

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

Date: \_\_\_\_\_

County:  Stream:

Road #:  Road Name:

Division:  Location:

Latitude:  Longitude:  Decimal degrees, a min of 5 decimal points

Assigned to:

Prepared By:

Hydro Reviewer:

Project Type:

## Existing Structure

Structure Type:  Yr Built:

Span Arrangement:  OAL (ft):  Skew:  Abutment Type:

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

Bed to Crown (ft):  Clear Roadway (ft):  Water Depth (ft):  Superstructure Depth:

ADT:  Year ADT:  Scour Code (item113):  Prior Survey Completed:  Survey Date:

Drainage Area:  Drainage Area Source:  Roadway Overtops at Q100:

Discharge Method:  USGS Region:  Stream Gage Number(if applicable):

Q10 (cfs):  Q25 (cfs):  Q50 (cfs):  Q100 (cfs):  QBFE (cfs):

Structure in Flood Hazard Zone:  Panel #:  Panel Date:  Type of FIS:  Date of FIS:

## Environmental

Quad Map:  River Basin:  Buffer Rule:

<b>Primary Stream Classification</b>				<b>Other Stream Classification</b>	
<input type="checkbox"/> Class B	<input type="checkbox"/> Class C	<input type="checkbox"/> SA	<input type="checkbox"/> SB	<input type="checkbox"/> Anadromous Fish	<input type="checkbox"/> Area of Environmental Concern
<input type="checkbox"/> SC	<input type="checkbox"/> SWL	<input type="checkbox"/> WL	<input type="checkbox"/> WS I	<input type="checkbox"/> CAMA County	<input type="checkbox"/> Federal Wild & Scenic Rivers
<input type="checkbox"/> WS II	<input type="checkbox"/> WS III	<input type="checkbox"/> WS IV	<input type="checkbox"/> WS V	<input type="checkbox"/> HSB Required	<input type="checkbox"/> NC Natural & Scenic Rivers
<b>Supplemental Stream Classification</b>				<input type="checkbox"/> Impaired [303d]	<input type="checkbox"/> Primary Nursery Area
<input type="checkbox"/> FWS	<input type="checkbox"/> HQW	<input type="checkbox"/> NSW	<input type="checkbox"/> ORW	<input type="checkbox"/> TVA	<input type="checkbox"/> Designated Shellfish Harvesting Area
<input type="checkbox"/> Sw	<input type="checkbox"/> Tr	<input type="checkbox"/> UWL	<input type="checkbox"/> w/in 0.5mi. of CA	<input type="checkbox"/> Designated Public Mountain Trout Waters	

## Up/Down Stream Features

<b>Upstream Feature:</b> <input type="text"/> Location: <input type="text"/> Structure #: <input type="text"/> Route: <input type="text"/> Latitude: <input type="text"/> Longitude: <input type="text"/> Prior Survey Completed: <input type="text"/> Survey Date: <input type="text"/>	Structure Type: <input type="text"/> Span Arrangement: <input type="text"/> OAL (ft): <input type="text"/> Number of Barrels: <input type="text"/> @ Span (ft): <input type="text"/> x Rise (ft): <input type="text"/> Bed to Crown (ft): <input type="text"/> Year Built: <input type="text"/>
<b>Downstream Feature:</b> <input type="text"/> Location: <input type="text"/> Structure #: <input type="text"/> Route: <input type="text"/> Latitude: <input type="text"/> Longitude: <input type="text"/> Prior Survey Completed: <input type="text"/> Survey Date: <input type="text"/>	Structure Type: <input type="text"/> Span Arrangement: <input type="text"/> OAL (ft): <input type="text"/> Number of Barrels: <input type="text"/> @ Span (ft): <input type="text"/> x Rise (ft): <input type="text"/> Bed to Crown (ft): <input type="text"/> Year Built: <input type="text"/>

## Preliminary Structure Estimate [Office Estimate]

Structure Type:  Skew:

Dimensions/Spans:

## Notes