

Prepared for:

Trillion Communications Corp.

NEPA Environmental Assessment

Proposed Broadband Infrastructure Project

April 2011

www.erm.com



Trillion Communications Corp. South Central Alabama Broadband Commission (SCABC)

NEPA Environmental Assessment

Proposed Broadband Infrastructure Project

April 2011

BTOP Grant Recipient: #5723 ERM Project Number: #0124648

Monte W. Alves

Project Manager

Kenneth E. Rosenbaum

Partner-in-Charge

Environmental Resources Management

300 Chastain Center Boulevard, Suite 375

Kennesaw, GA 30144

TABLE OF CONTENTS

	OF TA			ii
		PPENDI	ICES	iii
ACR	ONYM			iv
	EXE	CUTIVE	ESUMMARY	ES-1
1.0	INT	RODUC	TION	1-2
	1.1	PURI	POSE AND NEED	1- 3
2.0	PROPOSED ACTION			
	2.1	ALTE	RNATIVE A - PREFERRED ALTERNATIVE	2-1
	2.2	ALTE	RNATIVE B - NO-ACTION ALTERNATIVE	2-8
	2.3	ALTE	RNATIVES CONSIDERED BUT ELIMINATED FROM	1
		FURT	THER DISCUSSIONS	2-8
	2.4	DISC	REPANCIES BETWEEN PREVIOUSLY SUBMITTED	
		DOC	UMENTS	2-10
3.0	EXISTING ENVIRONMENT			3-1
	3.1	GENE	ERAL SETTING	3-2
	3.2	RESO	OURCE AREAS	3-4
		3.2.1	Noise	3-4
		3.2.2	Air Quality	3-5
		3.2.3	Climate, Greenhouse Gases, and Global Warming	3-5
		3.2.4	Geology and Soils	3-6
		3.2.5	Water Resources	3-8
		3.2.6	Biological Resources	3-10
			Historic and Cultural Resources	3-14
		3.2.8	Aesthetic and Visual Resources	3-20
		3.2.9	Land Use	3-21
		3.2.10	Infrastructure	3-22
		3.2.11	Socioeconomic Resources	3-23
		3.2.12	Human Health and Safety	3-24
4.0	ENVIRONMENTAL CONSEQUENCES			
	4.1		RNATIVE A - PREFERRED ALTERNATIVE	4-1
		4.1.1	Noise	4-1
		4.1.2	Air Quality	4-3
			Climate, Greenhouse Gases, and Global Warming	4-4
			Geology and Soils	4- 5
			Water Resources	4-5
		4.1.6	Biological Resources	4-8
			Historic and Cultural Resources	4_13

	4.1.8	Aesthetic and Visual Resources	4-14
		Land Use	4-10
		Infrastructure	4-16
		Socioeconomic Resources	4 - 17
		Human Health and Safety	4-18
		Cumulative Impacts	4-20
4.2	ALTERNATI	IVE B - NO ACTION ALTERNATIVE	4-21
	4.2.1	Noise	4-1
	4.2.2	Air Quality	4-1
		Climate, Greenhouse Gases, and Global Warming	4-1
		Geology and Soils	4-2
		Water Resources	4-2
	4.2.6	Biological Resources	4-2
		Historic and Cultural Resources	4-2
	4.2.8	Aesthetic and Visual Resources	4-2
	4.2.9	Land Use	4-2
	4.2.10	Infrastructure	4-2
		Socioeconomic Resources	4-2
	4.2.12	Human Health and Safety	4-3
		Cumulative Impacts	4-3
5.0	APPLICABL	E PERMITS AND REGULATORY REQUIREMENTS	5-1
6.0	AGENCY CO	ONTACTS	6-1
7.0	LIST OF PR	EPARERS	7-1
8.0	REFERENCI	ES	8-1

LIST OF TABLES

Table 2-1	Proposed Remote Terminal (RT) Locations Follow	wing Text
Table 2-2	Proposed Community Technology Center (CTC)Follow	ving Text
Table 2-3	Proposed WiMAX Radiocollocations Follow	ving Text
Table 2-4	Proposed River and Stream Crossings	ving Text
Table 2-5	Proposed Section 10 Crossings	ving Text
Table 3-1	Watersheds	3-9
Table 3-2	Threatened and Endangered Species and Critical Habitat	3-11
Table 5-1	Applicable Permits and Regulatory Requirements	
Table 6-1	Agency Contacts	
Table 7-1	List of Preparers	6-1

APPENDICES

- A FIGURES
- B PROJECT DESCRIPTION DETAILS
- C ENVIRONMENTAL CONSULTATION RECORDS
- D REFERENCE MANUALS
- E EMISSION CALCULATIONS
- F QUALIFICATIONS OF PREPARERS

ACRONYM LIST

Acronym	Description
°F	degrees Fahrenheit
AHC	Alabama Historical Commission
AL	Alabama
ALDIR	Alabama Department of Industrial Relations
ALDOT	Alabama Department of Transportation
APE	Area of Potential Effects
ARRA	American Recovery and Reinvestment Act
AQI	Air Quality Index
BMP	Best Management Practices
ВТОР	Broadband Technology Opportunities Program
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CTC	Community Technology Center
ADCNR	Alabama Department of Conservation and Natural
	Resources
DOC	Department of Commerce
EA	Environmental Assessment
EMS	Emergency Management Systems
EPA	Environmental Protection Agency
ERM	Environmental Resources Management
FCC	Federal Communications Commission
FTTP	fiber to the premises
GHG	Greenhouse Gases
HVAC	Heating, Ventilation and Air Conditioning
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NTIA	National Telecommunications and Information
	Administration
PL	Photo Location
ROW	Right-of-Way
RT	Remote Terminal
SAC	Special Award Conditions
SCABC	South Central Alabama Broadband Project
SHPO	State Historic Preservation Office
Trillion	Trillion Communications, Inc.
USACE	United States Army Corps of Engineers

USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WiMAX	Worldwide Interoperability for Microwave Access
WMA	Wildlife Management Area

EXECUTIVE SUMMARY

Environmental Resources Management, Inc. (ERM) has developed an Environmental Assessment (EA) on behalf of Trillion Communications, Inc. (Trillion), in support of Trillion's application for grant funding from the U. S. Department of Commerce (DOC) National Telecommunications and Information Administration (NTIA) Broadband Technology Opportunities Program (BTOP). BTOP funds projects that provide comprehensive community infrastructure, public computer centers, or sustainable broadband adoption in unserved or underserved areas of the United States. Grant funding has been made possible under the American Recovery and Reinvestment Act (ARRA) of 2009.

The NTIA, the lead agency which administers the BTOP grant program, has provided funding for NGN's infrastructure project for the purpose of enabling a new technology-based economy in South Central Alabama by deploying a regional fiber optic network. The result will be the improvement of broadband service in underserved areas, stimulation of economic growth and job creation, and increased availability of broadband for local households, businesses, and community anchor institutions.

Under the National Environmental Policy Act (NEPA) of 1969, the Council on Environmental Quality (CEQ) Regulations Implementing the Procedural Provisions of NEPA (40 CFR Parts 1500-1508), and the *Broadband Technology Opportunities Program NEPA and NHPA Guidance for Round Two Applicants* (DOC 2010a), BTOP is required to integrate environmental values into their decision making processes by considering the environmental impacts of their grant awards. This EA has been prepared in accordance with the *Broadband Technology Opportunities Program Environmental Assessment Guidance for BTOP Award Recipients, Version 1.4, dated August 2010* (DOC 2010b). This EA was prepared in support of the Trillion BTOP grant application (BTOP Grantee #5723) and to satisfy Special Award Conditions associated with the grant award.