Field form beta Streamflow Duration Assessment Method for the Northeast Revision Date: November 2023

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Beta Streamflow Duration Assessment Method – Northeast General site

information

mioi mation			
Project name or number:			
Site code or identifier:	Assessor(s):	
Waterway name:			Visit date:
Current weather conditions (check o Storm/heavy rain Steady rain Intermittent rain Snowing Cloudy (% cover) Clear/Sunny		t or recent weather precipitation in previous	Coordinates at downstream end (decimal degrees): Lat (N): Long (E): Datum:
Surrounding land-use within 100 m Urban/industrial/residential Agricultural (farmland, crops, vin Developed open-space (e.g., golf Forested Other natural Other:	neyards, pasture) course)	Describe reach boundario	es:
	Reach length (m): 40x width; min 40 m; max 200	Site photograp Enter photo ID Top down: Mid up:	or check if completed
Disturbed or difficult conditions (check all that apply): Recent flood or debris flow Stream modifications (e.g., channelization) Diversions Discharges Drought Vegetation removal/limitations Other (explain in notes) Notes on disturbances or difficult site conditions:			
Observed hydrology:		Comments on observed	hydrology:
% of reach with surface flow			
% of reach with sub-surface # of isolated pools	or surface flow		

Site sketch:

1. BMI Score

Collect aquatic invertebrates from at least 6 locations in the assessment reach.

BMI score (0-3)	Scoring guidance: 0: (Absent) Total abundance of benthic macroinvertebrates is zero. 1: (Weak) Total abundance is 1 to 3. 2: (Moderate) Total abundance ≥4 3: (Strong) Total abundance ≥10 and richness ≥3 OR Total abundance < 10 and richness ≥5 Note: Richness is based on family-level identification for aquatic insects and mollusks, order-level for crustaceans and mites, and class or phylum for all other non-insects.
Taxa/Notes:	

2. Percent Shading

Densiometer readings Record # points covered (out of 17)		
Upper	Middle	Lower
Upstream	Upstream	Upstream
Left	Left	Left
Right	Right	Right
Downstream	Downstream	Downstream
Sum of all readings:		
Percent Shading = Sum of readings/204	x 100: %	

3. Absence of Roote	ed Upland Plants in Streambed
Absence of Rooted Upland Plants in Streambed score (0-3)	Scoring guidance: 0: Rooted upland plants are prevalent within the streambed (greater than 75%). 1: Rooted upland plants are consistently dispersed throughout the streambed (20 – 75%). 2: Few rooted upland plants are present within the streambed (less than 20%). 3: Rooted upland plants are absent within the streambed. Note: 'Upland' plants include those with UPL, FACU and FAC indicators as well as those with No Indicator (NI) Recommended photos (record in photolog, below): 1) channel vegetation, and
	2) upland vegetation
Notes:	
4. Bankfull channel 5. Natural Valley	width (copy from first page of field form)
Natural Valley score (0-1.5) Half-scores are allowed	Scoring guidance: 0: (Absent) No indication of surrounding land sloping to the valley bottom or stream. Channel located on side slope indicative of an artificial channel or stream relocation/manipulation. 0.5: (Weak) Subtle valley indicated by some of the surrounding land sloping downward to the valley bottom or stream. 1: (Moderate) Defined valley indicated by most of the surrounding land sloping downward to the valley bottom or stream. 1.5: (Strong) Well defined valley indicated by all surrounding land sloping downward to the valley bottom or stream.
Notes:	

6. Channel Slope	(to nearest 0.	5 percent)	
If multiple sights are channel slope:	e needed to cove	er the entire reach, record each a	and calculate a weighted average to get
1)	% slope	% of reach	
2)	% slope	% of reach	
3)	_% slope	% of reach% of reach	
4)	_% slope	% of reach	
PRISM 30-year aver Photo log Indicate if any other photo	rage precipitation		
Photo ID Descr	ription		
A 1 1'4'	1 41		
Additional notes a	about the asse	essment:	
Model Classificat	ion:		
☐ Ephemeral		☐ Perennial	☐ At least intermittent
☐ Intermittent		☐ Less than perennial	☐ Needs more information

Field form beta Streamflow Duration Assessment Method for the Southeast Revision Date: November 2023

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Beta Streamflow Duration Assessment Method – Southeast General site

information

Project name or number:			
Site code or identifier:	Assessor	r(s):	
Waterway name:	1		Visit date:
Current weather conditions (check Storm/heavy rain Steady rain Intermittent rain Snowing Cloudy (% cover) Clear/Sunny	conditions (e.g. week):	nt or recent weather , precipitation in previous	Coordinates at downstream end (decimal degrees): Lat (N): Long (E): Datum:
Surrounding land-use within 100 Urban/industrial/residential Agricultural (farmland, crops, v. Developed open-space (e.g., gol Forested Other natural Other:	ineyards, pasture)	Describe reach boundari	ies:
Mean bankfull channel width (m) (Indicator 4)	Reach length (m): 40x width; min 40 m; max 200	Site photogra Enter photo II Top down: Mid up:	or check if completed
Disturbed or difficult conditions (c) Recent flood or debris flow Stream modifications (e.g., chart Diversions Discharges Drought Vegetation removal/limitations Other (explain in notes) None		Notes on disturbances	or difficult site conditions:
Observed hydrology:		Comments on observed	ł hydrology:
% of reach with surface flo			
% of reach with sub-surfac # of isolated pools	e or surface flow		

Site sketch:

1. BMI Score

Collect aquatic invertebrates from at least 6 locations in the assessment reach; <u>use sample for BMI score and total benthic macroinvertebrate abundance score (see indicator #2).</u>

BMI score (0-3)	Scoring guidance: 0: (Absent) Total abundance of benthic macroinvertebrates is zero. 1: (Weak) Total abundance is 1 to 3. 2: (Moderate) Total abundance ≥4 3: (Strong) Total abundance ≥10 and richness ≥3 OR Total abundance < 10 and richness ≥5 Note: Richness is based on family-level identification for aquatic insects and mollusks, order-level for crustaceans and mites, and class or phylum for all other non-insects.
Taxa/Notes:	

2. Total Benthic Macroinvertebrate Abundance

Total Benthic Macroinvertebrate Abundance score (0-3)	Scoring guidance: 0: (Absent) Total abundance of benthic macroinvertebrates is zero 1: (Weak) Total abundance is ≥1 and ≤10 2: (Moderate) Total abundance ≥11 and ≤32 3: (Strong) Total abundance ≥33
Notes:	

3. Absence of Roote	ed Upland Plants in Streambed
Absence of Rooted Upland Plants in Streambed score (0-3)	Scoring guidance: 0: Rooted upland plants are prevalent within the streambed (greater than 75%). 1: Rooted upland plants are consistently dispersed throughout the streambed (20 – 75%). 2: Few rooted upland plants are present within the streambed (less than 20%). 3: Rooted upland plants are absent within the streambed. Note: 'Upland' plants include those with UPL, FACU and FAC indicators as well as those with No Indicator (NI) Recommended photos (record in photolog, below): 1) channel vegetation, and
Notes:	2) upland vegetation
4. Bankfull channel 5. Particle Size of S	l width (copy from first page of field form) Stream Substrate
Particle Size or Stream Substrate Sorting score (0-3) Half-scores are allowed	 Scoring guidance: (Absent) The channel is poorly developed, very little to no coarse sediment is present. There is no difference between particle size in the stream substrate and adjacent land. (Weak) The channel is poorly developed through the soil profile. Some coarse sediment is present in the streambed but is discontinuous. Particle size differs little between the stream substrate and adjacent land. (Moderate) There is a well-developed channel, but it is not deeply incised through the soil profile. Some coarse sediment is present in the streambed in a continuous layer. Particle size differs somewhat between the stream substrate and adjacent land. (Strong) The channel is well-developed through the soil profile with relatively coarse streambed sediments compared to the riparian zone soils: coarse sand, gravel, or cobbles in the piedmont; cobbles or boulders in the mountains, and medium or coarse sand in the coastal plain. Particle size differs greatly between the stream substrate and adjacent land.
Notes:	

Less than perennial

☐ At least intermittent

☐ Needs More Information