

14522

Stream & Location: Cuyahoga NW 1 mi dst Gr 82 dm RM: 19.2 Date: 8/11/14

STORET #: 300509 Scorer Name & Affiliation: Phillips

River Code: _____ Lat./ Long.: 41.3413, -81.5875 Office verified location

1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present. Check ONE (Or 2 & average)

BEST TYPES		OTHER TYPES		ORIGIN		QUALITY	
<input type="checkbox"/> BLDG /SLABS [10]	<input checked="" type="checkbox"/> POOL	<input type="checkbox"/> HARDPAN [4]	<input type="checkbox"/> POOL	<input type="checkbox"/> LIMESTONE [1]	<input type="checkbox"/> HEAVY [-2]	Substrate 	
<input type="checkbox"/> BOULDER [9]	<input checked="" type="checkbox"/> RIFFLE	<input type="checkbox"/> DETRITUS [3]	<input type="checkbox"/> RIFFLE	<input checked="" type="checkbox"/> OUTWASH [1]	<input type="checkbox"/> MODERATE [-1]		
<input checked="" type="checkbox"/> COBBLE [8]	<input checked="" type="checkbox"/> POOL	<input type="checkbox"/> MUCK [2]	<input type="checkbox"/> RIFFLE	<input type="checkbox"/> WETLANDS [0]	<input checked="" type="checkbox"/> NORMAL [0]	Maximum 20	
<input type="checkbox"/> GRAVEL [7]	<input checked="" type="checkbox"/> RIFFLE	<input type="checkbox"/> SILT [2]	<input checked="" type="checkbox"/> RIFFLE	<input type="checkbox"/> HARDPAN [0]	<input type="checkbox"/> FREE [1]		
<input type="checkbox"/> SAND [6]	<input checked="" type="checkbox"/> POOL	<input type="checkbox"/> ARTIFICIAL [0]	<input checked="" type="checkbox"/> RIFFLE	<input checked="" type="checkbox"/> SANDSTONE [0]	<input type="checkbox"/> EXTENSIVE [-2]	EMBEDDEDNESS 	
<input type="checkbox"/> BEDROCK [5]	<input checked="" type="checkbox"/> RIFFLE	(Score natural substrates; ignore sludge from point-sources)		<input type="checkbox"/> RIP/RAP [0]	<input checked="" type="checkbox"/> MODERATE [-1]		
NUMBER OF BEST TYPES: <input checked="" type="checkbox"/> 4 or more [2]		<input type="checkbox"/> 3 or less [0]		<input type="checkbox"/> LACUSTRINE [0]	<input type="checkbox"/> NONE [1]		
Comments _____				<input type="checkbox"/> SHALE [-1]	<input type="checkbox"/> NONE [1]		
				<input type="checkbox"/> COAL FINES [-2]			

A/R bed w/ cobble bedrock

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)

		AMOUNT	
<input type="checkbox"/> UNDERCUT BANKS [1]	<u>3</u> POOLS > 70cm [2]	<input type="checkbox"/> EXTENSIVE >75% [11]	Cover
<input type="checkbox"/> OVERHANGING VEGETATION [1]	<u>2</u> ROOTWADS [1]	<input checked="" type="checkbox"/> MODERATE 25-75% [7]	
<input type="checkbox"/> SHALLOWS (IN SLOW WATER) [1]	<u>2</u> BOULDERS [1]	<input type="checkbox"/> SPARSE 5-<25% [3]	Maximum 20
<input type="checkbox"/> ROOTMATS [1]	<u>2</u> LOGS OR WOODY DEBRIS [1]	<input type="checkbox"/> NEARLY ABSENT <5% [1]	
Comments _____			

bank erosion stabilization

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

SINUOSITY	DEVELOPMENT	CHANNELIZATION	STABILITY	Channel
<input type="checkbox"/> HIGH [4]	<input type="checkbox"/> EXCELLENT [7]	<input checked="" type="checkbox"/> NONE [6]	<input checked="" type="checkbox"/> HIGH [3]	Maximum 20
<input checked="" type="checkbox"/> MODERATE [3]	<input checked="" type="checkbox"/> GOOD [5]	<input type="checkbox"/> RECOVERED [4]	<input checked="" type="checkbox"/> MODERATE [2]	
<input 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 _____				

bank erosion

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	Riparian
<input type="checkbox"/> NONE / LITTLE [3]	<input checked="" type="checkbox"/> WIDE > 50m [4]	<input checked="" type="checkbox"/> FOREST, SWAMP [3]	Maximum 10
<input checked="" type="checkbox"/> MODERATE [2]	<input type="checkbox"/> MODERATE 10-50m [3]	<input checked="" type="checkbox"/> SHRUB OR OLD FIELD [2]	
<input type="checkbox"/> HEAVY / SEVERE [1]	<input type="checkbox"/> NARROW 5-10m [2]	<input type="checkbox"/> RESIDENTIAL, PARK, NEW FIELD [1]	
	<input type="checkbox"/> VERY NARROW < 5m [1]	<input type="checkbox"/> FENCED PASTURE [1]	
	<input type="checkbox"/> NONE [0]	<input type="checkbox"/> OPEN PASTURE, ROWCROP [0]	
Comments _____			

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

MAXIMUM DEPTH	CHANNEL WIDTH	CURRENT VELOCITY	Pool / Current
<input checked="" type="checkbox"/> > 1m [6]	<input checked="" type="checkbox"/> POOL WIDTH > RIFFLE WIDTH [2]	<input type="checkbox"/> TORRENTIAL [-1]	Maximum 12
<input type="checkbox"/> 0.7-<1m [4]	<input checked="" type="checkbox"/> POOL WIDTH = RIFFLE WIDTH [1]	<input checked="" type="checkbox"/> SLOW [1]	
<input type="checkbox"/> 0.4-<0.7m [2]	<input type="checkbox"/> POOL WIDTH < RIFFLE WIDTH [0]	<input checked="" type="checkbox"/> VERY FAST [1]	
<input type="checkbox"/> 0.2-<0.4m [1]		<input type="checkbox"/> INTERSTITIAL [-1]	
<input type="checkbox"/> < 0.2m [0]		<input checked="" type="checkbox"/> FAST [1]	
		<input checked="" type="checkbox"/> MODERATE [1]	
		<input checked="" type="checkbox"/> EDDIES [1]	
Comments _____			

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

6] GRADIENT (3.17 ft/mi) DRAINAGE AREA (_____ mi²) %POOL: %GLIDE: Gradient Maximum

complete procedure after 45 min walk along fork path

METHOD

- BOAT
- WADE
- L. LINE
- OTHER

SECCHI DEPTH

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

lots of ssp ~ 35 total w/ non natives. Many ssp present that aren't up st. from lots of small snags & boulders + 100ms tons of snags

DISTANCE

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

CANOPY

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

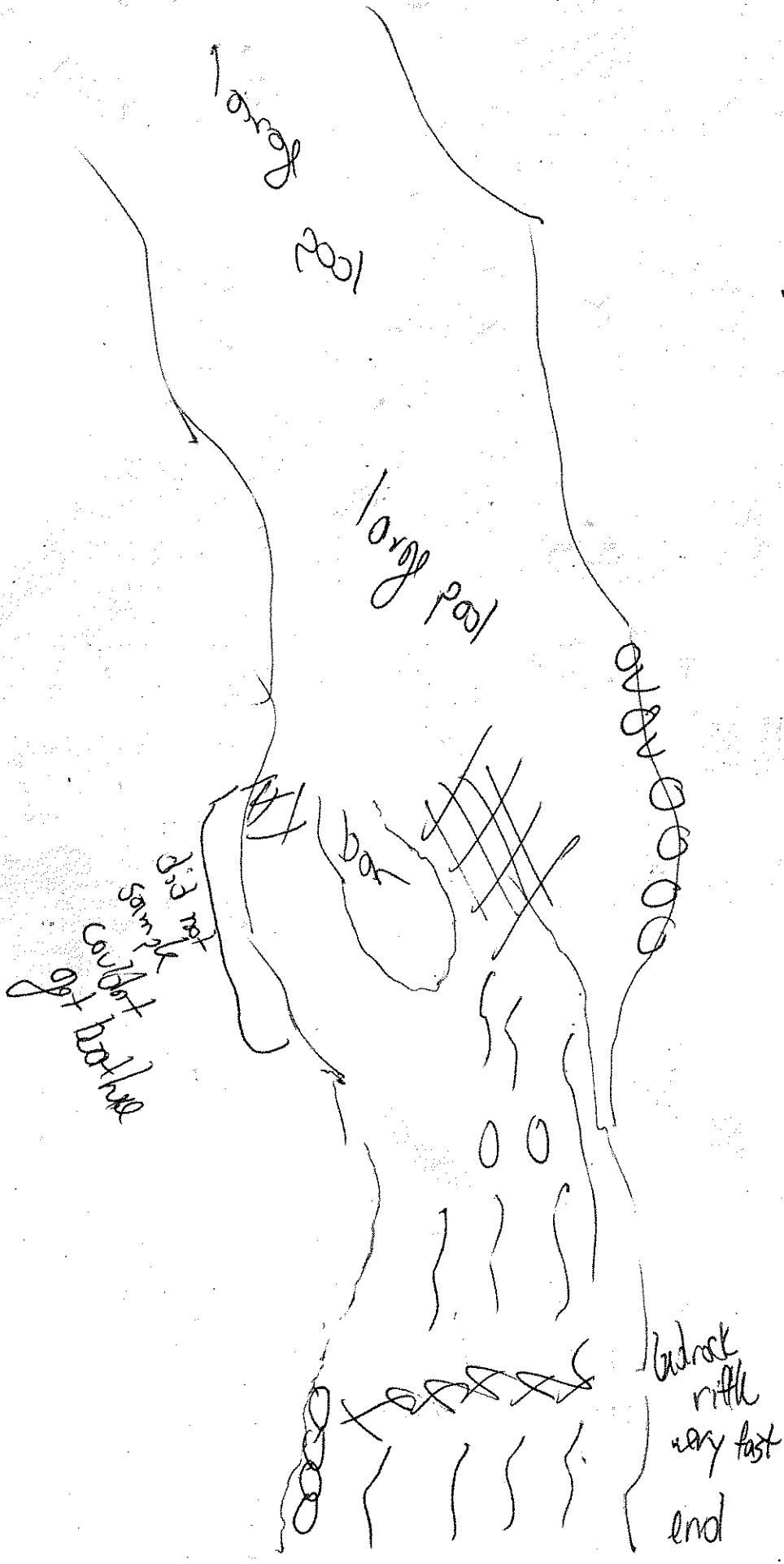
STRUCTURE in long pool contained mostly to the margins.
 narrow back down creek run snags

meters

Consider maintenance status and basin issues. Write something to aide understanding of overall CHEI score.

Stream Drawing: →

started at riffly area



fork path

100m

large pool

bar

did not sample could not get water here

bedrock riffle very fast end