## **Unconstrained Headwater Drainage Feature Assessment**

Date (yyyy/	/mm/dd):		Project #:			er/Crew:				
Stream Name:		Stream Code		ode:	Site Code:					
Site Limits:		Upstream	WP#		Field As	Field Assessment:		Unconnected HDF:		
		Downstream	WP#				Sample 2	Not connected to		
Direction of	f Assessment:	:	Upstream	Dowr	stream		Sample 3	downstream network		
Flow Influence		Freshet	(1)		Spate (2)		Baseflow (3)			
Flow Condition		Dry (1) Standing	g Water (2)		Interstitial Flow (3) Minimal Flow (4)		Substantial Flow (5)			
Feature Type		Defined	Natural Channel (1	)	No Defined Fea	No Defined Feature (4)		(7)		
		Channe	lized or Constrained	d (2)	Tiled Feature (5	Tiled Feature (5)		Roadside Ditch (8)		
		Multi-thr	read (3)		Wetland (6)	Wetland (6)		Pond (9)		
Feature Ve	egetation	None (1)	Lawn (2)	Cropped (3)	Meadow (4)	Scrubland (5)	Wetland(6)	Forest (7)		
Riparian V	legetation									
0 - 1.5 m	Left Bank	None (1)	Lawn (2)	Cropped (3)	Meadow (4)	Scrubland (5)	Wetland (6)	Forest (7)		
	Right Bank	None (1)	Lawn (2)	Cropped (3)	Meadow (4)	Scrubland (5)	Wetland (6)	Forest (7)		
1.5 - 10 m	Left Bank	None (1)	Lawn (2)	Cropped (3)	Meadow (4)	Scrubland (5)	Wetland (6)	Forest (7)		
	Right Bank	None (1)	Lawn (2)	Cropped (3)	Meadow (4)	Scrubland (5)	Wetland (6)	Forest (7)		
10 - 30 m	Left Bank	None (1)	Lawn (2)	Cropped (3)	Meadow (4)	Scrubland (5)	Wetland (6)	Forest (7)		
	Right Bank	None (1)	Lawn (2)	Cropped (3)	Meadow (4)	Scrubland (5)	Wetland (6)	Forest (7)		
Channel G	Gradient (S4.N	M7) Visual (*	1) Clinomete	r (2) Laser	Level (3) Su	rvey Level (4)	Other (5)	LiDAR (6)		
D' (										
Distance (m): Elevation (cm) : Gradient (°):										
Dominant Sub-Domi	Substrate (S inant Substra	Clay (H: 2.M3) te (S2.M3)	ard Pan) Sil	t Sand (0.06-2	mm) Gravel (22-6	66 mm) Cobble (	(67-249 mm) Boul	der (250 mm) Bedrock		
Feature Ro	oughness	< ^	10% Minimal (1)	10 - 40%	Moderate (2)	40 - 60% High	(3) > 60	% Extreme (4)		
Width Mea	asurement	Can't Measure	e (1) Bank	full (2)	Mean Width (3)	Estimated (4)	GIS (5)	Measure/GIS (6)		
Channel D	imensions	Feature Width (m):			Bankful	ll Depth (mm)				
Entrenchn	nent To	vtal: >40 m	<40 m [	_eft Bank	m Right B	lank	m Total wic	Jth m		
Surface Fl	ow Method	Perched Culv	<sup>,</sup> ert (1)	Hydraulic Hea	ad (2) Dis	stance by Time (3)	)	Estimated (4)		
Wetteo	d Width (m)	Wetted Dept 1 2	h (mm) Hyc 3	Jraulic head (mm) 1 2 3	Volume (L 1 2	_) 3	Distance (m) 1 2 3	Time (s) 1 2 3		
Sedimer	nt Transport	Adjacent	None (1)	Rill (2)	Rill and Gully (3)	) Gully	y (4) Outlet	t Scour (5)		
			Sheet Erosion (6)		Instream Bank E	Frosion (7)	Other	. (8)		
		Feature	None (1)	Rill (2)	Rill and Gully (3)	) Gully	y (4) Outlet	t Scour (5)		
			Sheet Erosion (6)		Instream Bank E	Frosion (7)	Other	. (8)		
Sediment Deposition Measures (mm):										
None (1)		Minimal: < 5 mm (2	2) Mode	erate: 5-30 mm (3)	Substantial:	Substantial: 31-80 mm (4)		Extensive: > 80 mm (5)		
				. /				. ,		

	vvvv/mm	/dd	Uncon	nt	Pg. 2 of 2						
Date:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Proj	ect #:		Field A	ssessment:	Sample # 1	Sample # 2	Sample # 3		
				PC	DINT FEATU	JRE DATA	<u> </u>				
Fish Barrier Measurements: WP# WP#				Perched Heig Perched Heig	ht (mm): ht (mm):	Jumping Height (mm): Jumping Height (mm):					
Groundwater Indicators Fish Collection			None Absent	Watercress Present	Seepage Comment:	Bubbling	Stained	Other:			
WP#	Photo #	Code	Category			[	Description				
A al al :4:		_									
Additional Notes:											
Site Break Fe		Feature Typ	eature Type Feat		Flow Co	Flow Conditions	Feature Vegetation	on Riparia	Riparian Vegetation		
Trigge	r	Other: Con	nments								
Point Data			Ongoing and Active (1)			Evidence (2)	Reported but No Evidence (3)				
Catego	Category		No Evidence (4)			m (5)					
POINT	DATA KEY:										
<ul> <li>A Spring/upwelling - estimate &lt;0.5 l/sec or &gt;0.5 l/sec; measure temp</li> <li>B Seepage area - measure or estimate length of bank where seepage occurs</li> <li>C Watercress - estimate total surface area occupied</li> <li>D Outlet (tile or other) - record flow status as per feature flow. Estimate volume &lt;0.5 l/sec or &gt;0.5 l/sec. Measure temperature.</li> <li>Inlet (tile or other) - record flow status as per feature flow. Estimate volume to be &lt;0.5 l/sec or &gt;0.5 l/sec.</li> <li>F Beaver dam - measure perched height and jumping height</li> <li>G Manmade dam - measure perched height and jumping height</li> <li>Other barrier to fish movement</li> <li>Potential contamination source (storm sewer outlet or industrial discharge pipe).</li> <li>J Channel hardening - indicated by rip-rap, armour stone, or gabion baskets.</li> <li>K Culvert - note type, size and whether or not perched. If perched record perched height and jumping height.</li> <li>Flow transition point D/S- flow condition changes from dry to standing water, independent of segment break</li> <li>Flow transition point D/S- flow condition changes from dry/standing water to interstitial flow, independent of segment break</li> <li>Flow transition point D/S-IF- flow condition changes from dry/standing water to interstitial flow, independent of segment break</li> <li>P otential nutrient source</li> <li>Q Drediging of channel</li> <li>R Offline pond</li> <li>Offline pond</li> </ul>											