Appendix H: Examples of the IOWATER Assessment Forms	
Shypen 9 Accociated by	

SNYDER & ASSOCIATES, INC.



Chemical / Physical Assessment

* Recommended frequency – monthly *

Date		Time					
IOWATER M	onitor			# of Adu	l lts (incl. yo	u)	
Site Number _			# of under 18				
Other Volunte	ers Involved	·					
Was the stream	n dry when i	t was moni	tored? Y	es	No		
Weather (check Sunny Pa		_ Cloudy	Rain/Sr	now	Windy	Calm	
Water Color (d			Reddish	_ Blackish	Milky	Gray	
Water Odor (c	heck all that ap		en Eggs	Petroleun	n Musl	ку	
Air Temperatu	<u>ıre</u>	_ °Fahrenheit					
Precipitation	inch	es over the la	st 24 hours				
Transparency centime	`	numbers only	– no tenths)				
<u>pH</u> Expiration date or <i>check one</i> – 4	bottom of bott 5 6	le	8 9				
Nitrite-N (mg/l) Expiration date or check one – 0) n bottom of bott	le			_		
Nitrate-N (mg/l Expiration date or	n bottom of bott		20	50			

check one – 1	back of color com	parator					
	2 3 4	5	_ 6	8	10	12	
Phosphate (mg/l))						
Expiration date on l		parator					
Expiration date on 1							
Expiration date on a							
check one – 0	_ 0.1 0.2	_ 0.3	0.4	0.6	_ 0.8	_	4.0
1	_ 2 3	_ 4	5	6_	_ 7	_ 8	10
<u>Chloride</u>							
Expiration date on l	bottom of bottle _						
mg/l	l – Convert Quantab	Units to mg/	L using th	e chart p	rovided or	the bottle	
<u>Water Tempera</u>							
°Fahrenhe	it						
Stream Width							
meters							
meters							
Maximum Strea	am Depth (alon	g vour tra	nsect)				
met	_	5 / 0					
• met	1015						
Stream Flow (al	ong your transect)					
high	n	ormal		lo	ow		not su
Stream Depth (i			oth a			a oth o	
1st Snot	5 th Spot	-•	9 th S ₁	oot	•	13 th Spot	•
nd ~			10 ^m C.	4			
2 nd Spot	6 Spot	•	10 S	οοι	•	14 th Spot	·
2 nd Spot 3 rd Spot	6 th Spot	·	10 S ₁	oot	·	14 th Spot 15 th Spot	
2 nd Spot 3 rd Spot	6 Spot 7 th Spot 8 Spot	·	10 S ₁ 11 th S ₁ 12 th S ₁	oot oot	·	14 th Spot 15 th Spot	·
2 nd Spot 3 rd Spot 4 th Spot	8 ^h Spot	·	10 S ₁ 11 th S ₁ 12 th S ₁	oot	·	14 th Spot 15 th Spot	·
2 nd Spot 3 rd Spot 4 th Spot Stream Velocity	$\underline{}$ 8 ^h Spot $\underline{}$ (in seconds)	•	12 th S ₁	oot	•		
2 nd Spot 3 rd Spot 4 th Spot Stream Velocity 1 st Spot	8 ^h Spot <u>V</u> (in seconds) 5 th Spot	•	12 th S ₁	oot Spot _	·	13 th	Spot
2 nd Spot 3 rd Spot 4 th Spot Stream Velocity 1 st Spot 2 nd Spot	8 ^h Spot (in seconds) 5 th Spot 6 th Spot	·	12 th S _I 9 th 10 ^t	Spot Spot	·	13 th	Spot
2 nd Spot 3 rd Spot 4 th Spot Stream Velocity 1 st Spot 2 nd Spot	8 ^h Spot <u>7</u> (in seconds) 5 th Spot 6 th Spot 7 th Spot	·	12 th S ₁ 9 th 10 ^t	Spot Spot h Spot _	·	13 th	Spot
2 nd Spot 3 rd Spot 4 th Spot Stream Velocity 1 st Spot 2 nd Spot 3 rd Spot	8 ^h Spot (in seconds) 5 th Spot 6 th Spot	·	12 th S ₁ 9 th 10 ^t	Spot Spot	·	13 th	Spot
2 nd Spot 3 rd Spot 4 th Spot Stream Velocity 1 st Spot 2 nd Spot 3 rd Spot 4 th Spot	8 ^h Spot (in seconds) 5 th Spot 6 th Spot 7 th Spot 8 th Spot	·	12 th S ₁ 9 th 10 ^t 11 ^t 12 ^t	Spot Spot _ h Spot _ h Spot _	·	13 th	Spot
2 nd Spot 2 nd Spot 3 rd Spot 4 th Spot Stream Velocity 1 st Spot 2 nd Spot 3 rd Spot 4 th Spot	8 ^h Spot (in seconds) 5 th Spot 6 th Spot 7 th Spot 8 th Spot	·	12 th S ₁ 9 th 10 ^t 11 ^t 12 ^t	Spot Spot _ h Spot _ h Spot _	·	13 th	Spot
2 nd Spot 3 rd Spot 4 th Spot Stream Velocity 1 st Spot 2 nd Spot 3 rd Spot 4 th Spot	8 ^h Spot (in seconds) 5 th Spot 6 th Spot 7 th Spot 8 th Spot	·	12 th S ₁ 9 th 10 ^t 11 ^t 12 ^t	Spot Spot _ h Spot _ h Spot _	·	13 th	Spot



Biological Assessment

Recommended frequency – no more than 5 times	a year, preferably between mid-July to mid-Oct			
Date Time				
IOWATER Monitor	# of Adults (incl. you)			
Site Number	# of under 18			
Other Volunteers Involved				
Was the stream dry when it was monito	ored? Yes No			
Were Benthic Macroinvertebrates I comments in the "Other Assessment Observa	Found? (If no, please provide any relevant tions and Notes" section at the end of this form)			

Benthic Macroinvertebrates (record the number of each collected, then total each group)

High Quality Group		Middle Quality Group			Low Quality Group			
(pollution intolerant)		(somewhat pollution tolerant)			(pollution tolerant)			
Tally Column	Total # found	но вмі	Tally Column	Total # found	MQ BMI	Tally Column	Total # found	LQ BMI
		Caddisfly			Alderfly			Aquatic Worm
		Dobsonfly			Backswimmer			Black Fly
		Mayfly			Crane Fly			Bloodworm
		Riffle Beetle			Crawdad			Flatworm
		Snail (not pouch)			Crawling Water Beetle			Leech
		Stonefly			Damselfly			Midge Fly
		Water Penny Beetle			Dragonfly			Mosquito
TOTAL		(A)			Giant Water Bug			Pouch Snail
					Limpet			Rat-tailed Maggot
					Mussels/Clams			Water Scavenger Beetle
					Orbsnail	TOTAL		(C)
					Predaceous Diving Beetle			
					Scud			
					Sowbug			
					Water Boatman			
					Water Mite			
					Water Scorpion			
					Water Strider			
		mom:-		Whirligig Beetle				
			TOTAL		(B)] , . <u>-</u>		
	Other _					(no tole	rance gi	roup assigned)

Index of Biotic Integrity (IBI) = $\frac{(AX3)+(BX2)+(CX1)}{A+B+C} = \underline{\qquad \qquad }$ (Over)

Benthic Mac	<u>croinvertebrate</u>	e Collect	t <mark>ion Time</mark> (check	one)	
0-15 min	15-30 min.	·	30-45 min	_ More tha	n 45 min
Collection N	l ets (How many n	ets are vo	u using to collect c	ritters?)	
1		-	4		6+
-			-	<i>5</i>	0 1
Identificatio	n Confidence I	Level (Ar	e you confident the	at your identifi	cation is correct?)
I'm not					
I think	they've been iden	tified cor	rectly		
Some a	re definitely corre	ect, I'm n	ot sure about othe	ers (Please cla	rify in "Other
			s" section at the en		
			en correctly identi	ified	
I guara	ntee they have be	en identif	ied correctly		
Stroom Doo	oh I onath (How	fan alone	the stream did nor	u a a anala 2)	
	-		the stream did you		na 100 i motora
0-25 meter	s 25-50 me	ters	50-75 meters	_ /5-100 meter	rs 100+ meters
Microhabita	its (check all pres	ent in stre	am reach, check if	sampled)	
			Leaf Packs		Sampled
			Rocks		
Root Wads	Present Sam	pled	Weed Beds	Present	Sampled
Fallen Trees	Present Sam	pled	Undercut Banks	s Present	Sampled
Silt/Muck	Present Sam	pled	Rip Rap	Present	Sampled
Sand	Present Sam	pled	Overhanging Vo	egetation Pres	sent Sampled
	rbage, etc.) Prese				-
				Present _	Sampled
C4 II I	•4 4 700	11		•	
			sampled in stream	reach)	
Riffle	Run	_	P00I		
Aquatic Plan	nt Cover of Str	eambed	(at transect – ched	ck one)	
			50-75%		, n
Algae Cover	of Stream Str	<u>eambed</u>	(at transect – chec 50-75%	ck one)	
0-25%	25-50% _		50-75%	75-100%	0
	<u>gae present in t</u>				
No	Yes If yes	s, please s	ubmit a photograp	hic record & c	ontact IOWATER.
T		7.			
	ecies (check all fo		161	77.1	
			y-leaf pondweed		ra mussels
Brittle nai		Purp Silve	ole Loosestrife		nese mystery snails
bigneau C	arp	SIIVE	er Carp	Kus	ty Crawfish
Other Asses	sment Observa	tions ar	nd Notes		