

<b>STREAM NAME:</b>				<b>MON LOC ID:</b>			
<b>BIO SITE ID:</b>			<b>DATE:</b>			<b>GPS ERROR (+/-) ft:</b>	
<b>LATITUDE (DD):</b>				<b>LONGITUDE (DD):</b>			
<b>START TIME:</b>			<b>END TIME:</b>			<b>TIME ZONE:</b> EST      EDT	
<b>INVESTIGATORS:</b>							
<b>EPD OFFICE:</b>		WP1–Atlanta		WP2–Brunswick		WP3–Cartersville      WP4–Tifton	
<b>SAMPLE TYPE:</b>		Targeted      Probabilistic		<b>ACTIVITY TYPE:</b>		Field Measure/Observation      Field Replicate Msr/Obs	
<b>FORM COMPLETED BY:</b>			<b>PROJECT/REASON FOR SURVEY:</b>				

STREAM CHARACTERIZATION (Circle Items from List)									
<b>STREAM TYPE:</b>	Coldwater	Warmwater	Refer to GA EPD Water Quality Standards in GA Rules and Regulations.						
<b>SALINE TYPE:</b>	Brackish	Fresh	Saline	Unsure					
<b>WATER APPEARANCE:</b>	Blackwater	Clearwater	Unsure	Unsure/Black	Unsure/Clear				
<b>TIDAL CYCLE:</b>	1/4 ebb	1/2 ebb	3/4 ebb	Low Tide	1/4 flood	1/2 flood	3/4 flood	High Tide	N/A
<b>STREAM ORIGIN:</b>	Mixed Origin	Spring Fed	Swamp/Bog	Unsure/Unknown	Other				
<b>STREAM SUBSYSTEM:</b>	Ephemeral	Intermittent	Perennial	Tidal	Unsure/Unknown				

VISUAL CONDITIONS (Circle Items from List)					
WATER LEVEL/FLOW:	Normal		Above Normal		Normal, but no Velocity
	Low		Flood		Drought Impact
WEATHER NOW (circle and fill in all that apply):	_____ % Cloud Cover		Clear (0% cloud cover)/Sunny		Rain (Steady Rain)
	Showers (intermittent)		Storm (heavy rain)		Snow
WEATHER PAST 24 HOURS (circle or fill in all that apply):	_____ % Cloud Cover		Clear (0% cloud cover)/Sunny		Rain (Steady Rain)
	Showers (intermittent)		Storm (heavy rain)		Snow    Unsure (past)
Heavy rain in the last 7 days?	Yes	No	Heavy rain in the last 24 hours?		Yes    No

WATER QUALITY (Circle Items from List)							
<b>WATER ODORS:</b>	Normal/None	Petroleum	Fishy	Sewage	Chemical	Other_____	
<b>WATER COLOR</b>	Clear	Foamy (natural or pollution)		Green (algal coloration evident)		Other_____	
<b>/APPEARANCE:</b>	<div></div>	Tannic (Tea-colored)		Milky (cloudy white or gray)		Muddy (cloudy brown)	
<b>WATER SURFACE OILS:</b>	None	Sheen	Globs	Flecks	Slick	Other_____	
<b>TURBIDITY</b> (visual observation):	Clear	Slightly Turbid	Turbid	Stained	Opaque	Other_____	

SEDIMENT/SUBSTRATE (Circle Items from List)							
<b>ODOR:</b>	None	Normal	Sewage	Chemical	Anaerobic	Petroleum	Other_____
<b>DEPOSITS:</b>	None	Sludge	Sawdust	Paper Fiber	Sand	Petroleum	
	Relict Shells	Clay	Organics	Silt	Other_____		
<b>OILS:</b>	Absent	Moderate	Profuse			Slight	
<b>UNDERSIDES OF LOOSE STONES BLACK IN COLOR?:</b>				Yes	No	N/A	
<b>PREDOMINANT SUBSTRATE(S):</b>	Bedrock		Boulders	Cement	Clay	Cobble	Boulders/RipRap
	Concrete		Fines Gravel	Hardpan	Sand	Silt	Other

ORGANIC SUBSTRATE COMPONENTS (Enter Number - does not necessarily add up to 100%)	
Substrate Type (Indicate if 0%):	% Composition in Sampling Area:
Detritus – Coarse Particulate Organic Matter - sticks, wood, coarse plants	
Muck/Mud – Fine Particulate Organic Matter – black, very fine organics	
Marl – Gray, Shell Fragments	

COMMENTS (Include Impacts and TMDL Info.):	

# PHYSICAL CHARACTERIZATION/WATER QUALITY FIELD DATA SHEET (BACK)

<b>RIPARIAN ZONE/INSTREAM FEATURES (Circle All Applicable from List OR Enter Number)</b>			
<b>PREDOMINANT LAND USE:</b> (watershed wide land use)	Agricultural (Unspecified)	Agriculture and Mining	Ag Row Crops
	Pasture (Unspecified)	Livestock	Cropland
	Residential	Rural Residential	Urban
	Commercial	Industrial	Mining
	Planted Pine (Silviculture)	Selective Cut	Old Growth Forest
	Forest (Unspecified)	Mature Timber (40+ years)	Forest Fire
	Clear-cut Forest (<10 yrs)	Second Growth Forest (10-40 years)	Wetland
	Heavy Grazing Pressure (trampled)	Light Grazing Pressure (cow pies/not trampled)	
	Other(s): _____		
<b>LOCAL WATERSHED NPS POLLUTION:</b> No Evidence      Some Potential Sources      Obvious Sources			
<b>CANOPY COVER:</b> Open (0-10%)      Partly Open (11-45%)      Partly Shaded (46-80%)      Shaded (81-100%)			
<b>LOCAL WATER EROSION:</b> None      Light      Moderate      Heavy			
<b>BEAVER ACTIVITY OBSERVATIONS:</b> (If active dam in reach, do not sample.)	Inactive Beaver Dam, Little Effect on Stream		No Beaver Activity Evident
	Old Beaver Dam Activity, Little Effect		Inactive Beaver Dam Affecting Stream
	Beaver Cutting Evident, Little Effect on Stream		Active Beaver Dam Affecting Stream
	Active Beaver Dam not Affecting Stream (downstream of reach)		
<b>LIVESTOCK DAMAGE OBSERVATIONS:</b>	No Livestock Damage		Stable (0-25% Damage, Little/No Erosion)
	Moderate (26-50% Damage, <50% Plant Biomass)		High (51-75% Damage, <25% Plant Biomass)
	Severe (76-100% Damage, Little/No Plant Biomass Remains)		
<b>HIGH WATER MARK:</b> _____ (ft)		<b>AVERAGE STREAM WIDTH:</b> _____ (ft)	
<b>AVERAGE STREAM DEPTH FOR EACH:</b> Riffle _____ (ft)      Run/Glide _____ (ft)      Pool _____ (ft)			
<b>% EACH MORPHOLOGICAL TYPE (Adds up to 100%):</b> Riffle _____ %      Run/Glide _____ %      Pool _____ %			
<b>STREAM CHANNELIZED?:</b> Yes      No		<b>IF YES, REACH LENGTH CHANNELIZED:</b> Full      Partial	
<b>STREAM DREDGING?:</b> Yes      No		<b>RECENT RESTORATION CONDUCTED (last 10 years):</b> Yes      No	
<b>DAM PRESENT?:</b> Yes      No		<b>IF DAM PRESENT:</b> Upstream      Downstream      In Stream Reach	

<b>RIPARIAN VEGETATION (18 meter buffer) (Circle Items from List)</b>						
<b>PREDOMINANT TYPE:</b>	Trees	Shrubs	Grasses	Herbaceous	Other _____	
<b>PREVALENT RIPARIAN VEGETATION COMPOSITION (circle all that apply):</b>	Coniferous Dominated (canopy more than 50% conifer)			Annual Grasses and Herbs		
	Deciduous trees (Alder, Cottonwood, Maple)			Mixed Conifer and Deciduous		
	Forested (dominated by trees, with brushy understory)			No Vegetation (bare soil, rock)		
	Grass (bank covered with tall grasses, sedges, etc.)			Perennial and Mixed Tree Species		
	Perennial Grasses, Forbs, Sedges, and Rushes			Perennial and Shrubs		
	Shrubs (Willow, Salmonberry, some Alder)			Shrubs and Mixed Tree Species		
<b>PREVALENT RIPARIAN VEGETATION SPECIES (circle all that apply):</b>	American Beech	Ash	Bamboo	Bamboo Grass	Bay Magnolia	Birch
	Cedar	Bay	Black Gum	Black Locust	Box Elder	Fern
	Cherry	Cane	Cypress	Dogwood	Elder	Honeysuckle
	Green Ash	Elm	Hemlock	Hickory	Holly	Magnolia
	Ironwood	Fir	Kudzu	Live Oak	Loblolly Pine	Persimmon
	Mountain Laurel	Oak	Microstegium	Mimosa	Maple	Redbud
	Poplar	Pine	Privet	Red Maple	Red Oak	Spanish Moss
	Rhododendron	Tupelo	River Birch	River Cane	Saw Palmetto	Tag Alder
	Short Leaf Pine	Walnut	Sweet Bay	Sweet Gum	Sycamore	Wax Myrtle
	Swamp Tupelo	White Oak	Turkey Oak	Water Oak	White Pine	Willow
	Willow Oak      Other(s) _____					

<b>AQUATIC VEGETATION (Circle Items from List)</b>				
<b>PREDOMINANT TYPE:</b>	None		Attached Algae	Floating Algae
	Rooted Emergent		Rooted Floating	Free Floating
			Rooted Submergent	Other _____
<b>PORTION OF REACH COVERED BY AQUATIC VEGETATION:</b> _____ %				
<b>PREVALENT AQUATIC VEGETATION SPECIES:</b>	Arrowhead		Brown Algae	Cattail
	Foxtail		Green Algae	Hydrilla
	Lemna		Moss	Parrot Feather
	Vallisneria		No Aquatic Vegetation	Sagittaria
	Other(s) _____			

## PHYSICAL CHARACTERIZATION MAP SKETCH (MAP)

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<b>START TIME:</b>			<b>END TIME:</b>			<b>TIME ZONE:</b> EST      EDT	
<b>INVESTIGATORS:</b>							
<b>EPD OFFICE:</b> Atlanta      Brunswick      Cartersville      Tifton					<b>MAP SKETCH ATTACHED:</b> Yes      No		
<b>SAMPLE TYPE:</b> Targeted      Probabilistic			<b>ACTIVITY TYPE:</b> Field Measure/Observation      Field Replicate Msr/Obs				
<b>TIDAL CYCLE:</b> 1/4 ebb      1/2 ebb      3/4 ebb      Low Tide      1/4 flood      1/2 flood      3/4 flood      High Tide      N/A							
<b>MAP/FORM COMPLETED BY:</b>			<b>PROJECT/REASON FOR SURVEY:</b>				

### **SITE LOCATION/MAP:**

Draw a map (including bends in stream when applicable) of the site and indicate Areas Sampled, Habitats, Land Use on LB and RB, Plants, Discharge Conducted. Please also include a legend, when applicable. *Please provide a PDF copy of the sketched map to include as attachment in database.*