Boundary
- Natural Heritage Element Occurrence (NHEO)
- NHP Natural Area (NHNA)
- Managed Area (MAREA)

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community