WETLAND SURVEY DATA SHEET



(1) Determine your survey boundary. (2) Locate the wetland outlet, collect water samples, and analyze using the chemical tests you have available. You may use your collection container to observe watercolor and clarity and to determine water odors. (3) Estimate the water level. (4) In order to collect macroinvertebrates from a wetland you must use a multi-habitat approach to be representative; multiple samples should be collected throughout the area. Make sure to use the correct types of nets. (5) Evaluate the physical and habitat conditions; record information about known land use activities. (6) Sketch your wetland study area and submit photographs. (7) Include any other comments, data, or other information that you feel is important for evaluating the conditions of your study area.

OKSI							
Water body name					Survey date		
Watershed				Count	y		
Latitude	Longitud	e	Directi	ions to site			
				-	Start time _		
Survey completed by					Site code		
Affiliation			Email				
Mailina				Phone	e number		
addrace							
WATER CHEMISTRY: Use necessary.				chemistry ana	lysis; attach addi	tional sh	eets if
	Result units		Result	units		Result	units
Temperature (C/F)		Conductivity			lkalinity		1
Dissolved oxygen		Nitrates			Iron		
pH		Phosphate		Fe	cal/E-coli		
Additional tests (descri	be and record resul						
(
sure to indicate these of dominant condition. N Water clarity		you observe is no					most
Clear	None		None		None		
Murky	Brow		Fishy		Slight		
Milky	Blac		Musky		Moderate	_	
Muddy	Orange			Rotten egg		_	
Other (describe)	Gray/W		Sewage		High		
Other (describe)	Gree		Chemica				
				u			
Algae color	Algae abur	ndance	Algae growth	habit	Sediment col	or and o	dor
Light green	None	e	Even coati	na	Brown		
Dark green	Scatte		Hairy	9	Black		
Brown	Moder		Matted		Green		
Other (describe)	Heav		Floating		White/gra	ıv <u> </u>	
	riouv	,			Orange/re	-	
					DESCRIBE THE SE		DDOR(S)
Physical condition com	ments:						
			> 80	80 - 60	60 - 40		40
Estimat	e the % of the wetla	and that is shaded	Fyeellent	C00 00	00 - 40		

Excellent

Good

Circle your estimate

Poor

Fair

HABITAT CONDITIONS: Rate the habitat conditions by choosing the best description for the survey area. Indicate your choice by writing **O**, **S**, **M** or **P** in the spaces provided.

	Points	8	6	4	2
Water source		4 sources	3 sources	2 sources	1 source
		O ptimal	S uboptimal	M arginal	P oor
Water level fluctuations		Fluctuation due to natural seasonal patterns	Natural hydrology partly modified by artificial controls	Water level controlled by damming of the outlet	Fluctuations extreme due to upstream dam release, stormwater etc.
		O ptimal	S uboptimal	M arginal	P oor
Vegetation diversity and coverage		4 or more vegetation classes covering > 80% of the wetland	3 vegetation classes covering 50-80% of the wetland	2 vegetation classes covering 30-50% of the wetland	1 vegetation class covering < 30% of the wetland
		Optimal Suboptimal Marginal		P oor	
Food source aquatic lif		Abundant macrophytes, periphyton, CPOM and FPOM	Common occurrences of macrophytes, periphyton, CPOM and FPOM	Limited amounts of macrophytes, periphyton, CPOM and FPOM	No macrophytes or periphyton, limited CPOM and FPOM
		O ptimal	S uboptimal	M arginal	P oor
Sedimentation	n rate	No evidence of sedimentation	Evidence of sedimentation near inlets, drains and roads	Sand accumulation forming banks and bars	Sand accumulation smothering wetland vegetation
		O ptimal	S uboptimal	M arginal	P oor
Substrate and	l soils	Sediments primarily silt/mud and organic soils	Sediments have equal quantities of gravel, sand, silt/mud and organic soils	Sediments primarily gravel and sand, with some silt/mud and organic soils	Sediments primarily gravel, cobble and sand with no silt/mud or organic soils
	_	O ptimal	S uboptimal	M arginal	Poor
Total		> 38 (Optimal)	38 – 28 (Suboptimal)	28 – 18 (Marginal)	< 18 (Poor)

Habitat condition comments:	
Weather conditions (current and past 48 hours):	
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LAND USE: Indicate the land uses that you believe may be having an impact on your stream station. Use the letters (S) streamside, (M) within $\frac{1}{4}$ mile and (W) somewhere in the watershed, to indicate the approximate location of the disturbance and the numbers (1) slight, (2) moderate or (3) high, to represent the level of disturbance.

Active construction	Pastureland	Single-family residences		
Mountaintop mining	Cropland	Sub-urban developments		
Deep mining	Intensive feedlots	Parking lots, strip-malls etc.		
Abandoned mining	Unpaved Roads	Paved Roads		
Logging	Trash dumps	Bridges		
Oil and gas wells	Landfills	Other (describe)		
Recreation (parks, trails etc.)	Industrial areas			
Land use comments				
		Pipes? Yes No		

Describe the types of pip	es observed and indicate if the	here is any discharge from the	pipes. Also d	escribe the color and
odor of the discharge.				
·				<u>- </u>

PHOTOGRAPH and SKETCH YOUR S' survey area. Indicate the direction an excellent method for tracking of two permanent locations from visions.	n of flow, north, sample locati changes, especially changes i	ons and importa related to the cor	nt features of t ndition of the h	he reach. Pho abitat. Choose	tographs are e a minimum
Photo descriptions:					
Average size	_ Square feet	Water Level			
		Low	Normal	High	Dry
Current weather conditions: Past 48-hours:					

BENTHIC MACROINVERTEBRATES

Use the table below to record information about your macroinvertebrate collections. Record their **abundance** using this code: (A) > 50, (C) 5 - 50 and (R) < 5. Also record the number of different kinds. The **# of kind's** box indicates groups in which multiple kinds (FAMILIES) are possible. Illustrations courtesy of the Cacapon Institute; Jennifer Gillies, artist

			Net-spinners		Case-builders
Mayflies	# of kinds	Caddisflies	# of kinds	Caddisflies	# of kinds
Dragonflies	# of kinds	Alderfly		Beetles/Water bugs	# of kinds
Damselflies	# of kinds	Midges		Other fly larva	# of kinds
Crayfish		Sideswimmer		Aquatic sowbug	
Clams	# of kinds	Mussel		Water mites	
Operculate snails	# of kinds	Non-operculate snails	# of kinds	Flatworm	
Aquatic worm	# of kinds	Leech		Fairy shrimp	

Other aquatic li	te observed	or co	llected:
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The coordinator will evaluate the biological integrity of the wetland system.

Submit a clear copy or the original data sheet to the coordinator. If you submit the original, always keep a copy for your records. Note: A Scientific Collection Permit from the WVDNR is required for all aquatic collections.