

Hydraulics Unit Pre-Design Report (Pre-Scoping) for Structure #: 110237

Date: _____

County: Burke Stream: Rock Creek
Road #: SR 1913 Road Name: Sugar Loaf Rd
Division: 13 Location: 0.1 MI. E JCT. SR 1914
Latitude: 35.63327 Longitude: -81.57493 Decimal degrees, a min of 5 decimal points

Assigned to: _____
Prepared By: EAKPUOGU
Hydro Reviewer: _____
Project Type: _____

Existing Structure

Structure Type: Timber Deck/ I Beams Yr Built: 1970
Span Arrangement: 1@20'-3,1@20',1@20'-3 OAL (ft): 61.0 Skew: 135 Abutment Type: Vertical -Timber
Number of Barrels: @ Span (ft): x Rise (ft):
Bed to Crown (ft): 9.0 Clear Roadway (ft): 23.7 Water Depth (ft) 1.0 Superstructure Depth:
ADT: 510 Year ADT: 2013 Scour Code (item113): Prior Survey Completed: No Survey Date:
Drainage Area: 1.4 Sq. Mi. Drainage Area Source: USGS Stream Stats Roadway Overtops at Q100:
Discharge Method: USGS Regression Equations USGS Region: Stream Gage Number(if applicable):
Q10 (cfs): 500.0 Q25 (cfs): 660.0 Q50 (cfs): 810.0 Q100 (cfs): 1,000.0 QBFE (cfs):
Structure in Flood Hazard Zone: No Panel #: 2628 Panel Date: 09/05/2007 Type of FIS: NO STUDY Date of FIS:

Enviromental

Quad Map: VALDESE, NC River Basin: Catawba Buffer Rule: N/A

Primary Stream Classification

☐ Class B ☒ Class C ☐ SA ☐ SB
☐ SC ☐ SWL ☐ WL ☐ WS I
☐ WS II ☐ WS III ☐ WS IV ☐ WS V

Supplemental Stream Classification

☐ FWS ☐ HQW ☐ NSW ☐ ORW
☐ Sw ☐ Tr ☐ UWL ☐ w/in 0.5mi. of CA

Other Stream Classification

☐ Anadromous Fish ☐ Area of Environmental Concern
☐ CAMA County ☐ Federal Wild & Scenic Rivers
☐ HSB Required ☐ NC Natural & Scenic Rivers
☐ Impaired [303d] ☐ Primary Nursery Area
☐ TVA ☐ Designated Shellfish Harvesting Area
☐ Designated Public Mountain Trout Waters

Up/Down Stream Features

Upstream Feature: Non-Inventory Structure

Location: SR 1924

Structure #: Route:

Latitude: Longitude:

Prior Survey Completed: Survey Date: Bed to Crown (ft): Year Built:

Structure Type:

Span Arrangement: OAL (ft):

Number of Barrels: @ Span (ft): x Rise (ft):

Downstream Feature: Culvert P-183 (No info on Wiggins)

Location: SR 1915

Structure #: Route:

Latitude: Longitude:

Prior Survey Completed: Survey Date: Bed to Crown (ft) Year Built:

Structure Type:

Span Arrangement: OAL (ft):

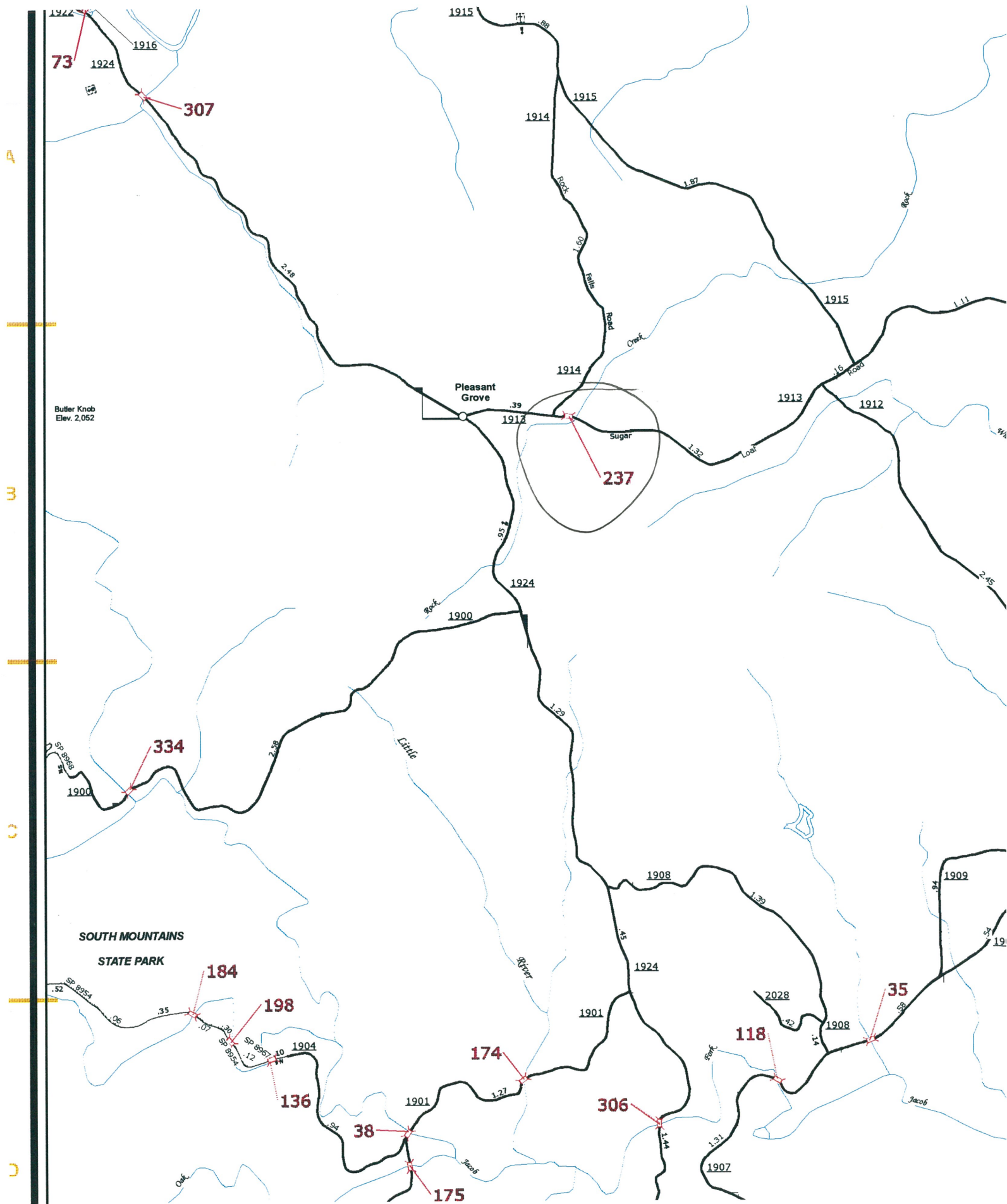
Number of Barrels: @ Span (ft): x Rise (ft):

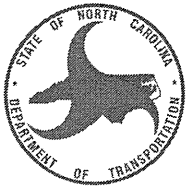
Preliminary Structure Estimate [Office Estimate]

Structure Type: Skew:

Dimensions/Spans: OFFICE ESTIMATED MIN. BRG LENGTH=70'

Notes





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCES ISSUED. TEMPORARY
SHORING - SUPPLEMENTAL POSTS, REVISED DATA
ON SKETCHES

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: BURKE STRUCTURE NUMBER: 110237 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1913 Sugar loaf Rd MILE POST:

LOCATION: 0.1 MI.E.JCT.SR1914

FEATURE INTERSECTED: ROCK CREEK

LATITUDE: 35° 37' 59.77" 35.63326944 LONGITUDE: 81° 34' 29.74" 81.57492778

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS(SALVAGED)

SUBSTRUCTURE: E.BTS:TIM.CAPS/TIM.P&S;INT.BTS:TIM.CAP/TIM.P&S/CONC.FTG.

1 @ 20'-3"; 1 @ 20'; 1 @ 20'-3"

SPANS: 1 @ 20'-3"; 1 @ 20'; 1 @ 20'-3

☐ FRACTURE CRITICAL ☒ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair

INSPECTION DATE: 01/08/2016

POSTED SV: 20

POSTED TTST: 28

OTHER SIGNS PRESENT: 4 DELINEATORS



Sign noticed issued for		Number Required
<u>NO</u>	WEIGHT LIMIT	<u>0</u>
<u>NO</u>	DELINEATORS	<u>0</u>
<u>NO</u>	NARROW BRIDGE	<u>0</u>
<u>NO</u>	ONE LANE BRIDGE	<u>0</u>
<u>NO</u>	LOW CLEARANCE	<u>0</u>

WEST APPROACH LOOKING EAST.

INSPECTED BY MARK WADE	SIGNATURE <u>MS Wade</u>	ASSISTED BY RAPHAEL ASENCIO
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UP = Non Inv. on SR 1924
DS = P183 - Can find in Wiggins

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 02/08/2016

COUNTY : BURKE DIVISION : 13 DISTRICT : 1 STRUCTURE NUMBER : 110237 LENGTH : 61 FEET

ROUTE CARRIED : SR1913 FEATURE INTERSECTED : ROCK CREEK

LOCATED : 0.1 MI.E.JCT.SR1914 BRIDGE NAME : CITY :

FUNC. CLASS : 08 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 510 2013 RAIL TYPE : LT 253 RT 253

BUILT : 1970 BY : BMU PROJ : FED.AID PROJ : DESIGN LOAD : Unknown

REHAB : BY : BMU PROJ : ALIGNMENT : TAN SKEW : 135 LANES : ON 2 UNDER 0

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 9 FT WATER DEPTH : 1 FT

SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS(SALVAGED)

SUBSTRUCTURE : E.BTS:TIM.CAPS/TIM.P&S;INT.BTS:TIM.CAP/TIM.P&S/CONC.FTG.

SPANS : 1 @ 20'-3;1 @ 20';1 @ 20'-3

BEAMS OR GIRDERS : 10 LINES 12 I-BEAMS @ 2'-7 CENTERS

FLOOR : 4X8 TIM/2.5 AWS ENCROACHMENT : DECK (OUT TO OUT) : 24.831 FT

CLEAR ROADWAY : 23.667 FT BETWEEN RAILS : 23.667 FT SIDEWALK OR CURB : LT 0 FT RT 0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-1 OPE.RTG. : HS-1 CONTR.MEMBER : IntBm7 (SpB) POSTED : SV 17 TTST 25 DATE 02/04/2016

SYSTEM : Secondary S.R. Route GREEN LINE ROUTE : N

UNDER ROUTES AND CLEARANCES

REMARKS :

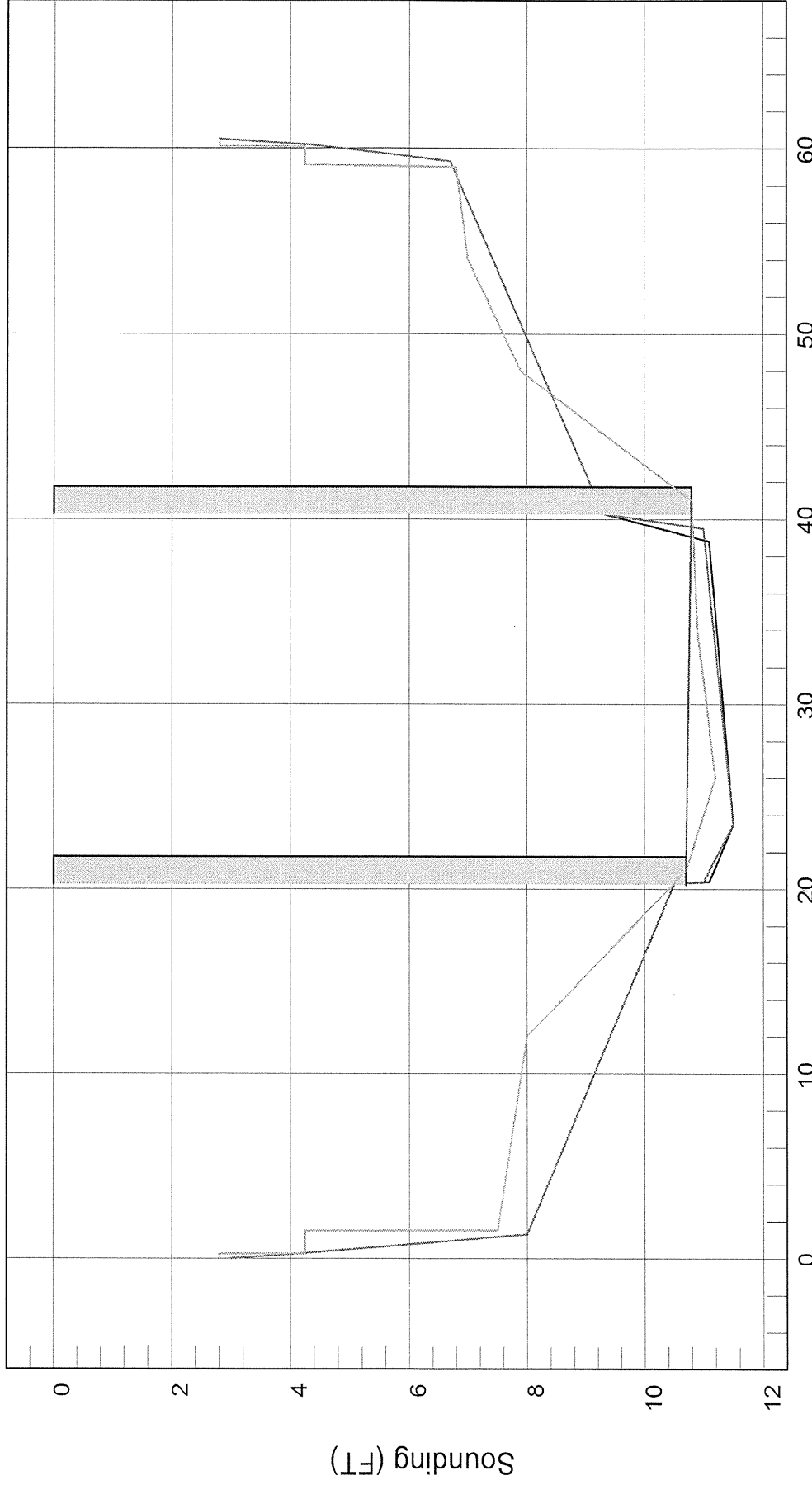
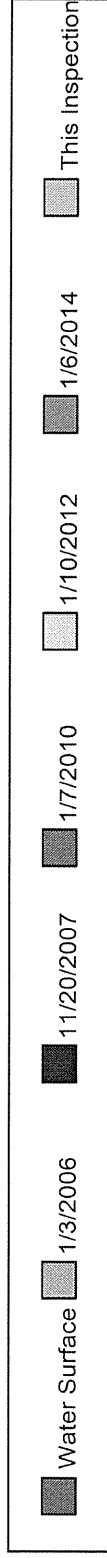
Bridge: 110237

County BURKE

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



$$9 \times 1.5 = 13.5 \times 2 = 27 + 20 = 47 \text{ Distance (FT)}$$

Enter report title:

StreamStats Report

Enter comments:

Some comments here

StreamStats Report

Region ID:

NC

Workspace ID:

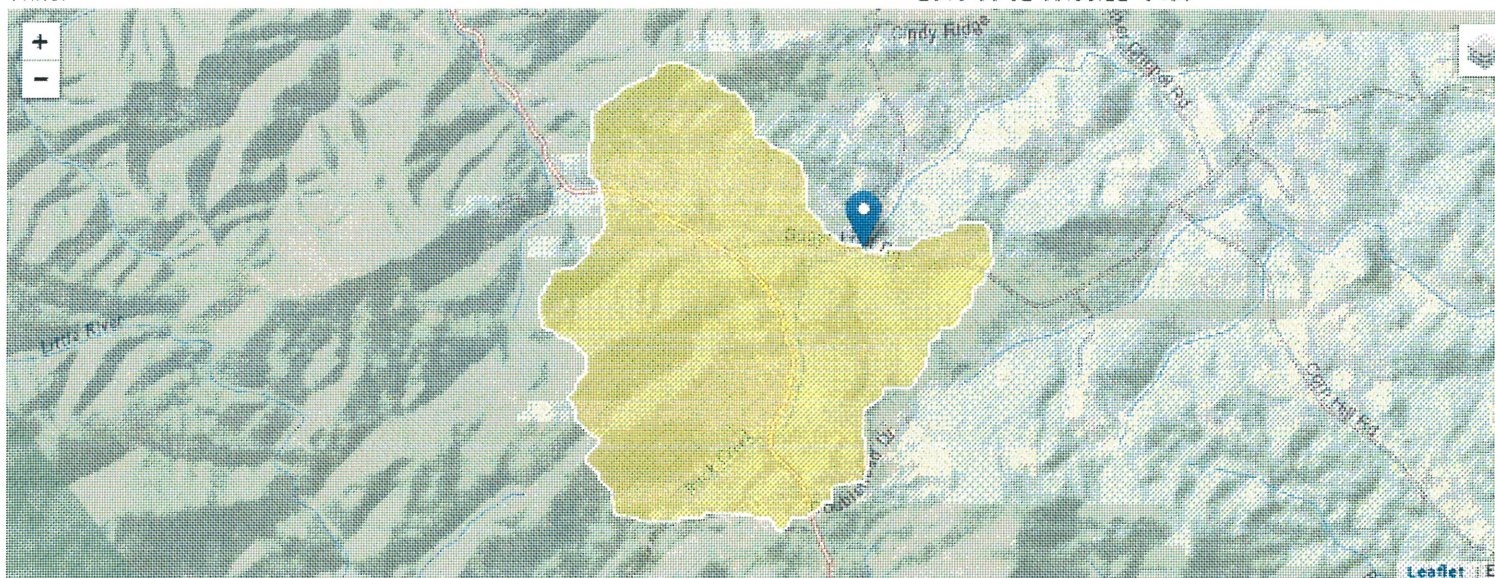
NC20180802125506725000

Clicked Point (Latitude, Longitude):

35.63332, -81.57484

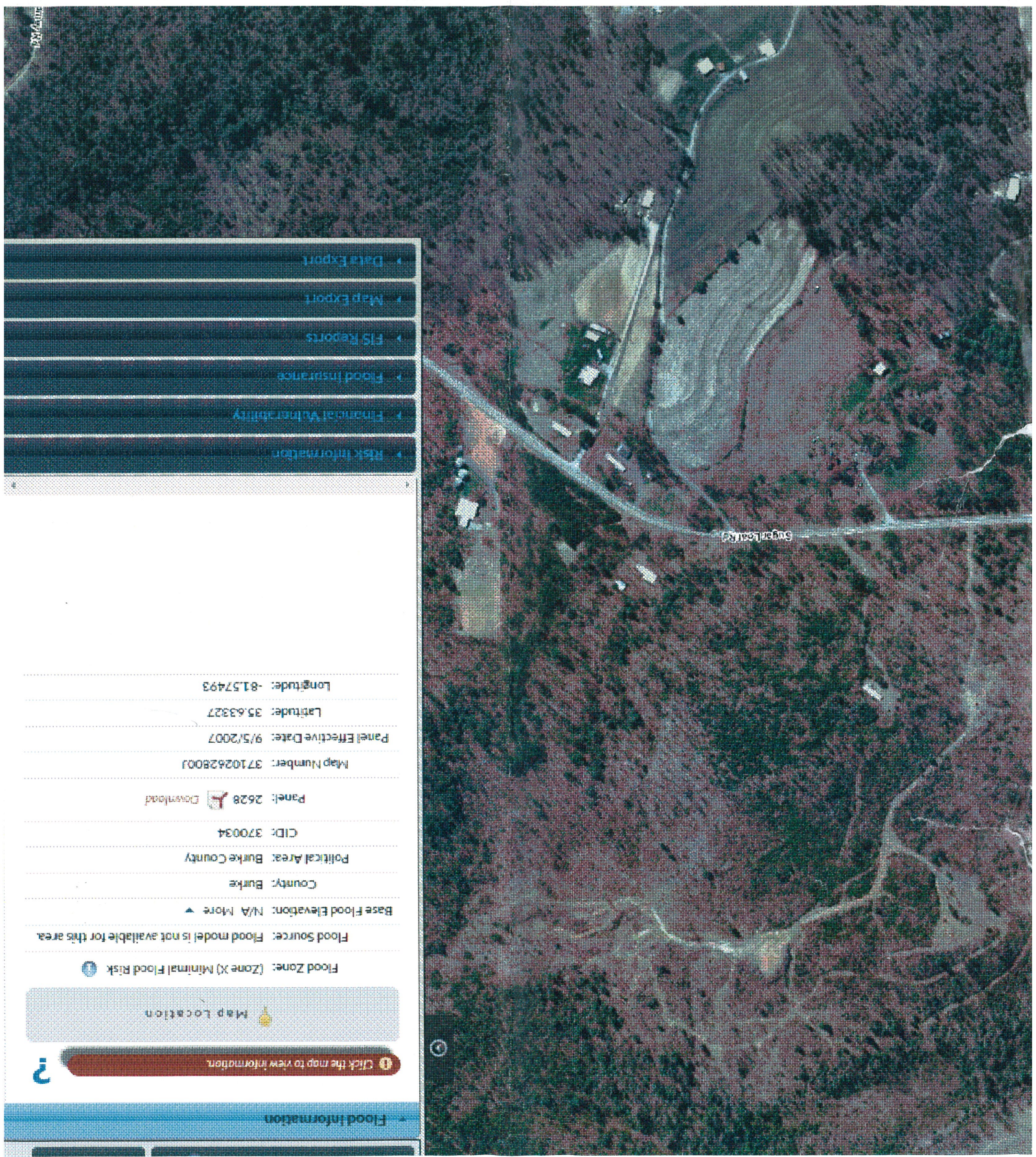
Time:

2018-08-02 08:55:22 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	1.38	square miles
I24H50Y	Maximum 24-hour precipitation that occurs on average once in 50 years	7.64	inches
LC11IMP	Average percentage of impervious area determined from NLCD 2011 Impervious dataset	0.91	percent



Flood Information

Click the map to view information.

Map Location

Flood Zone: (Zone X) Minimal Flood Risk

Flood Source: Flood model is not available for this area.

Base Flood Elevation: N/A More

County: Burke

Political Area: Burke County

CID: 370034

Panel: 2628 Download

Map Number: 3710262800J

Panel Effective Date: 9/5/2007

Latitude: 35.63327

Longitude: -81.57493

Risk Information

Financial Vulnerability

Flood Insurance

FIS Reports

Map Export

Data Export

