

APPENDIX C: SAMPLE COLLECTION FIELD DATA SHEETS

Appendix C1: Lake Surface Water Profile Summary Table (Phase I Stratification and Overturn)

Appendix C2: Lake Surface Water Profile Summary Table (Phase II Stratification)

Appendix C3: Phase I and II Adult Fish Body Weight and Length Measurements

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Appendix C1: Lake Surface Water Profile Summary Table (Phase I Stratification and Overturn)

Appendix C1: Lake Surface Water Profile Summary Table (Phase I Stratification and Overturn)
 Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report
 E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

Sample Location	Stratification											Overturn										
	Sample Date	Sample Time (Start)	Water Depth (ft. bws)	Turbidity (Secchi Depth (ft. bws))	Water Quality Measurement Depth (ft. bws)	Dissolved Oxygen (DO)	Conductivity (mS/cm)	Water Temperature (c)	pH	Surface Water Sample Depth (ft. bws)	Surface Water Sample ID	Sample Date	Sample Time (Start)	Water Depth (ft. bws)	Turbidity (Secchi Depth (ft. bws))	Water Quality Measurement Depth (ft. bws)	Dissolved Oxygen (DO)	Conductivity (mS/cm)	Water Temperature (c)	pH	Surface Water Sample Depth (ft. bws)	Surface Water Sample ID
CI1 (Upper Curds Inlet) CI2 (Central / Upper Curds Inlet)	October 14th, 2017	10:00 AM	10	6.5	5	4.03	0.038	21.83	7.4	5	SW-001(5)CI1-171014	December 11th, 2017	12:30 PM	4	3	--	--	--	--	--	2	SW=001(2)CI1-171211
	October 14th, 2017	10:45 AM	17	6	10	4.38	0.365	21.76	7.98	10	SW-001(10)CI2-171014	December 11th, 2017	1:00 PM	8	3.5	--	--	--	--	--	4	SW=001(4)CI2-171211
CI3 (Central / Lower Curds Inlet)	October 14th, 2017	11:15 AM	27	6	10	4.49	0.348	21.79	8.14	10	SW-001(10)CI3-171014	December 11th, 2017	1:30 PM	18	6	9	7.03	0.408	13.51	8.04	25	SW=001(25)CI3-171211
CI4 (Lower / Mouth of Curds Inlet)	October 14th, 2017	12:15 AM	75-90	7	20	3.50	0.339	21.74	8.11	20	SW-002(20)CI4-171014	December 12th, 2017	9:15 AM	--	--	--	--	--	--	--	25	SW=001(25)CI4-171212
					70	1.28	0.300	20.1	7.82	70	SW-001(70)CI4-171014											
HQ (HQ Inlet)	October 4th, 2017	3:35 PM	16	5	10	3.33	0.368	22.33	8.24	10	SW-001(10)HQ1-171004	December 11th, 2017	1:45 PM	18	9	--	--	--	--	--	9	SW=001(9)HQ1-171211
LHL1 (Rocky Run)	October 6th, 2017	4:00 PM	75-110	6	20	2.85	0.314	22.1	8.07	20	SW-001(20)LHL1-171006	December 11th, 2017	11:15 AM	--	8	25	5.56	0.339	13.08	7.92	25	SW001(25)LHL1-171211
					60	0.70	0.292	19.23	7.74	60	SW-002(60)LHL1-171006					--	--	--	--			
LHL2 (Dix Dam)	October 6th, 2017	11:21 AM	190	8	10	5.65	0.313	22.47	8.56	25	SW-001(25)LHL2	December 11th, 2017	9:15 AM	190	9	10	5.34	0.341	13.12	7.86	25	SW-001(25) LHL2
					20	4.11	0.313	22.04	7.86							20	5.37	0.341	13.12	7.86		
					25	3.83	0.316	21.94	7.89							25	5.36	0.341	13.12	7.86		
					30	3.55	0.319	21.84	7.92	50	SW-002(50)LHL2					30	5.35	0.341	13.12	7.86		
					40	2.32	0.333	21.63	7.56							40	5.35	0.341	13.12	7.86		
					50	1.94	0.295	20.29	7.6							50	5.33	0.341	13.12	7.86		
					60	3.04	0.283	19.44	7.6	100	SW-003(100)LHL2					60	5.32	0.341	13.12	7.86		
					70	1.77	0.279	17.71	7.47							70	5.30	0.341	13.12	7.86		
					80	1.72	0.272	15.76	7.47							80	5.28	0.341	13.12	7.86		
					90	1.63	0.262	14.16	7.46	100	SW-003(100)LHL2					90	5.26	0.341	13.12	7.86		
					100	1.65	0.245	12.82	7.46							100	5.26	0.341	13.12	7.85		
					110	1.63	0.246	12.06	7.48							110	5.22	0.341	13.12	7.85		
					120	1.40	0.249	11.35	7.5	100	SW-003(100)LHL2					120	5.14	0.341	13.11	7.84		
					130	2.84	0.221	10.68	7.56							130	4.65	0.340	12.98	7.80		
					140	2.95	0.230	9.81	7.62							140	2.24	0.339	12.42	7.62		
150	2.57	0.228	9.5	7.67	150	1.68	0.337	12.3	7.56													
LHL3	October 6th, 2017	5:00 PM	160	8	20	3.08	0.315	22.06	7.97	20	SW-001(20)LHL3-171006	December 12th, 2017	12:45 PM	225	9	20	5.42	0.340	13.03	7.90	25	SW001(25)LHL3-171212
					50	--	--	--	--	--	50					5.40	0.340	13.02	7.90			
					70	0.67	0.270	17.82	7.74	70	5.41					0.340	13.03	7.91				
					100	0.68	0.248	13.28	7.98	100	5.40					0.340	13.03	7.91				
LHL4	October 7th, 2017	3:00 PM	160	7	20	3.63	0.304	21.65	7.95	20	SW-001(20)LHL4-171007	December 12th, 2017	10:15 AM	--	9	--	--	--	--	--	25	SW001(25)LHL4-171212
					70	1.83	0.272	18.44	7.71	70	SW-002(70)LHL4-171007											
					100	1.08	0.243	13.34	8	100	SW-003(100)LHL4-171007											
HI (Hardins Inlet)	October 5th, 2017	3:56 PM	18	6	10	2.75	0.307	22.18	8.37	10	SW-001(10)HI1-171005	December 11th, 2017	2:35 PM	6	5	--	--	--	--	--	3	SW001(3)HI1-171211
LHL5 (NE of Mallard Cove / Cane Run)	October 7th, 2017	10:00 AM	158	8	20	3.95	0.304	21.95	7.73	20	SW-001(20)LHL5-171007	December 12th, 2017	10:45 AM	--	8	--	--	--	--	--	25	SW001(25)LHL5-171212
					70	1.18	0.274	17.83	7.22	70	SW-002(70)LHL5-171007											
					100	0.90	0.258	13.12	7.32	100	SW-003(100)LHL5-171007											
LHL6	October 7th, 2017	1:00 PM	130	8	20	4.56	0.287	21.6	7.69	20	SW-001(20)LHL6-171007	December 12th, 2017	12:00 PM	200	7	20	5.05	0.330	13.08	7.87	25	SW001(25)LHL5-171212
					50	--	--	--	--	--	50					5.05	0.330	13.08	7.87			
					70	2.46	0.270	18.37	7.57	70	SW-002(70)LHL6-171007					70	5.00	0.330	13.08	7.87		
					100	2.41	0.238	13.44	7.84	100	SW-003(100)LHL6-171007					90	4.98	0.329	13.08	7.87		

Notes:

CI Curds Inlet
 HI Hardin Inlet
 HQ HQ Inlet
 LHL Lower Herrington Lake
 MHL Middle Herrington Lake
 DR Dix River

(mS/cm) microseimens per centimeter
 ft. bws Feet below water surface
 SW Surface Water
 -- no value
 DO Dissolved Oxygen

APPENDIX C: SAMPLE COLLECTION FIELD DATA SHEETS

Appendix C2: Lake Surface Water Profile Summary Table (Phase II Stratification)

Appendix C2: Lake Surface Water Profile Summary Table (Phase II Stratification)
 Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report
 E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

Sample Region	Sample Location	Stratification										
		Sample Date	Sample Time (Start)	Water Depth (ft. bws)	Turbidity (Secchi Depth (ft. bws))	Water Quality Measurement Depth (ft. bws)	Dissolved Oxygen (DO, mg/L)	Conductivity (mS/cm)	Water Temperature (c)	pH	Surface Water Sample Depth (ft. bws)	Surface Water Sample ID
Curds Inlet	CI2 (Central / Upper Curds Inlet)	June 21st, 2018	12:40 PM	8-10ft	2-3ft	0	0.65	0.220	29.74	9.03		
						2	1.18	0.220	29.77	9.35		
						4	1.48	0.206	29.71	9.30		
						6	1.32	0.297	29.30	9.31		
	CI2.1 (Central / Upper Curds Inlet)	June 21st, 2018	11:20 AM	10-12 ft	2-3ft	0	1.83	0.220	29.78	9.46		
						2	2.03	0.220	29.78	9.42		
						4	2.02	0.220	29.77	9.43		
						6	1.96	0.240	29.52	9.30		
						8	1.51	0.512	27.60	8.85		
	CI2.2	June 15th, 2018	11:00 AM	20 ft	2ft	10	10.86	0.566	26.04	8.26	10	SW001(10)-CI2.2-180616
	CI3 (Central / Lower Curds Inlet)	June 21st, 2018	10:50 AM	20 ft	2ft	0	2.72	0.220	29.84	9.36		
						2	1.98	0.220	29.86	9.29		
						4	2.10	0.220	29.85	9.23		
						6	2.07	0.235	29.36	9.14		
						8	2.17	0.350	28.70	8.95		
						10	1.70	0.629	25.85	8.55		
						12	1.38	0.570	24.25	8.34		
						14	0.57	0.584	24.43	7.92		
						16	0.51	0.510	23.68	7.79		
	18	0.31	0.520	23.62	7.62							
	CI3.1 (Central / Lower Curds Inlet)	June 16st, 2018	12:00 PM	26 ft	3ft	13	11.46	0.719	24.29	7.88	13	SW001(13)-CI3.1-180616
	CI3.2 (Central / Lower Curds Inlet)	June 21st, 2018	10:15 AM	27 ft	3ft	0	6.02	0.219	29.84	9.34		
						2	4.90	0.219	29.86	9.31		
						4	5.53	0.218	29.85	9.26		
						6	5.58	0.220	29.85	9.28		
						8	4.25	0.355	28.49	8.90		
						10	3.11	0.582	25.64	8.39		
						12	2.47	0.623	25.10	8.04		
14						1.64	0.567	24.28	7.74			
16						1.21	0.534	23.96	7.75			
18						0.58	0.475	23.39	7.56			
20						0.31	0.392	22.65	7.81			
22						0.20	0.386	22.39	7.66			
24						0.16	0.395	22.30	7.58			
26	0.15	0.402	22.36	7.54								
CI4 (Lower/ Mouth of Curds Inlet)	June 16st, 2018	1:00 PM	75-90ft	3ft	10	9.52	0.482	26.28	8.37			
					20	4.77	0.711	24.38	7.80			
					30	1.65	0.580	22.09	7.19			
					40	0.86	0.396	19.41	7.09			
					50	0.91	0.318	16.78	6.89			
					60	0.98	0.300	14.32	5.66			
					70	0.63	0.309	15.12	5.98			
80	1.23	0.313	14.19	6.08	70	SW001(70)-CI4-180616						

Appendix C2: Lake Surface Water Profile Summary Table (Phase II Stratification)
 Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report
 E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

Sample Region	Sample Location	Stratification										
		Sample Date	Sample Time (Start)	Water Depth (ft. bws)	Turbidity (Secchi Depth (ft. bws))	Water Quality Measurement Depth (ft. bws)	Dissolved Oxygen (DO, mg/L)	Conductivity (mS/cm)	Water Temperature (c)	pH	Surface Water Sample Depth (ft. bws)	Surface Water Sample ID
Lower Herrington Lake Outside Curds Inlet	HQ (HQ Inlet)	June 15th, 2018	3:30 PM	52 ft	2-3ft	0	12.57	0.205	30.52	8.90	10	SW001(10)-HQI-180615
						10	7.03	0.627	25.26	7.06		
						20	0.53	0.531	22.95	6.25		
						30	0.54	0.428	21.30	6.04		
						40	0.52	0.367	19.79	5.82		
	LHL1 (Rocky Run)	June 15th, 2018	1:20 PM	80 ft	3ft	50	0.94	0.287	16.63	5.64	10	SW001(10)-LHL1-180615
						10	6.70	0.278	25.50	7.66		
						20	4.30	0.354	22.59	7.30		
						30	2.23	0.347	21.17	6.97		
						40	0.68	0.321	19.17	6.72		
	LHL2 (Dix Dam)	June 18th, 2018	10:00 AM	190-200 ft	3-4ft	50	0.58	0.302	16.47	6.35		
						60	0.64	0.316	14.45	6.08		
						70	0.75	0.306	15.46	6.15		
						0	12.90	0.203	30.60	9.11		
						10	9.11	0.303	25.27	7.91		
						20	0.65	0.376	22.97	7.13		
						30	0.60	0.279	21.62	7.08		
						40	0.59	0.285	20.27	6.95		
						50	1.43	0.202	16.70	6.81		
						60	4.07	0.183	14.12	6.77		
						70	4.39	0.186	13.44	7.51		
						80	5.18	0.186	12.88	7.38		
						90	6.23	0.180	12.44	7.26		
						100	6.12	0.179	12.27	7.25		
						110	6.03	0.177	12.12	7.16		
						120	6.03	0.170	11.93	7.14		
						130	5.88	0.162	11.66	7.08		
	140	5.33	0.161	11.26	7.02							
	150	4.52	0.161	10.93	6.94							
	160	4.82	0.159	11.04	7.00							
	170	3.38	0.161	10.75	6.92							
	180	0.66	0.168	10.33	6.75							
	190	0.63	0.173	10.03	6.72							
	200	0.79	0.170	9.99	6.83							
	LHL3 Cove Entrance	June 15th, 2018	2:10 PM	65-80 ft	3ft	10	2.71	0.350	25.32	7.63	10	SW001(10)-LHL3-180615
						20	0.46	0.464	23.12	7.24		
						30	0.48	0.347	21.14	7.12		
						40	0.50	0.307	19.12	6.96		
						50	1.20	0.276	16.48	6.71		
	LHL6	June 15th, 2018	11:10 AM	160 ft	3ft	60	3.02	0.268	14.32	6.56	80	SW001(80)-LHL3-180615
						0	16.53	0.199	30.61	9.35		
						10	1.35	0.249	24.65	7.98		
						15	0.56	0.257	23.10	7.88		
						20	0.32	0.247	22.19	7.77		
						30	0.29	0.238	21.49	7.64		
						40	0.51	0.215	19.94	7.69		
						50	3.07	0.194	16.37	7.81	50	SW001(50)-LHL6-180617
						60	5.37	0.177	13.97	7.44		
						70	5.83	0.175	13.20	7.40		
						80	6.50	0.175	12.89	7.40		
						90	7.36	0.173	12.72	7.43		
						100	8.29	0.173	12.54	7.44	100	SW001(100)-LHL6-180617
						110	8.81	0.169	12.28	7.48		
						120	8.77	0.167	12.10	7.48		
						130	8.93	0.163	11.92	7.51		
						140	8.77	0.161	11.77	7.50		
	150	9.03	0.161	11.75	7.50							
	160	8.09	0.160	11.48	7.48							

Notes: CI: Curds Inlet
 DO: Dissolved Oxygen
 ft. bws: Feet below water surface

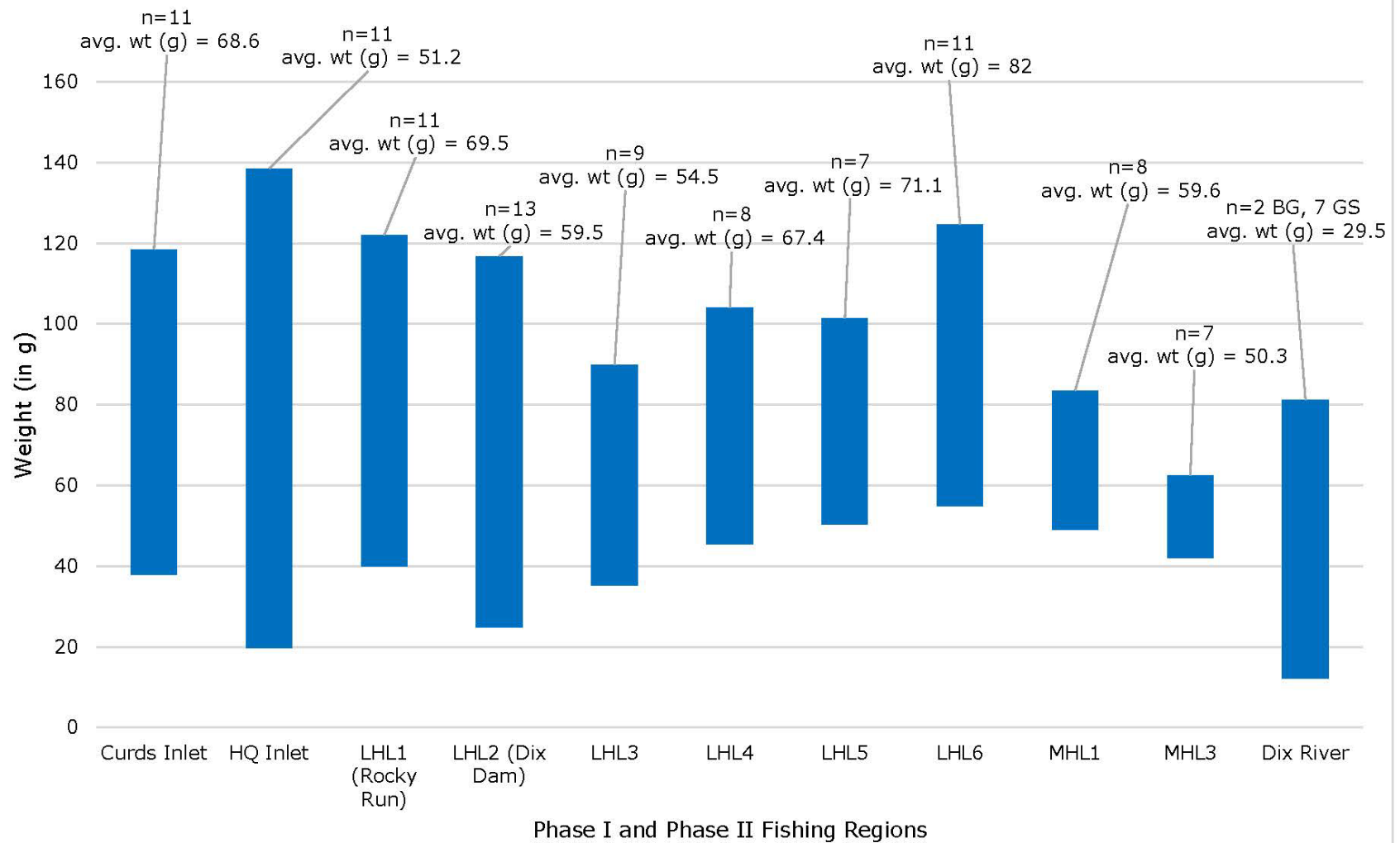
HQ: HQ Inlet
 LHL: Lower Herrington Lake
 (mS/cm):milliseimens per centimeter

SW: Surface Water
 -- : no value

Note For location LHL6, the confirmation profile is included here. It is consistent with the initial measurements but provides additional depth interval measurement data. The initial 6970v2 can be found in Appendix D3 with all other completed Surface Water Collection and Data forms.

APPENDIX C: SAMPLE COLLECTION FIELD DATA SHEETS

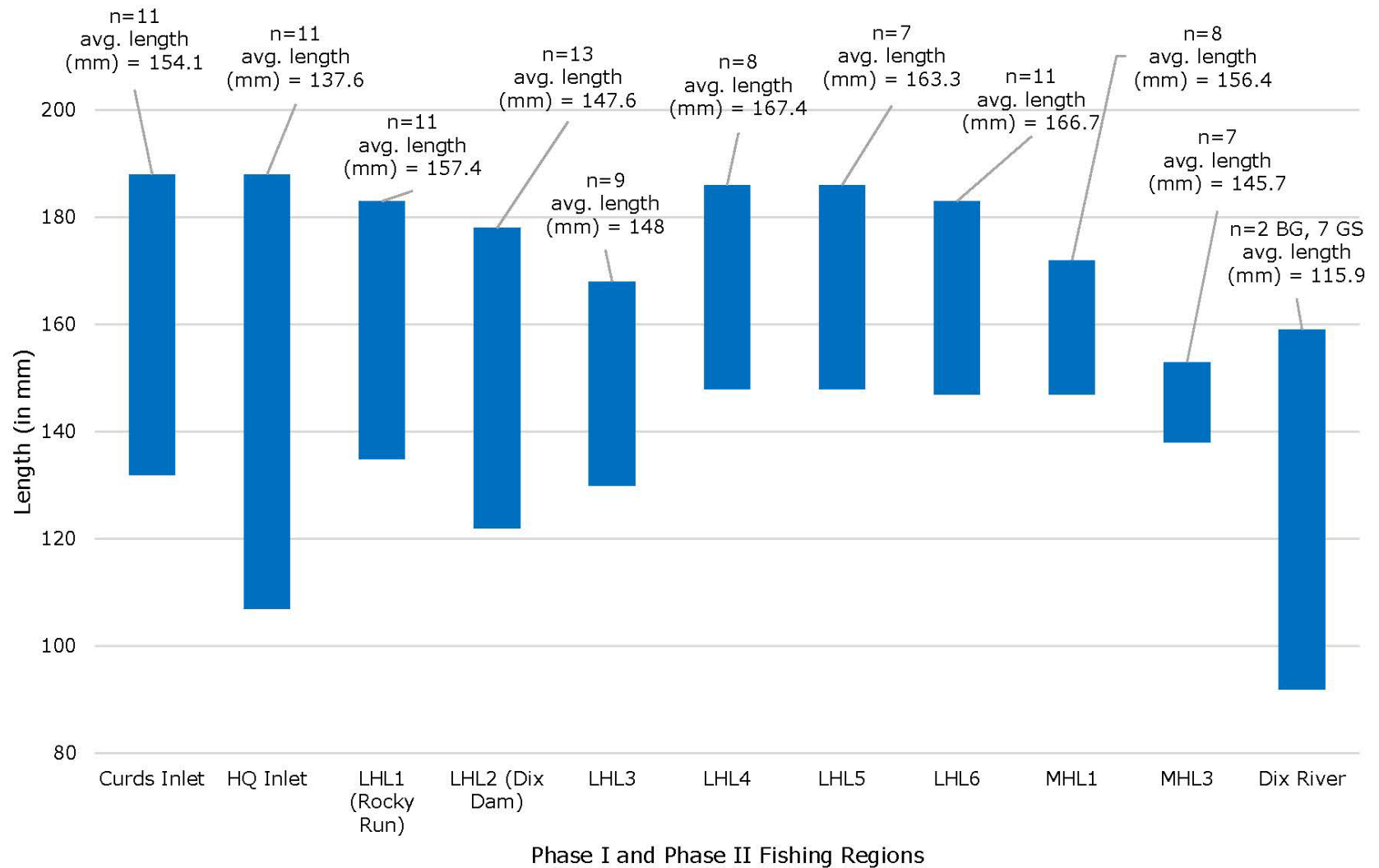
Appendix C3: Phase I and II Adult Fish Body Weight and Length Measurements



Bluegill (BG) and Green Sunfish (GS) Weight Ranges (in grams) by Fishing Region

Corrective Action Site Investigation, Source Assessment, and Risk
Assessment Report
E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

**Appendix
C3
Figure 1**

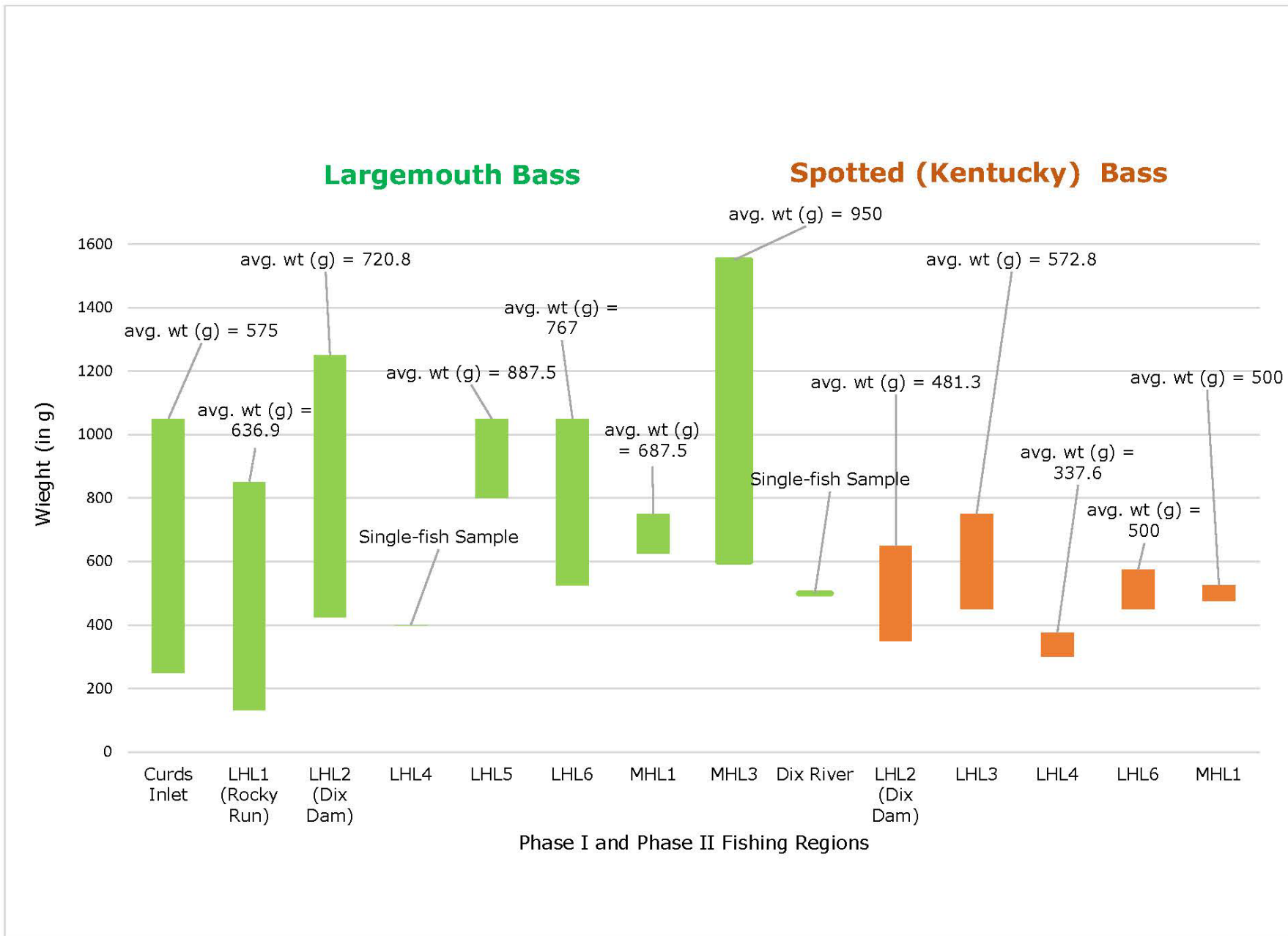


Bluegill (BG) and Green Sunfish (GS) Length Ranges (in millimeters) by Fishing Region

Corrective Action Site Investigation, Source Assessment, and Risk
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E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

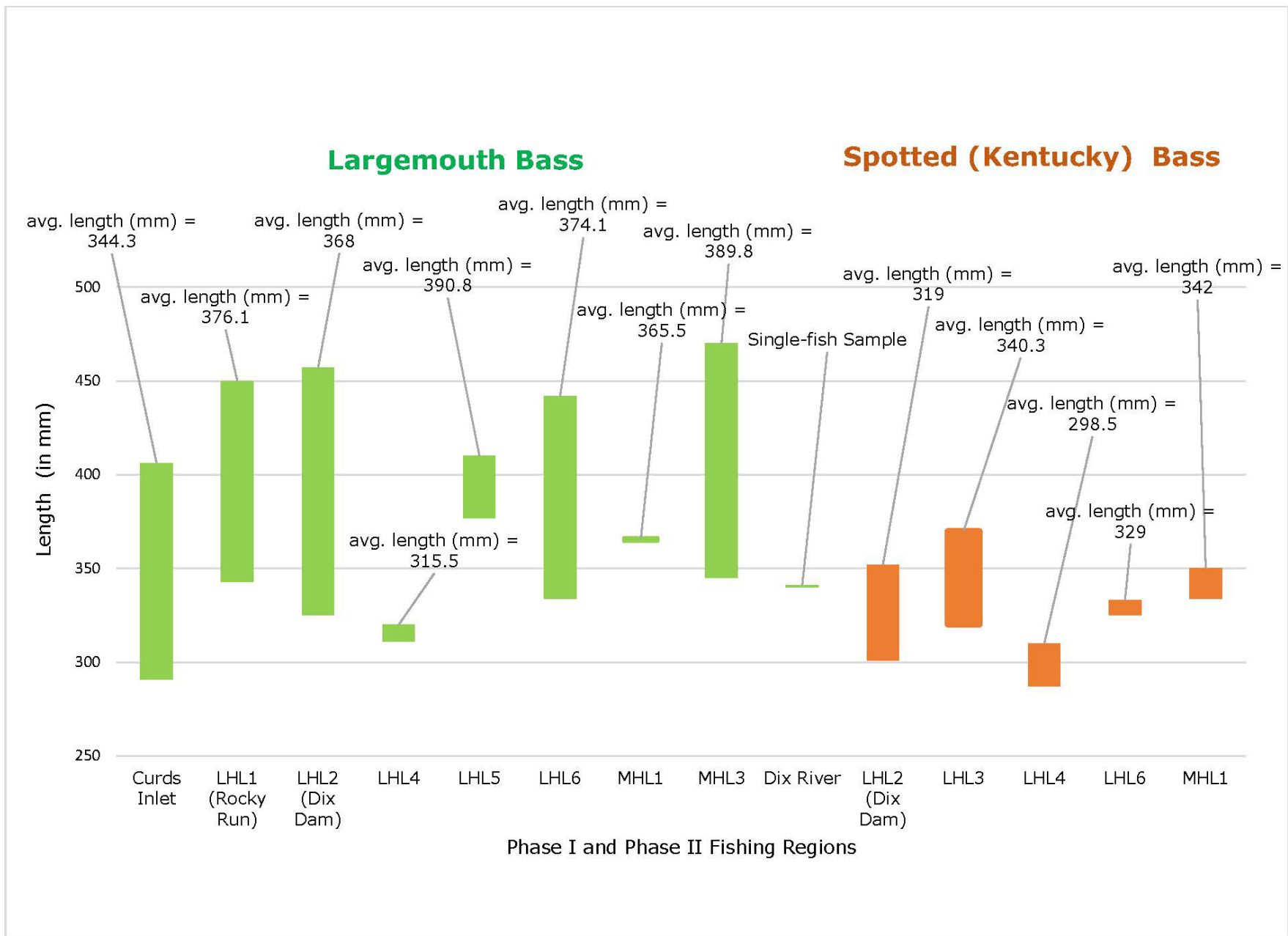
**Appendix
C3
Figure 2**



Largemouth and Spotted (Kentucky) Bass Weight Ranges (in grams) by Fish Sampling Region

Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report
 E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

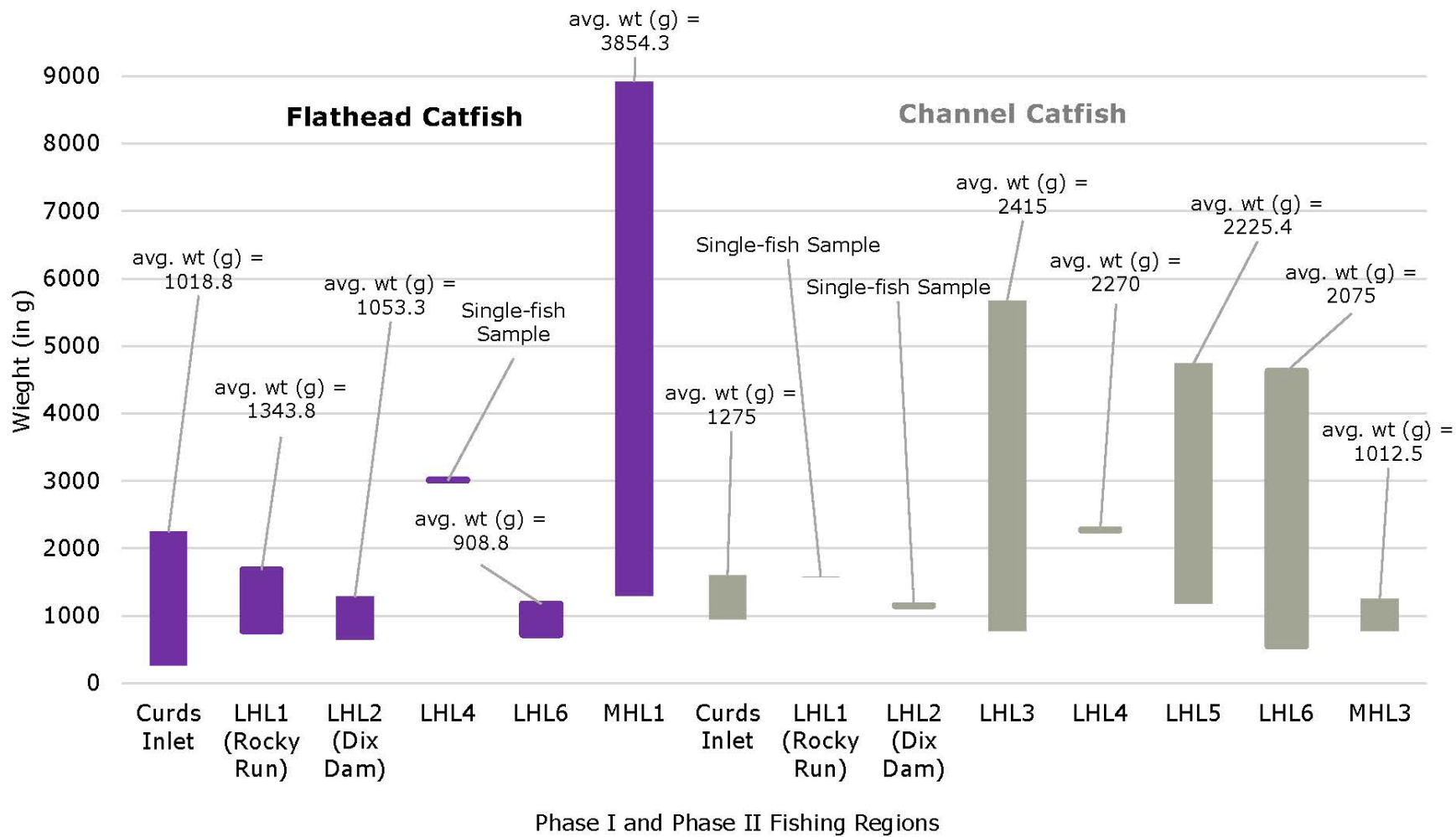
Appendix C3
Figure 3



Largemouth and Spotted (Kentucky) Bass Length Ranges (in millimeters) by Fish Sampling Region

Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report
 E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

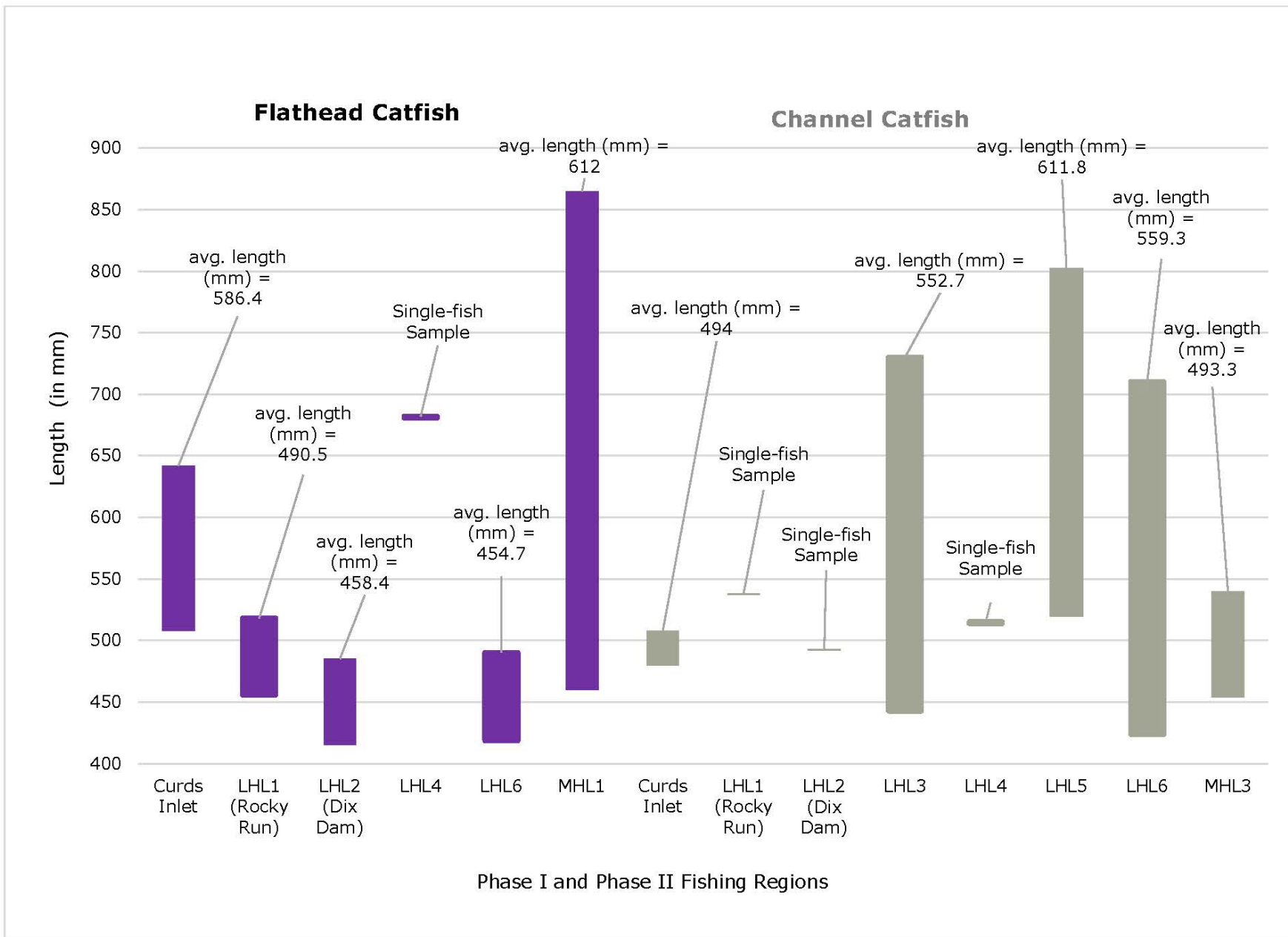
**Appendix C3
 Figure 4**



Channel and Flathead Catfish Weight Ranges (in grams) by Fish Sampling Region

Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report
E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

**Appendix C3
Figure 5**



Channel and Flathead Catfish Length Ranges (in millimeters) by Fish Sampling Region

Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report
 E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

Appendix C3
Figure 6