ASSESSMENT OF UNIONID REFUGES DATA COLLECTION SHEET

Site Info	ormation
Name of the bay (place)	Site number
	County
GPS (decimal degrees)N	State
(WGS 84 datum)W	Date
Nearest Road	Time started
Nearest city	Time finished
Prepared by (name(s), institution)	
	Initials
Environment	al parameters
Current threats (visual):	pollution
sediment disturbance (filling, grading, removal	
of vegetation, building construction etc)	watershed development
Macrophyte overgrowth (visual):	dominant species

Watershed development Macrophyte overgrowth (visual): ### dominant species

Refuge	
Site #	
Prepared by _	

Abiotic data (record in at least 3 points per sampling site):

Parameter	Reading 1	Reading 2	Reading 3
Depths range (m)			
Depth of soft sediments (measure with a stick, cm)			
Substrate (%):			
bedrock, large boulders (>45 cm)			
boulders (>25 - 45 cm)			
cobble (>6 - 25 cm)			
gravel (>6 - 60 mm)			
sand (0.06 - 6 mm)			
mud/silt (<0.06 mm)			
clay			
Water chemistry: Probe brand/model or test strips types			
water temperature (°C)			
рН			
Alkalinity (units)			
total hardness (ppm)			
Nitrates/Nitrite (ppm)			
Phosphates (ppm)			
Turbidity (cm)			

Time Search (2 man hours on each sampling site)

Time search efforts:	GPS coordinates of time search area
time spent	(4 corners of 1 hectare [100m x 100m] site) N W
number of people searched	
Search:visual or tactile	
Range of depths searched:	NW
minimal maximal	W
Searched by:wadingsnorkeldiving (SCUBA)	Search area marked on the map

Refuge	
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Shells collected:

Species /condition (recently dead - RD, long dead - LD, subfossil	
Unionids outside of designated site (nearby – in addition to what	was found inside):
Species/ condition (recently dead - RD, long dead - LD, subfossil	- SF)
Juvenile unionids: (from raking)	
Raking area: est. transect length x rake width = _	m²
live molluscs found	
Species/length (mm) (use Live Unionids Tally Sheet if many)	
Fotal live mussels collected:	
Fotal shells collected:	
Fotal species collected: live; live + dead	
	Refuge Site #
	Prepared by