

Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

Stream & Location: 50 + 1906 RM: Date: 7 311 H
Scorers Full Name & Affiliation: Store Vision Store Visio
NAD 83 - decimal 9) 10 - 10 10 10 10 10 10 10
1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE LIMESTONE [1] HEAVY [-2] LIMESTONE [1] HEAVY [-2] SILT MODERATE [-1] Substrate Sub
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. UNDERCUT BANKS [1] POOLS > 70cm [2] OXBOWS, BACKWATERS [1] MODERATE 25-75% [11] AQUATIC MACROPHYTES [1] SPARSE 5-<25% [3] SHALLOWS (IN SLOW WATER) [1] BOULDERS [1] LOGS OR WOODY DEBRIS [1] NEARLY ABSENT <5% [1] ROOTMATS [1] Comments
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4] EXCELLENT [7] NONE [6] HIGH [3] MODERATE [3] GOOD [5] RECOVERED [4] MODERATE [2] LOW [2] FAIR [3] RECOVERING [3] LOW [1] NONE [1] POOR [1] RECENT OR NO RECOVERY [1] Comments Comments
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average) River right looking downstream RIPARIAN WIDTH REROSION RIPARIAN WIDTH REPOSION RIPARIAN WIDTH RE
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH CHANNEL WIDTH CHECK ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply > 1m [6] POOL WIDTH > RIFFLE WIDTH [2] TORRENTIAL [-1] SLOW [1] 0.7-<1m [4] POOL WIDTH = RIFFLE WIDTH [1] VERY FAST [1] INTERSTITIAL [-1] 0.4-<0.7m [2] POOL WIDTH < RIFFLE WIDTH [0] FAST [1] INTERMITTENT [-2] 0.2-<0.4m [1] O.2-<0.4m [1] Indicate for reach - pools and riffles. Comments
Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). Check ONE (Or 2 & average). RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS MAXIMUM > 50cm [2] STABLE (e.g., Cobble, Boulder) [2] NONE [2] BEST AREAS 5-10cm [1] MAXIMUM < 50cm [1] MOD. STABLE (e.g., Large Gravel) [1] LOW [1] BEST AREAS < 5cm [metric=0] UNSTABLE (e.g., Fine Gravel, Sand) [0] Riffle / Run Maximum Maxi
6] GRADIENT (ft/mi) VERY LOW - LOW [2-4] %POOL: %GLIDE: Gradient Maximum () LOW mi²) HIGH - VERY HIGH [10-6] %RUN: %SWRIFFLE: Maximum 10

cess directions, etc.	FJ MEASUREMENTS x width x depth max. depth pankfull x depth bankfull x depth bankfull x depth w//D ratio bankfull max. depth floodprone x² width entrench. ratio Legacy Tree:						
typical of steam?, Recreation/ Observed - Inferred, Other/ Sampling observations, Concerns, Access directions, etc.	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 ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME			The state of the s			
Observed - Inferred, <i>Otherl</i> Sar	Circle some & COMMENT WA HA HA EN	***			The second secon		
s reach typical of steam?, <i>Recreation/</i> Obs	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	Standing to the standing to th		1168733	Thom	55682	
Comment RE: Reach consistency/ Is reach	BJAESTHETICS UNUSANCE ALGAE INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION COLUMN C		5 M	ROUSH	NA OZ	MSQT.	
AMPLED REACH Check ALL that apply HOD STAGE NAT 1st -sample pass-2nd NAT 1st -sample pass-2nd LINE	1stsamp 1st	am Drawing:					
	CLARITY 1stsample pass 2nd < 20 cm 20-<40 cm 40-70 cm > 70 cm/ CTB SECCHI DEPTH N 1st cm CJ RECREATIC SED	Stream Drawing:		Manos!	NA OS	TARM 7	

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Summary: Application to Amend -- Exhibit D (Part 31 of 31) electronically filed by Mrs. Gretchen L. Petrucci on behalf of Hardin Wind LLC