

Trout

office estimate
26 103"X71" CSPA
Mia Brg = 40'
No FEMA No MOA
No state storm water

Print Record

Form PDR Action PDR P/P 412

GENERAL INFO

Date 5/24/2011 Div WBS TIP #
13 Proj #
Let Date

County YANCEY Bridge # 990037
Road # SR 1317 Road Name: BIG BRUSH CREEK RD

Stream BRUSH CR

Req Type Name Assigned To Checked By
Prior Survey Survey Date Recommendation
Study by Scour Section

DRAINAGE INFO

Flood Zone NO Panel # 0843 Study Type NO STUDY Study Date 6/2/2009

IS THERE A HEC-RAS TYPE MODEL ☐

BM info
Quad MICAVILLE
Drainage Area 2.3 Sq. Mi. DA Source QUAD
Q25 730 cfs Q 50 870 cfs Q100 1040 cfs
METHOD USGS REGRESSION EQUATION BASIN TYPE REGION 2

EXISTING INFO

Location 264 FT N.JCT.SR1318
GPS CO-ORD(Dec) 82.2323 35.9916
OAL 16 B-C 7 Depth 1
ADT 220 Skew 120 Stream Slope
STRUCTURE TYPE TIMBER DECK/ TIMBER JOISTS
Spans 1 @ 16'-0

UP STREAM INFO

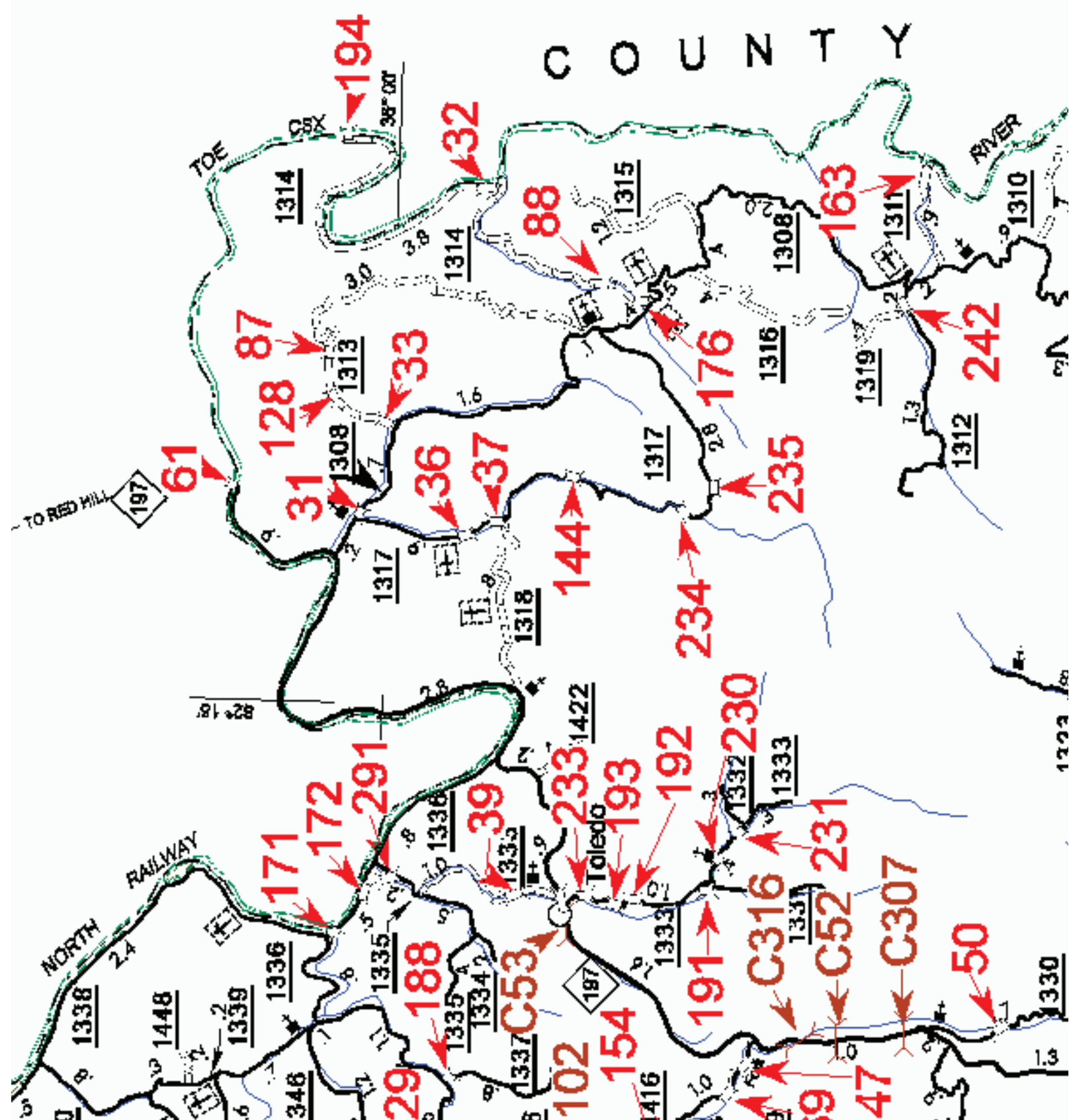
US Structure US Road # US Str OAL
US Location
US B-C US Prior survey

DOWN STREAM INFO

DS Structure DS Road # DS Str OAL
DS Location
DS B-C DS Prior survey SCS Watershed

ENVIRONMENTAL INFO

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
DENR RIVER BASIN FRENCH BROAD





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

SHORED

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY YANCEY BRIDGE NUMBER 990037 INSPECTION CYCLE 2 YRS
ROUTE SR1317 ACROSS CREEK M.P. 0

LOCATION .05 MI.N.JCT.SR1318

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOIST

SUBSTRUCTURE E.BTS:TIMBER CAP/TIMBER POST&SILLS @ VAR. CENTERS

SPANS 1 @ 16'

LONGITUDE 82° 13' 56.1"

LATITUDE 35° 59' 29.6"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 07/15/2009

OPERATING RATING

PRESENT POSTING SV 11 TTST 21 SV-11, TTST-19

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT Delineators



NORTH

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: 09/28/2009

COUNTY : YANCEY	DIV : 13	DIST : 2	STRUCTURE NUMBER : 990037	LENGTH : 16	FEET
ROUTE CARRIED : SR1317			FEATURE INTERSECTED : CREEK		
LOCATED : .05 MI.N.JCT.SR1318			BRIDGE NAME :		
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 220 2007	RAIL TYPE : LT 227 RT 227	
BUILT : 1959	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : Other or Unknown	
REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 120	LANES : ON 2 UNDER
NAVIGATION : VC 0.0 FT		HT. CRN. TO BED : HC 0.0 FT		WATER DEPTH : 7 FT 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS					
SUBSTRUCTURE : E.BTS.& CRUTCH BT:TIM. CAPS/TIM. POST&SILLS @ VAR. CENTERS					
SPANS : 1 @ 8'-9.8", 1 @ 7'-2.2"					
BEAMS OR GIRDERS : 10 LINES 6X12 TIMBER JOISTS @ 2'-.5" CENTERS					
FLOOR : 4X8 TIM/5"AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 20.2 FT		
CLEAR ROADWAY : 19.2 FT	BETWEEN RAILS : 19.8 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-21	OPE.RTG. : HS-29	CONTR.MEMBER :	POSTED : SV	TTST	DATE 09/28/2009
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N		
2ND OPENING :		3RD OPENING :		4TH OPENING : 5TH OPENING :	
REMARKS :					

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 990037 County: YANCEY Date: 07/15/2009 By: RWS

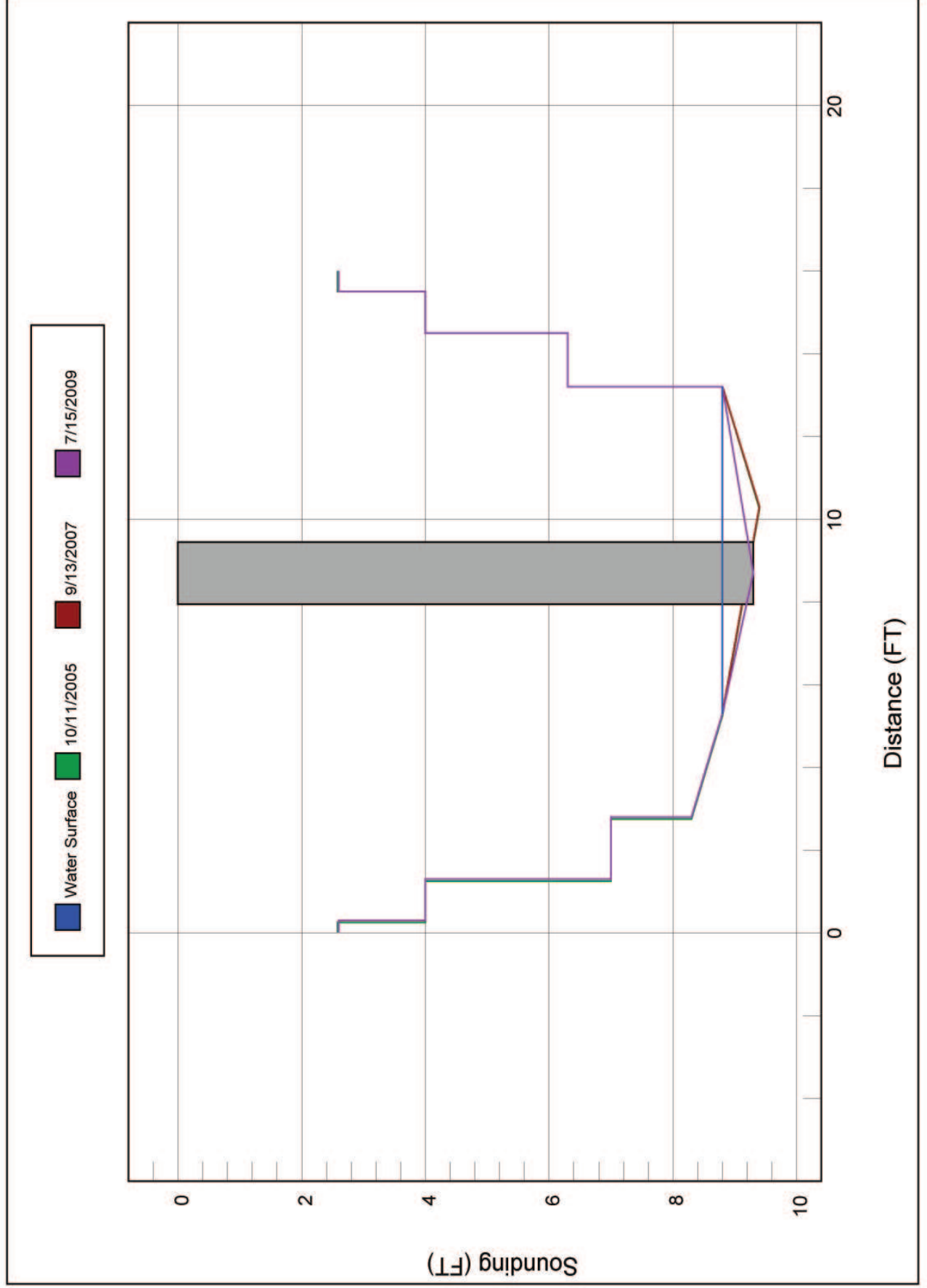
Record sounding from top of rail. Other location if needed: _____

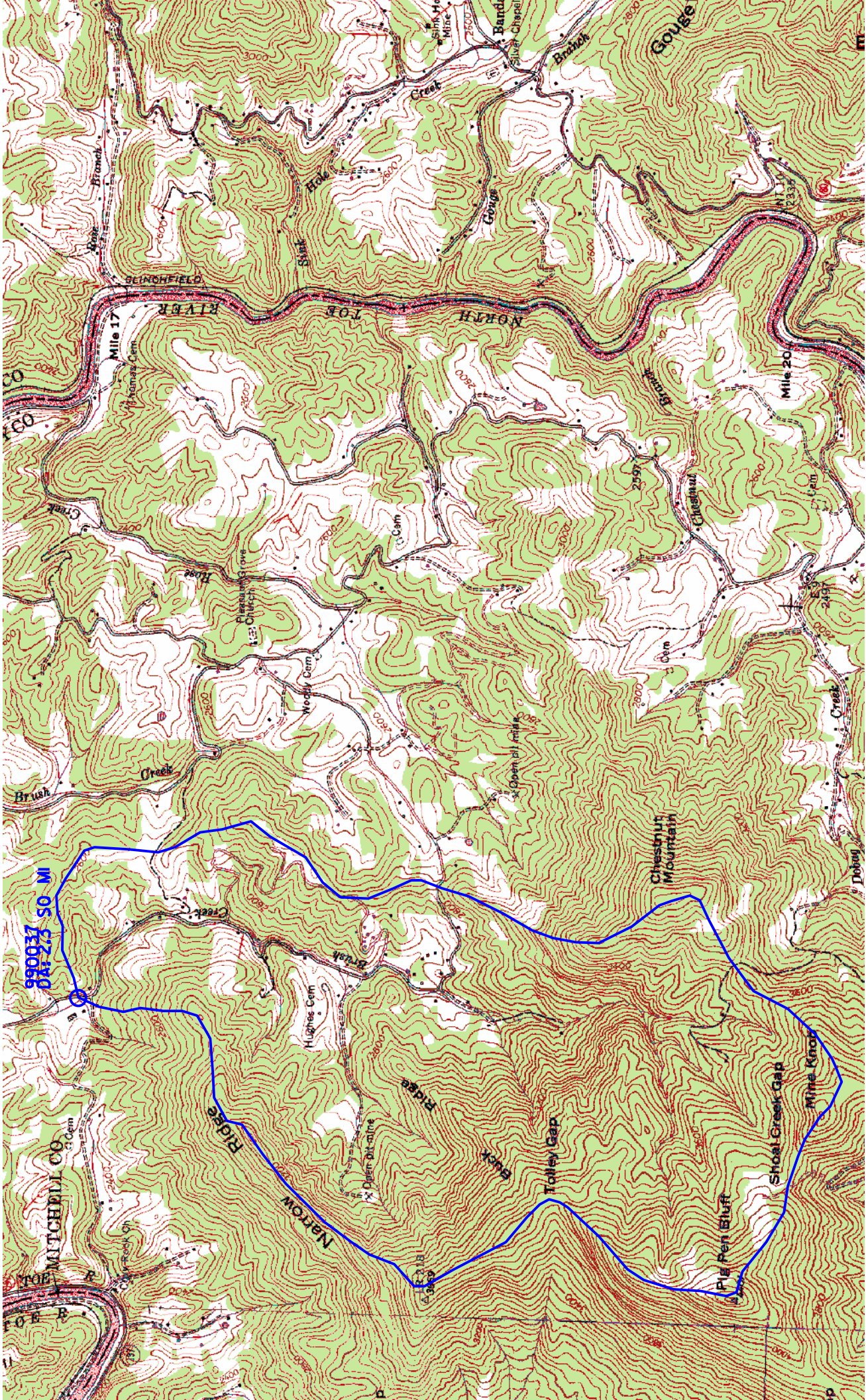
Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.6				
0.3	2.6				
0.3	4				
1.3	4				
1.3	7				
2.8	7				
2.8	8.3				
5.3	8.8	Water Surface/Water Edge (WSWE)			
8.697	9.3	Bent			
13.2	8.8	Water Surface/Water Edge (WSWE)			
13.201	6.3				
14.5	6.3				
14.501	4				
15.5	4				
15.501	2.6				
16	2.6				

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)





990037
DA-273 SO MI

MITCHELL CO
TOE B

Narrow Ridge

Ridge

Back

Trolley Gap

Pig Pen Bluff

Short Creek Gap

Mine Knob

Chestnut Mountain

Gouge

NORTH FOR RIVER

SEINFELD

Mile 17

Mile 20

Chastnut

Plasma Grove

Woodley Cem

Hughes Cem

Quinn Out-crope

Goen all mine

Cam

Cem

Cem

Cem

Cem

Cem

Cem

Cem

Cem

Cem

This spreadsheet computes the 50-, 20-, 10-, 4-, 2-, 1-, 0.5-, and 0.2-percent chance exceedance flows for an ungaged site in Georgia, South Carolina, and North Carolina. The spreadsheet also includes the 95-percent prediction intervals, the minus and plus standard error of prediction intervals, and the average standard error of prediction. To use the spreadsheet, enter requested information in the yellow cells below.

Enter a site-description name: YANCEY_990037

Enter the explanatory variables:

Drainage area, in square miles	2.3
Percent of basin in Hydrologic Region 1	
Percent of basin in Hydrologic Region 2	100
Percent of basin in Hydrologic Region 3	
Percent of basin in Hydrologic Region 4	
Percent of basin in Hydrologic Region 5	

Applicable range of drainage area is 1 to 9,000 square miles.
Hydrologic Region 1 corresponds to the USEPA Level III Ridge and Valley and Piedmont ecoregions
Hydrologic Region 2 corresponds to the USEPA Level III Blue Ridge ecoregion
Hydrologic Region 3 corresponds to the USEPA Level IV Sand Hills ecoregion
Hydrologic Region 4 corresponds to the USEPA Level III Southeastern, Middle Atlantic Coastal, and Southern Coastal Plain ecoregions
Hydrologic Region 5 corresponds to the lower portion of the USEPA Level IV Tifton Uplands ecoregion.

Sum of region percentages	100

Drainage area check
DRAINAGE AREA WITHIN APPLICABLE LIMITS.

Percent chance exceedance	Percent chance exceedance flow, in ft ³ /s	Lower 95 percent prediction interval flow, in ft ³ /s	Upper 95 percent prediction interval flow, in ft ³ /s	-S _{PH} (percent)	+S _{PH} (percent)	Average S _{PH} (percent)
50	210	107	411	-29.0	40.8	35.2
20	390	201	757	-28.7	40.3	34.9
10	532	268	1,060	-29.5	41.9	36.1
4	728	351	1,510	-31.1	45.1	38.6
2	870	403	1,880	-32.5	48.1	40.8
1	1,040	462	2,340	-33.9	51.3	43.3
0.5	1,190	506	2,800	-35.4	54.7	45.8
0.2	1,430	572	3,570	-37.3	59.6	49.4

