

NOTE: ONLY 1 BRIDGE IN FEMA MODEL.

2ND BRIDGE will need to be added
IN CORRECTED REFLECTIVE MODEL.

Project Number 45615.1.1

TIP Number B-5660

Let Date _____

PREDESIGN-PRESURVEY REPORT

County HALIFAX

Bridge Number 410066

Road Number SR1100 BELLS BRIDGES

Stream DEEP CREEK

Type Of Request: POC Force Account TIP DRS/BLD

Date 8-9-16 Name _____ Assigned To _____

Checked By _____

Prior Survey Date _____ (attach copy of prior survey)

Study By Scour Section _____

Flood Zone AB Detail Study LIMITED Date 7/3/07 (attach copy of flood map)

B.M. Info _____

Quad Map OVERFLOW Drainage Area 65 From _____
Q25 _____ Method _____

EXISTING BRIDGE INFORMATION

Location 0.9 mi. W. JCT, NC 125

Average Daily Traffic 220 (2011)

Length 41' Bed-To Crown 8' Water Depth 3'

Type Structure STEEL PLANK ON I-BEAMS TIMBER CAP & PILLS

Type Spans 21', 19'6" CONTINUOUS

Upstream Structure _____

Location SR 1100 65

Bed-To Crown _____ Prior Survey _____

Downstream Structure _____

Location _____

Bed-To Crown _____ Prior Survey _____

SCS Watershed _____

ENVIRONMENTAL

Trout Stream _____ Anadromous Fish _____ Primary Nursery Area _____

High Quality Waters SR 1100 65 Nutrient Sensitive Waters _____

Near Water Supply Intake _____ CANIA County _____

Stream Classification _____

DENR River Basin Info. _____

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 01/28/2016

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
HALIFAX	4	1	410066	41	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1100	DEEP CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.9MI. W JCT NC125		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	220 2011	LT 233 RT 233

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1969	BMU			H 15

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	UNDER :
			TAN	90	ON 2	0

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT	8 FT	3 FT

SUPERSTRUCTURE : STEEL PLANK FLOOR ON I-BEAMS (CONT.)

SUBSTRUCTURE : E.BTS&INT.BT:TIMBER CAP ON TIMBER PILES @ 6' CTS.

SPANS : 1@21'0",1@19'6" CONTINUOUS

BEAMS OR GIRDERS : 10 LINES W16X45 I-BEAMS (CONT.) @ 2'7 CTS.

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
STL PLK/4.5" AWS		24.083 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
23.917 FT	24.5 FT	LT .2915 FT RT .2915 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	34	DATE	09/09/2009
HS-11	HS-21	Pile	SV 31				

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

UNDER ROUTES AND CLEARANCES

REMARKS :

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 410066 County: HALIFAX Date: _____ By: ZSD

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	8.9	END BENT 1	0	9	END BENT 1
1	8.7	GROUND			
3	10.3	GROUND			
10	10.7	GROUND			
20	10.6	BENT 1	20	10.6	BENT 1
30	9.2	GROUND			
38	8.7	GROUND			
39	8	END BENT 2	39	8.2	END BENT 2

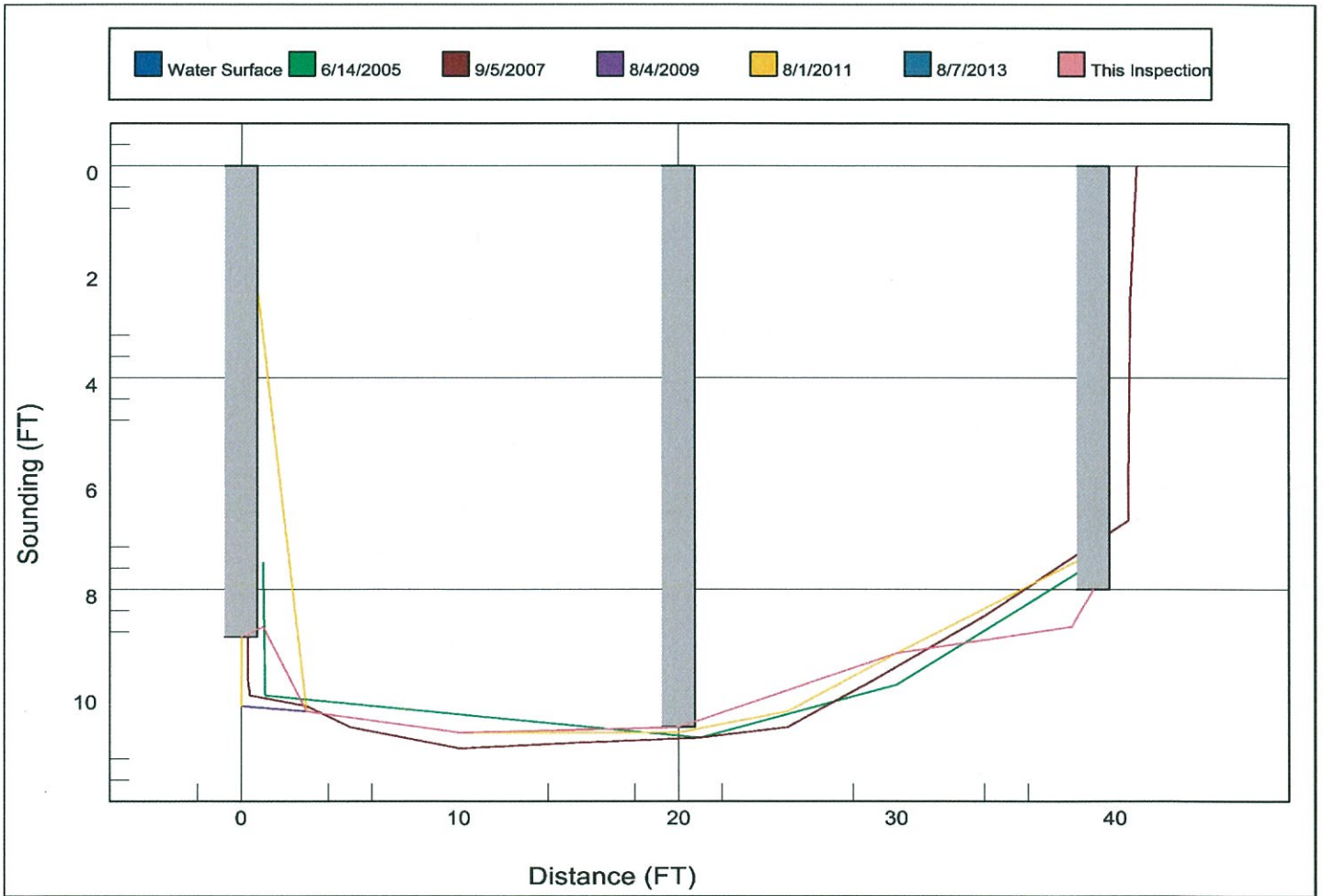
Bridge: 410066

County HALIFAX

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)





NC DEPARTMENT OF TRANSPORTATION ATTENTION:
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Element Inspection

COUNTY: HALIFAX STRUCTURE NUMBER: 410066 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1100 MILE POST:

LOCATION: 0.9MI. W JCT NC125

FEATURE INTERSECTED: DEEP CREEK

LATITUDE: 36° 4' 27.26" LONGITUDE: 77° 26' 19.59"

SUPERSTRUCTURE: STEEL PLANK FLOOR ON CONT. I-BEAMS.

SUBSTRUCTURE: E.BTS&INT.BT:TIMBER CAP/TIMBER PILES @ 6' CTS.

SPANS: 1@21';1@19'6" CONTINUOUS

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

PRESENT CONDITION: Fair INSPECTION DATE: 08/24/2015

POSTED SV: 31 POSTED TTST: 34

OTHER SIGNS PRESENT: 4 DELINEATORS



LOOKING EAST

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

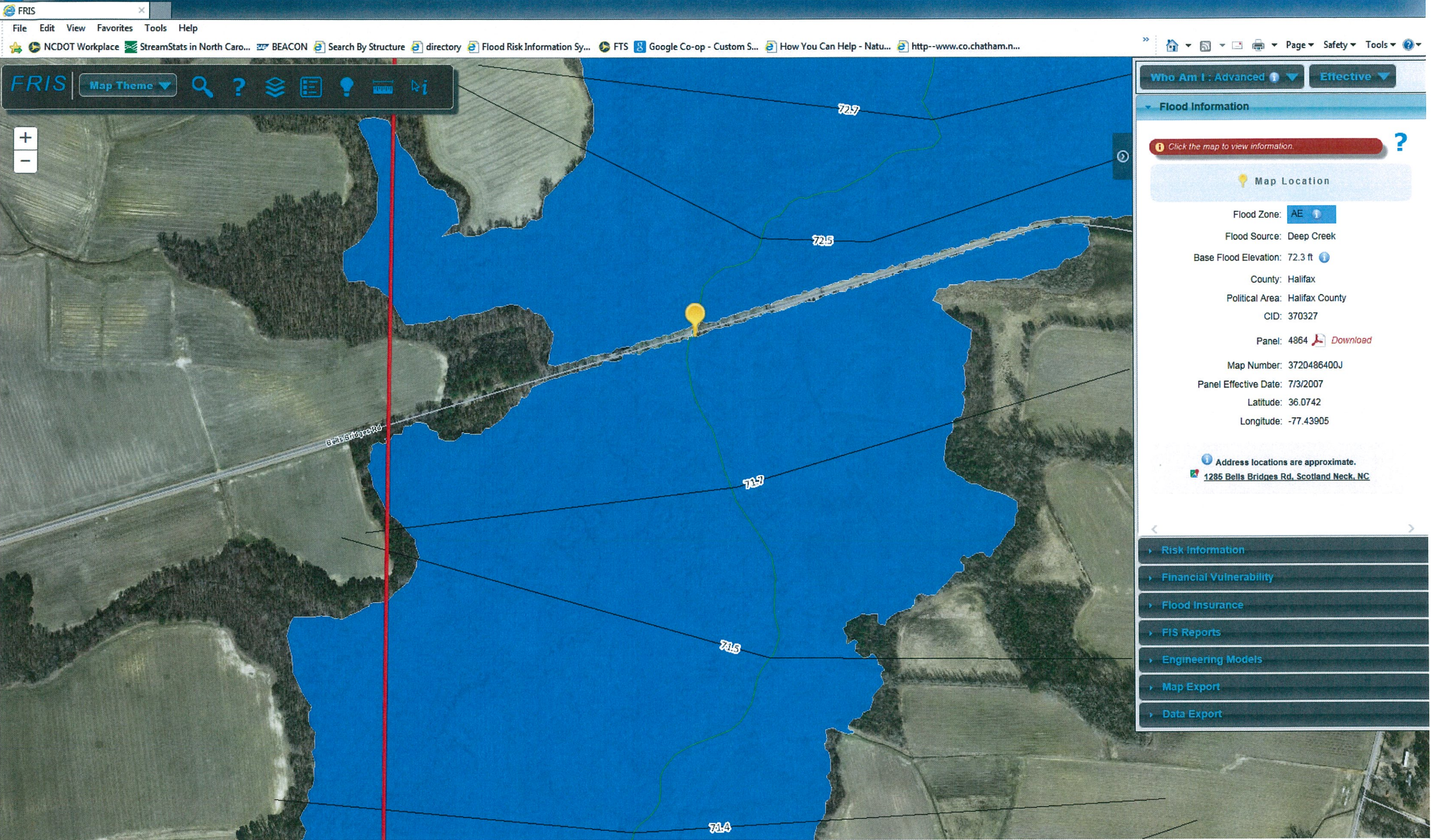
INSPECTED BY Z.S. DUNLOW	SIGNATURE <i>Z. S. Dunlow</i>	ASSISTED BY G.L. HARRINGTON
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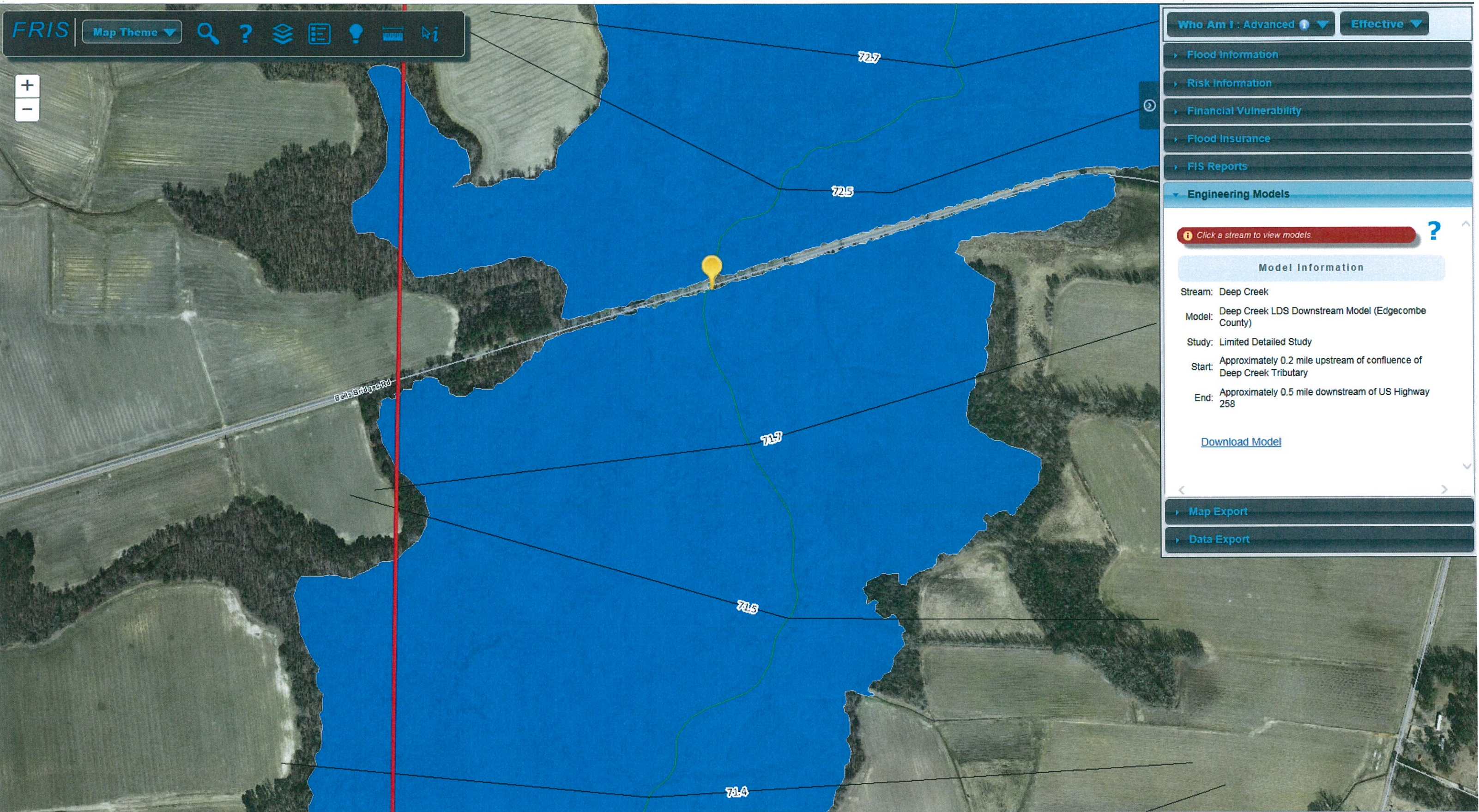


END BENT 1



BOTTOM OF DECK





Who Am I : Advanced Effective

- Flood Information
- Risk Information
- Financial Vulnerability
- Flood Insurance
- FIS Reports

Engineering Models

Click a stream to view models

Model Information

Stream: Deep Creek
Model: Deep Creek LDS Downstream Model (Edgecombe County)
Study: Limited Detailed Study
Start: Approximately 0.2 mile upstream of confluence of Deep Creek Tributary
End: Approximately 0.5 mile downstream of US Highway 258

[Download Model](#)

Map Export

Data Export