

**BIG SEWICKLEY CREEK WATERSHED: RIVERS CONSERVATION & STEWARDSHIP PLAN 2020 | ALLEGHENY LAND TRUST**

**Appendix 1: Big Sewickley Creek Fish Community Survey Data Tables (2008 & 2019)**

<b>Big Sewickley Creek at Neely Street.</b>						
<b>Ambridge, Beaver County, PA. 24 July 2008</b>						
<b>Start Location 9:12PM - 40°35'05.69"N, 80°12'40.28"W</b>			USGS StreamStats Drainage Area 29.5 sq mi.			
<b>Stop Location 11:43AM - 40°35'09.97"N, 80°12'34.00"W, Sample Length 200M.</b>						
<b>Site # 2 BSC13-14</b>	backpack electrofishing	<b>2008</b>				
<b>Common Name</b>	<b>Scientific Name</b>	<b>N</b>	<b>Feed Guild</b>	<b>Tolerance</b>	<b>Breeding Guild</b>	<b>River Size</b>
<b>Family - Minnows or Carps</b>	<b>Cyprinidae</b>					
Central stoneroller	<i>Campostoma anomalum</i>	198	H	-	N	-
Longnose dace	<i>Rhinichthys cataractae</i>	8	I	R	S	-
<b>Family - Suckers</b>	<b>Catostomidae</b>					
White sucker	<i>Catostomus commersonii</i>	22	O	T	S	-
Northern hog sucker	<i>Hypentelium nigricans</i>	57	I	M	S	-
Shorthead redhorse	<i>Moxostoma breviceps</i>	4	I	M	S	-
Golden redhorse	<i>Moxostoma erythrurum</i>	4	I	M	S	-
<b>Family - Salmon &amp; Trout</b>	<b>Salmonidae</b>					
Rainbow trout (EXOTIC)	<i>Oncorhynchus mykiss</i>	3	-	-	N	-
<b>Family - Sunfishes</b>	<b>Centrarchidae</b>					
Smallmouth bass	<i>Micropterus dolomieu</i>	22	C	M	C	-
<b>Family - Perches</b>	<b>Percidae</b>					
Greenside darter	<i>Etheostoma blennioides</i>	56	I	M	S	-
Rainbow darter	<i>Etheostoma caeruleum</i>	68	I	M	S	-
Logperch	<i>Percina caprodes</i>	1	I	M	S	-
Walleye	<i>Sander vitreus</i>	1	P	-	S	-
<b>Family - Drums</b>	<b>Scienidae</b>					
Freshwater Drum	<i>Aplodinotus grunniens</i>	1	-	P	M	L
<b>Family - Sculpins</b>	<b>Cottidae</b>					
Mottled sculpin	<i>Cottus bairdi</i>	46	I	-	C	H
<b>Species: 14</b>	<b>Individuals:</b>	<b>491</b>				
<b>Feeding Guilds</b>	<b>Tolerance</b>	<b>Breeding Guilds</b>	<b>River Size</b>			
P - Piscivore	I - Common Intolerant	N - Complex, no parental care	L - Large River species			
F - Filter Feeder	R - Rare Intolerant	C - Complex, with parental care	H - Headwater species			
V - Invertivore	M - Moderately Intolerant	M - Simple, miscellaneous	P- Pioneering species			
I - Specialist Insectivore	T - Highly Tolerant	S - Simple, lithophils				
O - Omnivore	P - Moderately Tolerant					
G - Generalist	<b>Water Quality:</b> Temp 21.1°C, Cond 630.2uS/cm, pH 8.10, DO 8.12mg/L					
H - Herbivore	Turbidity: 8 NTU					
C - Carnivore						
<b>Method:</b> Backpack electrofishing 200v, 30htz, 12% duty cycle, shock time 1740sec, with 3 dip nets and 8' seine.						

**BIG SEWICKLEY CREEK WATERSHED: RIVERS CONSERVATION & STEWARDSHIP PLAN 2020 | ALLEGHENY LAND TRUST**

BSC site 2	Drainage Size 29.5 sq mi.			
<b>Ohio Fish IBI- Headwaters</b>	<b>Value</b>	<b>IBI Score</b>		
<b>1. Total # of Species -Exotics</b>	<b>13</b>	<b>3</b>		
<b>2. # Darter Species + Sculpin</b>	<b>4</b>	<b>3</b>		
<b>3. # Headwaters Species</b>	<b>1</b>	<b>1</b>		
<b>4. Number Minnow Species</b>	<b>2</b>	<b>1</b>		
<b>5. Number of Sensitive Species (I+M+R+S)</b>	<b>8</b>	<b>5</b>		
<b>6. % Tolerant Species</b>	<b>22/491=4.5%</b>	<b>5</b>		*exceptional for tolerant
<b>7. % Omnivores (only O not G)</b>	<b>22/491=4.5%</b>	<b>5</b>		
<b>8. % Insectivorous Species</b>	<b>244/491=49.7%</b>	<b>4</b>		
<b>9. % Pioneering Species</b>	<b>0%</b>	<b>5</b>		
<b>10. # Individuals (-Tolerant, -hy -ex)/300</b>	<b>491-22-1=468/200*300=702</b>	<b>4</b>		
<b>11. # Simple Lithophilic Species</b>	<b>9</b>	<b>5</b>		
<b>12. % DELT Anomalies</b>	<b>0%</b>	<b>5</b>		
		<b>46</b>		<b>Very Good</b> for Headwaters
BSC site 2	Drainage Size 29.5 sq mi.			
<b>Ohio Fish IBI- Wading</b>	<b>Value</b>	<b>IBI Score</b>		
<b>1. Total # of Species -Exotics</b>	<b>13</b>	<b>3</b>		
<b>2. # Darter Species (no Sculpin)</b>	<b>3</b>	<b>4</b>		
<b>3. # Sunfish Species (excludes <i>Micropterus</i>)</b>	<b>0</b>	<b>1</b>		
<b>4. Number Sucker Species</b>	<b>4</b>	<b>5</b>		
<b>5. Number of Intolerant Species (I+R)</b>	<b>1</b>	<b>1</b>		
<b>6. % Tolerant Species</b>	<b>22/491=4.5%</b>	<b>5</b>		*exceptional for tolerant
<b>7. % Omnivores (only O not G)</b>	<b>22/491=4.5%</b>	<b>5</b>		
<b>8. % Insectivorous Species</b>	<b>244/491=49.7%</b>	<b>4</b>		
<b>9. % Top Carnivores</b>	<b>22/491=4.5%</b>	<b>4</b>		
<b>10. # Individuals (-Tolerant, -hy -ex)/300</b>	<b>491-22-1=468/200*300=702</b>	<b>4</b>		
<b>11. % Simple Lithophilic Species</b>	<b>221/491=45.0%</b>	<b>5</b>		
<b>12. % DELT Anomalies</b>	<b>0%</b>	<b>5</b>		
		<b>46</b>		<b>Very Good</b> for wading

**BIG SEWICKLEY CREEK WATERSHED: RIVERS CONSERVATION & STEWARDSHIP PLAN 2020 | ALLEGHENY LAND TRUST**

<b>North Fork Big Sewickley Creek along Hoenig Rd., 940M downstream from Conway Wallrose Rd.</b>						
<b>Economy, Beaver Co., PA 24 July 2008</b>						
<b>Start Location 12:51PM - 40°38'14.02"N, 80°10'20.92"W</b>			USGS StreamStats Drainage Area 4.34 sq mi.			
<b>Stop Location 15:24PM - 40°38'17.17"N, 80°10'14.12"W, Sample length 200M.</b>						
<b>Site # 6 NFT2W1</b>	backpack electrofishing	<b>2008</b>				
<b>Common Name</b>	<b>Scientific Name</b>	<b>N</b>	<b>Feed Guild</b>	<b>Tolerance</b>	<b>Breeding Guild</b>	<b>River Size</b>
<b>Family - Minnows or Carps</b>	<b>Cyprinidae</b>					
Central stoneroller	<i>Campostoma anomalum</i>	5	H	-	N	-
Southern redbelly dace	<i>Chrosomus erythrogaster</i>	15	H	-	S	H
Redside dace	<i>Clinostomus elongatus</i>	3	I	I	S	H
Silverjaw minnow	<i>Ericymba buccata</i>	1	I	-	M	P
Bluntnose minnow	<i>Pimephales notatus</i>	2	O	T	C	P
Longnose dace	<i>Rhinichthys cataractae</i>	1	I	R	S	-
Western blacknose dace	<i>Rhinichthys obtusus</i>	11	G	T	S	H
Creek chub	<i>Semotilus atromaculatus</i>	42	G	T	N	P
<b>Family - Suckers</b>	<b>Catostomidae</b>					
White sucker	<i>Catostomus commersonii</i>	7	O	T	S	-
<b>Family - Perches</b>	<b>Percidae</b>					
Johnny darter	<i>Etheostoma nigrum</i>	2	I	-	C	P
<b>Family - Sculpins</b>	<b>Cottidae</b>					
Mottled sculpin	<i>Cottus bairdi</i>	94	I	-	C	H
<b>Species: 11</b>	<b>Individuals:</b>	<b>183</b>				
<b>Feeding Guilds</b>	<b>Tolerance</b>	<b>Breeding Guilds</b>	<b>River Size</b>			
P - Piscivore	I - Common Intolerant	N - Complex, no parental Care	L - Large River species			
F - Filter Feeder	R - Rare Intolerant	C - Complex, with parental car	H - Headwater species			
V - Invertivore	M - Moderately Intolerant	M - Simple, miscellaneous	P- Pioneering species			
I - Specialist Insectivore	T - Highly Tolerant	S - Simple, lithophils				
O - Omnivore	P - Moderately Tolerant					
G - Generalist	<b>Water Quality:</b> Temp 23.6°C, Cond 480.0uS/cm, pH 7.80, DO6.82mg/L.					
H - Herbivore	Turbidity: 16 NTU					
C - Carnivore						
<b>Method:</b> Backpack electrofishing 200v, 30htz, 12% duty cycle, shock time 1966 sec, with 3 dip nets.						

**BIG SEWICKLEY CREEK WATERSHED: RIVERS CONSERVATION & STEWARDSHIP PLAN 2020 | ALLEGHENY LAND TRUST**

North Fork BSC site 6	Drainage Size 4.34 sq mi.			
<b>Ohio Fish IBI- Headwaters</b>	<b>Value</b>	<b>IBI Score</b>		
<b>1. Total # of Species -Exotics</b>	<b>11</b>	<b>4</b>		
<b>2. # Darter Species + Sculpin</b>	<b>2</b>	<b>3</b>		
<b>3. # Headwaters Species</b>	<b>4</b>	<b>5</b>		
<b>4. Number Minnow Species</b>	<b>8</b>	<b>5</b>	*exceptional minnows	
<b>5. Number of Sensitive Species (I+M+R+S)</b>	<b>2</b>	<b>2</b>		
<b>6. % Tolerant Species</b>	<b>62/183=33.9%</b>	<b>4</b>		
<b>7. % Omnivores (only O not G)</b>	<b>9/183=4.9%</b>	<b>5</b>		
<b>8. % Insectivorous Species</b>	<b>100/183=54.6%</b>	<b>5</b>	<b>*exceptional insectivores</b>	
<b>9. % Pioneering Species</b>	<b>47/183=25.7%</b>	<b>5</b>		
<b>10. # Individuals (-Tolerant, -hy -ex)/300</b>	<b>183-62=121/200*300=181.5</b>	<b>3</b>		
<b>11. # Simple Lithophilic Species</b>	<b>5</b>	<b>5</b>		
<b>12. % DELT Anomalies</b>	<b>0%</b>	<b>5</b>		
		<b>51</b>	<b>Exceptional</b>	for Headwaters

## BIG SEWICKLEY CREEK WATERSHED: RIVERS CONSERVATION & STEWARDSHIP PLAN 2020 | ALLEGHENY LAND TRUST

<b>East Fork Big Sewickley Creek at Linbrook Park from downstream footbridge near ball diamond</b>						
<b>Franklin Park, Allegheny Co., PA 2 November 2019</b>						
<b>Start Location 9:50AM - 40°36'38.61"N, 80°08'26.07"W</b>			USGS StreamStats Drainage Area 6.05 sq mi.			
<b>Stop Location 12:20PM - 40°36'34.85"N, 80°08'19.41"W, Sample length 200M.</b>						
<b>Site # 11 EFBS</b>		backpack electrofishing	<b>2019</b>			
<b>Common Name</b>	<b>Scientific Name</b>	<b>N</b>	<b>Feed Guild</b>	<b>Tolerance</b>	<b>Breeding Guild</b>	<b>River Size</b>
<b>Family - Minnows or Carps</b>	<b>Cyprinidae</b>					
Central stoneroller	<i>Campostoma anomalum</i>	155	H	-	N	-
Southern redbelly dace	<i>Chrosomus erythrogaster</i>	1	H	-	S	H
Redside dace	<i>Clinostomus elongatus</i>	4	I	I	S	H
Spotfin shiner	<i>Cyprinella spiloptera</i>	4	I	-	M	-
Silverjaw minnow	<i>Ericymba buccata</i>	2	I	-	M	P
Bluntnose minnow	<i>Pimephales notatus</i>	48	O	T	C	P
Western blacknose dace	<i>Rhinichthys obtusus</i>	53	G	T	S	H
Creek chub	<i>Semotilus atromaculatus</i>	92	G	T	N	P
<b>Family - Suckers</b>	<b>Catostomidae</b>					
White sucker	<i>Catostomus commersonii</i>	32	O	T	S	-
Northern hog sucker	<i>Hypentelium nigricans</i>	8	I	M	S	-
<b>Family - Perches</b>	<b>Percidae</b>					
Greenside darter	<i>Etheostoma blennioides</i>	3	I	M	S	-
Rainbow darter	<i>Etheostoma caeruleum</i>	10	I	M	S	-
Johnny darter	<i>Etheostoma nigrum</i>	3	I	-	C	P
<b>Family - Sculpins</b>	<b>Cottidae</b>					
Mottled sculpin	<i>Cottus bairdi</i>	107	I	-	C	H
<b>Species: 14</b>	<b>Individuals:</b>	<b>522</b>				
<b>Feeding Guilds</b>	<b>Tolerance</b>	<b>Breeding Guilds</b>	<b>River Size</b>			
P - Piscivore	I - Common Intolerant	N - Complex, no parental Care	L - Large River species			
F - Filter Feeder	R - Rare Intolerant	C - Complex, with parental care	H - Headwater species			
V - Invertivore	M - Moderately Intolerant	M - Simple, miscellaneous	P- Pioneering species			
I - Specialist Insectivore	T - Highly Tolerant	S - Simple, lithophils				
O - Omnivore	P - Moderately Tolerant					
G - Generalist	<b>Water Quality:</b> Temp 7.0°C, Spec Cond 411.7uS/cm, pH 8.47, DO 11.78mg/L.					
H - Herbivore	Turbidity: 11.7 NTU after large rain event					
C - Carnivore						
<b>Method:</b> Backpack electrofishing 180v, 30htz, 12% duty cycle, shock time 3637sec, with 3 dip nets.						
Observations: Crayfish, tipulid larva, green frog adults						
Southern redbelly dace (State Threatened Species) captured somewhere between upstream of the baseball diamond and Linbrook Park Drive bridge, possibly at undercut banks along playground on RDB.						

**BIG SEWICKLEY CREEK WATERSHED: RIVERS CONSERVATION & STEWARDSHIP PLAN 2020 | ALLEGHENY LAND TRUST**

East Fork BSC- Linbrook	Drainage Size 6.05 sq mi.			
<b>Ohio Fish IBI- Headwaters</b>	<b>Value</b>	<b>IBI Score</b>		
<b>1. Total # of Species -Exotics</b>	<b>14</b>	<b>5</b>		
<b>2. # Darter Species + Sculpin</b>	<b>4</b>	<b>5</b>		
<b>3. # Headwaters Species</b>	<b>4</b>	<b>5</b>		
<b>4. Number Minnow Species</b>	<b>8</b>	<b>5</b>		
<b>5. Number of Sensitive Species (I+M+R+S)</b>	<b>4</b>	<b>3</b>		
<b>6. % Tolerant Species</b>	<b>225/522 = 43.1%</b>	<b>3</b>		
<b>7. % Omnivores (only O not G)</b>	<b>80/522 = 15.3%</b>	<b>3</b>		
<b>8. % Insectivorous Species</b>	<b>141/522 = 27.0%</b>	<b>3</b>		
<b>9. % Pioneering Species</b>	<b>145/522 = 27.8%</b>	<b>5</b>		
<b>10. # Individuals (-Tolerant, -hy -ex)/300M</b>	<b>522-225=297/200M x300M=445.</b>	<b>3</b>		
<b>11. # Simple Lithophilic Species</b>	<b>7</b>	<b>5</b>		
<b>12. % DELT Anomalies</b>	<b>0%</b>	<b>5</b>		
		<b>50</b>	<b>Exceptional</b> Headwaters	

**BIG SEWICKLEY CREEK WATERSHED: RIVERS CONSERVATION & STEWARDSHIP PLAN 2020 | ALLEGHENY LAND TRUST**

**Big Sewickley Creek at private driveway bridge adjacent to Warrendale-Bayne Rd and Pittsburgh Rochester Rd.**

**Allegheny County, PA. 2 November 2019**

**Start Location 2:30PM - 40°37'00.47"N, 80°08'29.43"W** USGS StreamStats Drainage Area 6.91 sq mi.

**Stop Location 3:50PM - 40°37'03.25"N, 80°08'27.45"W, Sample Length 100M.**

**Site # 9 BSC70** backpack electrofishing **2019**

<b>Common Name</b>	<b>Scientific Name</b>	<b>N</b>	<b>Feed Guild</b>	<b>Tolerance</b>	<b>Breeding Guild</b>	<b>River Size</b>
<b>Family - Minnows or Carps</b>	<b>Cyprinidae</b>					
Central stoneroller	<i>Campostoma anomalum</i>	121	H	-	N	-
Redside dace	<i>Clinostomus elongatus</i>	1	I	I	S	H
Spotfin shiner	<i>Cyprinella spiloptera</i>	30	I	-	M	-
Silverjaw minnow	<i>Ericymba buccata</i>	8	I	-	M	P
Silver shiner	<i>Notropis photogenis</i>	2	I	I	S	-
Bluntnose minnow	<i>Pimephales notatus</i>	16	O	T	C	P
Western blacknose Dace	<i>Rhinichthys obtusus</i>	53	G	T	S	H
Creek chub	<i>Semotilus atromaculatus</i>	30	G	T	N	P
<b>Family - Suckers</b>	<b>Catostomidae</b>					
White sucker	<i>Catostomus commersonii</i>	9	O	T	S	-
Northern hog sucker	<i>Hypentelium nigricans</i>	7	I	M	S	-
<b>Family - Perches</b>	<b>Percidae</b>					
Greenside darter	<i>Etheostoma blennioides</i>	1	I	M	S	-
Rainbow darter	<i>Etheostoma caeruleum</i>	10	I	M	S	-
Johnny darter	<i>Etheostoma nigrum</i>	2	I	-	C	P
<b>Family - Sculpins</b>	<b>Cottidae</b>					
Mottled sculpin	<i>Cottus bairdi</i>	74	I	-	C	H
<b>Species: 14</b>	<b>Individuals:</b>	<b>364</b>				

<b>Feeding Guilds</b>	<b>Tolerance</b>	<b>Breeding Guilds</b>	<b>River Size</b>
P - Piscivore	I - Common Intolerant	N - Complex, no parental care	L - Large River species
F - Filter Feeder	R - Rare Intolerant	C - Complex, with parental care	H - Headwater species
V - Invertivore	M - Moderately Intolerant	M - Simple, miscellaneous	P- Pioneering species
I - Specialist Insectivore	T - Highly Tolerant	S - Simple, lithophils	
O - Omnivore	P - Moderately Tolerant		
G - Generalist	<b>Water Quality:</b> Temp 8.7°C, Spec Cond 305.7uS/cm, pH 8.10, DO 111.4%, 12.85mg/L		
H - Herbivore	Turbidity: 11.0 NTU after large rain event		
C - Carnivore			

**Method:** Backpack electrofishing 180v, 30htz, 12% duty cycle, shock time 2703sec, with 3 dip nets.

Observations: Dragonfly nyads, two-lined salamander, green frog adult.  
75% of this site is stream-wide riffle, the remainder was bedrock runs.

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BSC site 9	Drainage Size 6.91 sq mi.			
<b>Ohio Fish IBI- Headwaters</b>	<b>Value</b>	<b>IBI Score</b>		
<b>1. Total # of Species -Exotics</b>	<b>14</b>	<b>5</b>		
<b>2. # Darter Species + Sculpin</b>	<b>4</b>	<b>5</b>		
<b>3. # Headwaters Species</b>	<b>3</b>	<b>3</b>		
<b>4. Number Minnow Species</b>	<b>8</b>	<b>5</b>		
<b>5. Number of Sensitive Species (I+M+R+S)</b>	<b>5</b>	<b>5</b>		
<b>6. % Tolerant Species</b>	<b>108/364=29.7%</b>	<b>5</b>		
<b>7. % Omnivores (only O not G)</b>	<b>25/364=6.9%</b>	<b>5</b>		
<b>8. % Insectivorous Species</b>	<b>135/364=37.1%</b>	<b>3</b>		
<b>9. % Pioneering Species</b>	<b>56/364=15.4%</b>	<b>5</b>		
<b>10. # Individuals (-Tolerant, -hy -ex)/300</b>	<b>364-108=256/100*300=768</b>	<b>4</b>		
<b>11. # Simple Lithophilic Species</b>	<b>7</b>	<b>5</b>		
<b>12. % DELT Anomalies</b>	<b>0%</b>	<b>5</b>		
		<b>55</b>	<b>Exceptional</b> Headwaters	



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**Big Sewickley Creek at Neely Street.**

**Ambridge, Beaver County, PA. 9 November 2019**

**Start Location 9:12PM - 40°35'05.69"N, 80°12'40.28"W** USGS StreamStats Drainage Area 29.5 sq mi.

**Stop Location 11:43AM - 40°35'09.97"N, 80°12'34.00"W, Sample Length 200M.**

**Site # 2 BSC13-14** backpack electrofishing **2019**

<b>Common Name</b>	<b>Scientific Name</b>	<b>N</b>	<b>Feed Guild</b>	<b>Tolerance</b>	<b>Breeding Guild</b>	<b>River Size</b>
<b>Family - Minnows or Carps</b>	<b>Cyprinidae</b>					
Central stoneroller	<i>Campostoma anomalum</i>	88	H	-	N	-
Spotfin shiner	<i>Cyprinella spiloptera</i>	204	I	-	M	-
Silverjaw minnow	<i>Ericymba buccata</i>	310	I	-	M	P
Emerald shiner	<i>Notropis atherinoides</i>	1	I	-	S	-
Silver shiner	<i>Notropis photogenis</i>	53	I	I	S	-
Rosyface shiner	<i>Notropis rubellus</i>	2	I	I	S	-
Mimic shiner	<i>Notropis volucellus</i>	30	I	I	M	-
Bluntnose minnow	<i>Pimephales notatus</i>	380	O	T	C	P
Longnose dace	<i>Rhinichthys cataractae</i>	77	I	R	S	-
Western blacknose Dace	<i>Rhinichthys obtusus</i>	20	G	T	S	H
Creek chub	<i>Semotilus atromaculatus</i>	12	G	T	N	P
<b>Family - Suckers</b>	<b>Catostomidae</b>					
White sucker	<i>Catostomus commersonii</i>	18	O	T	S	-
Northern hog sucker	<i>Hypentelium nigricans</i>	39	I	M	S	-
<b>Family - Catfishes</b>	<b>Ictaluridae</b>					
Yellow bullhead	<i>Ameiurus natalis</i>	1	I	T	C	-
<b>Family - Sunfishes</b>	<b>Centrarchidae</b>					
Smallmouth bass	<i>Micropterus dolomieu</i>	1	C	M	C	-
<b>Family - Perches</b>	<b>Percidae</b>					
Greenside darter	<i>Etheostoma blennioides</i>	71	I	M	S	-
Rainbow darter	<i>Etheostoma caeruleum</i>	99	I	M	S	-
Johnny darter	<i>Etheostoma nigrum</i>	2	I	-	C	P
Varigate darter	<i>Etheostoma variatum</i>	1	I	I	S	-
<b>Family - Sculpins</b>	<b>Cottidae</b>					
Mottled sculpin	<i>Cottus bairdi</i>	21	I	-	C	H
<b>Species: 20</b>	<b>Individuals:</b>	<b>1430</b>				

<b>Feeding Guilds</b>	<b>Tolerance</b>	<b>Breeding Guilds</b>	<b>River Size</b>
P - Piscivore	I - Common Intolerant	N - Complex, no parental care	L - Large River species
F - Filter Feeder	R - Rare Intolerant	C - Complex, with parental care	H - Headwater species
V - Invertivore	M - Moderately Intolerant	M - Simple, miscellaneous	P- Pioneering species
I - Specialist Insectivore	T - Highly Tolerant	S - Simple, lithophils	
O - Omnivore	P - Moderately Tolerant		

G - Generalist **Water Quality:** Temp 3.5°C, Spec Cond 475.2uS/cm, pH 7.22, DO 106.5%, 14.11mg/L

H - Herbivore Turbidity: 3.6 NTU

**BIG SEWICKLEY CREEK WATERSHED: RIVERS CONSERVATION & STEWARDSHIP PLAN 2020 | ALLEGHENY LAND TRUST**

BSC site 2	Drainage Size 29.5 sq mi.			
<b>Ohio Fish IBI- Headwaters</b>	<b>Value</b>	<b>IBI Score</b>		
<b>1. Total # of Species -Exotics</b>	<b>20</b>	<b>5</b>		
<b>2. # Darter Species + Sculpin</b>	<b>5</b>	<b>4</b>		
<b>3. # Headwaters Species</b>	<b>2</b>	<b>3</b>		
<b>4. Number Minnow Species</b>	<b>11</b>	<b>5</b>		* exceptional minnows
<b>5. Number of Sensitive Species (I+M+R+S)</b>	<b>9</b>	<b>5</b>		
<b>6. % Tolerant Species</b>	<b>431/1430=30.1%</b>	<b>3</b>		
<b>7. % Omnivores (only O not G)</b>	<b>398/1430=27.8%</b>	<b>3</b>		
<b>8. % Insectivorous Species</b>	<b>911/1430=63.7%</b>	<b>5</b>		
<b>9. % Pioneering Species</b>	<b>704/1430=49.2%</b>	<b>5</b>		
<b>10. # Individuals (-Tolerant, -hy -ex)/300</b>	<b>1430-431=999/200*300=1498.5</b>	<b>5</b>		
<b>11. # Simple Lithophilic Species</b>	<b>10</b>	<b>5</b>		
<b>12. % DELT Anomalies</b>	<b>1/1430=0.07%</b>	<b>5</b>		
		<b>53</b>		<b>Exceptional</b> for Headwaters IBI
BSC site 2	Drainage Size 29.5 sq mi.			
<b>Ohio Fish IBI- Wading</b>	<b>Value</b>	<b>IBI Score</b>		
<b>1. Total # of Species -Exotics</b>	<b>20</b>	<b>5</b>		
<b>2. # Darter Species (no Sculpin)</b>	<b>4</b>	<b>4</b>		
<b>3. # Sunfish Species (excludes <i>Micropterus</i>)</b>	<b>0</b>	<b>1</b>		
<b>4. Number Sucker Species</b>	<b>2</b>	<b>3</b>		
<b>5. Number of Intolerant Species (I+R)</b>	<b>5</b>	<b>5</b>		
<b>6. % Tolerant Species</b>	<b>431/1430=30.1%</b>	<b>3</b>		
<b>7. % Omnivores (only O not G)</b>	<b>398/1430=27.8%</b>	<b>3</b>		
<b>8. % Insectivorous Species</b>	<b>911/1430=63.7%</b>	<b>5</b>		
<b>9. % Top Carnivores</b>	<b>1/1430=0.7%</b>	<b>1</b>		
<b>10. # Individuals (-Tolerant, -hy -ex)/300</b>	<b>1430-431=999/200*300=1498.5</b>	<b>5</b>		
<b>11. % Simple Lithophilic Species</b>	<b>381/1430=26.6%</b>	<b>3</b>		
<b>12. % DELT Anomalies</b>	<b>1/1430=0.07%</b>	<b>5</b>		
		<b>43</b>		<b>Marginally Good</b> for W Allegheny Plateau Wading site

**BIG SEWICKLEY CREEK WATERSHED: RIVERS CONSERVATION & STEWARDSHIP PLAN 2020 | ALLEGHENY LAND TRUST**

<b>North Fork Big Sewickley Creek along Hoenig Rd., 940M downstream from Conway Wallrose Rd.</b>						
<b>Economy, Beaver Co., PA 9 November 2019</b>						
<b>Start Location 12:51PM - 40°38'14.02"N, 80°10'20.92"W</b>			USGS StreamStats Drainage Area 4.34 sq mi.			
<b>Stop Location 15:24PM - 40°38'17.17"N, 80°10'14.12"W, Sample length 200M.</b>						
<b>Site # 6 NFT2W1</b>	backpack electrofishing	<b>2019</b>				
<b>Common Name</b>	<b>Scientific Name</b>	<b>N</b>	<b>Feed Guild</b>	<b>Tolerance</b>	<b>Breeding Guild</b>	<b>River Size</b>
<b>Family - Minnows or Carps</b>	<b>Cyprinidae</b>					
Central stoneroller	<i>Campostoma anomalum</i>	552	H	-	N	-
Southern redbelly dace	<i>Chrosomus erythrogaster</i>	20	H	-	S	H
Redside dace	<i>Clinostomus elongatus</i>	69	I	I	S	H
Spotfin shiner	<i>Cyprinella spiloptera</i>	7	I	-	M	-
Silverjaw minnow	<i>Ericymba buccata</i>	10	I	-	M	P
Bluntnose minnow	<i>Pimephales notatus</i>	27	O	T	C	P
Fathead minnow	<i>Pimephales promelas</i>	1	O	T	C	P
Longnose dace	<i>Rhinichthys cataractae</i>	21	I	R	S	-
Western blacknose dace	<i>Rhinichthys obtusus</i>	105	G	T	S	H
Creek chub	<i>Semotilus atromaculatus</i>	175	G	T	N	P
<b>Family - Suckers</b>	<b>Catostomidae</b>					
White sucker	<i>Catostomus commersonii</i>	50	O	T	S	-
Northern hog sucker	<i>Hypentelium nigricans</i>	12	I	M	S	-
<b>Family - Perches</b>	<b>Percidae</b>					
Fantail darter	<i>Etheostoma flabellare</i>	4	I	-	C	H
Rainbow darter	<i>Etheostoma caeruleum</i>	44	I	M	S	-
<b>Family - Sculpins</b>	<b>Cottidae</b>					
Mottled sculpin	<i>Cottus bairdi</i>	121	I	-	C	H
<b>Species: 15</b>	<b>Individuals:</b>	<b>1218</b>				
<b>Feeding Guilds</b>	<b>Tolerance</b>	<b>Breeding Guilds</b>	<b>River Size</b>			
P - Piscivore	I - Common Intolerant	N - Complex, no parental Care	L - Large River species			
F - Filter Feeder	R - Rare Intolerant	C - Complex, with parental car	H - Headwater species			
V - Invertivore	M - Moderately Intolerant	M - Simple, miscellaneous	P- Pioneering species			
I - Specialist Insectivore	T - Highly Tolerant	S - Simple, lithophils				
O - Omnivore	P - Moderately Tolerant					
G - Generalist	<b>Water Quality:</b> Temp 5.7°C, Spec Cond 562.8uS/cm, pH 7.54, DO 100.4%, 12.77mg/L.					
H - Herbivore	Turbidity: 1.7 NTU					
C - Carnivore						
<b>Method:</b> Backpack electrofishing 200v, 30hz, 12% duty cycle, shock time 1966 sec, with 3 dip nets and 8' seine.						
Observations: 6 Crayfish, 2 tipulid larva, 2 green frog, 2 two-lined salamander adults.						
Southern redbelly dace population (State Threatened Species) all captured in spring pool 40°38'15.47"N, 80°10'19.22"W						

**BIG SEWICKLEY CREEK WATERSHED: RIVERS CONSERVATION & STEWARDSHIP PLAN 2020 | ALLEGHENY LAND TRUST**

North Fork BSC site 6	Drainage Size 4.34 sq mi.			
<b>Ohio Fish IBI- Headwaters</b>	<b>Value</b>	<b>IBI Score</b>		
<b>1. Total # of Species -Exotics</b>	<b>15</b>	<b>5</b>		
<b>2. # Darter Species + Sculpin</b>	<b>3</b>	<b>5</b>		
<b>3. # Headwaters Species</b>	<b>5</b>	<b>5</b>	*exceptional headwater	
<b>4. Number Minnow Species</b>	<b>10</b>	<b>5</b>	*exceptional minnows	
<b>5. Number of Sensitive Species (I+M+R+S)</b>	<b>4</b>	<b>5</b>		
<b>6. % Tolerant Species</b>	<b>358/1218=29.4%</b>	<b>5</b>		
<b>7. % Omnivores (only O not G)</b>	<b>78/1218=6.4%</b>	<b>5</b>		
<b>8. % Insectivorous Species</b>	<b>288/1218=23.6%</b>	<b>3</b>		
<b>9. % Pioneering Species</b>	<b>213/1218=17.5%</b>	<b>5</b>		
<b>10. # Individuals (-Tolerant, -hy -ex)/300</b>	<b>1218-358=860/200*300=1290</b>	<b>5</b>		
<b>11. # Simple Lithophilic Species</b>	<b>7</b>	<b>5</b>	*exceptional lithophils	
<b>12. % DELT Anomalies</b>	<b>0%</b>	<b>53</b>	<b>Exceptional</b> headwaters	