

# HIGHWAY BRIDGE SCOUR PLAN OF ACTION REPORT



TENN DEPT OF TRANSPORTATION

BRIDGE ID NUMBER: **73037390001**  
BRIDGE OWNER: **CITY OF OAK RIDGE**  
ROAD NAME: **GUM HOLLOW RD**  
CROSSING: **POPLAR CREEK**  
LATITUDE: **N 35.98258 DEGREES**  
LONGITUDE: **W 84.32708 DEGREES**

COUNTY: **ROANE**  
ROUTE: **0B174**  
SPECIAL CASE: **0**  
COUNTY SEQUENCE: **1**  
LOG MILE: **0.13**  
YEAR BUILT: **1950**

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**TYPE OF SUPERSTRUCTURE**

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MAIN SPAN: **STEEL - STRINGER/MULTI-BEAM OR GIRDER**      APPR. SPAN: **NOT APPLICABLE**

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**TYPE OF SUBSTRUCTURE**

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ABUTMENTS: **CONCRETE FULL HEIGHT ABUTMENT ON UNKNOWN FOUNDATION**  
BENTS: **NOT APPLICABLE**  
PIERS: **CONCRETE SOLID SHAFT PIER ON UNKNOWN FOUNDATION**

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**SCOUR EVALUATION**

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Bridge has unknown foundations. Risk of scour cannot be determined. The bridge shall be monitored for distress during significant flood events. Monitor bridge in lieu of installing scour countermeasures.

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**INSPECTION PROCEDURES**

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What Initiated the Call-out Inspection?     BridgeWatch Alert  
   TDOT District or Local Maintenance Personnel  
   THP or Local Law Enforcement Personnel  
   Other: \_\_\_\_\_

**Things to check on a bridge during floods:**

- Span movement - horizontally as well as vertically
  1. Check displacement / deflection along curb line, both bridge rails and outer edge of bridge deck.
  2. Check for plumb of piers or bents.
- Check for embankment erosion
- Check for drift build-up on piers or bents
- Check pier exposure, if possible, and compare to previous inspection
- Review the latest bridge inspection report versus current field conditions

**If Closure is recommended:**

- Stay at bridge with vehicle pulled across road until bridge is secured and properly closed by District, County or City Maintenance Personnel. Use Barricade Tape, traffic cones and/or traffic flares as temporary measures to warn motorists to stay off of the bridge until such time as the bridge may be properly closed and barricaded.
- Contact: (1) District Maintenance Supervisor ( if bridge is State maintained )  
  (2) City or County Highway Maintenance Official ( if bridge is not State maintained )  
  (3) Tennessee Highway Patrol and/or local law enforcement Officers as appropriate  
  (4) TDOT Regional Bridge Engineer
- The Bridge should remain closed until the water recedes and a daylight visual inspection is made by a TDOT bridge inspection team.

PUBLICATION DATE

**21-Apr-14**

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- [ ] - The bridge inspection team will work with State District maintenance or local highway maintenance officials in establishing a detour route. Any bridge on the selected detour route shall be checked prior to signing the detour route.
- [ ] - The bridge can be re-opened only after a TDOT bridge inspection team checks the substructure units and they are determined to be structurally stable.

CONTACT PERSONNEL:

TELEPHONE NUMBER:

CITY MAYOR'S OFFICE

(865) 425-3410

CITY ENGINEER'S OFFICE

(865) 425-1875

- [ ] - Summarize and submit findings from the inspection to BridgeWatch scour monitoring system. The report shall include the date and time of the inspection, a brief summary of findings and, as appropriate, photographs of the bridge and stream channel measurements. If significant scouring has occurred, the report shall also be copied to Bridge Inspection Headquarters.

**COMMENTS:** \_\_\_\_\_

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**Suggested List of Equipment to conduct the Inspection:**

- Latest Bridge Inspection Report
- Scour POA Report with the above Checklist
- Bridge Design Plans, if available
- Tape measure with weight
- Plumb bob
- Range Pole
- A 1000 Foot Roll of yellow Polyethylene Barricade Tape printed with the following message:  
**SAFETY HAZARD KEEP AWAY**
- A Barricade Tape Dispenser with serrated cutter
- A roll of Duct Tape
- Traffic Cones - Minimum of four (4)
- Traffic Safety Flares - Minimum of four (4) or set of electronic warning flashers
- TDOT two-way radio (State Personnel only) and/or cellular telephone
- TDOT radio directory (State Personnel only)

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