

MBSS Spring Sampling

Physical Habitat Assessment







v. 2014 MBSS SPRING HABITAT DATA SHEET Page of					
SITE Watershed Code Segment Type Year Reviewer: First Second DATE Year Month Day					
Dist. from Nearest Road to Site (m) Trash Rating 0 - 20 LANDUSE (Y/N) Old Field Residential Deciduous Forest Commercial/Industrial Coniferous Forest Cropland	RIPARIAN VEGETATION (facing upstream) LEFT BANK RIGHT BANK Width (50m max) Adj. Land Cover Veg Type Buffer Breaks (Y/N)				
Wetland Pasture Orchard/Vineyard/Nursery Landfill Golf Course ROAD CULVERT STREAM GRADIENT	BUFFER BREAKS LEFT BANK RIGHT BANK Storm Drain Tile Drain				
Present in Segment? (Y/N) Sempleable? (Y/N) Vidth of Culvert (m) Length of Culvert (m) 3	Imperv. Drainage New Construction Orchard Crop Pasture Gully Dirt Road Gravel Road Raw Sewage Railroad Buffer Break Types (M = Minor; S = Severe)				
CHANNELIZATION Evidence of Channel Straightening or (Oredging (Y/N) Actual Site Midpoint Coordinates (Taken at Time of Sampling) Lat				
Concrete Gabion Rip-Rap Earthen Berm Dredge Spoil Off Channel Pipe Culvert	Stream Blockages Stream Block Ht. (m) Stream Block Type Lat Long				





_____ Dist. from Nearest Road to Site (m)
_____ Trash Rating 0 - 20

Distance: Measure (or estimate if appropriate) distance from <u>nearest</u> road, parking lot, or other access point.

Trash Rating: Scored on scale from 0-20; based on criteria on Stream Habitat Assessment Guidance Sheet

Count ... trash, tires, railroad ties, and industrial refuse

<u>Do Not Count</u>...bare soil, AMD discoloration, iron bacteria, rip rap, gabion baskets, concrete trapezoid, etc.



Trash Rating



				<u> </u>
Habitat Parameter	Optimal 16-20	Sub-Optimal 11-15	Marginal 6-10	Poor 0-5
8. Trash Rating (h)	Little or no human refuse visible from stream channel or riparian zone	Refuse present in minor amounts	Refuse present in moderate amounts	Refuse abundant and unsightly



Surrounding Land Use

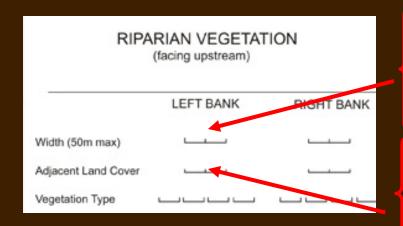
LANDUSE (Y/N)					
	Old Field Deciduous Forest Coniferous Forest Wetland Surface Mine Landfill	Residential Commercial/Industrial Cropland Pasture Orchard/Vineyard/Nursery Golf Course			

• Record any land use type that can be observed while in or alongside the site.





Riparian Vegetation Characterization



Measure width of vegetated riparian buffer on each side of stream. (Max width = 50m)

No vegetation = No Buffer

Record the dominant type of land cover directly adjacent to the riparian buffer.

Riparian Buffer vegetation

Adjacent land cover

Riparian Buffer Zone / Adjacent Land Cover Types

FR = Forest

OF = Old Field

EM = Emergent Vegetation

LN = Mowed Lawn

TG = Tall Grass

LO = Logged Area

SL = Bare Soil

RR = Railroad

PV = Paved Road

PK = Parking Lot/ Industrial/

Commerical

GR = Gravel Road

DI = Dirt Road

PA = Pasture

OR = Orchard

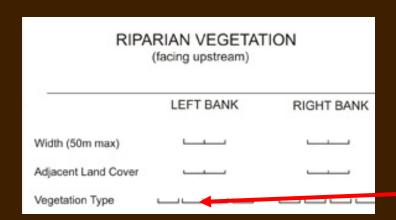
CP = Cropland

HO = Housing





Buffer Vegetation Type



VEGETATION TYPES

G= Grasses/Forbes

R= Regen Deciduous/Shrubs (<4'dbh)

Y= Young Deciduous (4-12" DBH)

M= Mature Deciduous (12-24" DBH

O= Old Deciduous (>24" DBH)

A= Regen Coniferous (<4" DBH)

B= Young Coniferous (4-12" DBH)

C= Mature Coniferous (12-24' DBH

D= Old Coniferous (>24" DBH)

L= Lawn

Record the dominant vegetation in the buffer

List vegetation type in order of dominance

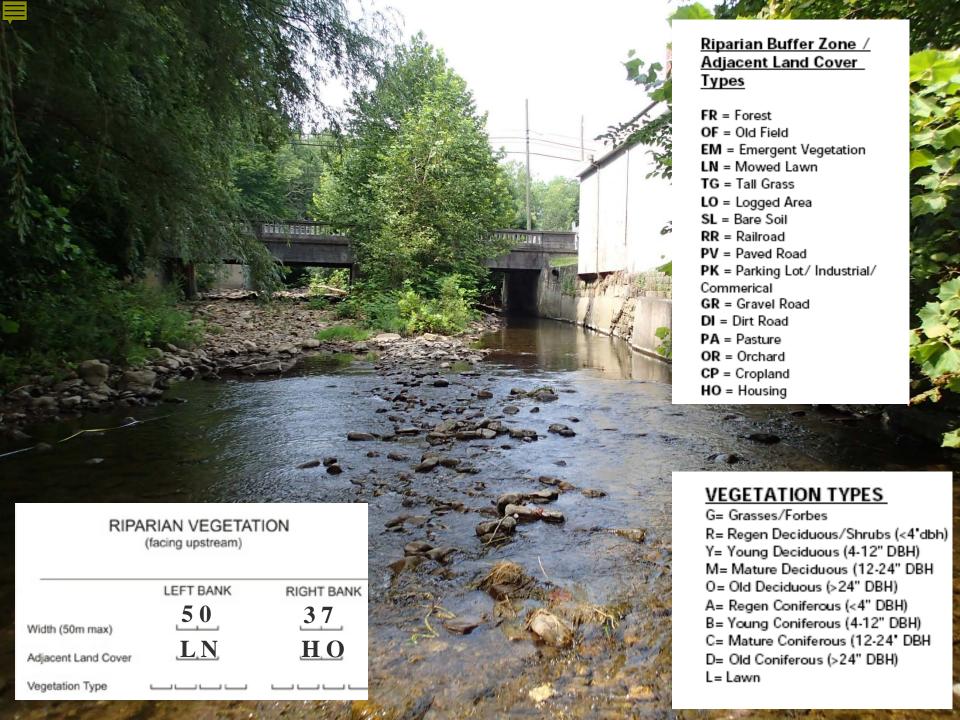
Dominance based on combination of stem density and canopy density.



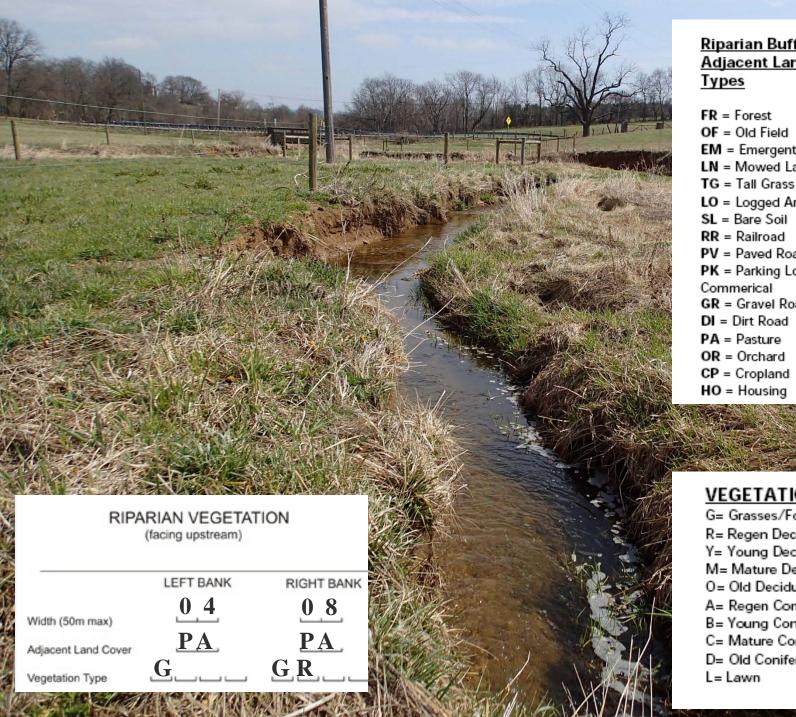












Riparian Buffer Zone / Adjacent Land Cover

EM = Emergent Vegetation

LN = Mowed Lawn

LO = Logged Area

RR = Railroad

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PK = Parking Lot / Industrial /

GR = Gravel Road

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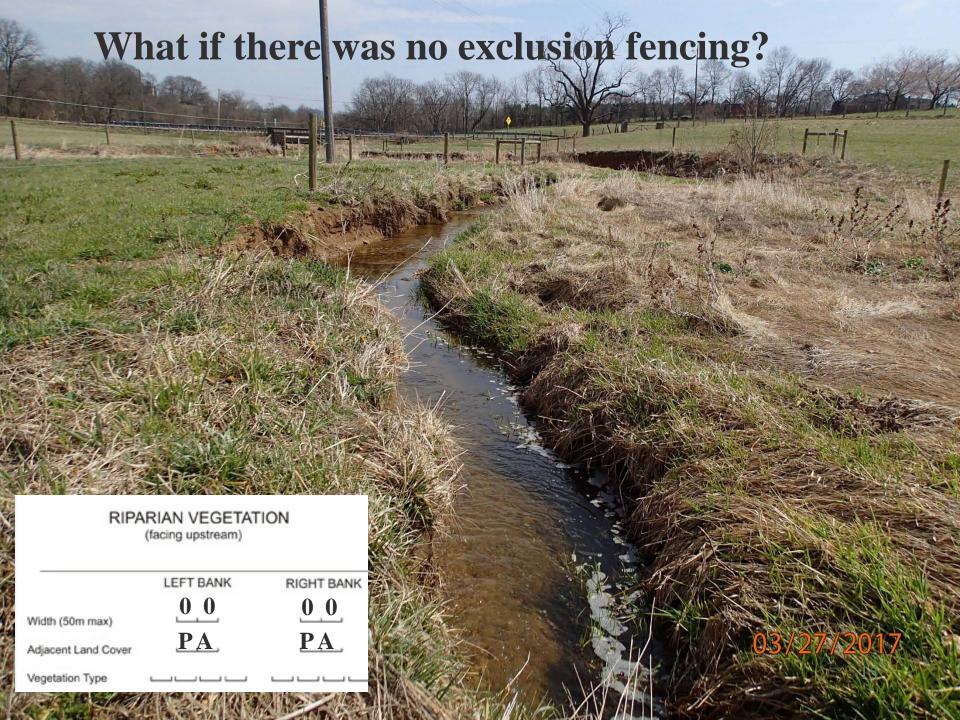
A= Regen Coniferous (<4" DBH)

B= Young Coniferous (4-12" DBH)

C= Mature Coniferous (12-24' DBH

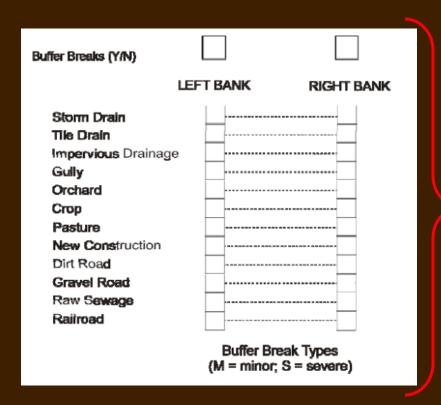
D= Old Coniferous (>24" DBH)







Buffer Breaks



Note any functional breaks in the riparian buffer on each side of the stream.

Indicate the type and severity of break.

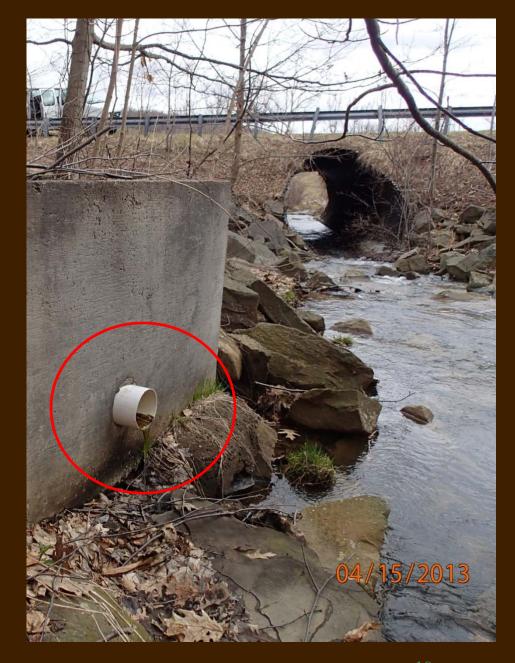
















Stream Channelization

CHANNELIZATION						
Evidence of Channel Straightening or Dredging (Y/N)						
TYPE	EXTENT (m)					
	LEFT BANK	воттом	RIGHT BANK			
Concrete						
Gabion						
Rip-Rap						
Earthen Berm		N/A				
Dredge Spoil Off Channel		N/A				
Pipe Culvert						

- Survey site for evidence of channel dredging or straightening and
- Indicate presence (Y) or absence (N).
- Indicate the type and linear extent in meters for each bank and for the stream bottom.







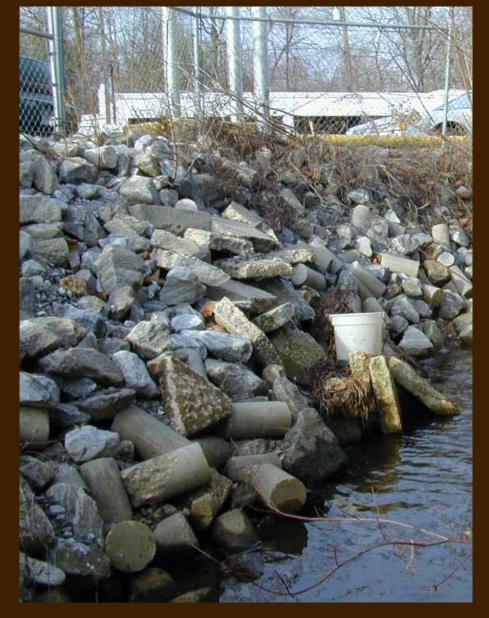


Dredge Spoils

Concrete Channel

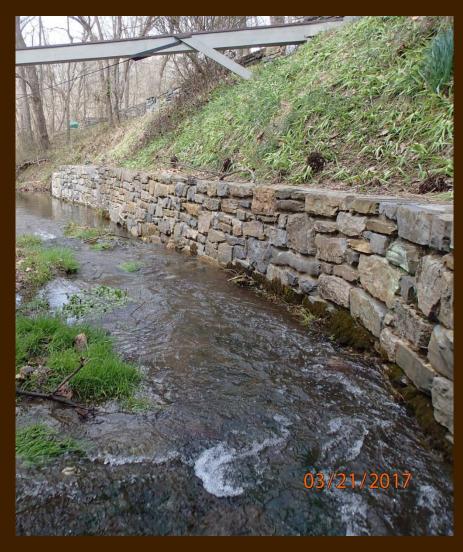






Gabion Rip rap







Stone / Imbricated Wall

Culvert





Road Culvert

ROAD CULVERT Present in Segment? (Y/N) Sampleable? (Y/N) Width of Culvert? (m) Length of Culvert? (m)



If the road culvert is <u>NOT</u> sampleable,...

- 1) measure the linear length of culvert
- 2) add the measured distance to whichever end of the site is closer.







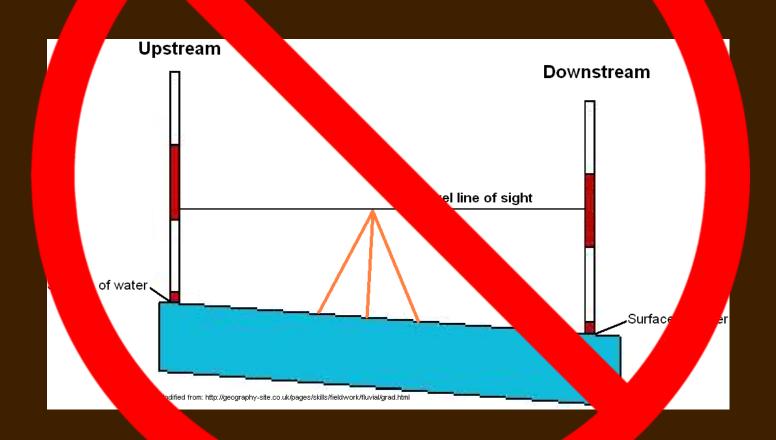
Sampleable

Not Sampleable





Stream Gradient



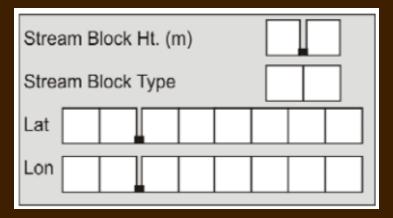


Stream Blockages





- Note on the data sheet the lat/long of any man-made migration barrier near the site.
- Also note height and type of blockage





Vernal Pools

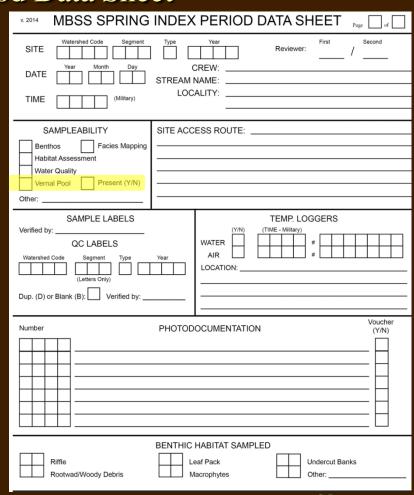
We also record presence/absence of vernal pools at every site

Recorded on Spring Index Period Data Sheet

Definition:

Any well established seasonal/ephemeral pool, pond, or wetland

- 1. Small size
 - $1 \text{ m}^2 \text{ to } 4000 \text{ m}^2 \text{ (1 acre)}$
- 2. No permanent surface water connections
- 3. Subject to seasonal drying
- 4. Supports a distinctive biological community















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Questions?

