

OFFICE ESTIMATE

2 @ 10x10 RCB

PREDESIGN-PRESURVEY REPORT

Project# _____

TIP# _____

Let Date _____

WBS# 17.BP.14.R.94

County HAYWOOD (Div. 14)

Bridge# 430273

Road# SR 1346

Stream MESSER CRK
BRANCH

Type Of Request: POC Force Account TIP NCMA

Date 8/27/13 Name Nsh

Assigned To RCH

Checked By _____

Prior Survey Date NONE (attach copy of prior survey) BB NO CO. FILE NO

Study By Scour Section NONE

Flood Zone X Detail Study NONE Date _____ Panel# 8702

B.M. Info N/A 1.0 sq mi.

Quad Map _____ Drainage Area 0.98 sq mi From STREAMSTATS

Q25 = 400 cfs Q50 = 480 cfs Q100 600 cfs Method RURAL REGION 2
REG EQU.

EXISTING BRIDGE INFORMATION

Location 1 Mi. E. Jct: SR 1347

Average Daily Traffic 220 (2000) 6% TRK

Length 19 Bed- To Crown 9' Water Depth 1'

Type Structure TIMBER FLR. ON TIM. JOIST, F.BTS, CAP POST & SILLS TIMBER

Type Spans 1 @ 18' 6"

Upstream Structure NO NUMBERED STR. UPSTREAM

Location _____

Bed- To Crown _____ Prior Survey _____

Downstream Structure FLows DIRECTLY INTO RIVER

Location _____

Bed- To Crown _____ Prior Survey _____

SCS Watershed _____

(ESM - YELLOW - UNDESIGNATED)

ENVIRONMENTAL

TVA: YES

Trout Stream NO Anadromous Fish NO Primary Nursery Area NO

High Quality Waters NO Nutrient Sensitive Waters NO

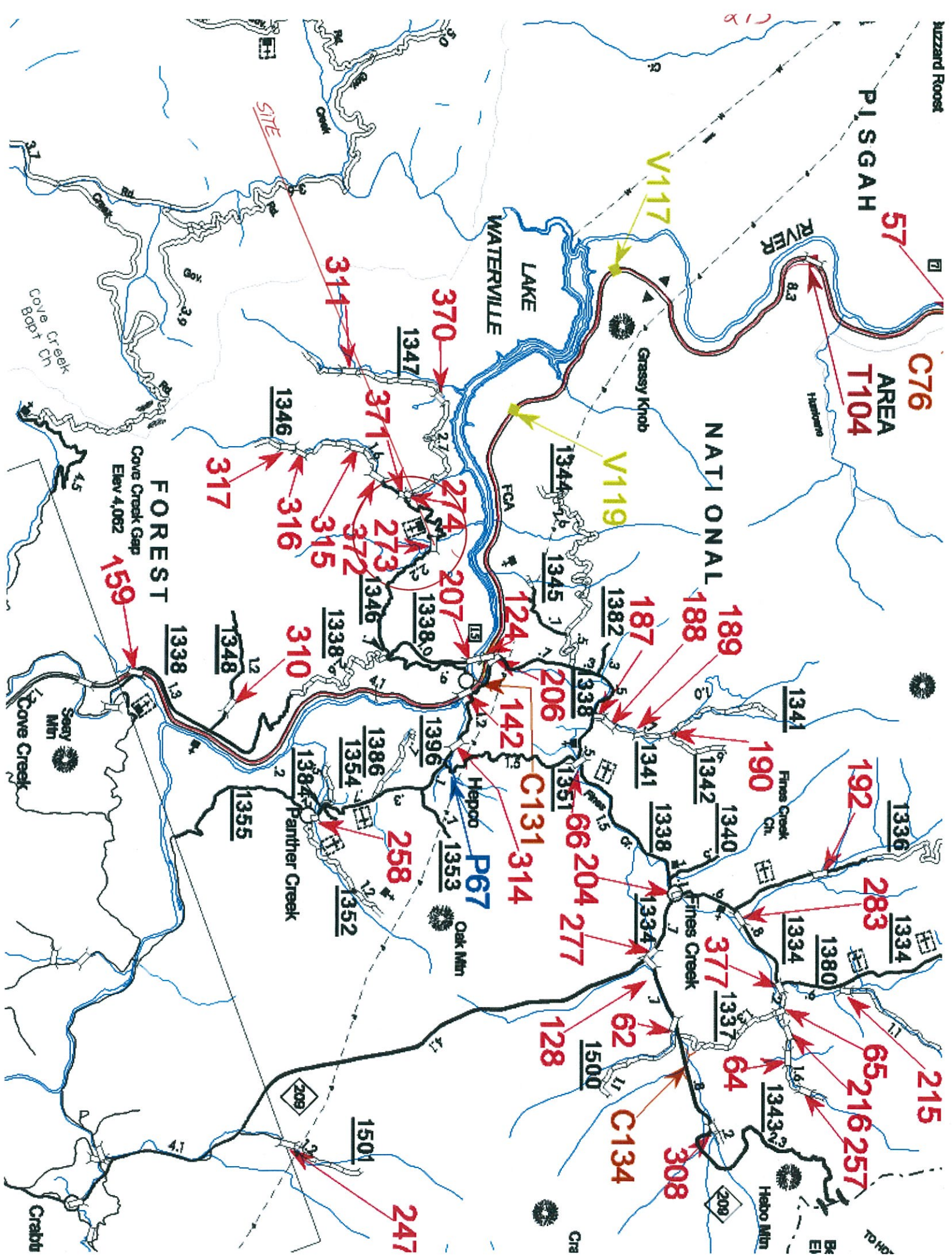
Near Water Supply Intake NO CAMA County NO

Stream Classification C 04-03-05

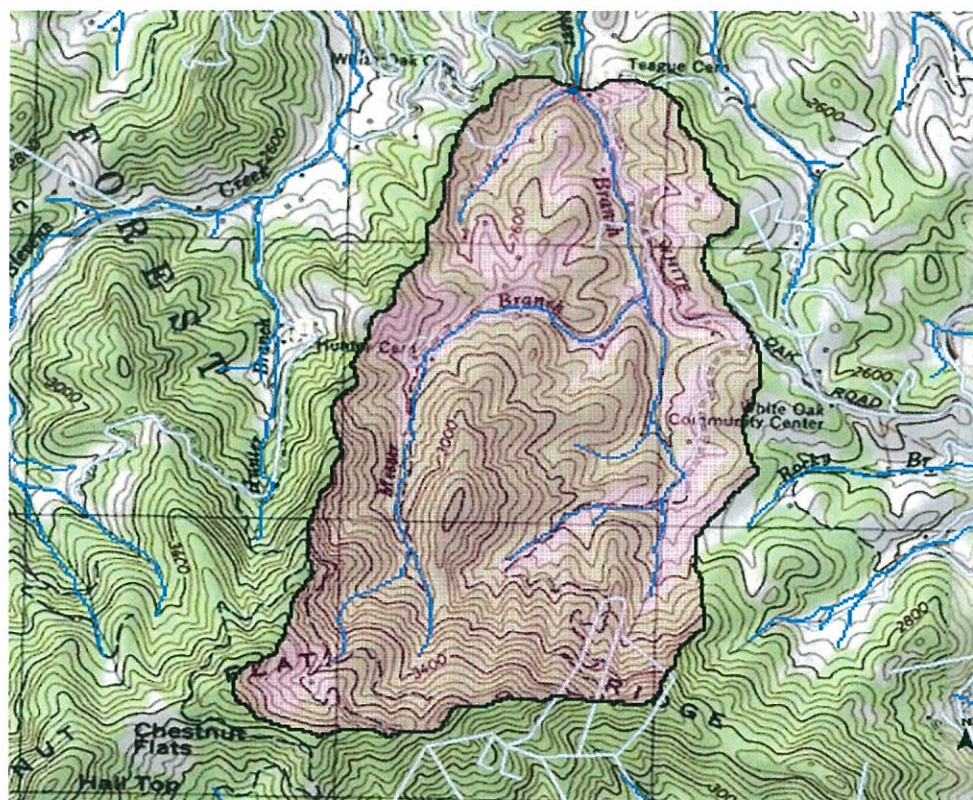
DENR River Basin Info. FRENCH BROAD

LAT: 35-3956.62

LONG: 83-00-49.25



StreamStats Print Page



Explanation

- ★ GlobalWatershedPoint
- Stp1000Point
- NCDOT Points
- ▲ LocalGages
- ▲ Gaging Station, Continuous Record
- ▲ Low Flow, Partial Record
- ▲ Peak Flow, Partial Record
- ▲ Peak and Low Flow, Partial Record
- ▲ Stage Only
- ▲ Low Flow, Partial Record, Stage
- ▲ Miscellaneous Record
- ▲ Unknown
- LocalHND2
- LongestFlowpath3D
- Stream Grid
- GlobalWatershed
- Pilot Study Area
- hucpoly

0.3 0.15 0 0.3 Miles

8/28/2013 6:44:36 AM



North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Wed Aug 28 2013 06:45:04 Mountain Daylight Time

Site Location: North_Carolina

NAD27 Latitude: 35.6659 (35 39 57)

NAD27 Longitude: -83.0140 (-83 00 50)

NAD83 Latitude: 35.6660 (35 39 57)

NAD83 Longitude: -83.0139 (-83 00 50)

Drainage Area: 0.98 mi²

Percent Urban: 4.4 %

Percent Impervious: 0.1 %

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (0.98 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.98 (below min value 1)	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

"USE 1.0 SQ. MILE" RCH

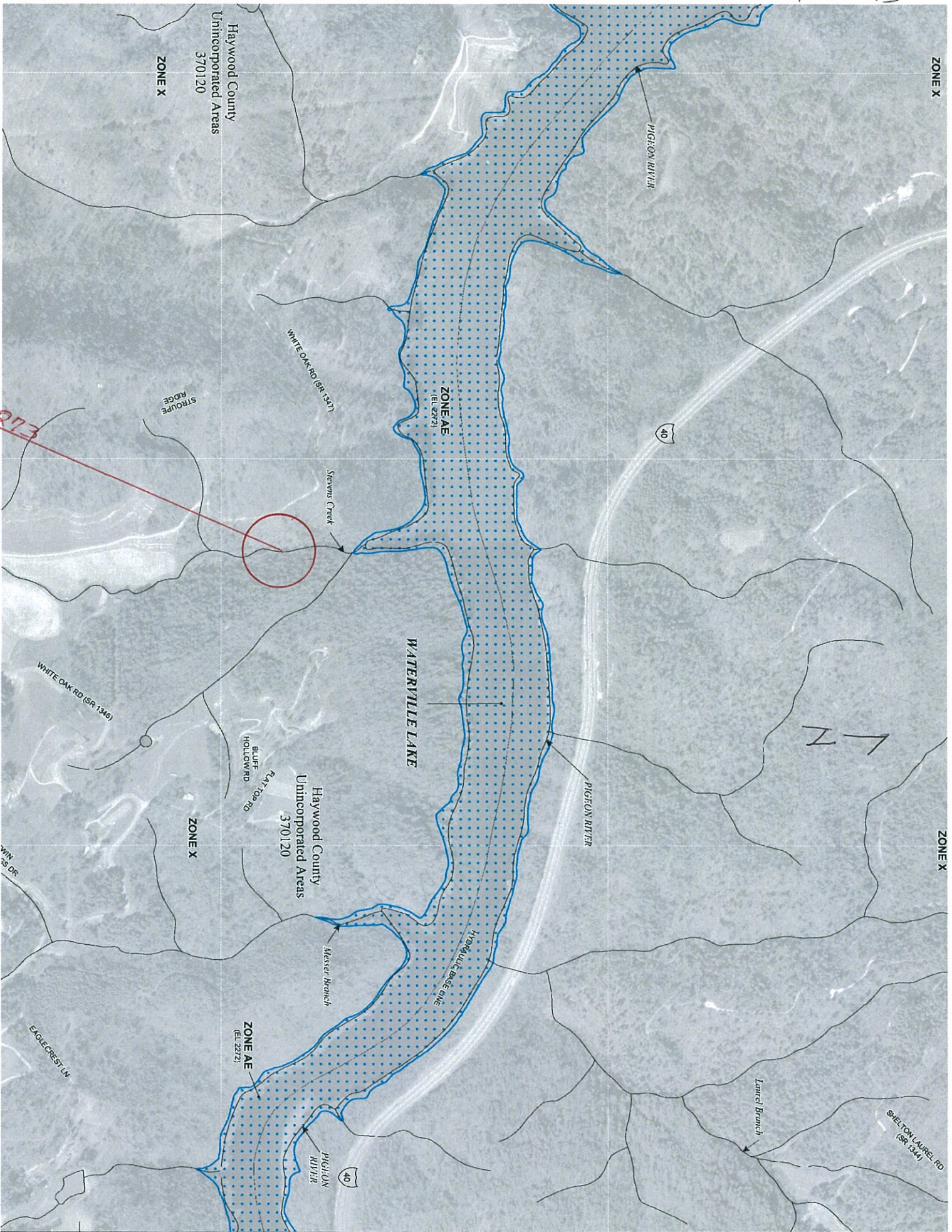
Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Urban Flows Region Grid Basin Characteristics			
100% Peak urban Blue Ridge-Piedmont FS007-00 (0.98 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.98	0.04	41
Area of Impervious Surfaces (percent)	0.15 (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	108				
PK5	206				
PK10	284				
PK25	392				
PK50	472				
PK100	567				
PK200	651				
PK500	783				

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	8.93				
PK5U	26.3				
PK10U	45.3				
PK25U	98.5				
PK50U	138				
PK100U	187				



ZONE X

ZONE X

PIGEON RIVER

PIGEON RIVER

ZONE AE
(EL. 2272)

WATERVILLE LAKE

Haywood County
Unincorporated Areas
370120

ZONE X

ZONE AE
(EL. 2272)

Meister Branch

Laurel Branch

SHELTON LAUREL RD
(SR 1344)

40

40

Haywood County
Unincorporated Areas
370120

ZONE X

STROUPE
RIDGE

WHITE OAK RD (SR 1341)

WHITE OAK RD (SR 1346)

FLAT TOP RD
BLUE
HOLLOW RD

EAGLECREST LN

JOINS PANEL 8712

3850 000 M

35°40'30"

3848 000 M

35°40'00"



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMP. REPAIR - SUBSTRUCTURE ADDITIONS
SOMETIME IN THE PAST.

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY HAYWOOD BRIDGE NUMBER 430273 INSPECTION CYCLE 2 YRS
ROUTE SR1346 ACROSS CREEK M.P. 0

LOCATION 1 MI.E.JCT.SR1347

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS:TIM.CAP/TIM.P&S/CONC.FTG.(WIDENED EXISTING STRUCTURE)

SPANS 1 @ 18'-6

LONGITUDE 83° 0' 49.3"

LATITUDE 35° 39' 56.6"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 03/08/2011

OPERATING RATING

PRESENT POSTING SV 26 TTST 99

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT DELINEATORS [4]



LOOKING EAST

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

<u>No</u>	WEIGHT LIMIT	<u></u>
<u>No</u>	DELINEATORS	<u></u>
<u>No</u>	NARROW BRIDGE	<u></u>
<u>No</u>	ONE LANE BRIDGE	<u></u>
<u>No</u>	LOW CLEARANCE	<u></u>

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 04/15/2011

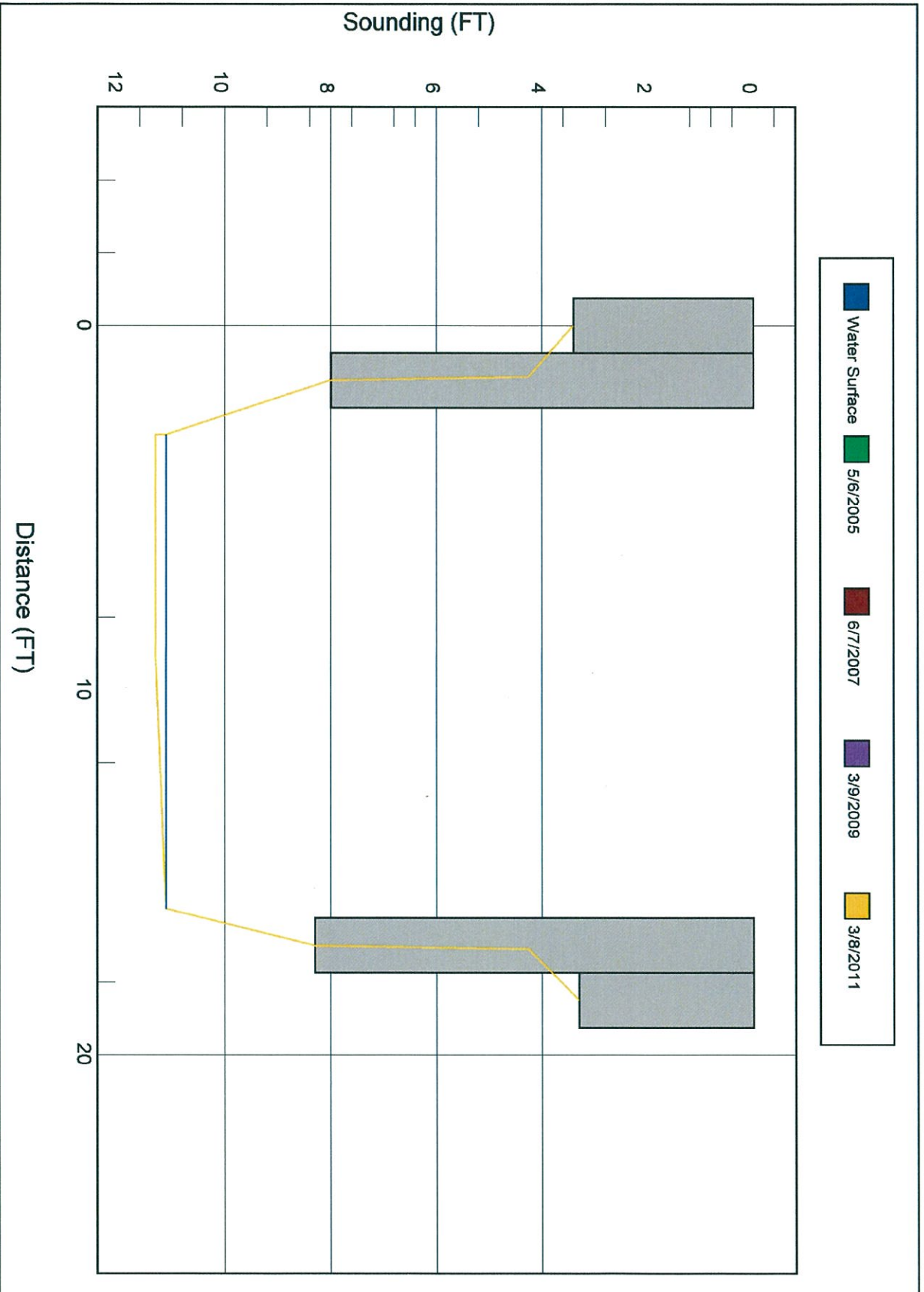
COUNTY : HAYWOOD		DIV : 14		DIST : 2		STRUCTURE NUMBER : 430273		LENGTH : 19 FEET	
ROUTE CARRIED : SR1346				FEATURE INTERSECTED : CREEK					
LOCATED : 1 MI.E.JCT.SR1347				BRIDGE NAME :				CITY :	
FUNC. CLASS : 09		SYST.ON : NFA		SYST.UNDER : NFA		ADT & YR : 220 2000		RAIL TYPE : LT 227 RT 227	
BUILT : 1958		BY : BMU		PROJ :		FED.AID PROJ :		DESIGN LOAD : Other or Unknown	
REHAB : 1992		BY : BMU		PROJ : 6.942310		ALIGNMENT : TAN		SKEW : 45	
								LANES : ON 2 UNDER	
NAVIGATION : VC 0.0 FT HC 0.0 FT				HT. CRN. TO BED : 9 FT				WATER DEPTH : 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS									
SUBSTRUCTURE : E.BTS:TIM.CAP/TIM.P&S/CONC.FTG.(WIDENED EXISTING STRUCTURE)									
SPANS : 1 @ 18'-6									
BEAMS OR GIRDERS : 25 LINES 6X12 TIMBER JOISTS @ 1'.0625 CENTERS									
FLOOR : 4X8 TIM/1.5 AWS		ENCROACHMENT :				DECK (OUT TO OUT) : 25.9 FT			
CLEAR ROADWAY : 25.0 FT		BETWEEN RAILS : 25.7 FT				SIDEWALK OR CURB : LT 0.3 FT RT 0.3 FT			
VERT.CL.OVER : 99 FT 99 IN		VERT.CL.UNDER : 00 FT 00 IN				HOR.CL.UNDER : 0.0 FT			
INV.RTG. : HS-1		OPE.RTG. : HS-1		CONTR.MEMBER : IntJoist		POSTED : SV 26 TTST LGW DATE 06/17/2009			
SYSTEM : Secondary S.R. Route						GREEN LINE ROUTE : N			
2ND OPENING :		3RD OPENING :		4TH OPENING :		5TH OPENING :			
REMARKS :									

Bridge: 430273

County HAYWOOD

Date: 03/08/2011

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)



UPSTREAM



REP. OF END BENTS 1 AND 2. PHOTO WAS TAKEN OF END BENT 2.