



# Bat Habitat Assessment Form

## NCDOT Culverts

Observers: \_\_\_\_\_

TIP or DOT project number: \_\_\_\_\_

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

Road Name above culvert: \_\_\_\_\_

County: \_\_\_\_\_

Structure # or Lat/Long: \_\_\_\_\_

Name of the feature culvert is carrying (stream): \_\_\_\_\_

% Surrounding habitat w/in 1 mi.  
of project footprint (approx)

Urban/commercial \_\_\_\_\_

Suburban/residential \_\_\_\_\_

Herb/Shrub/Grassland \_\_\_\_\_

Agricultural \_\_\_\_\_

Deciduous/Evergreen/Mixed Forest \_\_\_\_\_

Woody Wetland/Herb Wetland/Open Water \_\_\_\_\_

Any trees  $\geq 3$ " DBH within project footprint?

N/A

yes

no

**Complete this section for Indiana bat counties (Avery, Cherokee, Clay, Graham, Haywood, Jackson, Macon, Swain, Rutherford, Watauga)**

Any trees or snags  $\geq 5$ " DBH with exfoliating (shag) bark or crevices?

N/A

yes

no

If yes to shag/snag, how much sunlight do they receive during the day? N/A

1-3 hours

4-6 hours

7+ hours

If yes to shag/snag, list spp of habitat trees  $\geq 5$ " dbh \_\_\_\_\_

**If large hollow trees or snags  $\geq 5$ " DBH are present in sunlit areas, provide photos and location.**

Presence of:

caves

In project footprint

yes

no

In vicinity (0.5 mi)

yes

no

abandoned mines

yes

no

yes

no

**If 'yes' to any of the above, provide description and location.**

Major water source in project footprint:

N/A

river

stream/creek

pond

lake

swamp

Suitable drinking habitat accessible?

yes

no

N/A

Structure specific questions:

Guard rails

none

concrete

timber

metal

Culvert material

concrete

timber

metal

plastic

Number of barrels: \_\_\_\_\_ (double, triple, etc.)

Culvert height (ft): \_\_\_\_\_ Culvert width (ft): \_\_\_\_\_ Culvert length (ft): \_\_\_\_\_

If culvert is buried/crushed/sedimentation, observed narrowest opening height (ft): \_\_\_\_\_

Culvert type

pipe

box

arch

other \_\_\_\_\_

Openings protected from high winds

yes

no

Crevices present:

yes

no

Rough surfaces, imperfections, bird nests

yes

no

Human disturbance in culvert

high

med

low

none

Depth of water in culvert (if applicable) \_\_\_\_\_ (ft)

**Below section completed only if bats/evidence of bats observed:**

Evidence of bats using?

yes

no

Emergence count performed? (If yes, complete form)

yes

no

Evidence of bats using bird nests, if present?

yes

no

Type of evidence

guano

staining

bats

Roost material

concrete

metal

other: \_\_\_\_\_

Bat species present:

Notes (include description of bat location within culvert, sedimentation buildup, drainage inlets inside culvert, etc.)