

Entered (J)

Stream & Location: Rocky River DST Cedar Point Road RM: 1185 Date: 6/30/70

Scorers Full Name & Affiliation: Justin Telep Northeast Ohio Regional Sewer District Office verified location

River Code: 13-001-000 STORET #: T01W19 Lat./Long.: 41.4083 -81.8852

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES, estimate % or note every type present. Includes categories: BEST TYPES, OTHER TYPES, POOL RIFFLE, ORIGIN, QUALITY, and EMBEDDEDNESS.

2) INSTREAM COVER Indicate presence 0 to 3. Includes categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, CURBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS.

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average). Includes categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY.

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK. Includes categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY.

5) POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY. Includes Recreation Potential Primary Contact and Secondary Contact.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species. Includes categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS.

6) GRADIENT (7.35 ft/mi) DRAINAGE AREA (267 mi^2). Includes categories: GRADIENT, DRAINAGE AREA, %POOL, %GLIDE, %RUN, %RIFFLE.

**AJ SAMPLED REACH**

Check ALL that apply

**METHOD**

- B.JAT
- WADE
- L. LINE
- OTHER

**DISTANCE**

- 0.5 Km
- 0.2 Km
- 0.15 Km
- 0.12 Km
- OTHER

**CLARITY**

- 1st - sample pass - 2nd
- < 20 cm
  - 20-40 cm
  - 40-70 cm
  - > 70 cm / CTB
  - SECCHI DEPTH

meters

**CANOPY**

- > 85% - OPEN
- 55% - 85%
- 30% - 55%
- 10% - 30%
- < 10% - CLOSED

**CJ RECREATION**

AREA DEPTH POOL:  > 100ft  > 3ft

**DJ MAINTENANCE**

- PUBLIC / PRIVATE / BOTH / NA
- ACTIVE / HISTORIC / BOTH / NA
- YOUNG-SUCCESSION-OLD
- SPRAY / SNAGS / REMOVED
- MODIFIED / DIPPED OUT / NA
- LEVEED / ONE SIDED
- RELOCATED / CUTOFFS
- MOVING-BEDLOAD-STABLE
- ARMoured / SLUMPS
- ISLANDS / SCoured
- FLOOD CONTROL / DRAINAGE

**EJ ISSUES**

- WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT & GRIME
- CONTAMINATED / LANDFILL
- BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING
- BANK / EROSION / SUREFACE
- FALSE BANK / MANURE / LAGOON
- WASHH<sub>2</sub>O / TILE / H<sub>2</sub>O TABLE
- AGID / MINE / QUARRY / FLOW
- NATURAL / WETLAND / STAGNANT
- PARK / GOLF / LAWN / HOME
- ATMOSPHERE / DATA PAUCITY

Circle some & COMMENT

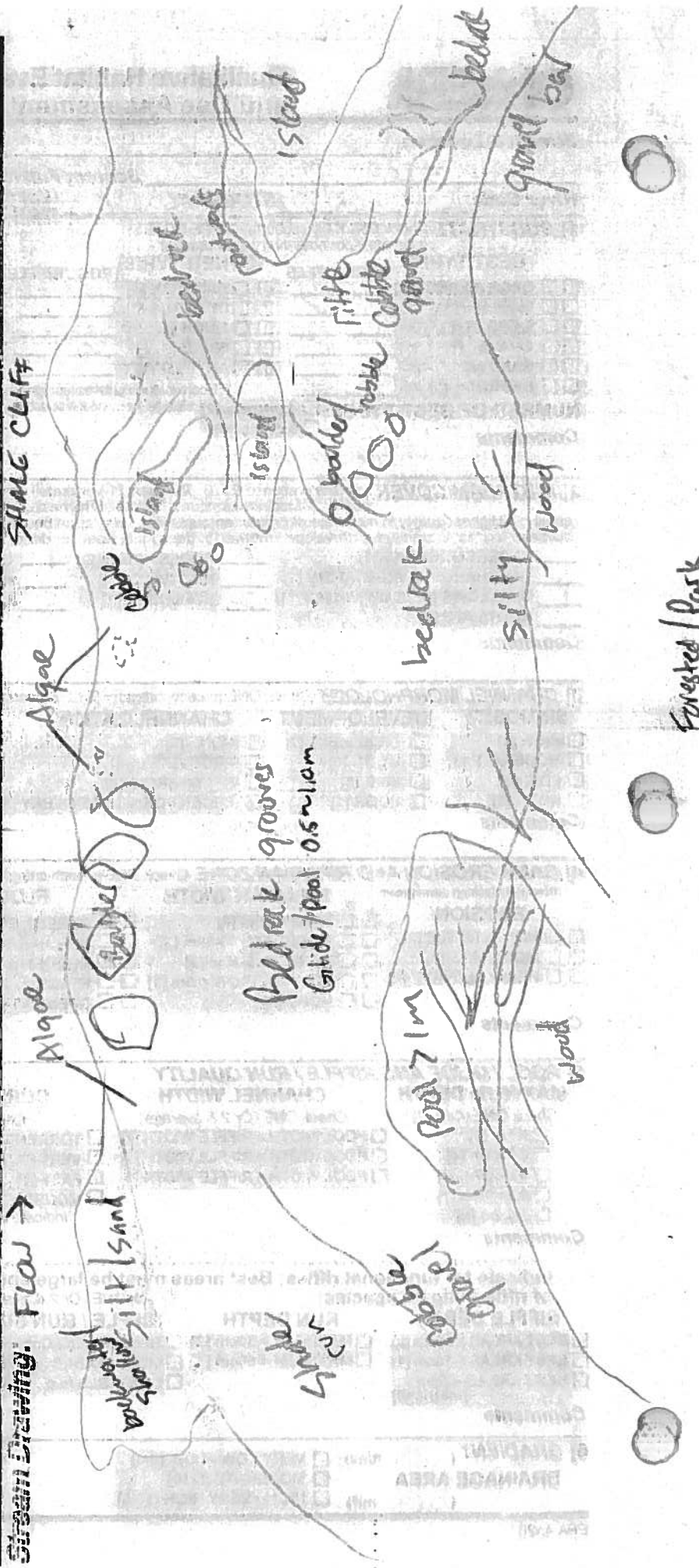
**FJ MEASUREMENTS**

- width
- depth
- max. depth
- bankfull width
- bankfull x depth
- W/D ratio
- bankfull max. depth
- floodprone x width
- entrench. ratio

Legacy Tree:

Comment: RE: Reach consistency/Is reach typical of stream?, Recreation/Observed - Inferred, Other/ Sampling observations, Concerns, Access directions, etc.  
 Boulder and cobble over bedrock throughout zone. Fewer stretch with good flow and cobble riffles and runs. Upper stretch has grooved shale bedrock with deep holes throughout. A few very productive laydowns on river right provided shade and cover in what seemed like an extremely hot water temperature.

**Stream Drawing: Flow**



Stream & Location: Rocky River

DST Abram Creek

RM: 1030 Date: 8/24/20

Mark Matheson

Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District

River Code: 13-001-000 STORET #: TOLWIS Lat./Long.: 41.4176 -81.8596

Office verified location

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

Check ONE (Or 2 & average)

Substrate assessment grid with categories: BEST TYPES, OTHER TYPES, POOL RIFFLE, ORIGIN, QUALITY. Includes checkboxes for Bldr/Slabs, Boulder, Cobble, Gravel, Sand, Bedrock, Hardpan, Detritus, Muck, Silt, Artificial, Limestone, Tills, Wetlands, Sandstone, Rip/Rap, Lacustrine, Shale, Coal Fines, Heavy, Moderate, Normal, Free, Extensive, Moderate, Normal, None.

NUMBER OF BEST TYPES: 4 or more [2] 3 or less [0]

Comments

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

AMOUNT Check ONE (Or 2 & average)

Instream Cover assessment grid with categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS. Includes checkboxes for Extensive, Moderate, Sparse, Nearly Absent.

Comments

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

Channel Morphology assessment grid with categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes checkboxes for High, Moderate, Low, None, Excellent, Good, Fair, Poor, Recovered, Recovering, Recent or No Recovery, High, Moderate, Low.

Comments

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

Bank Erosion and Riparian Zone assessment grid with categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY. Includes checkboxes for None/Little, Moderate, Heavy/Severe, Wide, Moderate, Narrow, Very Narrow, None, Forest/Swamp, Shrub/Old Field, Residential, Fenced Pasture, Open Pasture, Rowcrop, Conservation Tillage, Urban/Industrial, Mining/Construction.

Comments

5) POOL / GLIDE AND RIFFLE / RUN QUALITY

Pool/Glide and Riffle/Run Quality assessment grid with categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY, Recreation Potential. Includes checkboxes for depth, width, velocity, and recreation potential.

Comments

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average)

Riffle/Run Substrate assessment grid with categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes checkboxes for riffle/run characteristics.

Comments

Gradient and Drainage Area assessment grid with categories: GRADIENT, DRAINAGE AREA. Includes checkboxes for gradient levels and input fields for pool, glide, run, riffle percentages.

**AJ SAMPLED REACH**

Check ALL that apply

**METHOD**

- B-JAY
- WADE
- L-LINE
- OTHER

**DISTANCE**

- 0.5 Km
- 0.2 Km
- 0.15 Km
- 0.12 Km
- OTHER

**CLARITY**

- 1st -sample pass-- 2nd
- < 20 cm
- 20-40 cm
- 40-70 cm
- > 70 cm/CTB
- SECCHI DEPTH

**CANOPY**

- > 85% - OPEN
- 55% - 85%
- 30% - 55%
- 10% - 30%
- < 10% - CLOSED

**CJ RECREATION**

POOL:  >100ft<sup>2</sup>  >3ft

**BJ AESTHETICS**

- NUISANCE ALGAE
- INVASIVE MACROPHYTES
- EXCESS TURBIDITY
- DISCOLORATION
- FOAM / SCUM
- OIL SHEEN
- TRASH / LITTER
- NUISANCE ODOR
- SLUDGE DEPOSITS
- CSOs/SOs/OUTFALLS

**DJ MAINTENANCE**

- PUBLIC / PRIVATE / BOTH / NA
- ACTIVE / HISTORIC / BOTH / NA
- YOUNG-SUCCESSION-OLD
- SPRAY-/SNAG-/REMOVED
- MODIFIED / DIPPED OUT / NA
- LEVEED / ONE-SIDED
- RELOCATED / CUTOFFS
- MOVING-BEDLOAD-STABLE
- ARMOURD / SLUMPS
- ISLANDS / SCOURD
- IMPOUNDED / DESICCATED
- FLOOD CONTROL / DRAINAGE

**EJ ISSUES**

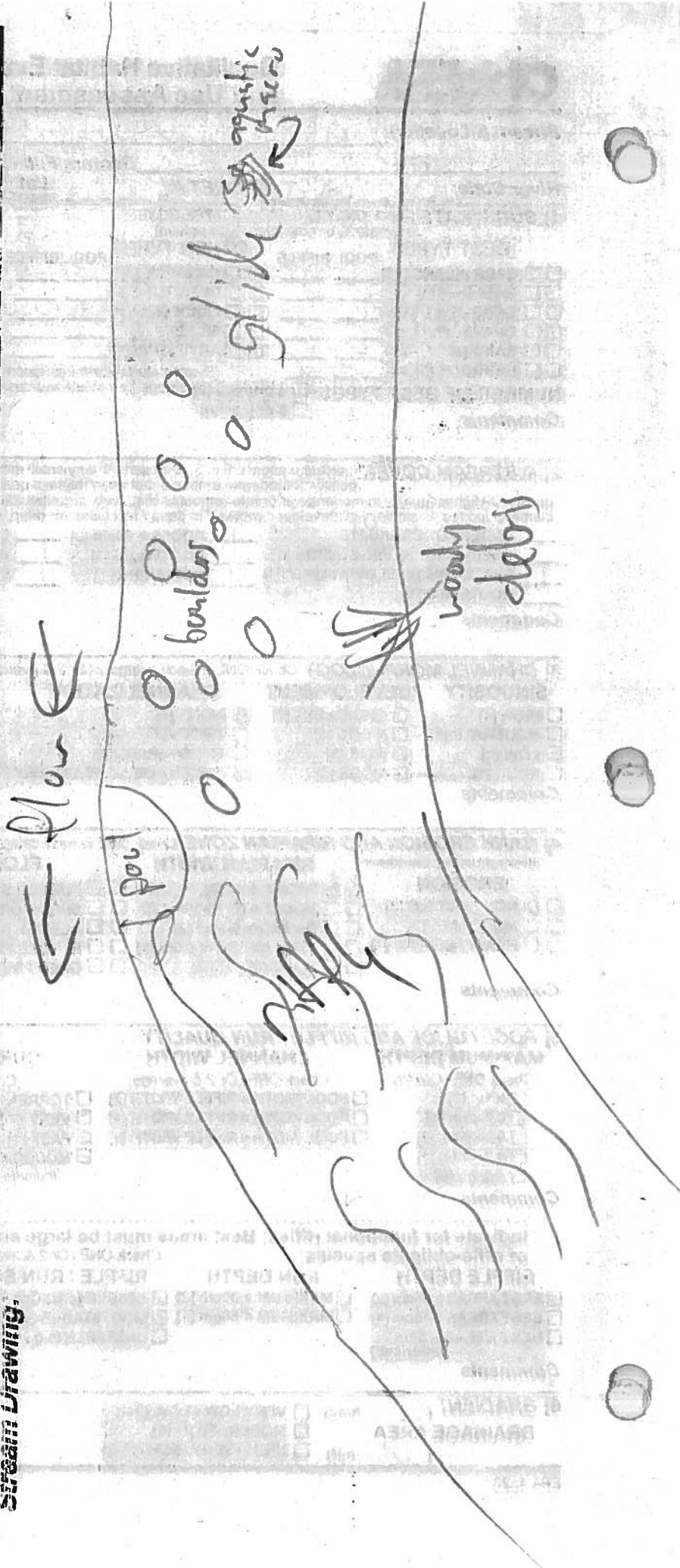
- WWTP / CSO / NPDES / INDUSTRY
- HARDENED / URBAN / DIRT & GRIME
- CONTAMINATED / LANDFILL
- BMPs-CONSTRUCTION-SEDIMENT
- LOGGING / IRRIGATION / COOLING
- BANK / EROSION / SURFACE
- FALSE BANK / MANURE / LAGOON
- WASH H<sub>2</sub>O / TILE / H<sub>2</sub>O TABLE
- ACID / MINE / QUARRY / FLOW
- NATURAL / WETLAND / STAGNANT
- PARK / GOLF / LAWN / HOME
- ATMOSPHERE / DATA PAUCITY

**FJ MEASUREMENTS**

- width
- depth
- max. depth
- bankfull width
- bankfull x depth
- W/D ratio
- bankfull max. depth
- floodprone x<sup>2</sup> width
- entrench. ratio

Legacy Tree:

**Stream Drawing**



Stream & Location: Rocky River UST Puritas Ave RM: 8.30 Date: 7/16/00

Manfession, Mark Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District

River Code: 13-001-000 STORET #: 501810 Lat./ Long.: 41.4354 -81.8435 Office verified location

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

Substrate assessment grid with categories: BEST TYPES, OTHER TYPES, ORIGIN, and QUALITY. Includes checkboxes for BLDR/SLABS, BOULDER, COBBLE, GRAVEL, SAND, BEDROCK, etc.

NUMBER OF BEST TYPES: 5+8+2+0+0+0

2) INSTREAM COVER Indicate presence 0 to 3: 0: Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts

Instream Cover assessment grid with categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MAGROPHYTES, LOGS OR WOODY DEBRIS.

Comments: 2+5

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

Channel Morphology assessment grid with categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY.

Comments: 2+5+6+3

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

Bank Erosion and Riparian Zone assessment grid with categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY, CONSERVATION TILLAGE, URBAN OR INDUSTRIAL, MINING / CONSTRUCTION.

Comments: 3+4+1

5) POOL / GLIDE AND RIFFLE / RUN QUALITY

Pool / Glide and Riffle / Run Quality assessment grid with categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY, Recreation Potential.

Comments: 2+1.5+3

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:

Riffle / Run Quality assessment grid with categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS.

Comments: 2+2+2+1.5

6) GRADIENT (6.13 ft/mi) DRAINAGE AREA (282 m^2) %POOL: %GLIDE: %RUN: %RIFFLE:

**AJ SAMPLED REACH**

Check ALL that apply

**METHOD STAGE**

- B/JAT
  - WADE
  - L. LINE
  - OTHER
- 1st-sample pass-- 2nd
- HIGH
  - UP
  - NORMAL
  - LOW
  - DRY

**DISTANCE**

- 0.5 Km
- 0.2 Km
- 0.15 Km
- 0.12 Km
- OTHER

**CLARITY**

- < 20 cm
- 20-40 cm
- 40-70 cm
- > 70 cm/CTB
- SECCHI DEPTH

meters

**CANOPY**

- > 85%-OPEN
- 55%-<85%
- 30%-<55%
- 10%-<30%
- <10%-CLOSED

**CJ RECREATION**

- AREA
- DEPTH
- POOL:  >100R?  >3ft

**BJ AESTHETICS**

- NUISANCE ALGAE
- INVASIVE MACROPHYTES
- EXCESS TURBIDITY
- DISCOLORATION
- FOAM / SCUM
- OIL SHEEN
- TRASH / LITTER
- NUISANCE ODOR
- SLUDGE DEPOSITS
- CSOs/SSOs/OUTFALLS

**DJ MAINTENANCE**

- PUBLIC / PRIVATE / BOTH / NA
- ACTIVE / HISTORIC / BOTH / NA
- YOUNG-SUCCESSION-OLD
- SPRAY / SNAG / REMOVED
- MODIFIED / DIPPED OUT / NA
- LEVEED / ONE SIDED
- RELOCATED / CUTOFFS
- MOVING-BEDLOAD-STABLE
- ARMoured / SLUMPS
- ISLANDS / SCoured
- IMPOUNDED / DESICCATED
- FLOOD CONTROL / DRAINAGE

**EJ ISSUES**

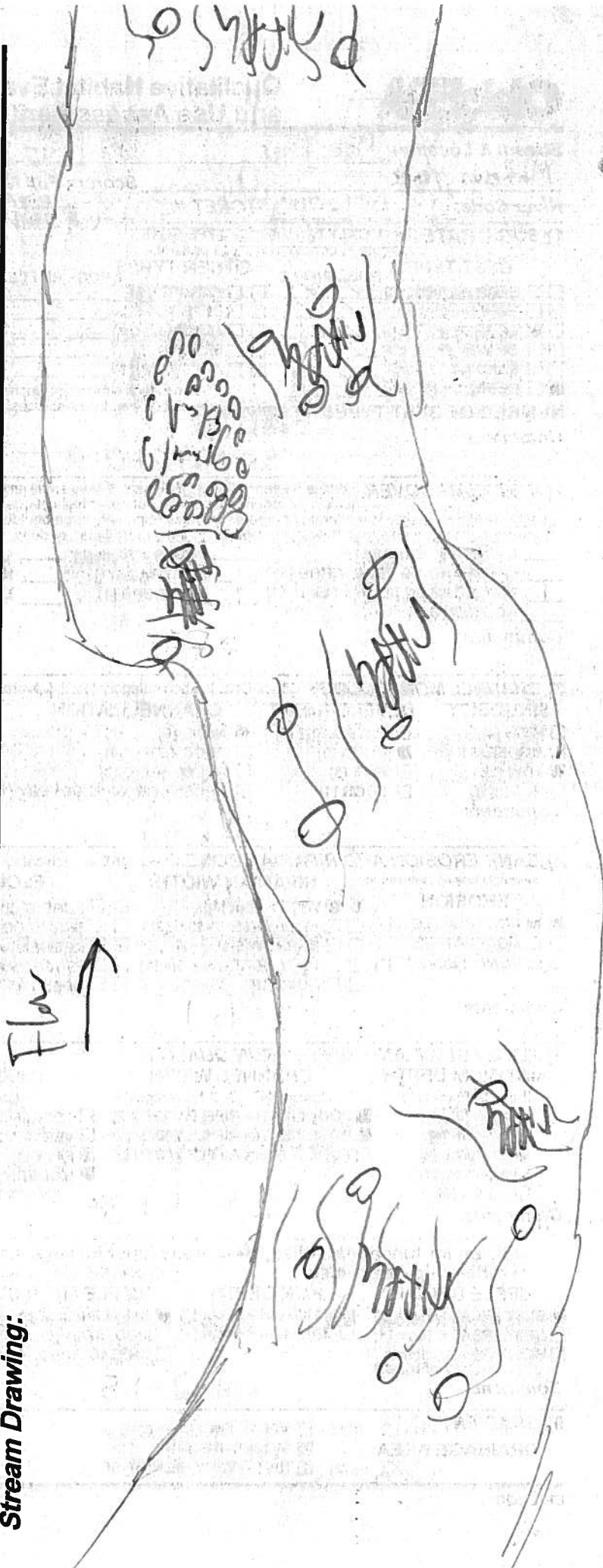
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- CONTAMINATED / LANDFILL
- BMPs-CONSTRUCTION-SEDIMENT
- LOGGING / IRRIGATION / COOLING
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- FALSE BANK / MANURE / LAGOON
- WASH H<sub>2</sub>O / TILE / H<sub>2</sub>O TABLE
- ACID / MINE / QUARRY / FLOW
- NATURAL / WETLAND / STAGNANT
- PARK / GOLF / LAWN / HOME
- ATMOSPHERE / DATA PAUCITY

**FJ MEASUREMENTS**

- $\bar{x}$  width
- $\bar{x}$  depth
- max. depth
- $\bar{x}$  bankfull width
- bankfull  $\bar{x}$  depth
- W/D ratio
- bankfull max. depth
- floodprone  $\bar{x}^2$  width
- entrench. ratio

Legacy Tree:

**Stream Drawing:**



Stream & Location: Rocky River Near Tyler Barn

RM: 4.80 Date: 07/02/20

Seth Notheman

Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District

River Code: 13-001-000 STORET # T01W07 Lat/Long: 41.4644 -81.8211

Office verified location

1] SUBSTRATE Check ONLY Two substrate TYPE BOXES: estimate % or note every type present

Substrate assessment grid with categories: BEST TYPES, OTHER TYPES, ORIGIN, and QUALITY. Includes checkboxes for Bldr/Slabs, Boulder, Cobble, Gravel, Sand, Bedrock, Hardpan, Detritus, Muck, Silts, Artificial, Limestone, Fills, Wetlands, Rip/Rap, Lacustrine, Shale, Coal Fines, and Quality levels (Heavy, Moderate, Normal, Free, Extensive, None).

2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

Instream Cover assessment grid with categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, KBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS, and AMOUNT (Extensive, Moderate, Sparse, Nearly Absent).

3] GHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

Channel Morphology assessment grid with categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY, and Comments: Pools excellent, run good but not extensive.

4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

Bank Erosion and Riparian Zone assessment grid with categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY, and Riparian Land Use (Conservation Tillage, Urban/Industrial, Mining/Construction).

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

Pool/Glide and Riffle/Run Quality assessment grid with categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY, and Recreation Potential (Primary/Secondary Contact).

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). NO RIFFLE [metric=0]

Riffle/Run Quality assessment grid with categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, and RIFFLE / RUN EMBEDDEDNESS.

6] GRADIENT (7.46 ft/mi) DRAINAGE AREA (289 m^2) and Gradient assessment grid with categories: VERY LOW, MODERATE, HIGH, and % POOL, % GLIDE, % RUN, % RIFFLE.

Comment RE: Reach consistency/Is reach typical of stream? . Recreation/ Observed - Inferred, Other/ Sampling observations, Concerns, Access directions, etc.

**A) SAMPLED REACH**

Check ALL that apply

**METHOD**

B.JAT  WADE  L.LINE  OTHER

**STAGE**

1st - sample pass - 2nd

HIGH  UP  NORMAL  LOW  DRY

**DISTANCE**

0.5 Km  0.2 Km  0.15 Km  0.12 Km  OTHER

**CLARITY**

1st - sample pass - 2nd

< 20 cm  20-40 cm  40-70 cm  > 70 cm/ CTB

SECCHI DEPTH

1st \_\_\_\_\_ cm  
2nd \_\_\_\_\_ cm

**CANOPY**

> 85% - OPEN  55% - 85%  20% - 55%  10% - 30%  < 10% - CLOSED

**CJ RECREATION** AREA DEPTH

POOL:  > 100ft  > 3ft

**BJ AESTHETICS**

NUISANCE ALGAE  INVASIVE MACROPHYTES  EXCESS TURBIDITY  DISCOLORATION  FOAM / SCUM  OIL SHEEN  TRASH / LITTER  NUISANCE ODOR  SLUDGE DEPOSITS  CSOs/SSOs/OUTFALLS

**DJ MAINTENANCE** Circle some & COMMENT

PUBLIC / PRIVATE / BOTH / NA  ACTIVE / HISTORIC / BOTH / NA  YOUNG-SUGGESTION-OLD  SPRAY / SNAG / REMOVED  MODIFIED / DIPPED OUT / NA  LEVEED / ONE-SIDED  RELOCATED / CUTOFFS  MOVING-BEDLOAD-STABLE  ARMOURD / SLUMPS  ISLANDS / SCoured  IMPROUNDED / DESICCATED  FLOOD CONTROL / DRAINAGE

**EJ ISSUES**

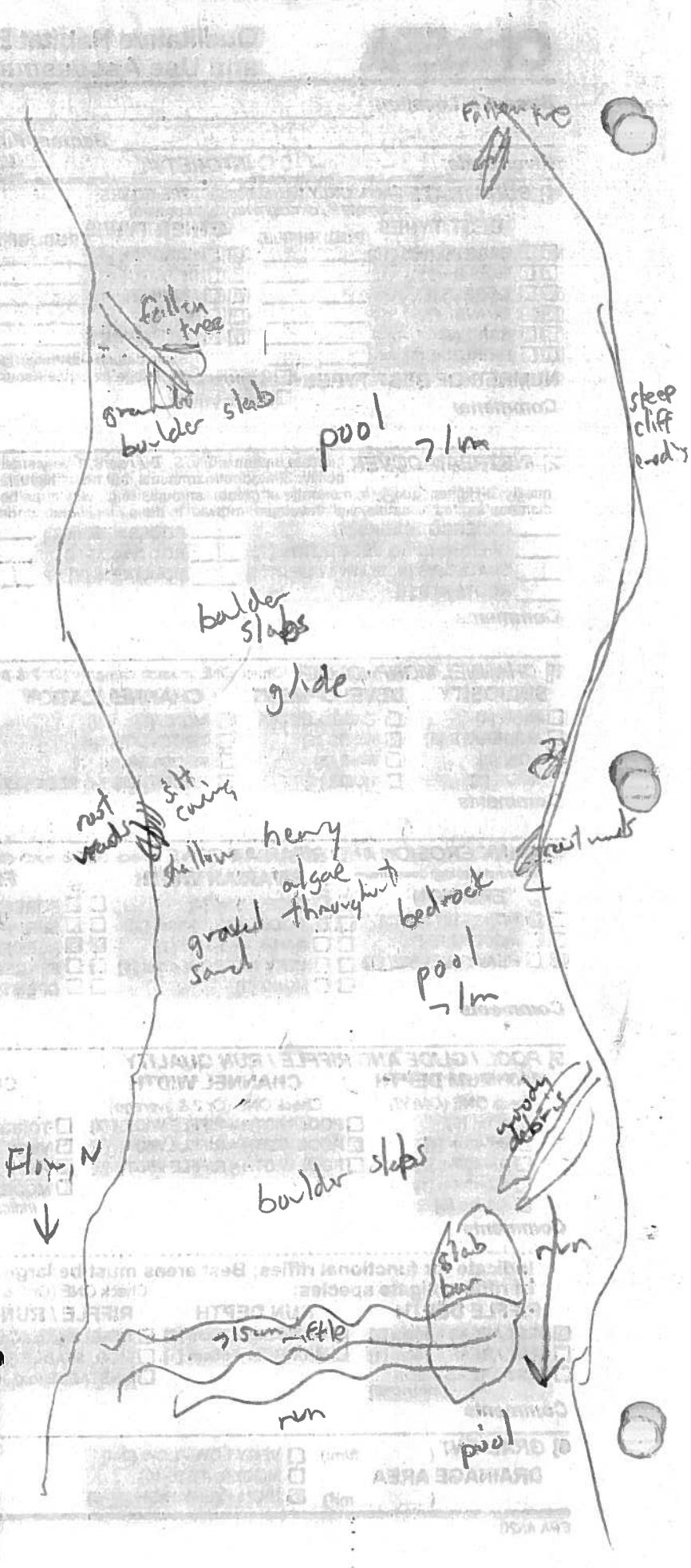
WWTP / CSO / NPDES / INDUSTRY  HARDENED / URBAN / DIRT & GRIME  CONTAMINATED / LANDFILL  BMPs-CONSTRUCTION-SEDIMENT  LOGGING / IRRIGATION / COOLING  BANK / EROSION / SURFACE  FALSE BANK / MANURE / LAGOON  WASH H<sub>2</sub>O / TILE / H<sub>2</sub>O TABLE  ACID / MINE / QUARRY / FLOW  NATURAL / WETLAND / STAGNANT  PARK / GOLF / LAWN / HOME  ATMOSPHERE / DATA PAUCITY

**FJ MEASUREMENTS**

width  depth  max. depth  bankfull width  bankfull depth  W/D ratio  bankfull max. depth  floodprone x<sup>2</sup> width  entrench. ratio

Legacy Tree:

**Stream Drawing.**





**Stream & Location:** Rocky River UST Hilliard Blvd. **RM:** 2.50 **Date:** 7/22/20

**Scorer's Full Name & Affiliation:** Mark Matheson Northeast Ohio Regional Sewer District

**River Code:** 13-001-000 **STORET #:** Tolwog **Lat./Long.:** 41.4712781, -82.39 **Office verified location**

**1] SUBSTRATE** Check ONLY Two substrate TYPE BOXES, estimate % or note every type present

| BEST TYPES   |   | OTHER TYPES                             |                                      | ORIGIN   |                               | QUALITY  |   |
|--|---|---|--------------------------------------|--|-------------------------------|--|---|
| <input checked="" type="checkbox"/> BLDR / SLABS [10]  | <input checked="" type="checkbox"/> POOL RIFFLE | <input type="checkbox"/> HARDPAN [4]    | <input type="checkbox"/> POOL RIFFLE | <input type="checkbox"/> LIMESTONE [1]                       | <input type="checkbox"/> SILT | <input type="checkbox"/> HEAVY [-2]                      | <b>Substrate</b><br><div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; text-align: center; line-height: 40px; margin: 5px auto;">20</div> Maximum 20 |
| <input type="checkbox"/> BOULDER [9]   | <input checked="" type="checkbox"/>             | <input type="checkbox"/> DETRITUS [3]   |                                      | <input type="checkbox"/> TILLS [1]                           |                               | <input type="checkbox"/> MODERATE [-1]                   |   |
| <input type="checkbox"/> COBBLE [8]  | <input checked="" type="checkbox"/>             | <input type="checkbox"/> MUCK [2]       |                                      | <input type="checkbox"/> WETLANDS [0]                        |                               | <input type="checkbox"/> NORMAL [0]                      |   |
| <input type="checkbox"/> GRAVEL [7]  | <input checked="" type="checkbox"/>             | <input type="checkbox"/> SILT [2]       |                                      | <input type="checkbox"/> HARDPAN [0]                         |                               | <input type="checkbox"/> FREE [1]                        |   |
| <input type="checkbox"/> SAND [6]  | <input checked="" type="checkbox"/>             | <input type="checkbox"/> ARTIFICIAL [0] |                                      | <input type="checkbox"/> SANDSTONE [0]                       |                               | <input type="checkbox"/> EXTENSIVE [-2]                  |   |
| <input type="checkbox"/> BEDROCK [5]   | <input checked="" type="checkbox"/>             |   |                                      | <input type="checkbox"/> RIP/RAP [0]                         |                               | <input type="checkbox"/> MODERATE [-1]                   |   |
| <b>NUMBER OF BEST TYPES:</b> <input type="checkbox"/> 4 or more [2] <input type="checkbox"/> 3 or less [0] |   |   |                                      | (Score natural substrates; ignore sludge from point-sources) |                               | <b>EMBEDDEDNESS</b><br><input type="checkbox"/> NONE [1] |   |

**Comments**

**2] INSTREAM COVER** Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.)

|   |   |   | AMOUNT  |  |
|---|---|---|---|--|
| <input type="checkbox"/> UNDERCUT BANKS [1]           | <input type="checkbox"/> POOLS > 70cm [2] | <input type="checkbox"/> CKBOWS, BACKWATERS [1]   | Check ONE (Or 2 & average)<br><input type="checkbox"/> EXTENSIVE >75% [11]<br><input type="checkbox"/> MODERATE 25-75% [7]<br><input checked="" type="checkbox"/> SPARSE 5-<25% [3]<br><input type="checkbox"/> NEARLY ABSENT <5% [1] |  |
| <input type="checkbox"/> OVERHANGING VEGETATION [1]   | <input type="checkbox"/> ROOTWADS [1]     | <input type="checkbox"/> AQUATIC MACROPHYTES [1]  |   |  |
| <input type="checkbox"/> SHALLOWS (IN SLOW WATER) [1] | <input type="checkbox"/> BOULDERS [1]     | <input type="checkbox"/> LOGS OR WOODY DEBRIS [1] |   |  |
| <input type="checkbox"/> ROOTMATS [1]                 |   |   |   |  |

**Comments**

**Cover**  
Maximum 20 8

**3] CHANNEL MORPHOLOGY** Check ONE in each category (Or 2 & average)

| SINUOSITY                                   | DEVELOPMENT                                  | CHANNELIZATION                                     | STABILITY                             |
|---|--|--|---------------------------------------|
| <input type="checkbox"/> HIGH [4]           | <input type="checkbox"/> EXCELLENT [7]       | <input type="checkbox"/> NONE [6]                  | <input type="checkbox"/> HIGH [3]     |
| <input type="checkbox"/> MODERATE [3]       | <input checked="" type="checkbox"/> GOOD [5] | <input type="checkbox"/> RECOVERED [4]             | <input type="checkbox"/> MODERATE [2] |
| <input checked="" type="checkbox"/> LOW [2] | <input type="checkbox"/> FAIR [3]            | <input type="checkbox"/> RECOVERING [3]            | <input type="checkbox"/> LOW [1]      |
| <input type="checkbox"/> NONE [1]           | <input type="checkbox"/> POOR [1]            | <input type="checkbox"/> RECENT OR NO RECOVERY [1] |                                       |

**Comments**

**Channel**  
Maximum 20 15.5

**4] BANK EROSION AND RIPARIAN ZONE** Check ONE in each category for EACH BANK (Or 2 per bank & average)

| EROSION   |   | RIPARIAN WIDTH                            |   | FLOOD PLAIN QUALITY                                       |  |
|---|---|---|---|---|--|
| <input checked="" type="checkbox"/> NONE / LITTLE [3] | <input type="checkbox"/> MODERATE [2]       | <input type="checkbox"/> WIDE > 50m [4]   | <input type="checkbox"/> MODERATE 10-50m [3]  | <input type="checkbox"/> FOREST SWAMP [3]                 | <input type="checkbox"/> CONSERVATION TILLAGE [1]  |
| <input type="checkbox"/> MODERATE [2]                 | <input type="checkbox"/> HEAVY / SEVERE [1] | <input type="checkbox"/> NARROW 5-10m [2] | <input type="checkbox"/> VERY NARROW < 5m [1] | <input type="checkbox"/> SHRUB OR OLD FIELD [2]           | <input type="checkbox"/> URBAN OR INDUSTRIAL [0]   |
| <input type="checkbox"/> HEAVY / SEVERE [1]           |   | <input type="checkbox"/> NONE [0]         |   | <input type="checkbox"/> RESIDENTIAL, PARK, NEW FIELD [1] | <input type="checkbox"/> MINING / CONSTRUCTION [0] |

**Comments**

**Riparian**  
Maximum 10 8.5

**5] POOL / GLIDE AND RIFFLE / RUN QUALITY**

| MAXIMUM DEPTH   | CHANNEL WIDTH   | CURRENT VELOCITY  | Recreation Potential   |
|---|---|---|--|
| Check ONE (ONLY)<br><input checked="" type="checkbox"/> > 1m [6]<br><input type="checkbox"/> 0.7-<1m [4]<br><input type="checkbox"/> 0.4-<0.7m [2]<br><input type="checkbox"/> 0.2-<0.4m [1]<br><input type="checkbox"/> < 0.2m [0] | Check ONE (Or 2 & average)<br><input type="checkbox"/> POOL WIDTH > RIFFLE WIDTH [2]<br><input checked="" type="checkbox"/> POOL WIDTH = RIFFLE WIDTH [1]<br><input type="checkbox"/> POOL WIDTH < RIFFLE WIDTH [0] | Check ALL that apply<br><input type="checkbox"/> TORRENTIAL [-1]<br><input type="checkbox"/> VERY FAST [1]<br><input type="checkbox"/> FAST [1]<br><input checked="" type="checkbox"/> MODERATE [1]<br><input type="checkbox"/> SLOW [1]<br><input type="checkbox"/> INTERSTITIAL [-1]<br><input type="checkbox"/> INTERMITTENT [-2]<br><input type="checkbox"/> EDDIES [1] | Primary Contact<br>Secondary Contact<br>(circle one and comment on back) |

**Comments**

**Pool / Current**  
Maximum 12 10

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:

| RIFFLE DEPTH  | RUN DEPTH   | RIFFLE / RUN SUBSTRATE   | RIFFLE / RUN EMBEDDEDNESS  |
|---|---|--|--|
| <input checked="" type="checkbox"/> BEST AREAS > 10cm [2]<br><input type="checkbox"/> BEST AREAS 5-10cm [1]<br><input type="checkbox"/> BEST AREAS < 5cm [metric=0] | <input checked="" type="checkbox"/> MAXIMUM > 50cm [2]<br><input type="checkbox"/> MAXIMUM < 50cm [1] | <input checked="" type="checkbox"/> STABLE (e.g., Cobble, Boulder) [2]<br><input type="checkbox"/> MOD. STABLE (e.g., Large Gravel) [1]<br><input type="checkbox"/> UNSTABLE (e.g., Fine Gravel, Sand) [0] | <input type="checkbox"/> NONE [2]<br><input checked="" type="checkbox"/> LOW [1]<br><input type="checkbox"/> MODERATE [0]<br><input type="checkbox"/> EXTENSIVE [-1] |

**Comments**

**Riffle / Run**  
Maximum 8 7

**6] GRADIENT ( 8.7 )** ft/mi)  VERY LOW - LOW [2-4]  MODERATE [6-10]  HIGH - VERY HIGH [10-6]

**DRAINAGE AREA ( 292 )** mi<sup>2</sup>

**%POOL:**  **%GLIDE:**

**%RUN:**  **%RIFFLE:**

**Gradient**  
Maximum 10 10

Comment RE: Reach consistency/Is reach typical of stream?, Recreation/ Observed - Inferred, Other/ Sampling observations, Concerns, Access directions, etc.

**AJ SAMPLED REACH**  
Check ALL that apply

**METHOD**  
 BJAT  
 WADE  
 L. LINE  
 OTHER

**STAGE**  
 1st sample pass-- 2nd  
 HIGH  
 UP  
 NORMAL  
 LOW  
 DRY

**DISTANCE**  
 0.5 Km  
 0.2 Km  
 0.15 Km  
 0.12 Km  
 OTHER

**CLARITY**  
 1st --sample pass-- 2nd  
 < 20 cm  
 20-40 cm  
 40-70 cm  
 > 70 cm/OTB  
 SECCHI DEPTH

meters  
**CANOPY**  
 > 85% - OPEN  
 65% - 85%  
 30% - 65%  
 10% - 30%  
 < 10% - CLOSED

**CJ RECREATION** AREA DEPTH  
 POOL:  > 100ft  > 3ft

**BJ AESTHETICS**  
 NUISANCE ALGAE  
 INVASIVE MACROPHYTES  
 EXCESS TURBIDITY  
 DISCOLORATION  
 FOAM / SCUM  
 OIL SHEEN  
 TRASH / LITTER  
 NUISANCE ODOR  
 SLUDGE DEPOSITS  
 CSO<sub>s</sub>/SSO<sub>s</sub>/OUTFALLS

**DJ MAINTENANCE** Circle some & COMMENT  
 PUBLIC / PRIVATE / BOTH / NA  
 ACTIVE / HISTORIC / BOTH / NA  
 YOUNG-SUCCESSION-OLD  
 SPRAY/ SNAG / REMOVED  
 MODIFIED / DIPPED OUT / NA  
 LEVEED / ONE SIDED  
 RELOCATED / CUTOFFS  
 MOVING-BEDLOAD-STABLE  
 ARMoured / SLUMPS  
 ISLANDS / SSOURED  
 FLOOD CONTROL / DRAINAGE

**EJ ISSUES**  
 WWTP / CSO / NPDES / INDUSTRY  
 HARDENED / URBAN / DIRT & GRIME  
 CONTAMINATED / LANDFILL  
 BMPs-CONSTRUCTION-SEDIMENT  
 LOGGING / IRRIGATION / COOLING  
 BANK / EROSION / SURFACE  
 FALSE BANK / MANURE / LAGOON  
 WASH H<sub>2</sub>O / TILE / H<sub>2</sub>O TABLE  
 ACID / MINE / QUARRY / FLOW  
 NATURAL / WETLAND / STAGNANT  
 PARK / GOLF / LAWN / HOME  
 ATMOSPHERE / DATA PAUCITY

**FJ MEASUREMENTS**  
 width  
 depth  
 max. depth  
 bankfull width  
 bankfull depth  
 W/D ratio  
 bankfull max. depth  
 floodprone x<sup>2</sup> width  
 entrench. ratio  
 Legacy Tree:

**Stream Drawing:**

