OFFICE ESTIMATE

2@ 10x8 RCBC

Project# 17BP.11.R.97
TIP#
Let Date
WBS#

PREDESIGN-PRESURVEY REPORT

B-7

Bridge# 940083
Road# SR 1340 (MEAT CAMP ROAD)
Stream NORTH FORK NEW RIVER
HOSKINS CREEK

County WATAUGA (Div. 11)

Type Of Request: POC Force Account TIP NCMA

Date 4/16/14 Name wsh Assigned To RCH

Checked By

Prior Survey Date NONE (attach copy of prior survey) BRN. BK.: NO CO. FILE NO

Study By Scour Section NO

Flood Zone X Detail Study NONE Date 12/3/09 Panel# 2904

B.M. Info N/A

Quad Map ZION VILLE Drainage Area 1.2 SQ. MI. From STREAM STATS

Q25 450 cfs Q50 550 cfs Q100 650 cfs Method REG. 2 / RURAL REG. EQU.

LG 81°40'56.04" LAT: 36° 20' 54.80"

EXISTING BRIDGE INFORMATION

Location 0.3 MI. S. JCT. SR1341

Average Daily Traffic 740 (2011) 6% TRK.

Length 19 FT. Bed- To Crown 7' Water Depth 2'

Type Structure TIMBER FLR, JOIST, E. BTS., CAPS, POSTS, CONC. SILLS.

Type Spans 1@ 18', 6"

Upstream Structure NO NUMBERED STR. U/S (PIPE ON MEAT CAMP RD)

Location N/A

Bed- To Crown — Prior Survey —

Downstream Structure 940211 TIMBER FLR. ON I-BEAMS (LOW WATER TYPE).

Location SR 1340 (100' N. JCT SR 1341) ABUTS CONC.

Bed- To Crown 7' (2' DEEP) Prior Survey —

SCS Watershed N/A

ENVIRONMENTAL TVA: YES ✓

Trout Stream YES Anadromous Fish NO Primary Nursery Area NO

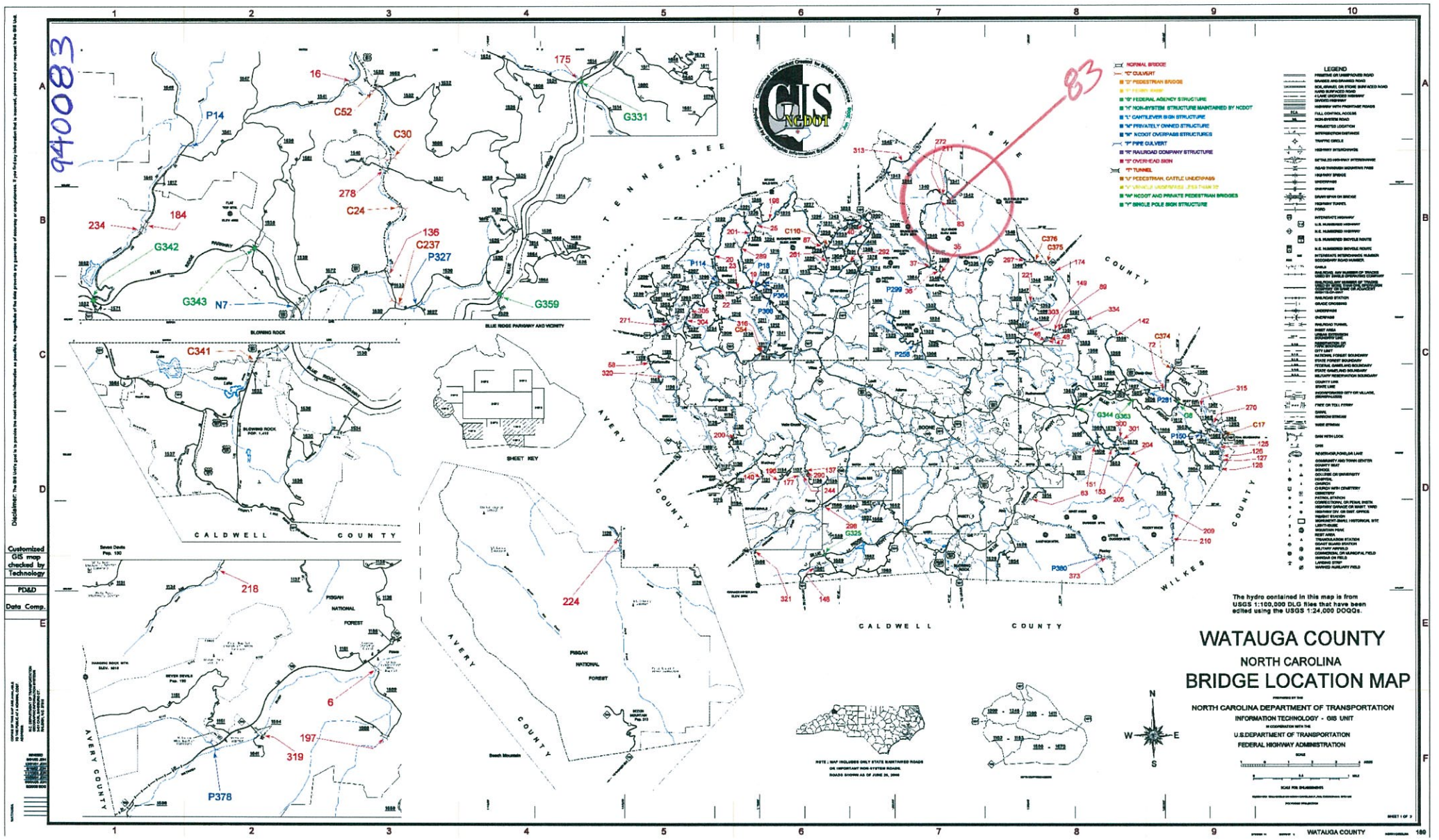
High Quality Waters NO Nutrient Sensitive Waters NO

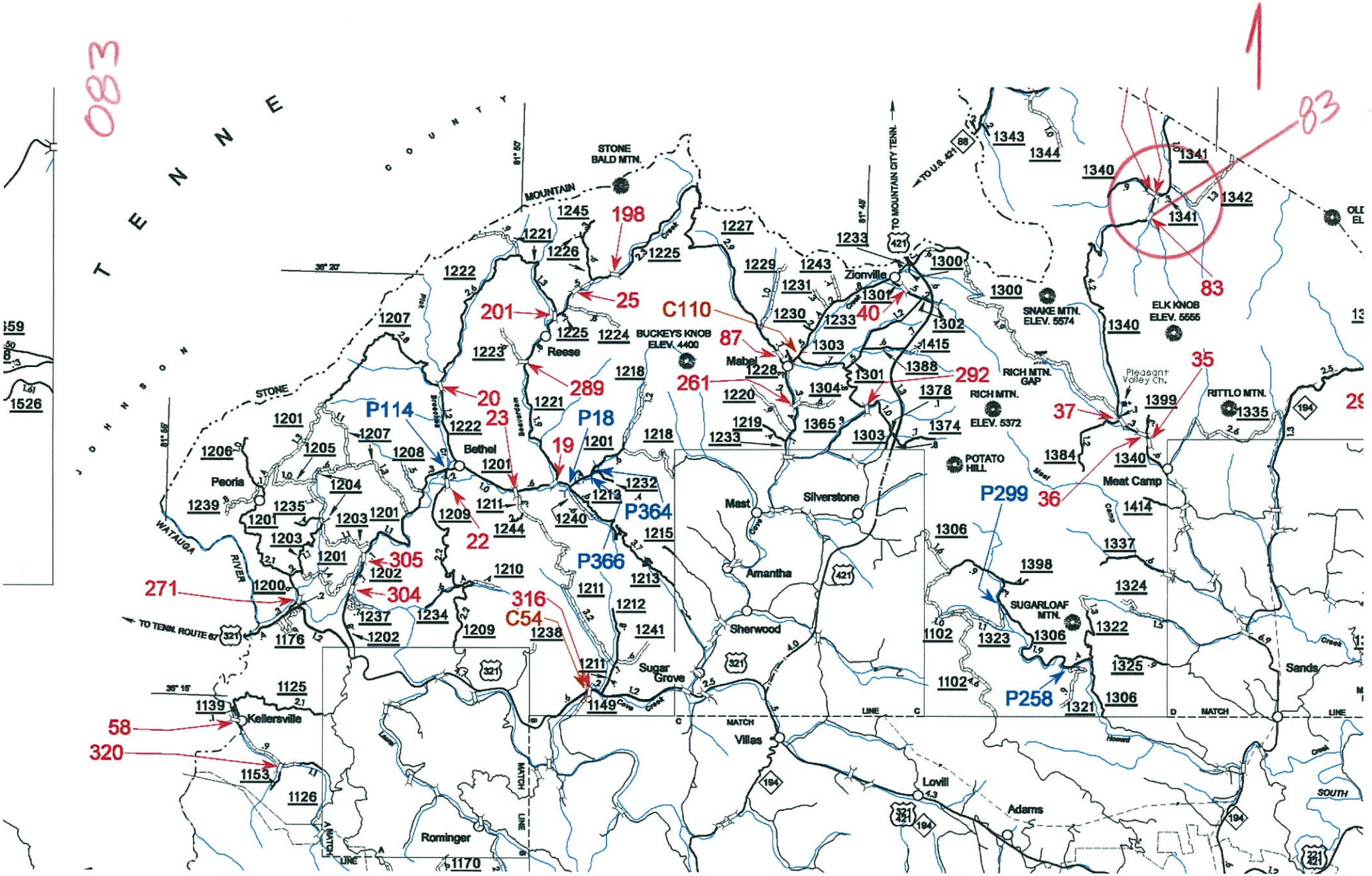
Near Water Supply Intake NO CAMA County NO

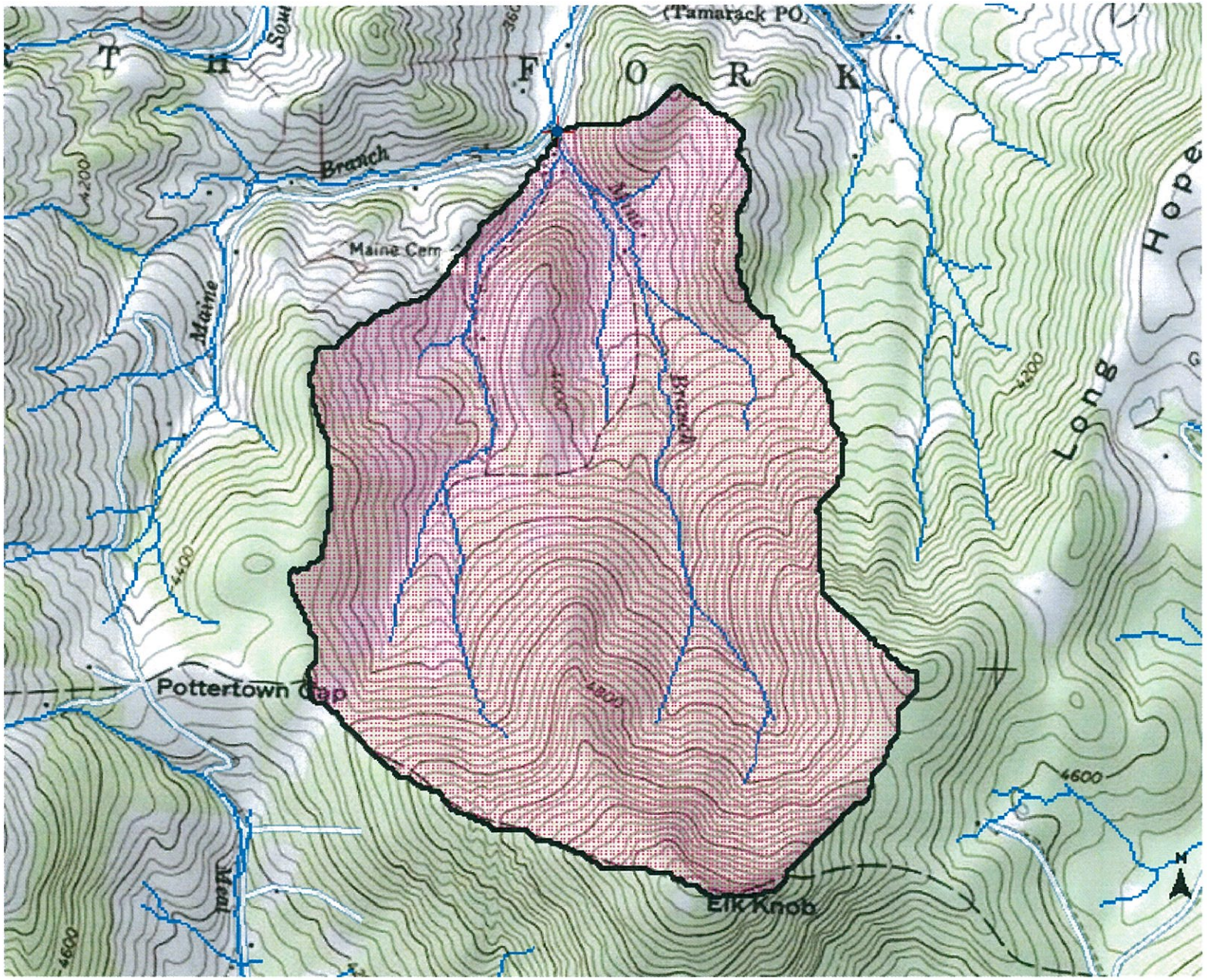
Stream Classification (C; Tr: +) 10-2-(1) (FROM SOURCE TO 3 TOP CREEK)

DENR River Basin Info. NEW

1, 4, 13, 17,


940083
83
WATAUGA COUNTY
NORTH CAROLINA
BRIDGE LOCATION MAP
PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
INFORMATION TECHNOLOGY - GIS UNIT
IN COOPERATION WITH THE
U.S.DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
The hydro contained in this map is from USGS 1:100,000 DLG files that have been edited using the USGS 1:24,000 DOQQs.
LEGEND
NORMAL BRIDGE
"C" CULVERT
"D" PEDESTRIAN BRIDGE
"F" FERRY RAMP
"G" FEDERAL AGENCY STRUCTURE
"H" NON-SYSTEM STRUCTURE MAINTAINED BY NCDOT
"L" CANTILEVER SIGN STRUCTURE
"N" PRIVATELY OWNED STRUCTURE
"P" NCDOT OVERPASS STRUCTURES
"P" PIPE CULVERT
"R" RAILROAD COMPANY STRUCTURE
"S" OVER-HEAD SIGN
"T" TUNNEL
"U" PEDESTRIAN, CATTLE UNDERPASS
"V" VEHICLE UNDERPASS - 7'6.5 THAN 20'
"W" NCDOT AND PRIVATE PEDESTRIAN BRIDGES
"Y" SINGLE POLE SIGN STRUCTURE
TENNESSEE
AVERY COUNTY
CALDWELL COUNTY
WILKES COUNTY
BLOWING ROCK
BLUE RIDGE PARKWAY AND VICINITY
SHEET KEY
Pisgah National Forest
Customized GIS map checked by Technology
PD&D
Data Comp.
Disclaimer:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
INFORMATION TECHNOLOGY - GIS UNIT
WATAUGA COUNTY


083
1
83
TENNESSEE
JOHNSON
STONE
MOUNTAIN
STONE BALD MTN.
BUCKEYS KNOB ELEV. 4400
SNAKE MTN. ELEV. 5574
ELK KNOB ELEV. 5555
RICH MTN. GAP
RICH MTN. ELEV. 5372
RITTLO MTN.
POTATO HILL
SUGARLOAF MTN.
Zionville
Reese
Mabel
Bethel
Peoria
Mast
Silverstone
Amantha
Sherwood
Sugar Grove
Villas
Lovill
Adams
Kellersville
Romnger
Meat Camp
Pleasant Valley Ch.
Sands
WATAUGA RIVER
TO TENN. ROUTE 67
TO MOUNTAIN CITY TENN.
TO U.S. 421
MATCH LINE
198
25
201
C110
87
40
289
20
261
292
35
P114
23
P18
19
37
P364
22
P299
36
305
304
316
C54
271
58
320
P366
P258



WATAUGA 940083
DA = 1.2 SQ. MI.

USGS North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Tue Apr 22 2014 12:01:09 Mountain Daylight Time
Site Location: North_Carolina
NAD27 Latitude: 36.3482 (36 20 53)
NAD27 Longitude: -81.6823 (-81 40 56)
NAD83 Latitude: 36.3483 (36 20 54)
NAD83 Longitude: -81.6822 (-81 40 56)
Drainage Area: 1.22 mi2
Percent Urban: 0.3 %
Percent Impervious: 0.0 %

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (1.22 mi2)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1.22	1	9000
Percent Area in Region 1 (percent)	0.000	0	100
Percent Area in Region 2 (percent)	100.000	0	100
Percent Area in Region 3 (percent)	0.000	0	100
Percent Area in Region 4 (percent)	0.000	0	100
Percent Area in Region 5 (percent)	0.000	0	100

Urban Flows Region Grid Basin Characteristics			
100% Peak urban Blue Ridge-Piedmont FS007-00 (1.22 mi2)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1.22	0.04	41
Area of Impervious Surfaces (percent)	0.01 (below min value 2)	2	54.6

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Peak Flows Region Grid Streamflow Statistics					
Statistic	Flow (ft^3/s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
PK2	128	35		72.5	226
PK5	242	34		138	426
PK10	334	35		186	598
PK25	460	38		247	855
PK50	552	40		287	1060
PK100	663	42		332	1320
PK200	761	44		367	1570
PK500	914	48		419	1990

Urban Flows Region Grid Streamflow Statistics					
Statistic	Flow (ft^3/s)	Standard Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
PK2U	1.64				
PK5U	6.48				
PK10U	13				
PK25U	34.6				
PK50U	53.9				
PK100U	80.9				

083


SITE
1200000 FEET
81°43'0"W
81°42'30"W
81°42'0"W
81°41'30"W
81°41'0"W
81°40'30"W
81°40'0"W
81°39'30"W
1220000 FEET
81°39'0"W
960000 FEET
960000 FEET
36°21'30"N
36°21'0"N
36°20'30"N
36°20'0"N
Mast Gap Rd
Powell Rd
Snyder Branch Rd
Pleasant Valley Rd
WATAUGA COUNTY
UNINCORPORATED AREAS

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION NON-NBIS LENGTH = 15'-11"
TEMPORARY REPAIR

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection - Contract

COUNTY WATAUGA BRIDGE NUMBER 940083 INSPECTION CYCLE 0 YRS

ROUTE SR1340 ACROSS HOSKINS CREEK M.P. 0

LOCATION .3 MI.S.JCT.SR1341

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS:TIM.CAPS/TIM.POST&CONCRETE SILLS @ VAR.CTS.

SPANS 1 @ 18'-6

LONGITUDE 81° 40' 56.04" LATITUDE 36° 20' 54.80"

INSPECTION DATE 07/03/2013 PRESENT CONDITION FAIR

PRESENT POSTING Not Posted PROPOSED POSTING

OTHER SIGNS PRESENT (4) DELINEATORS



SOUTH APPROACH LOOKING NORTH

Fracture Critical	No
Temporary Shoring	No
Scour Critical	No
Scour POA	No

SIGN NOTICE ISSUED FOR		NUMBERED REQUIRED
No	WEIGHT LIMIT	
No	DELINEATORS	
No	NARROW BRIDGE	
No	ONE LANE BRIDGE	
No	LOW CLEARANCE	

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 08/14/2013

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
WATAUGA	11	2	940083	19 FEET

ROUTE CARRIED : SR1340

FEATURE INTERSECTED : MINE BRANCH

LOCATED : .3 MI.S.JCT.SR1341

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	740 2011	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1965	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
			TAN	120	ON 1 UNDER 0

NAVIGATION :					HT. CRN. TO BED :		WATER DEPTH :	
VC	0	FT	HC	0 FT	7	FT	2	FT

SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE : E.BTS:TIM.CAPS/TIM.POST&CONCRETE SILLS @ VAR.CTS.

SPANS : 1 @ 18'-6

BEAMS OR GIRDERS : 1 LN.6X12 TIM.JST.& 10 DBL.LNS.6X12 TIM.JSTS.@ VAR.CTS.

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/2 AWS	1 LN. UTILITY	17.833 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :	
15.667 FT	17.5 FT	LT .9 FT	RT .9 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		
HS-3	HS-4	IntJoists	SV	TTST	DATE 08/04/2005

SYSTEM : Secondary S.R. Route

GREEN LINE ROUTE : N

UNDER ROUTES AND CLEARANCES

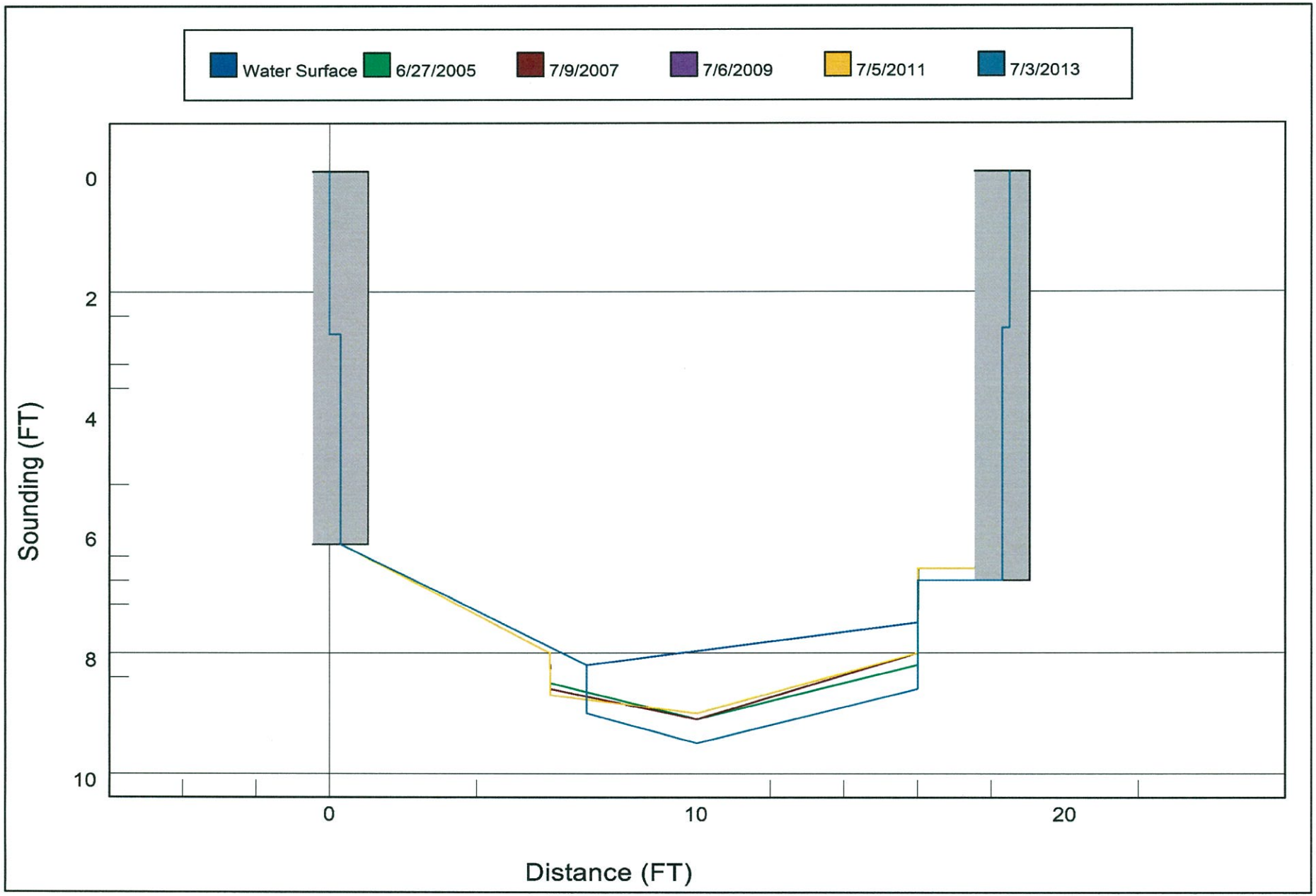
REMARKS :

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Bridge: 940083 County WATAUGA Date: 07/03/2013

STREAMBED PROFILE (Downstream)

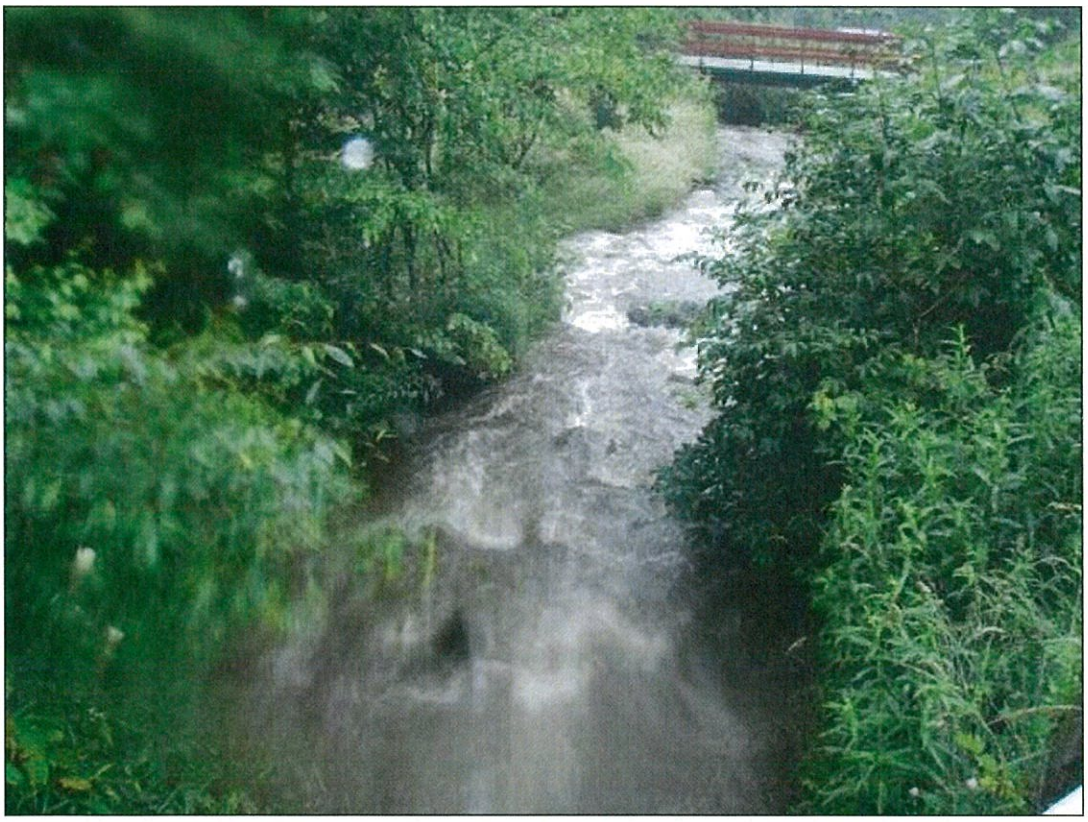
Top of Rail = 0 FT (Sounding)



Structure 940083 County WATAUGA Date: 07/03/2013 Structure Photos



NORTH APPROACH LOOKING SOUTH



LOOKING DOWNSTREAM (WEST)