

Station Visit Information

Locale Name:		Project:		Trip:		County:		
Station ID:		Loc. Desc.:					Visit Date:	
Field Lead:		Primary Bioregion:		Secondary Bioregion:		Visit Start Time:		
Team:		Stream Perm.	Eph Int Per	Stream Type (HW or WA):		Visit Finish Time:		

STATION POINT VERIFICATION

WEATHER

K-WADE Target Point	Field GPS Location	Nav. to Target Point Within GPS Error?	Target On Correct Stream?	Field GPS Error (m)	GPS Final	K-WADE Station Update	Scouring Rain In Last 14 Days	Y N
Lat:						Staff:	Now: Circle 1	HR SR IS CS CO SSH
Long:		Y N	Y N			Date:	Past 24hr:	HR SR IS CS CO SSH

Stream Shading

STREAM FLOW (Circle 1)

INSTREAM FEATURES

RIFFLE/RUN/POOL SEQ.

Leafed Out?	Y N	Dry Pooled Low Seasonal Normal Above Normal Flood	Average Wetted Width (m):	# of riffles in reach
General Shading (Circle 1)	Full Partial None		Maximum Depth (m):	# of runs in reach
			Reach Length (m):	# of pools in reach

LOCAL WATERSHED FEATURES (Major Land Use: Check all that are present)

CHANNEL ALTERATIONS- Full, Partial or Not/None

Surface Mining		Construction		Pasture/Grazing		Dredging:	F P N	Channelization:	F P N
Deep Mining		Commercial		Silviculture		RIPARIAN VEGETATION			
Oil Wells		Industrial		Urban Runoff		Dom. Veg. Type:	Herbs Grasses Shrubs Trees	# of Strata:	
Land Disposal		Row Crops		Storm Sewers		Dom. Taxa:			
Residential		Forest		Permitted Outfalls					

HYDRAULIC STRUCTURES (Check all that are present)

Dams:		Bridge Abutments:		Fords:		Islands:		Waterfalls:		Berms:	
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FIELD METER DATA

Temp (oC):		DO (mg/l):		DO %Sat:		pH (SU):		Sp. Cond (µS/cm):		Discharge CFS Uncert.	
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FIELD ACTIVITIES

Activity Completed?		Collectors		Collection Information (Check all that apply and/or enter/circle necessary information)							
Algae:				QualMHC:		Visual Form:		R4MULTI:		Other:	
Fish:				Equip:	BPEF Seine Barge	EF Seconds:		Seine Minutes:			
Habitat:				Habitat data other than RBP?							
Invertebrate:				1m ² riffle + MH:		MACS 20-Jab:		Other:			
Multihabs Sampled Y/N or # Jobs		Undercuts/Roots: Bedrock/Hardpan:		Snags/Woody Dedris: Cobble/Gravel:		Leaf Packs: Silt/Sand/Fine Gravel:		Emergent Veg: Wood Sample:		Supplemental:	
Chemistry:				H ₂ SO ₄ Lot #:		HNO ₃ Lot #:					
Multi-Probe:				Inst. ID:		Cal. Date:					
Discharge:				Inst. ID:		Beam Check:					
Other:				Other Desc:							

SUBSTRATE CHARACTERIZATION

Site Not Sampled (Reason) - Please Add Comments

Substrate Category	% Riffle:		% Run:		% Pool:		Reach Total
Silt/Clay (<0.06 mm)							
Sand (0.06 – 2 mm)							
Gravel (2-64 mm)							
Cobble (64 – 256 mm)							
Boulders (>256 mm)							
Bedrock/Hardpan Clay							

Land Owner Denial
Too Deep/Impounded
Site Not Found
Unsafe
Dry
Other (See Comments)

Reach Location Description:		Weather Choices:		HR = Heavy Rain SR = Steady Rain IS = Intermittent Showers CS = Clear Sunny CO = Cloudy Overcast SSH = Snow Sleet
Initial Data Review By:		Initial Data Review Date:		Date Entered:

Habitat Parameter	Condition Category																			
	Optimal					Suboptimal					Marginal					Poor				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
1. Epifaunal Substrate/ Available Cover Score	Greater than 50% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new and transient).					30-50% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of new fall, but not yet prepared for colonization (may rate at high end of scale).					10-30% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.					Less than 10% stable habitat; lack of habitat is obvious; substrate unstable or lacking.				
2. Pool Substrate Characterization Score	Mixture of substrate materials, with gravel and firm sand prevalent; root mats and submerged vegetation common.					Mixture of soft sand, mud, or clay; mud may be dominant; some root mats and submerged vegetation present.					All mud or clay or sand bottom; little or no root mat; no submerged vegetation.					Hard-pan clay or bedrock; no root mat or vegetation.				
Pool Variability Score	Even mix of large-shallow, large-deep, small-shallow, small-deep pools present.					Majority of pools large-deep; very few shallow.					Shallow pools much more prevalent than deep pools.					Majority of pools small-shallow or pools absent.				
4. Sediment Deposition Score	Little or no enlargement of islands or point bars and less than 20% of the bottom affected by sediment deposition.					Some new increase in bar formation, mostly from gravel, sand or fine sediment; 20-50% of the bottom affected; slight deposition in pools.					Moderate deposition of new gravel, sand or fine sediment on old and new bars; 50-80% of the bottom affected; sediment deposits at obstructions, constrictions, and bends; moderate deposition of pools prevalent.					Heavy deposits of fine material, increased bar development; 80% of the bottom changing frequently; pools almost absent due to substantial sediment deposition.				
5. Channel Flow Status Score	Water reaches base of both lower banks, and minimal amount of channel substrate is exposed.					Water fills >75% of the available channel; or <25% of channel substrate is exposed.					Water fills 25-75% of the available channel, and/or riffle substrates are mostly exposed.					Very little water in channel and mostly present as standing pools.				
6. Channel Alteration Score	Channelization or dredging absent or minimal; stream with normal pattern.					Some channelization present, usually in areas of bridge abutments; evidence of past channelization, i.e., dredging, (greater than past 20 yr.) may be present, but recent channelization is not present.					Channelization may be extensive; embankments or shoring structures present on both banks; and 40 to 80% of stream reach channelized and disrupted.					Banks shored with gabion or cement; over 80% of the stream reach channelized and disrupted. Instream habitat greatly altered or removed entirely.				
7. Channel Sinuosity Score	The bends in the stream increase the stream length 3 to 4 times longer than if it was in a straight line. (Note - channel braiding is considered normal in coastal plains and other low-lying areas. This parameter is not easily rated in these areas.					The bends in the stream increase the stream length 2 to 3 times longer than if it was in a straight line					The bends in the stream increase the stream length 2 to 1 times longer than if it was in a straight line.					Channel straight; waterway has been channelized for a long distance.				
Left/Right Bank	10 9					8 7 6					5 4 3					2 1 0				
8. Bank Stability LB ----- RB	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.					Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in reach has areas of erosion.					Moderately unstable; 30-60% of bank in reach has areas of erosion; high erosion potential during floods.					Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious bank sloughing; 60-100% of bank has erosional scars.				
9. Vegetative Protection LB ----- RB	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.					70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining.					50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining.					Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height.				
10. Riparian Vegetative Zone Width LB ----- RB	Width of riparian zone >18 meters; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, or crops) have not impacted zone.					Width of riparian zone 12-18 meters; human activities have impacted zone only minimally.					Width of riparian zone 6-12 meters; human activities have impacted zone a great deal.					Width of riparian zone <6 meters: little or no riparian vegetation due to human activities.				
Total Score: <input type="text"/>	Notes/Comments:																			
General Notes:																				
Sediment Notes:																				