



AQUATIC CONNECTIVITY
Tidal Stream Crossing Survey
DATA FORM

DATABASE ENTRY BY _____ ENTRY DATE _____

DATA ENTRY REVIEWED BY _____ REVIEW DATE _____

CROSSING DATA

Crossing Code _____ Local ID (Optional) _____

Date Observed (00/00/0000) _____ Start Time _____ End Time _____ Lead Observer _____

Town/County _____ Stream/River _____

Road _____ Type MULTILANE PAVED UNPAVED DRIVEWAY TRAIL RAILROAD

GPS Coordinates (Decimal degrees) [][] . [][][][] °N Latitude — [][][][] . [][][][] °W Longitude

Location Description

Crossing Type BRIDGE CULVERT MULTIPLE CULVERT FORD NO CROSSING REMOVED CROSSING BURIED STREAM INACCESSIBLE PARTIALLY INACCESSIBLE NO UPSTREAM CHANNEL BRIDGE ADEQUATE **Number of Culverts/Bridge Cells** _____

Tide Stage LOW SLACK TIDE LOW EBB TIDE LOW FLOOD TIDE UNKNOWN OTHER (DESCRIBE IN COMMENTS SECTION)

Tide Prediction Time of nearest low tide _____ Tide chart _____

Flow Conditions DEWATERED UNUSUALLY LOW TYPICAL LOW FLOW MODERATE FLOW HIGH FLOW

Stream Type SALT MARSH CREEK SALT/BRACKISH FLOW-THROUGH STREAM FRESHWATER TIDAL

Salinity (Optional) _____ ppt

Crossing Condition NEW OK POOR FAILING UNKNOWN

Visible Utilities NONE OVERHEAD WIRES WATER/SEWER PIPE GAS LINE OTHER (DESCRIBE IN COMMENTS SECTION)

Alignment FLOW ALIGNED SKEWED (>45°) Road Fill Height (ft.) (Top of culvert to road surface; bridge = 0) _____ Road Flooded at High Tide YES NO

Downstream Channel Width (ft.) _____ Pool Width (ft.) _____ Tidal Range (ft.) _____

Upstream Channel Width (ft.) _____ Pool Width (ft.) _____ Tidal Range (ft.) _____

Vegetation Above/Below COMPARABLE SLIGHTLY DIFFERENT MODERATELY DIFFERENT VERY DIFFERENT UNKNOWN

Photo File #s Outlet _____ Downstream _____ Inlet _____ Upstream _____

Other _____

Crossing Notes/Comments

082319

STRUCTURE 1

Tide Gate Type NO TIDE GATE STOP LOGS FLAP GATE SLUICE GATE SELF-REGULATING
 OTHER (DESCRIBE IN COMMENTS SECTION)

Tide Gate Barrier Severity NO TIDE GATE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Outlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Outlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Outlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Outlet Perch (ft.) Low Tide _____ High Tide _____ **Outlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

Inlet Type PROJECTING MITERED TO SLOPE FLUSH (NOT MITERED) HEADWALL WING WALL(S) HEADWALL & WING WALL(S)
 OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Inlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Inlet Perch (ft.) Low Tide _____ High Tide _____ **Inlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

Structure Length (Overall length from inlet to outlet in ft.) _____

Relative Water Depth <0.10 0.10-0.24 0.25-0.49 0.50-0.74 0.75-0.99 ≥1.0

Structure Substrate Type (Pick one) NONE MUCK/SILT SAND GRAVEL COBBLE BOULDER BEDROCK UNKNOWN

Structure Substrate Matches Stream NONE COMPARABLE CONTRASTING NOT APPROPRIATE (e.g. RIP RAP) UNKNOWN

Structure Substrate Coverage NONE 25%-50% 50%-75% 75%-99% 100% UNKNOWN

Structure Slope (Relative to Channel) COMPARABLE SUBSTANTIALLY FLATTER SUBSTANTIALLY STEEPER

Other Barrier Type NONE SEDIMENT BLOCKAGE DEBRIS FENCING PIPES DEFORMATION FREE FALL
 OTHER (DESCRIBE IN COMMENTS SECTION)

Other Barrier Severity NONE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Dry Passage for Terrestrial Wildlife YES NO UNKNOWN **Height above Dry Passage (ft.)** _____

Structure Notes/Comments

OUTLET

INLET

ADDITIONAL CONDITIONS

STRUCTURE 2

Tide Gate Type NO TIDE GATE STOP LOGS FLAP GATE SLUICE GATE SELF-REGULATING
 OTHER (DESCRIBE IN COMMENTS SECTION)

Tide Gate Barrier Severity NO TIDE GATE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Outlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Outlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Outlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Outlet Perch (ft.) Low Tide _____ High Tide _____ **Outlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

Inlet Type PROJECTING MITERED TO SLOPE FLUSH (NOT MITERED) HEADWALL WING WALL(S) HEADWALL & WING WALL(S)
 OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Inlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Inlet Perch (ft.) Low Tide _____ High Tide _____ **Inlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

Structure Length (Overall length from inlet to outlet in ft.) _____

Relative Water Depth <0.10 0.10-0.24 0.25-0.49 0.50-0.74 0.75-0.99 ≥1.0

Structure Substrate Type (Pick one) NONE MUCK/SILT SAND GRAVEL COBBLE BOULDER BEDROCK UNKNOWN

Structure Substrate Matches Stream NONE COMPARABLE CONTRASTING NOT APPROPRIATE (e.g. RIP RAP) UNKNOWN

Structure Substrate Coverage NONE 25%-50% 50%-75% 75%-99% 100% UNKNOWN

Structure Slope (Relative to Channel) COMPARABLE SUBSTANTIALLY FLATTER SUBSTANTIALLY STEEPER

Other Barrier Type NONE SEDIMENT BLOCKAGE DEBRIS FENCING PIPES DEFORMATION FREE FALL
 OTHER (DESCRIBE IN COMMENTS SECTION)

Other Barrier Severity NONE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Dry Passage for Terrestrial Wildlife YES NO UNKNOWN **Height above Dry Passage (ft.)** _____

Structure Notes/Comments

OUTLET

INLET

ADDITIONAL CONDITIONS

STRUCTURE 3

Tide Gate Type NO TIDE GATE STOP LOGS FLAP GATE SLUICE GATE SELF-REGULATING
 OTHER (DESCRIBE IN COMMENTS SECTION)

OUTLET

Tide Gate Barrier Severity NO TIDE GATE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Outlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Outlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Outlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Outlet Perch (ft.) Low Tide _____ High Tide _____ **Outlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

INLET

Inlet Type PROJECTING MITERED TO SLOPE FLUSH (NOT MITERED) HEADWALL WING WALL(S) HEADWALL & WING WALL(S)
 OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Inlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Inlet Perch (ft.) Low Tide _____ High Tide _____ **Inlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

ADDITIONAL CONDITIONS

Structure Length (Overall length from inlet to outlet in ft.) _____

Relative Water Depth <0.10 0.10-0.24 0.25-0.49 0.50-0.74 0.75-0.99 ≥1.0

Structure Substrate Type (Pick one) NONE MUCK/SILT SAND GRAVEL COBBLE BOULDER BEDROCK UNKNOWN

Structure Substrate Matches Stream NONE COMPARABLE CONTRASTING NOT APPROPRIATE (e.g. RIP RAP) UNKNOWN

Structure Substrate Coverage NONE 25%-50% 50%-75% 75%-99% 100% UNKNOWN

Structure Slope (Relative to Channel) COMPARABLE SUBSTANTIALLY FLATTER SUBSTANTIALLY STEEPER

Other Barrier Type NONE SEDIMENT BLOCKAGE DEBRIS FENCING PIPES DEFORMATION FREE FALL
 OTHER (DESCRIBE IN COMMENTS SECTION)

Other Barrier Severity NONE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Dry Passage for Terrestrial Wildlife YES NO UNKNOWN **Height above Dry Passage (ft.)** _____

Structure Notes/Comments

STRUCTURE 4

Tide Gate Type NO TIDE GATE STOP LOGS FLAP GATE SLUICE GATE SELF-REGULATING
 OTHER (DESCRIBE IN COMMENTS SECTION)

Tide Gate Barrier Severity NO TIDE GATE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Outlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Outlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Outlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Outlet Perch (ft.) Low Tide _____ High Tide _____ **Outlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

Inlet Type PROJECTING MITERED TO SLOPE FLUSH (NOT MITERED) HEADWALL WING WALL(S) HEADWALL & WING WALL(S)
 OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Inlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Inlet Perch (ft.) Low Tide _____ High Tide _____ **Inlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

Structure Length (Overall length from inlet to outlet in ft.) _____

Relative Water Depth <0.10 0.10-0.24 0.25-0.49 0.50-0.74 0.75-0.99 ≥1.0

Structure Substrate Type (Pick one) NONE MUCK/SILT SAND GRAVEL COBBLE BOULDER BEDROCK UNKNOWN

Structure Substrate Matches Stream NONE COMPARABLE CONTRASTING NOT APPROPRIATE (e.g. RIP RAP) UNKNOWN

Structure Substrate Coverage NONE 25%-50% 50%-75% 75%-99% 100% UNKNOWN

Structure Slope (Relative to Channel) COMPARABLE SUBSTANTIALLY FLATTER SUBSTANTIALLY STEEPER

Other Barrier Type NONE SEDIMENT BLOCKAGE DEBRIS FENCING PIPES DEFORMATION FREE FALL
 OTHER (DESCRIBE IN COMMENTS SECTION)

Other Barrier Severity NONE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Dry Passage for Terrestrial Wildlife YES NO UNKNOWN **Height above Dry Passage (ft.)** _____

Structure Notes/Comments

ADDITIONAL CONDITIONS

STRUCTURE 5

Tide Gate Type NO TIDE GATE STOP LOGS FLAP GATE SLUICE GATE SELF-REGULATING
 OTHER (DESCRIBE IN COMMENTS SECTION)

OUTLET

Tide Gate Barrier Severity NO TIDE GATE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Outlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Outlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Outlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Outlet Perch (ft.) Low Tide _____ High Tide _____ **Outlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

INLET

Inlet Type PROJECTING MITERED TO SLOPE FLUSH (NOT MITERED) HEADWALL WING WALL(S) HEADWALL & WING WALL(S)
 OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Inlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Inlet Perch (ft.) Low Tide _____ High Tide _____ **Inlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

ADDITIONAL CONDITIONS

Structure Length (Overall length from inlet to outlet in ft.) _____

Relative Water Depth <0.10 0.10-0.24 0.25-0.49 0.50-0.74 0.75-0.99 ≥1.0

Structure Substrate Type (Pick one) NONE MUCK/SILT SAND GRAVEL COBBLE BOULDER BEDROCK UNKNOWN

Structure Substrate Matches Stream NONE COMPARABLE CONTRASTING NOT APPROPRIATE (e.g. RIP RAP) UNKNOWN

Structure Substrate Coverage NONE 25%-50% 50%-75% 75%-99% 100% UNKNOWN

Structure Slope (Relative to Channel) COMPARABLE SUBSTANTIALLY FLATTER SUBSTANTIALLY STEEPER

Other Barrier Type NONE SEDIMENT BLOCKAGE DEBRIS FENCING PIPES DEFORMATION FREE FALL
 OTHER (DESCRIBE IN COMMENTS SECTION)

Other Barrier Severity NONE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Dry Passage for Terrestrial Wildlife YES NO UNKNOWN **Height above Dry Passage (ft.)** _____

Structure Notes/Comments

STRUCTURE 6

Tide Gate Type NO TIDE GATE STOP LOGS FLAP GATE SLUICE GATE SELF-REGULATING
 OTHER (DESCRIBE IN COMMENTS SECTION)

OUTLET

Tide Gate Barrier Severity NO TIDE GATE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Outlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Outlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Outlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Outlet Perch (ft.) Low Tide _____ High Tide _____ **Outlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

INLET

Inlet Type PROJECTING MITERED TO SLOPE FLUSH (NOT MITERED) HEADWALL WING WALL(S) HEADWALL & WING WALL(S)
 OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Inlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Inlet Perch (ft.) Low Tide _____ High Tide _____ **Inlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

ADDITIONAL CONDITIONS

Structure Length (Overall length from inlet to outlet in ft.) _____

Relative Water Depth <0.10 0.10-0.24 0.25-0.49 0.50-0.74 0.75-0.99 ≥1.0

Structure Substrate Type (Pick one) NONE MUCK/SILT SAND GRAVEL COBBLE BOULDER BEDROCK UNKNOWN

Structure Substrate Matches Stream NONE COMPARABLE CONTRASTING NOT APPROPRIATE (e.g. RIP RAP) UNKNOWN

Structure Substrate Coverage NONE 25%-50% 50%-75% 75%-99% 100% UNKNOWN

Structure Slope (Relative to Channel) COMPARABLE SUBSTANTIALLY FLATTER SUBSTANTIALLY STEEPER

Other Barrier Type NONE SEDIMENT BLOCKAGE DEBRIS FENCING PIPES DEFORMATION FREE FALL
 OTHER (DESCRIBE IN COMMENTS SECTION)

Other Barrier Severity NONE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Dry Passage for Terrestrial Wildlife YES NO UNKNOWN **Height above Dry Passage (ft.)** _____

Structure Notes/Comments

STRUCTURE 7

Tide Gate Type NO TIDE GATE STOP LOGS FLAP GATE SLUICE GATE SELF-REGULATING
 OTHER (DESCRIBE IN COMMENTS SECTION)

Tide Gate Barrier Severity NO TIDE GATE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Outlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Outlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Outlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Outlet Perch (ft.) Low Tide _____ High Tide _____ **Outlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

Inlet Type PROJECTING MITERED TO SLOPE FLUSH (NOT MITERED) HEADWALL WING WALL(S) HEADWALL & WING WALL(S)
 OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Materials (Select all options that apply) CONCRETE STONE WOOD METAL (SMOOTH) METAL (CORRUGATED)
 PLASTIC (SMOOTH) PLASTIC (CORRUGATED) OTHER (DESCRIBE IN COMMENTS SECTION)

Inlet Shape 1 2 3 4 5 6 7 FORD REMOVED UNKNOWN CLOGGED/COLLAPSED/SUBMERGED

Inlet Dimensions (ft.) A. Width _____ B. Height _____ C. Substrate/Water Width _____ D. Water Depth _____
 E. Abutment Height (Type 7 bridges only) _____ High Tide Water Depth _____ Spring Tide Water Depth _____

Inlet Perch (ft.) Low Tide _____ High Tide _____ **Inlet Armoring** NONE NOT EXTENSIVE EXTENSIVE

Structure Length (Overall length from inlet to outlet in ft.) _____

Relative Water Depth <0.10 0.10-0.24 0.25-0.49 0.50-0.74 0.75-0.99 ≥1.0

Structure Substrate Type (Pick one) NONE MUCK/SILT SAND GRAVEL COBBLE BOULDER BEDROCK UNKNOWN

Structure Substrate Matches Stream NONE COMPARABLE CONTRASTING NOT APPROPRIATE (e.g. RIP RAP) UNKNOWN

Structure Substrate Coverage NONE 25%-50% 50%-75% 75%-99% 100% UNKNOWN

Structure Slope (Relative to Channel) COMPARABLE SUBSTANTIALLY FLATTER SUBSTANTIALLY STEEPER

Other Barrier Type NONE SEDIMENT BLOCKAGE DEBRIS FENCING PIPES DEFORMATION FREE FALL
 OTHER (DESCRIBE IN COMMENTS SECTION)

Other Barrier Severity NONE MINOR MODERATE SEVERE NO AQUATIC PASSAGE

Dry Passage for Terrestrial Wildlife YES NO UNKNOWN **Height above Dry Passage (ft.)** _____

Structure Notes/Comments

OUTLET

INLET

ADDITIONAL CONDITIONS

Structure Shape & Dimensions

- 1) Select the Structure Shape number from the diagrams below and record it on the form for Inlet and Outlet Shape.
- 2) Record on the form in the appropriate blanks dimensions **A**, **B**, **C** and **D** as shown in the diagrams;
C captures the width of water or substrate, whichever is wider; for dry culverts without substrate, C = 0.
D is the depth of water -- be sure to measure inside the structure; for dry culverts, D = 0.
- 3) Record Structure Length (**L**). (Record abutment height (**E**) only for Type 7 Structures.)
- 4) For multiple culverts, also record the Inlet and Outlet shape and dimensions for each additional culvert.

NOTE: Culverts 1, 2 & 4 may or may not have substrate in them, so height measurements (B) are taken from the level of the "stream bed", whether that bed is composed of substrate or just the inside bottom surface of a culvert (grey arrows below show measuring to bottom, black arrows show measuring to substrate).

