

Stream & Location: Euclid Creek UST Euclid Ave RM: 2.70 Date: 6/25/21

Mark Mateson

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

River Code: 19-041-000 STORET #: 200138 Lat./ Long.: 41.5658 -81.5358 Office verified location

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

Check ONE (Or 2 & average)

Substrate assessment table with categories: BEST TYPES, OTHER TYPES, ORIGIN, QUALITY. Includes handwritten scores and a 'Substrate' box with value 14.

NUMBER OF BEST TYPES: 4 or more [2] sludge from point-sources 3 or less [0]

Comments

5+7+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 (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 table with categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS.

Comments

1+2+1+1+1+1+7

Cover Maximum 20

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

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

Comments

2+5+6+2

Channel Maximum 20

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 table with categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY.

Comments

2.75+3.5+1

Riparian Maximum 10

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

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

Comments

6+2+1+1+1

Recreation Potential Primary Contact Secondary Contact

Pool / Current Maximum 12

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 table with categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS.

Comments

2+1+1.5+1

Riffle / Run Maximum 8

6] GRADIENT (69.2 ft/mi) DRAINAGE AREA (21.4 mi^2)

%POOL: %GLIDE: %RUN: %RIFFLE:

Gradient Maximum 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**

- BOAT
- 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**

AREA DEPTH 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/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
- ARMORED / SLUMPS
- ISLANDS / SCoured
- 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**

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

Legacy Tree:

**Stream Drawing:**



Stream & Location: Enclid Creek UST St. Claire Ave RM: 1.65 Date: 07/02/21

JUSTIN TELEP

Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District

River Code: 19-041-000 STORET #: 504250 Lat./Long.: 41.5738781 -81.5470 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, POOL RIFFLE, OTHER TYPES, POOL RIFFLE, ORIGIN, QUALITY. Includes handwritten checkmarks and a score box for 15.5.

NUMBER OF BEST TYPES: 4 or more [2] 3 or less [0] 13+2+1+0.5

Comments: Silt only in pool areas over shale. Lower riffle moved due to construction project

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.

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 handwritten checkmarks and a score box for 13.

Comments

Cover Maximum 20

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

Channel Morphology assessment grid with categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes handwritten checkmarks and a score box for 16.5.

Comments: 3+5+6+2.5

Channel Maximum 20

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

River right looking downstream

Bank Erosion and Riparian Zone assessment grid with categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY, CONSERVATION TILLAGE, URBAN OR INDUSTRIAL, MINING / CONSTRUCTION. Includes handwritten checkmarks and a score box for 5.75.

Comments: 2.25+3+0.5

Riparian Maximum 10

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

MAXIMUM DEPTH

CHANNEL WIDTH

CURRENT VELOCITY

Check ONE (ONLY!)

Check ONE (Or 2 & average)

Check ALL that apply

Pool / Glide and Riffle / Run Quality assessment grid with categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY. Includes handwritten checkmarks and a score box for 12.

Comments

Pool / Current Maximum 12

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 assessment grid with categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes handwritten checkmarks and a score box for 5.5.

Comments: Lower riffle mod. stable due to construction project moving riffle around

Riffle / Run Maximum 8

6] GRADIENT (16.2 ft/mi) DRAINAGE AREA (21.8 mi^2)

% POOL: % GLIDE: % RUN: % RIFFLE:

Gradient Maximum 10

**AJ SAMPLED REACH**  
Check ALL that apply

- METHOD**
- BOAT
  - 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

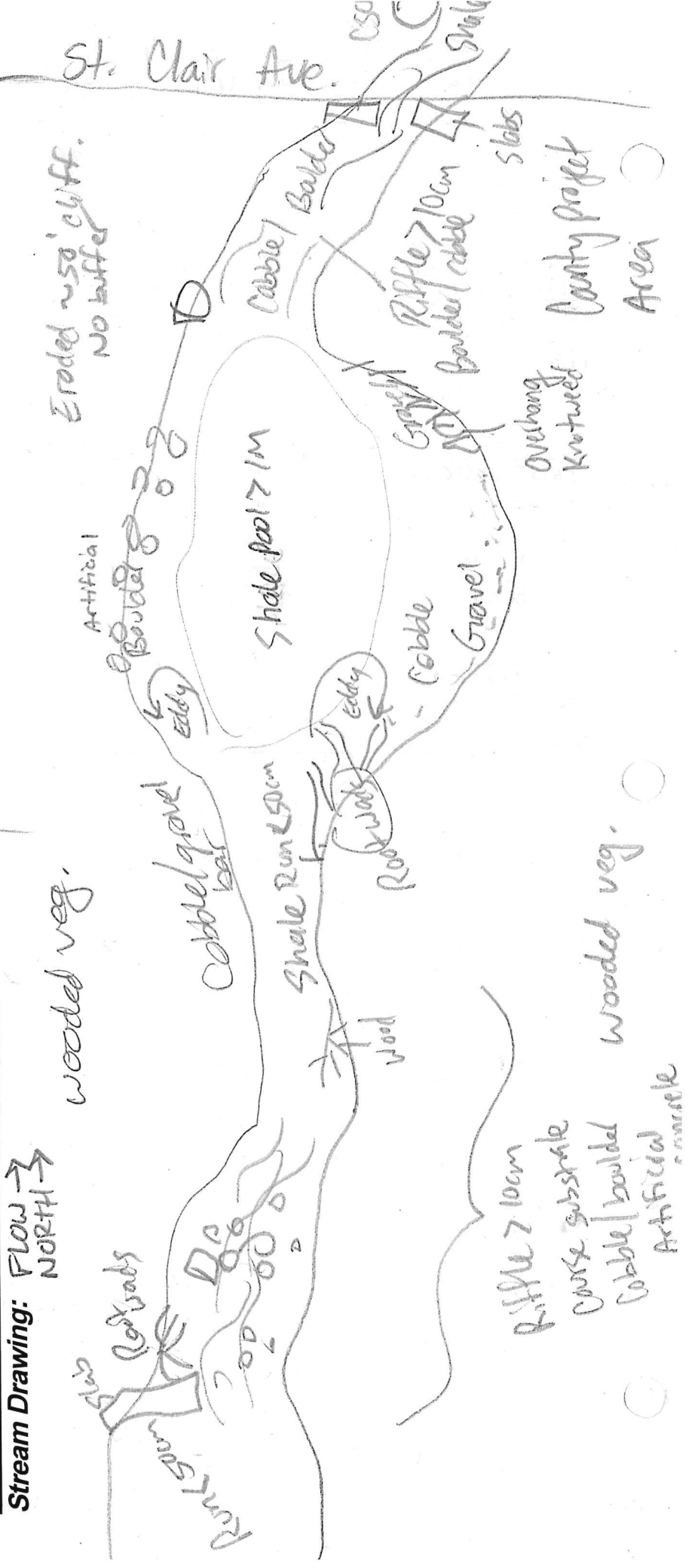
- CANOPY**
- > 85%- OPEN
  - 55%-<85%
  - 30%-<55%
  - 10%-<30%
  - <10%- CLOSED
- CJ RECREATION**
- AREA DEPTH
- POOL:  >100ft<sup>2</sup>  >3ft

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

Upstream 1/3 zone deep riffle with coarse cobble and boulder substrate. Lots of artificial concrete slabs throughout entire zone. Pool very deep for stream size, topping waders, and almost entirely shale. CCDPW in the middle of wire gabion installed downstream of St. Clair Ave, but not working today. They have constructed a road down to the stream on river right, shifting the riffle now to river left.

FJ MEASUREMENTS	EJ ISSUES	DJ MAINTENANCE	BJ AESTHETICS	Circle some & COMMENT
<ul style="list-style-type: none"> <li><input type="checkbox"/> <math>\bar{x}</math> width</li> <li><input type="checkbox"/> <math>\bar{x}</math> depth</li> <li><input type="checkbox"/> max. depth</li> <li><input type="checkbox"/> <math>\bar{x}</math> bankfull width</li> <li><input type="checkbox"/> bankfull <math>\bar{x}</math> depth</li> <li><input type="checkbox"/> W/D ratio</li> <li><input type="checkbox"/> bankfull max. depth</li> <li><input type="checkbox"/> floodprone <math>x^2</math> width</li> <li><input type="checkbox"/> entrench. ratio</li> <li>Legacy Tree:</li> </ul>	<ul style="list-style-type: none"> <li>WWTP / CSO / NPDES / INDUSTRY</li> <li>HARDENED / URBAN / DIRT&amp;GRIME</li> <li>CONTAMINATED / LANDFILL</li> <li>BMPs-CONSTRUCTION-SEDIMENT</li> <li>LOGGING / IRRIGATION / COOLING</li> <li>BANK / EROSION / SURFACE</li> <li>FALSE BANK / MANURE / LAGOON</li> <li>WASH H<sub>2</sub>O / TILE / H<sub>2</sub>O TABLE</li> <li>ACID / MINE / QUARRY / FLOW</li> <li>NATURAL / WETLAND / STAGNANT</li> <li>PARK / GOLF / LAWN / HOME</li> <li>ATMOSPHERE / DATA PAUCITY</li> </ul>	<ul style="list-style-type: none"> <li>PUBLIC / PRIVATE / BOTH / NA</li> <li>ACTIVE / HISTORIC / BOTH / NA</li> <li>YOUNG-SUCCESSION-OLD</li> <li>SPRAY / SNAG / REMOVED</li> <li>MODIFIED / DIPPED OUT / NA</li> <li>LEVEED / ONE SIDED</li> <li>RELOCATED / CUTOFFS</li> <li>MOVING-BEDLOAD-STABLE</li> <li>ARMOURED / SLUMPS</li> <li>ISLANDS / SCOURED</li> <li>IMPOUNDED / DESICCATED</li> <li>FLOOD CONTROL / DRAINAGE</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> NUISANCE ALGAE</li> <li><input type="checkbox"/> INVASIVE MACROPHYTES</li> <li><input type="checkbox"/> EXCESS TURBIDITY</li> <li><input type="checkbox"/> DISCOLORATION</li> <li><input type="checkbox"/> FOAM / SCUM</li> <li><input type="checkbox"/> OIL SHEEN</li> <li><input type="checkbox"/> TRASH / LITTER</li> <li><input type="checkbox"/> NUISANCE ODOR</li> <li><input type="checkbox"/> SLUDGE DEPOSITS</li> <li><input type="checkbox"/> CSOs/SSOs/OUTFALLS</li> </ul>	

**Stream Drawing:** FLOW NORTH →



Stream & Location: Euclid Creek DST Lakeshore Blvd. RM: 0.55 Date: 6/28/21

Scorers Full Name & Affiliation: Mark Maltesen Northeast Ohio Regional Sewer District Office verified location

River Code: 19-041-000 STORET #: F01A42 Lat./ Long.: 41.5833 -81.5594

1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present. Includes categories: BEST TYPES, OTHER TYPES, ORIGIN, and QUALITY. Includes handwritten notes: 6+7+2+1-0.5-1 and a circled score of 14.5.

2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts... Includes categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS. Includes handwritten notes: 1+2+1+1+1+7 and a circled score of 13.

3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average). Includes categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes handwritten notes: 2+2+6+3 and a circled score of 13.

4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average). Includes categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY. Includes handwritten notes: 3+2+1 and a circled score of 6.

5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY. Includes Recreation Potential box with Primary Contact circled. Includes handwritten notes: 6+1+0 and a circled score of 7.

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. Includes handwritten note: No riffle during sampling while seeds affect taking pipe. Includes a circled score of 0.

6] GRADIENT (5.9 ft/mi) DRAINAGE AREA (23 mi^2). Includes categories: VERY LOW - LOW, MODERATE, HIGH - VERY HIGH. Includes handwritten notes: %POOL, %GLIDE, %RUN, %RIFFLE and a circled score of 6.

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 STAGE**

- BOAT
  - 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 > 100ft<sup>2</sup>
- DEPTH > 3ft
- POOL

**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**

- 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**

- $\bar{x}$  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:**

