

MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-24-01

Stream: Dalziel Creek

date: 9/7/2008

time: 5:45 PM 7:15 PM

Datasheet Completed by:

Roger Vajda

Other Team Members

Louis Vajda

Joey Vajda

Megan Vajda

Differences Since Previously Monitored

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Substrate in Percentage</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td style="text-align: right;">10%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">20%</td></tr> <tr><td>Sand</td><td style="text-align: right;">70%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">3%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">103%</td></tr> </table>	Boulder	10%	Cobble	20%	Sand	70%	Silt/Detritus/Muck	3%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	103%																																																																																																					
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Feeding Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway/Road/Bridge Maint. Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments	Owner said creek has changed over 20 years.			
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-25-01

Stream: Ryan Creek

date: 10/4/2005

time: 1:50 PM 2:00 PM

Datasheet Completed by:

Nancy Burmeister

Other Team Members

Bill Burmeister

Differences Since Previously Monitored

First Habitat Assessment

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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<p>Potential Sources of Stream Degradation N=None; S=Slight; M=Moderate; H=High</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> </tr> <tr> <td>Crop Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Upstream Impoundment</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Golf Courses</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Grazing Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Highway,Road,Bridge</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (releases)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Intensive Animal Feeding Operations</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Land Development</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (erosion)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Highway/Road/Bridge Maint. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-25-02

Stream: Spring Creek

date: 10/2/2005

time: 11:00 AM 1:00 PM

Datasheet Completed by:

Jeff Cauffman

Other Team Members

Lisa Dysard

Differences Since Previously Monitored

Great amount of sand washed in from heavy 2004 rains - very shallow compared to previous 3

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input checked="" type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <p style="text-align: center;">None Present Abundant</p> <p>Aquatic Plants <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/></p> <p>Floating Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Fil. Algae <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Sheen/Slime <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Turbidity <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Oil Sheen <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Foam <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Trash <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p style="text-align: center;">Substrate in Percentage</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td style="text-align: right;">1%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">1%</td></tr> <tr><td>Sand</td><td style="text-align: right;">10%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">82%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">1%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">5%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	1%	Cobble	1%	Sand	10%	Silt/Detritus/Muck	82%	Hardpan/Bedrock	1%	Artificial/manmade	0%	Unknown:	5%	Total	100%
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Hardpan/Bedrock	1%																	
Artificial/manmade	0%																	
Unknown:	5%																	
Total	100%																	
Instream Cover - (check all that apply)																		
Undercut Banks <input checked="" type="checkbox"/>	Deep Pools <input type="checkbox"/>	Aquatic Plants <input checked="" type="checkbox"/>																
Overhanging Veg <input checked="" type="checkbox"/>	Boulders <input checked="" type="checkbox"/>	Logs or Woody Debris <input checked="" type="checkbox"/>																
River Morphology		Stream Corridor																
None Present Abundant		Riparian Veg. Width (L) <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100																
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Adjacent Land Uses - Left and Right Facing Downstream																		
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Shrub-old field <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Crop Residue <input type="checkbox"/> <input type="checkbox"/>	Disturbed Ground <input type="checkbox"/> <input checked="" type="checkbox"/>																
Forest <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Row Crop <input type="checkbox"/> <input type="checkbox"/>	No Vegetation <input type="checkbox"/> <input type="checkbox"/>																
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-25-03

Stream: Mitchell Creek

date: 5/10/2006

time: 9:20 AM 9:47 AM

Datasheet Completed by:

Mike Vanderhill

Other Team Members

Mike Vanderhill

Differences Since Previously Monitored

First Habitat Assessment

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. 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<input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10</p>	Undercut Banks	<input type="checkbox"/>	Deep Pools	<input type="checkbox"/>	Aquatic Plants	<input type="checkbox"/>	Overhanging Veg	<input checked="" type="checkbox"/>	Boulders	<input checked="" type="checkbox"/>	Logs or Woody Debris	<input checked="" type="checkbox"/>		None	Present	Abundant	Riffle	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pool	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Channel	<input checked="" type="checkbox"/> natural	<input type="checkbox"/> recovering	<input type="checkbox"/> maintain	Designated Drain	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	<p>Stream Corridor</p> <p>Riparian Veg. 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<p>Potential Sources of Stream Degradation N=None; S=Slight; M=Moderate; H=High</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"></td> <td style="width:10%; text-align: center;">N</td> <td style="width:10%; text-align: center;">S</td> <td style="width:10%; text-align: center;">M</td> <td style="width:10%; text-align: center;">H</td> <td style="width:30%;"></td> <td style="width:10%; text-align: center;">N</td> <td style="width:10%; text-align: center;">S</td> <td style="width:10%; text-align: center;">M</td> <td style="width:10%; text-align: center;">H</td> </tr> <tr> <td>Crop Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Upstream Impoundment</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Golf Courses</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Grazing Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Highway,Road,Bridge</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (releases)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Intensive Animal Feeding Operations</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Land Development</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Debris in Water</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Highway/Road/Bridge Maint. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 2

CID: 02-25-03

Stream: Mitchell Creek

date: 9/8/2006

time: 3:30 PM 4:05 PM

Datasheet Completed by:

Cynthia Fitzwilliams-Hec

Other Team Members

Fred Heck

Differences Since Previously Monitored

Storm event approx. 1 month previous - flooded banks deposited sand approx. 25 ft. from creek (westside)

<p align="center">Background Information</p> <p align="center">Storm Event condition</p> <p><input type="checkbox"/> None <input type="checkbox"/> Light <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p align="center">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p align="center">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>None</th> <th>Present</th> <th>Abundant</th> </tr> <tr> <td>Aquatic Plants</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p align="center">Substrate in Percentage</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Boulder</td> <td align="right">20%</td> </tr> <tr> <td>Cobble</td> <td align="right">35%</td> </tr> <tr> <td>Sand</td> <td align="right">40%</td> </tr> <tr> <td>Silt/Detritus/Muck</td> <td align="right">5%</td> </tr> <tr> <td>Hardpan/Bedrock</td> <td align="right">0%</td> </tr> <tr> <td>Artificial/manmade</td> <td align="right">0%</td> </tr> <tr> <td>Unknown:</td> <td align="right">0%</td> </tr> <tr> <td>Total</td> <td align="right">100%</td> </tr> </table>	Boulder	20%	Cobble	35%	Sand	40%	Silt/Detritus/Muck	5%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																		
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-25-04

Stream: Spring Creek

date: 5/13/2006

time: 11:00 AM 12:00 PM

Datasheet Completed by:

Jeff Cauffman

Other Team Members

Pat Aymar

Differences Since Previously Monitored

First Habitat Assessment

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-25-05

Stream: Mitchell Creek

date: 6/15/2006

time: 12:30 PM 1:00 PM

Datasheet Completed by:

Karen Bailey

Other Team Members

Anna Ferrell

Differences Since Previously Monitored

A broken drainage pipe that was eroding the bank was repaired - reported last year (2005)

Background Information				Physical Appearance			Substrate in Percentage																																														
Storm Event condition <input type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Heavy Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50 Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H				None Present Abundant Aquatic Plants <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Floating Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Fil. Algae <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Sheen/Slime <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Turbidity <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Oil Sheen <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Foam <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Trash <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>			Boulder 5% Cobble 10% Sand 79% Silt/Detritus/Muck 5% Hardpan/Bedrock 0% Artificial/manmade 1% Unknown: 0% Total 100%																																														
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 2

CID: 02-25-05

Stream: Mitchell Creek

date: 9/10/2006

time: 2:40 PM 3:25 PM

Datasheet Completed by:

Karen Bailey

Other Team Members

Bruce Bailey

Differences Since Previously Monitored

On 7/27/06 we had a flash flood in Big Rapids; much erosion of the riverbank & sand deposition occurred at this time. The high

<p>Background Information</p> <p>Storm Event condition</p> <p><input type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Heavy</p> <p>Days Since Rain <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%; text-align: center;"> <tr> <td></td> <td>None</td> <td>Present</td> <td>Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>Substrate in Percentage</p> <table style="width: 100%;"> <tr><td>Boulder</td><td style="text-align: right;">5%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">10%</td></tr> <tr><td>Sand</td><td style="text-align: right;">69%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">15%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">1%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	5%	Cobble	10%	Sand	69%	Silt/Detritus/Muck	15%	Hardpan/Bedrock	0%	Artificial/manmade	1%	Unknown:	0%	Total	100%																																																																																													
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 3

CID: 02-25-05

Stream: Mitchell Creek

date: 5/5/2007

time: 11:27 AM 12:30 PM

Datasheet Completed by:

Karen Bailey

Other Team Members

Kaleb Iltis

Kameron Iltis

Corbin Robison

Differences Since Previously Monitored

Slippery rocks & bricks & concrete blocks; bittersweet growing at bottom of clay cliff is

<p>Background Information</p> <p>Storm Event condition <input type="checkbox"/> None <input type="checkbox"/> Light <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 4

CID: 02-25-05

Stream: Mitchell Creek

date: 9/8/2007

time: 10:30 AM 11:15 AM

Datasheet Completed by:

Karen Bailey

Other Team Members

Karen Bailey

Ruth Vermeer

Gabriel Vermeer

Jonas Edge

Differences Since Previously Monitored

<p>Background Information</p> <p>Storm Event condition</p> <p><input type="checkbox"/> None <input type="checkbox"/> Light <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type</p> <p>Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>				<p>Physical Appearance</p> <p>None Present Abundant</p> <p>Aquatic Plants <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Floating Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Fil. Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Sheen/Slime <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Turbidity <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Oil Sheen <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Foam <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Trash <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p>			<p>Substrate in Percentage</p> <p>Boulder 5%</p> <p>Cobble 10%</p> <p>Sand 50%</p> <p>Silt/Detritus/Muck 20%</p> <p>Hardpan/Bedrock 0%</p> <p>Artificial/manmade 0%</p> <p>Unknown: 15%</p> <hr/> <p>Total 100%</p>																																																																																																																																																								
<p>Adjacent Land Uses - Left and Right Facing Downstream</p> <table border="0"> <tr> <td></td> <td>L</td> <td>R</td> <td></td> <td>L</td> <td>R</td> <td></td> <td>L</td> <td>R</td> </tr> <tr> <td>Wetlands</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Pasture</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Impervious Sur.</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Crop Residue</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Disturbed Ground</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Row Crop</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>No Vegetation</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Residential Lawns, Parks</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> </table>					L	R		L	R		L	R	Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input type="checkbox"/>	<input type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>				Residential Lawns, Parks	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<p>Instream Cover - (check all that apply)</p> <p>Undercut Banks <input checked="" type="checkbox"/> Deep Pools <input checked="" type="checkbox"/> Aquatic Plants <input type="checkbox"/></p> <p>Overhanging Veg <input checked="" type="checkbox"/> Boulders <input checked="" type="checkbox"/> Logs or Woody Debris <input checked="" type="checkbox"/></p>			<p>River Morphology</p> <p>None Present Abundant</p> <p>Riffle <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Pool <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Channel <input checked="" type="checkbox"/> natural <input type="checkbox"/> recovering <input type="checkbox"/> maintain</p> <p>Designated Drain <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown</p> <p>Highest Water Mark (ft)</p> <p><input type="checkbox"/> ? <input type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-5 <input checked="" type="checkbox"/> 5-10 <input type="checkbox"/> >10</p>		<p>Stream Corridor</p> <p>Riparian Veg. Width (L) <input type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input checked="" type="checkbox"/> >100</p> <p>Riparian Veg. Width (R) <input type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input checked="" type="checkbox"/> 30-100 <input type="checkbox"/> >100</p> <p>Bank Erosion <input type="checkbox"/> 0 <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input checked="" type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees</p> <p>Stream Canopy % <input type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input checked="" type="checkbox"/> >50</p>																																																																																																									
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<p>Potential Sources of Stream Degradation</p> <p>N=None; S=Slight; M=Moderate; H=High</p> <table border="0"> <tr> <td></td> <td>N</td> <td>S</td> <td>M</td> <td>H</td> <td></td> <td>N</td> <td>S</td> <td>M</td> <td>H</td> <td></td> <td>N</td> <td>S</td> <td>M</td> <td>H</td> </tr> <tr> <td>Crop Related Sources</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Upstream Impoundment</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Golf Courses</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Grazing Related Sources</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Construction: Highway,Road,Bridge</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Marinas/Recreational Boating (releases)</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Intensive Animal Feeding Operations</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Construction: Land Development</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Marinas/Recreational Boating (erosion)</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Highway/Road/Bridge Maint. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-25-07

Stream: Unnamed Tributary

date: 8/10/2008

time: 5:30 PM 8:30 PM

Datasheet Completed by:

Beth Scsavnicki

Other Team Members

Daniel Scsavnicki

Differences Since Previously Monitored

	<p align="center">Background Information</p> <p>Storm Event condition <input type="checkbox"/> None <input type="checkbox"/> Light <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">None</td> <td align="center">Present</td> <td align="center">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p align="center">Substrate in Percentage</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td align="right">10%</td></tr> <tr><td>Cobble</td><td align="right">25%</td></tr> <tr><td>Sand</td><td align="right">25%</td></tr> <tr><td>Silt/Detritus/Muck</td><td align="right">40%</td></tr> <tr><td>Hardpan/Bedrock</td><td align="right">0%</td></tr> <tr><td>Artificial/manmade</td><td align="right">0%</td></tr> <tr><td>Unknown:</td><td align="right">0%</td></tr> <tr><td>Total</td><td align="right">100%</td></tr> </table>	Boulder	10%	Cobble	25%	Sand	25%	Silt/Detritus/Muck	40%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																		
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Foam	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																						
Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																						
Boulder	10%																																																																																																																																																								
Cobble	25%																																																																																																																																																								
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Silt/Detritus/Muck	40%																																																																																																																																																								
Hardpan/Bedrock	0%																																																																																																																																																								
Artificial/manmade	0%																																																																																																																																																								
Unknown:	0%																																																																																																																																																								
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-25-08

Stream: Higginson Creek

date: 8/31/2008

time: 10:30 AM 1:00 PM

Datasheet Completed by:

Jean LaLonde

Other Team Members

Differences Since Previously Monitored

	<p align="center">Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream <input type="checkbox"/> Lake <input type="checkbox"/> Impound <input type="checkbox"/> Wetland</p> <p>Upstream <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table style="width:100%;"> <tr> <td></td> <td align="center">None</td> <td align="center">Present</td> <td align="center">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p align="center">Substrate in Percentage</p> <table style="width:100%;"> <tr> <td>Boulder</td> <td align="right">5%</td> </tr> <tr> <td>Cobble</td> <td align="right">25%</td> </tr> <tr> <td>Sand</td> <td align="right">50%</td> </tr> <tr> <td>Silt/Detritus/Muck</td> <td align="right">20%</td> </tr> <tr> <td>Hardpan/Bedrock</td> <td align="right">0%</td> </tr> <tr> <td>Artificial/manmade</td> <td align="right">0%</td> </tr> <tr> <td>Unknown:</td> <td align="right">0%</td> </tr> <tr> <td>Total</td> <td align="right">100%</td> </tr> </table>	Boulder	5%	Cobble	25%	Sand	50%	Silt/Detritus/Muck	20%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																				
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<p align="center">Adjacent Land Uses - Left and Right Facing Downstream</p> <table style="width:100%;"> <tr> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> </tr> <tr> <td>Wetlands</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Pasture</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Impervious Sur.</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Crop Residue</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Disturbed Ground</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td>Row Crop</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>No Vegetation</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td></td> <td align="center"></td> <td align="center"></td> <td>Residential Lawns, Parks</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td></td> <td align="center"></td> <td align="center"></td> </tr> </table>							L	R		L	R		L	R	Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input type="checkbox"/>	<input type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>				Residential Lawns, Parks	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																												
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Grazing Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Highway,Road,Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (releases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																													
Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																													
Highway/Road/Bridge Maint. Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																													
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Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																													
Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																													
Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																													
Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments																																																																																																																																																	

MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-25-09

Stream: Winter Creek

date: 9/25/2010

time: 10:00 AM 11:00 AM

Datasheet Completed by:

Vicki Sawicki

Other Team Members

Victor Sawicki

Gayle Sawicki

Differences Since Previously Monitored

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input type="checkbox"/> None <input type="checkbox"/> Light <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trash	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p style="text-align: center;">Substrate in Percentage</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Boulder</td><td style="text-align: right;">10%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">30%</td></tr> <tr><td>Sand</td><td style="text-align: right;">30%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">30%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	10%	Cobble	30%	Sand	30%	Silt/Detritus/Muck	30%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%
	None	Present	Abundant																																																			
Aquatic Plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																			
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Fil. Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																			
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Boulder	10%																																																					
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Silt/Detritus/Muck	30%																																																					
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Unknown:	0%																																																					
Total	100%																																																					
Instream Cover - (check all that apply)																																																						
<p>Undercut Banks <input checked="" type="checkbox"/></p> <p>Overhanging Veg <input checked="" type="checkbox"/></p>	<p>Deep Pools <input checked="" type="checkbox"/></p> <p>Boulders <input checked="" type="checkbox"/></p>	<p>Aquatic Plants <input type="checkbox"/></p> <p>Logs or Woody Debris <input checked="" type="checkbox"/></p>																																																				
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<p>Riffle <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Pool <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Channel <input checked="" type="checkbox"/> natural <input type="checkbox"/> recovering <input type="checkbox"/> maintain</p> <p>Designated Drain <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown</p>	<p>Riparian Veg. Width (L) <input type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input checked="" type="checkbox"/> 30-100 <input type="checkbox"/> >100</p> <p>Riparian Veg. Width (R) <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100</p> <p>Bank Erosion <input type="checkbox"/> 0 <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input checked="" type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees</p> <p>Stream Canopy % <input type="checkbox"/> <25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p>																																																					
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<input type="checkbox"/> ? <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10																																																						

Adjacent Land Uses - Left and Right Facing Downstream

	L	R	L	R	L	R		
Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>
Shrub-old field	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>
Forest	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>
	Residential Lawns, Parks		<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Potential Sources of Stream Degradation

N=None; S=Slight; M=Moderate; H=High

	N	S	M	H		N	S	M	H		N	S	M	H
Crop Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Upstream Impoundment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Golf Courses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Grazing Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Highway,Road,Bridge	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (releases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Highway/Road/Bridge Maint. Runoff	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channelization	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Removal of Riparian Vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Additional Comments				

MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-25-10

Stream: Ives Ave. Creek

date: 9/15/2010

time: 9:50 AM 11:15 AM

Datasheet Completed by:

Cynthia Fitzwilliams-Hec

Other Team Members

Differences Since Previously Monitored

	<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input type="checkbox"/> clear <input type="checkbox"/> gray <input checked="" type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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Width (L) <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100</p> <p>Riparian Veg. Width (R) <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100</p> <p>Bank Erosion <input type="checkbox"/> 0 <input type="checkbox"/> L <input type="checkbox"/> M <input checked="" type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input type="checkbox"/> grass <input type="checkbox"/> shrub <input checked="" type="checkbox"/> trees</p> <p>Stream Canopy % <input type="checkbox"/> <25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fil. 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Grazing Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Highway,Road,Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																											
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Highway/Road/Bridge Maint. Runoff	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Urban Runoff	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																											
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Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																											
Removal of Riparian Vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																											
Band-Shoreline Erosion/Mod/Destruc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																											
Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																											
					Golf Courses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																											
					Marinas/Recreational Boating (releases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																											
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					Debris in Water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																											
					Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																											
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					Natural Sources	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																											
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-26-01

Stream: Betts Creek

date: 9/30/2005

time: 1:30 PM 3:40 PM

Datasheet Completed by:

Stephen Ross

Other Team Members

Bill Burmeister

Nancy Burmeister

Differences Since Previously Monitored

First Habitat Assessment

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input type="checkbox"/> None <input type="checkbox"/> Light <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-26-02

Stream: Rosy Run

date: 10/4/2005

time: 12:40 PM 2:40 PM

Datasheet Completed by:

Stephen Ross

Other Team Members

Differences Since Previously Monitored

First Habitat Assessment

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																								
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Boulder	0%																																																																																																																																																										
Cobble	75%																																																																																																																																																										
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 02-26-03
 Stream: Bennett Creek
 date: 5/11/2006
 time: 4:45 PM

Datasheet Completed by:
 Linda Sanderson
Other Team Members

Differences Since Previously Monitored
 First Habitat Assessment

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. 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<p>Potential Sources of Stream Degradation</p> <p style="text-align: center;">N=None; S=Slight; M=Moderate; H=High</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> </tr> <tr> <td>Crop Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Upstream Impoundment</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Golf Courses</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Grazing Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Highway,Road,Bridge</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (releases)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Intensive Animal Feeding Operations</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Land Development</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (erosion)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Highway/Road/Bridge Maint. 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type="checkbox"/></td> <td>Additional Comments</td> <td colspan="4"></td> </tr> </table>										N	S	M	H		N	S	M	H		N	S	M	H	Crop Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Upstream Impoundment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Golf Courses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grazing Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Highway,Road,Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (releases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway/Road/Bridge Maint. Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Band-Shoreline Erosion/Mod/Destruc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments				
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 03-05-01

Stream: West Branch Muskego

date: 6/16/2006

time: 10:30 AM 12:30 PM

Datasheet Completed by:

Landon Griffith

Other Team Members

Charlotte Griffith

Differences Since Previously Monitored

First assessment.

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <p style="text-align: center;">None Present Abundant</p> <p>Aquatic Plants <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Floating Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Fil. Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Sheen/Slime <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Turbidity <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Oil Sheen <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Foam <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Trash <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p style="text-align: center;">Substrate in Percentage</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td style="text-align: right;">40%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">5%</td></tr> <tr><td>Sand</td><td style="text-align: right;">5%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">40%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">5%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">5%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	40%	Cobble	5%	Sand	5%	Silt/Detritus/Muck	40%	Hardpan/Bedrock	0%	Artificial/manmade	5%	Unknown:	5%	Total	100%
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Cobble	5%																	
Sand	5%																	
Silt/Detritus/Muck	40%																	
Hardpan/Bedrock	0%																	
Artificial/manmade	5%																	
Unknown:	5%																	
Total	100%																	
Instream Cover - (check all that apply)																		
Undercut Banks <input checked="" type="checkbox"/>	Deep Pools <input checked="" type="checkbox"/>	Aquatic Plants <input checked="" type="checkbox"/>																
Overhanging Veg <input checked="" type="checkbox"/>	Boulders <input checked="" type="checkbox"/>	Logs or Woody Debris <input checked="" type="checkbox"/>																
River Morphology		Stream Corridor																
None Present Abundant		Riparian Veg. <input type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input checked="" type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (L)																
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Adjacent Land Uses - Left and Right Facing Downstream																		
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Residential Lawns, Parks <input checked="" type="checkbox"/> <input type="checkbox"/>																		
Potential Sources of Stream Degradation																		
N=None; S=Slight; M=Moderate; H=High																		
N S M H	N S M H	N S M H																
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Flow Regulation/Modification <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Recreational/Tourism Activities <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Additional Comments																

MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 03-13-01

Stream: Clam River

date: 6/10/2006

time: 8:00 AM 11:30 AM

Datasheet Completed by:

Dale Bogard

Other Team Members

Differences Since Previously Monitored

first time monitoring

	<p align="center">Background Information</p> <p align="center">Storm Event condition</p> <p><input type="checkbox"/> None <input type="checkbox"/> Light <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p align="center">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p align="center">Water Body Type</p> <p>Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <p>None Present Abundant</p> <p>Aquatic Plants <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Floating Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Fil. Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Sheen/Slime <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Turbidity <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Oil Sheen <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Foam <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Trash <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p align="center">Substrate in Percentage</p> <p>Boulder 0%</p> <p>Cobble 0%</p> <p>Sand 98%</p> <p>Silt/Detritus/Muck 2%</p> <p>Hardpan/Bedrock 0%</p> <p>Artificial/manmade 0%</p> <p>Unknown: 0%</p> <hr/> <p>Total 100%</p>																																																																																																																																																						
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		<p align="center">River Morphology</p> <p>None Present Abundant</p> <p>Riffle <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Pool <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Channel <input checked="" type="checkbox"/> natural <input type="checkbox"/> recovering <input type="checkbox"/> maintain</p> <p>Designated Drain <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown</p> <p align="center">Highest Water Mark (ft)</p> <p><input type="checkbox"/> ? <input type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input checked="" type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10</p>	<p align="center">Stream Corridor</p> <p>Riparian Veg. Width (L) <input type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input checked="" type="checkbox"/> >100</p> <p>Riparian Veg. Width (R) <input type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input checked="" type="checkbox"/> >100</p> <p>Bank Erosion <input type="checkbox"/> 0 <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input checked="" type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees</p> <p>Stream Canopy % <input checked="" type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p>																																																																																																																																																						
<p align="center">Adjacent Land Uses - Left and Right Facing Downstream</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> </tr> <tr> <td>Wetlands</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td>Pasture</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Impervious Sur.</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td>Crop Residue</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Disturbed Ground</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Row Crop</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>No Vegetation</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Residential Lawns, Parks</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> </table>					L	R		L	R		L	R	Wetlands	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>				Residential Lawns, Parks	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																												
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 03-13-02

Stream: Clam River

date: 9/10/2006

time: 1:26 PM 4:30 PM

Datasheet Completed by:

Randy Mellberg

Other Team Members

Josh Mellberg

Andrew McKay

Faith Swanberg

Differences Since Previously Monitored

First time.

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input type="checkbox"/> clear <input type="checkbox"/> gray <input checked="" type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input checked="" type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fil. Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Substrate in Percentage</p> <table style="width: 100%;"> <tr><td>Boulder</td><td style="text-align: right;">0%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">5%</td></tr> <tr><td>Sand</td><td style="text-align: right;">10%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">45%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">40%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	0%	Cobble	5%	Sand	10%	Silt/Detritus/Muck	45%	Hardpan/Bedrock	40%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																								
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(check all that apply)</p> <p>Undercut Banks <input checked="" type="checkbox"/> Deep Pools <input checked="" type="checkbox"/> Aquatic Plants <input checked="" type="checkbox"/></p> <p>Overhanging Veg <input checked="" type="checkbox"/> Boulders <input type="checkbox"/> Logs or Woody Debris <input checked="" type="checkbox"/></p>	<p>River Morphology</p> <table style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Riffle</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Pool</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Channel</td> <td style="text-align: center;"><input checked="" type="checkbox"/> natural</td> <td style="text-align: center;"><input type="checkbox"/> recovering</td> <td style="text-align: center;"><input type="checkbox"/> maintain</td> </tr> <tr> <td>Designated Drain</td> <td colspan="3" style="text-align: center;"><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown</td> </tr> <tr> <td colspan="4" style="text-align: center;">Highest Water Mark (ft)</td> </tr> <tr> <td><input type="checkbox"/> ?</td> <td style="text-align: center;"><input type="checkbox"/> <1</td> <td style="text-align: center;"><input checked="" type="checkbox"/> 1-3</td> <td style="text-align: center;"><input type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10</td> </tr> </table>		None	Present	Abundant	Riffle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pool	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Channel	<input checked="" type="checkbox"/> natural	<input type="checkbox"/> recovering	<input type="checkbox"/> maintain	Designated Drain	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown			Highest Water Mark (ft)				<input type="checkbox"/> ?	<input type="checkbox"/> <1	<input checked="" type="checkbox"/> 1-3	<input type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10	<p>Stream Corridor</p> <p>Riparian Veg. 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<p>Potential Sources of Stream Degradation N=None; S=Slight; M=Moderate; H=High</p> <table style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> </tr> <tr> <td>Crop Related Sources</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Upstream Impoundment</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Golf Courses</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Grazing Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Highway,Road,Bridge</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (releases)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Intensive Animal Feeding Operations</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Land Development</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (erosion)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Highway/Road/Bridge Maint. 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type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway/Road/Bridge Maint. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 03-15-01

Stream: Middle Branch Clam R

date: 6/11/2006

time: 8:00 AM 11:00 AM

Datasheet Completed by:

Dale Bogard

Other Team Members

Differences Since Previously Monitored

First Assessment

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p style="text-align: center;">Substrate in Percentage</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td style="text-align: right;">0%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">25%</td></tr> <tr><td>Sand</td><td style="text-align: right;">35%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">35%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">5%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	0%	Cobble	25%	Sand	35%	Silt/Detritus/Muck	35%	Hardpan/Bedrock	5%	Artificial/manmade	0%	Unknown:	0%	Total	100%
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Adjacent Land Uses - Left and Right Facing Downstream																																																						
L R L R L R																																																						
Wetlands <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Pasture <input type="checkbox"/> <input type="checkbox"/> Impervious Sur. <input type="checkbox"/> <input type="checkbox"/>																																																						
Shrub-old field <input type="checkbox"/> <input type="checkbox"/> Crop Residue <input type="checkbox"/> <input type="checkbox"/> Disturbed Ground <input type="checkbox"/> <input type="checkbox"/>																																																						
Forest <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Row Crop <input type="checkbox"/> <input type="checkbox"/> No Vegetation <input type="checkbox"/> <input type="checkbox"/>																																																						
Residential Lawns, Parks <input type="checkbox"/> <input type="checkbox"/>																																																						
Potential Sources of Stream Degradation																																																						
N=None; S=Slight; M=Moderate; H=High																																																						
Crop Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Upstream Impoundment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Golf Courses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Grazing Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Highway,Road,Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (releases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Highway/Road/Bridge Maint. Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																								
Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments	Some stream impact due to recent beaver dam built and subsequent removal.																																											

MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 04-29-01

Stream: Little Muskegon River

date: 9/8/2006

time: 1:15 PM 2:30 PM

Datasheet Completed by:

Margaret Feravich

Other Team Members

Lorissa Feravich

Differences Since Previously Monitored

	<p align="center">Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">None</td> <td align="center">Present</td> <td align="center">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p align="center">Substrate in Percentage</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td align="right">2%</td></tr> <tr><td>Cobble</td><td align="right">60%</td></tr> <tr><td>Sand</td><td align="right">20%</td></tr> <tr><td>Silt/Detritus/Muck</td><td align="right">13%</td></tr> <tr><td>Hardpan/Bedrock</td><td align="right">5%</td></tr> <tr><td>Artificial/manmade</td><td align="right">0%</td></tr> <tr><td>Unknown:</td><td align="right">0%</td></tr> <tr><td>Total</td><td align="right">100%</td></tr> </table>	Boulder	2%	Cobble	60%	Sand	20%	Silt/Detritus/Muck	13%	Hardpan/Bedrock	5%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																		
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<p align="center">Adjacent Land Uses - Left and Right Facing Downstream</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> </tr> <tr> <td>Wetlands</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Pasture</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Impervious Sur.</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td>Crop Residue</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Disturbed Ground</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td>Row Crop</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>No Vegetation</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td></td> <td align="center"></td> <td align="center"></td> <td>Residential Lawns, Parks</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td></td> <td align="center"></td> <td align="center"></td> </tr> </table>					L	R		L	R		L	R	Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>				Residential Lawns, Parks	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																												
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type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway/Road/Bridge Maint. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 04-31-01

Stream: Tamarack Creek

date: 5/6/2006

time: 3:30 PM 4:45 PM

Datasheet Completed by:

Lee Olsen

Other Team Members

Karlee Olsen

Differences Since Previously Monitored

First Habitat Assessment

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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Streamside Land Cover <input type="checkbox"/> bare <input checked="" type="checkbox"/> grass <input type="checkbox"/> shrub <input checked="" type="checkbox"/> trees																																																						
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Removal of Riparian Vegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																													
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Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																													
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					Marinas/Recreational Boating (releases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																													
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					Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																													
					Additional Comments																																																	

MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 04-31-02

Stream: Rice Creek

date: 5/6/2006

time: 11:00 AM 12:10 PM

Datasheet Completed by:

Lee Olsen

Other Team Members

Karlee Olsen

Differences Since Previously Monitored

First Habitat Assessment

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <p style="text-align: center;">None Present Abundant</p> <p>Aquatic Plants <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Floating Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Fil. Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Sheen/Slime <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Turbidity <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Oil Sheen <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Foam <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Trash <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p style="text-align: center;">Substrate in Percentage</p> <p>Boulder 0%</p> <p>Cobble 30%</p> <p>Sand 50%</p> <p>Silt/Detritus/Muck 20%</p> <p>Hardpan/Bedrock 0%</p> <p>Artificial/manmade 0%</p> <p>Unknown: 0%</p> <hr/> <p>Total 100%</p>																																														
<p style="text-align: center;">Adjacent Land Uses - Left and Right Facing Downstream</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">L</td> <td style="text-align: center;">R</td> <td></td> <td style="text-align: center;">L</td> <td style="text-align: center;">R</td> <td></td> <td style="text-align: center;">L</td> <td style="text-align: center;">R</td> </tr> <tr> <td>Wetlands</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Pasture</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Impervious Sur.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Crop Residue</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Disturbed Ground</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Row Crop</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>No Vegetation</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center;">Residential Lawns, Parks</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td colspan="4"></td> </tr> </table>		L	R		L	R		L	R	Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input type="checkbox"/>	<input type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>		Residential Lawns, Parks		<input type="checkbox"/>	<input type="checkbox"/>					<p style="text-align: center;">Instream Cover - (check all that apply)</p> <p>Undercut Banks <input checked="" type="checkbox"/> Deep Pools <input checked="" type="checkbox"/> Aquatic Plants <input type="checkbox"/></p> <p>Overhanging Veg <input checked="" type="checkbox"/> Boulders <input type="checkbox"/> Logs or Woody Debris <input checked="" type="checkbox"/></p>	<p style="text-align: center;">River Morphology</p> <p style="text-align: center;">None Present Abundant</p> <p>Riffle <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Pool <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Channel <input checked="" type="checkbox"/> natural <input type="checkbox"/> recovering <input type="checkbox"/> maintain</p> <p>Designated Drain <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown</p> <p style="text-align: center;">Highest Water Mark (ft)</p> <p><input type="checkbox"/> ? <input type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-5 <input checked="" type="checkbox"/> 5-10 <input type="checkbox"/> >10</p>	<p style="text-align: center;">Stream Corridor</p> <p>Riparian Veg. Width (L) <input type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input checked="" type="checkbox"/> >100</p> <p>Riparian Veg. Width (R) <input type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input checked="" type="checkbox"/> 30-100 <input type="checkbox"/> >100</p> <p>Bank Erosion <input type="checkbox"/> 0 <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input checked="" type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees</p> <p>Stream Canopy % <input type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input checked="" type="checkbox"/> >50</p>
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Removal of Riparian Vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																							
Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																							
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					Additional Comments																																											

MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 04-31-03

Stream: Indian Creek

date: 9/10/2006

time: 5:00 PM 5:45 PM

Datasheet Completed by:

Margaret Feravich

Other Team Members

Lorissa Feravich

Differences Since Previously Monitored

	<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p style="text-align: center;">Substrate in Percentage</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Boulder</td><td style="text-align: right;">0%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">0%</td></tr> <tr><td>Sand</td><td style="text-align: right;">20%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">80%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	0%	Cobble	0%	Sand	20%	Silt/Detritus/Muck	80%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																		
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 05-37-01

Stream: Cedar Creek

date: 9/13/2009

time: 9:15 AM 12:45 PM

Datasheet Completed by:

Diane Leafers

Other Team Members

Jon Renkenberger

Differences Since Previously Monitored

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input checked="" type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Floating Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Substrate in Percentage</p> <table style="width: 100%;"> <tr><td>Boulder</td><td style="text-align: right;">0%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">5%</td></tr> <tr><td>Sand</td><td style="text-align: right;">60%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">35%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	0%	Cobble	5%	Sand	60%	Silt/Detritus/Muck	35%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																		
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<p>River Morphology</p> <table style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Riffle</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Pool</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Channel</td> <td style="text-align: center;"><input checked="" type="checkbox"/> natural</td> <td style="text-align: center;"><input type="checkbox"/> recovering</td> <td style="text-align: center;"><input type="checkbox"/> maintain</td> </tr> <tr> <td>Designated Drain</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> <td style="text-align: center;"><input checked="" type="checkbox"/> Unknown</td> </tr> </table> <p>Highest Water Mark (ft) <input type="checkbox"/> ? <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10</p>				None	Present	Abundant	Riffle	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pool	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Channel	<input checked="" type="checkbox"/> natural	<input type="checkbox"/> recovering	<input type="checkbox"/> maintain	Designated Drain	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Unknown																																																																																																																																		
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<p>Potential Sources of Stream Degradation N=None; S=Slight; M=Moderate; H=High</p> <table style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> </tr> <tr> <td>Crop Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Upstream Impoundment</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Golf Courses</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Grazing Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Highway,Road,Bridge</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (releases)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Intensive Animal Feeding Operations</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Land Development</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (erosion)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Highway/Road/Bridge Maint. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment

CID: 05-38-01

Stream: Muskegon River-Middl

date: 5/27/2010

time: 9:00 AM 11:00 AM

Datasheet Completed by:

Robert Wygant

Other Team Members

Les Tillema

Differences Since Previously Monitored

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Substrate in Percentage</p> <table style="width: 100%;"> <tr><td>Boulder</td><td style="text-align: right;">1%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">5%</td></tr> <tr><td>Sand</td><td style="text-align: right;">84%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">10%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	1%	Cobble	5%	Sand	84%	Silt/Detritus/Muck	10%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																		
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-34-01

Stream: Bigelow Creek

date: 5/23/2006

time: 11:50 AM 12:15 PM

Datasheet Completed by:

Stephen Ross

Other Team Members

Linda Sanderson

Differences Since Previously Monitored

First Habitat Assessment

<p>Background Information</p> <p>Storm Event condition <input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%;"> <tr> <th></th> <th>None</th> <th>Present</th> <th>Abundant</th> </tr> <tr> <td>Aquatic Plants</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Substrate in Percentage</p> <table style="width: 100%;"> <tr> <td>Boulder</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>Cobble</td> <td style="text-align: right;">2%</td> </tr> <tr> <td>Sand</td> <td style="text-align: right;">98%</td> </tr> <tr> <td>Silt/Detritus/Muck</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>Hardpan/Bedrock</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>Artificial/manmade</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>Unknown:</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>Total</td> <td style="text-align: right;">100%</td> </tr> </table>	Boulder	0%	Cobble	2%	Sand	98%	Silt/Detritus/Muck	0%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																						
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-34-02

Stream: Bigelow Creek

date: 5/23/2006

time: 12:30 PM 1:05 PM

Datasheet Completed by:

Stephen Ross

Other Team Members

Linda Sanderson

Differences Since Previously Monitored

First Habitat Assessment

<p align="center">Background Information</p> <p align="center">Storm Event condition</p> <p><input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p align="center">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p align="center">Water Body Type</p> <p>Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">None</td> <td align="center">Present</td> <td align="center">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table> <p align="center">Substrate in Percentage</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td align="right">0%</td></tr> <tr><td>Cobble</td><td align="right">2%</td></tr> <tr><td>Sand</td><td align="right">98%</td></tr> <tr><td>Silt/Detritus/Muck</td><td align="right">0%</td></tr> <tr><td>Hardpan/Bedrock</td><td align="right">0%</td></tr> <tr><td>Artificial/manmade</td><td align="right">0%</td></tr> <tr><td>Unknown:</td><td align="right">0%</td></tr> <tr><td>Total</td><td align="right">100%</td></tr> </table> <p align="center">Instream Cover - (check all that apply)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Undercut Banks</td> <td align="center"><input checked="" type="checkbox"/></td> <td>Deep Pools</td> <td align="center"><input checked="" type="checkbox"/></td> <td>Aquatic Plants</td> <td align="center"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Overhanging Veg</td> <td align="center"><input checked="" type="checkbox"/></td> <td>Boulders</td> <td align="center"><input type="checkbox"/></td> <td>Logs or Woody Debris</td> <td align="center"><input checked="" type="checkbox"/></td> </tr> </table> <p align="center">River Morphology</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">None</td> <td align="center">Present</td> <td align="center">Abundant</td> </tr> <tr> <td>Riffle</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Pool</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Channel</td> <td align="center"><input checked="" type="checkbox"/> natural</td> <td align="center"><input type="checkbox"/> recovering</td> <td align="center"><input type="checkbox"/> maintain</td> </tr> <tr> <td>Designated Drain</td> <td align="center"><input type="checkbox"/> Yes</td> <td align="center"><input checked="" type="checkbox"/> No</td> <td align="center"><input type="checkbox"/> Unknown</td> </tr> </table> <p align="center">Stream Corridor</p> <p>Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (L)</p> <p>Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (R)</p> <p>Bank Erosion <input type="checkbox"/> 0 <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees</p> <p>Stream Canopy % <input checked="" type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. 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border-collapse: collapse;"> <tr> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> </tr> <tr> <td>Wetlands</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Pasture</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Impervious Sur.</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Crop Residue</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Disturbed Ground</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td>Row Crop</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>No Vegetation</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td></td> <td align="center"></td> <td align="center"></td> <td>Residential Lawns, Parks</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td></td> <td align="center"></td> <td align="center"></td> </tr> </table> <p align="center">Potential Sources of Stream Degradation N=None; S=Slight; M=Moderate; H=High</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">N</td> <td align="center">S</td> <td align="center">M</td> <td align="center">H</td> <td></td> <td align="center">N</td> <td align="center">S</td> <td align="center">M</td> <td align="center">H</td> <td></td> <td align="center">N</td> <td align="center">S</td> <td align="center">M</td> <td align="center">H</td> </tr> <tr> <td>Crop Related Sources</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Upstream Impoundment</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Golf Courses</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Grazing Related Sources</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Construction: Highway,Road,Bridge</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (releases)</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Intensive Animal Feeding Operations</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Construction: Land Development</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (erosion)</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Highway/Road/Bridge Maint. 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Very little exposed stones in any part of the</td> </tr> </table>		L	R		L	R		L	R	Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input type="checkbox"/>	<input type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>				Residential Lawns, Parks	<input type="checkbox"/>	<input type="checkbox"/>					N	S	M	H		N	S	M	H		N	S	M	H	Crop Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Upstream Impoundment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Golf Courses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grazing Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Highway,Road,Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (releases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway/Road/Bridge Maint. 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Crop Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Upstream Impoundment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Golf Courses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																											
Grazing Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Highway,Road,Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (releases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																											
Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																											
Highway/Road/Bridge Maint. Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																											
Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																											
Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																											
Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																											
Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																																																											
Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments	Stream fully in stream channel. Channel almost entirely of clean sand with silt/debris only in areas of sand scalloping in channel. Very little exposed stones in any part of the																																																																																																																																																																																																																																																																														

MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-34-03

Stream: Bigelow Creek

date: 5/23/2006

time: 2:10 PM 2:40 PM

Datasheet Completed by:

Stephen Ross

Other Team Members

Linda Sanderson

Differences Since Previously Monitored

First Habitat Assessment

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p style="text-align: center;">Substrate in Percentage</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td style="text-align: right;">0%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">2%</td></tr> <tr><td>Sand</td><td style="text-align: right;">98%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">0%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	0%	Cobble	2%	Sand	98%	Silt/Detritus/Muck	0%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%
	None	Present	Abundant																																																			
Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																			
Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																			
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Instream Cover - (check all that apply)																																																						
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River Morphology																																																						
None Present Abundant																																																						
Riffle <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																				
Pool <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																				
Channel <input checked="" type="checkbox"/> natural	<input type="checkbox"/> recovering	<input type="checkbox"/> maintain																																																				
Designated Drain <input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown																																																				
Highest Water Mark (ft)																																																						
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Bank Erosion <input type="checkbox"/> 0	<input checked="" type="checkbox"/> L	<input type="checkbox"/> M <input type="checkbox"/> H																																																				
Streamside Land Cover <input type="checkbox"/> bare	<input type="checkbox"/> grass	<input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees																																																				
Stream Canopy % <input checked="" type="checkbox"/> <25	<input type="checkbox"/> 25-50	<input type="checkbox"/> >50																																																				
Potential Sources of Stream Degradation																																																						
N=None; S=Slight; M=Moderate; H=High																																																						
	N	S	M	H		N	S	M	H		N	S	M	H																																								
Crop Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Upstream Impoundment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Golf Courses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
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Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
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Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-34-04

Stream: Bigelow Creek

date: 5/23/2006

time: 2:45 PM 3:15 PM

Datasheet Completed by:

Stephen Ross

Other Team Members

Linda Sanderson

Differences Since Previously Monitored

First Habitat Assessment

<p>Background Information</p> <p>Storm Event condition</p> <input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color</p> <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green <p>Water Body Type</p> <p>Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <p>None Present Abundant</p> <p>Aquatic Plants <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Floating Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Fil. Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Sheen/Slime <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Turbidity <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Oil Sheen <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Foam <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Trash <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>Substrate in Percentage</p> <p>Boulder 0%</p> <p>Cobble 2%</p> <p>Sand 98%</p> <p>Silt/Detritus/Muck 0%</p> <p>Hardpan/Bedrock 0%</p> <p>Artificial/manmade 0%</p> <p>Unknown: 0%</p> <p>Total 100%</p>																																																																																																																																																						
	<p>Instream Cover - (check all that apply)</p> <p>Undercut Banks <input checked="" type="checkbox"/> Deep Pools <input checked="" type="checkbox"/> Aquatic Plants <input checked="" type="checkbox"/></p> <p>Overhanging Veg <input checked="" type="checkbox"/> Boulders <input type="checkbox"/> Logs or Woody Debris <input checked="" type="checkbox"/></p>	<p>River Morphology</p> <p>None Present Abundant</p> <p>Riffle <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Pool <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Channel <input checked="" type="checkbox"/> natural <input type="checkbox"/> recovering <input type="checkbox"/> maintain</p> <p>Designated Drain <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown</p> <p>Highest Water Mark (ft)</p> <input checked="" type="checkbox"/> ? <input type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10	<p>Stream Corridor</p> <p>Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (L)</p> <p>Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (R)</p> <p>Bank Erosion <input type="checkbox"/> 0 <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees</p> <p>Stream Canopy % <input checked="" type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p>																																																																																																																																																					
	<p>Adjacent Land Uses - Left and Right Facing Downstream</p> <table border="0"> <tr> <td></td> <td>L</td> <td>R</td> <td></td> <td>L</td> <td>R</td> <td></td> <td>L</td> <td>R</td> </tr> <tr> <td>Wetlands</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Pasture</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Impervious Sur.</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Crop Residue</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Disturbed Ground</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Row Crop</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>No Vegetation</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Residential Lawns, Parks</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> </table>		L	R		L	R		L	R	Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input type="checkbox"/>	<input type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>				Residential Lawns, Parks	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																													
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-34-05

Stream: Bigelow Creek

date: 5/23/2006

time: 3:30 PM 4:00 PM

Datasheet Completed by:

Stephen Ross

Other Team Members

Linda Sanderson

Differences Since Previously Monitored

First Habitat Assessment

<p>Background Information</p> <p>Storm Event condition <input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width:100%;"> <tr> <td></td> <td style="text-align:center;">None</td> <td style="text-align:center;">Present</td> <td style="text-align:center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Substrate in Percentage</p> <table style="width:100%;"> <tr><td>Boulder</td><td style="text-align:right;">0%</td></tr> <tr><td>Cobble</td><td style="text-align:right;">2%</td></tr> <tr><td>Sand</td><td style="text-align:right;">98%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align:right;">0%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align:right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align:right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align:right;">0%</td></tr> <tr><td>Total</td><td style="text-align:right;">100%</td></tr> </table>	Boulder	0%	Cobble	2%	Sand	98%	Silt/Detritus/Muck	0%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																					
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			Residential Lawns, Parks	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																						
Undercut Banks	<input checked="" type="checkbox"/>	Deep Pools	<input checked="" type="checkbox"/>	Aquatic Plants	<input checked="" type="checkbox"/>																																																																																																																																																						
Overhanging Veg	<input checked="" type="checkbox"/>	Boulders	<input type="checkbox"/>	Logs or Woody Debris	<input checked="" type="checkbox"/>																																																																																																																																																						
	None	Present	Abundant																																																																																																																																																								
Riffle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																								
Pool	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																								
Channel	<input checked="" type="checkbox"/> natural	<input type="checkbox"/> recovering	<input type="checkbox"/> maintain																																																																																																																																																								
Designated Drain	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown																																																																																																																																																								
<p>Potential Sources of Stream Degradation N=None; S=Slight; M=Moderate; H=High</p> <table style="width:100%;"> <tr> <td></td> <td style="text-align:center;">N</td> <td style="text-align:center;">S</td> <td style="text-align:center;">M</td> <td style="text-align:center;">H</td> <td></td> <td style="text-align:center;">N</td> <td style="text-align:center;">S</td> <td style="text-align:center;">M</td> <td style="text-align:center;">H</td> <td></td> <td style="text-align:center;">N</td> <td style="text-align:center;">S</td> <td style="text-align:center;">M</td> <td style="text-align:center;">H</td> </tr> <tr> <td>Crop Related Sources</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Upstream Impoundment</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Golf Courses</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Grazing Related Sources</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Construction: Highway,Road,Bridge</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Marinas/Recreational Boating (releases)</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Intensive Animal Feeding Operations</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Construction: Land Development</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Marinas/Recreational Boating (erosion)</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Highway/Road/Bridge Maint. 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Very little exposed stones in any part of the</td> </tr> </table>							N	S	M	H		N	S	M	H		N	S	M	H	Crop Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Upstream Impoundment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Golf Courses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grazing Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Highway,Road,Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (releases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway/Road/Bridge Maint. Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments	Stream fully in stream channel. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-34-07

Stream: Bigelow Creek

date: 5/23/2006

time: 4:55 PM 5:15 PM

Datasheet Completed by:

Stephen Ross

Other Team Members

Linda Sanderson

Differences Since Previously Monitored

First Habitat Assessment

Background Information		Physical Appearance			Substrate in Percentage																																														
Storm Event condition <input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50 Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H		None Present Abundant Aquatic Plants <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Floating Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Fil. Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Sheen/Slime <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Turbidity <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Oil Sheen <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Foam <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Trash <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			Boulder 0% Cobble 2% Sand 98% Silt/Detritus/Muck 0% Hardpan/Bedrock 0% Artificial/manmade 0% Unknown: 0% <hr/> Total 100%																																														
		Instream Cover - (check all that apply) Undercut Banks <input checked="" type="checkbox"/> Deep Pools <input checked="" type="checkbox"/> Aquatic Plants <input checked="" type="checkbox"/> Overhanging Veg <input checked="" type="checkbox"/> Boulders <input type="checkbox"/> Logs or Woody Debris <input checked="" type="checkbox"/>																																																	
Adjacent Land Uses - Left and Right Facing Downstream <table border="0"> <tr> <td></td> <td>L</td> <td>R</td> <td></td> <td>L</td> <td>R</td> <td></td> <td>L</td> <td>R</td> </tr> <tr> <td>Wetlands</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Pasture</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Impervious Sur.</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Crop Residue</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Disturbed Ground</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Row Crop</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>No Vegetation</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Residential Lawns, Parks</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> </table>			L	R		L	R		L	R	Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input type="checkbox"/>	<input type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>				Residential Lawns, Parks	<input type="checkbox"/>	<input type="checkbox"/>				River Morphology None Present Abundant Riffle <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Pool <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Channel <input checked="" type="checkbox"/> natural <input type="checkbox"/> recovering <input type="checkbox"/> maintain Designated Drain <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown Highest Water Mark (ft) <input checked="" type="checkbox"/> ? <input type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10			Stream Corridor Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (L) Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (R) Bank Erosion <input type="checkbox"/> 0 <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H Streamside Land Cover <input type="checkbox"/> bare <input type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees Stream Canopy % <input checked="" type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50	
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Potential Sources of Stream Degradation															
N=None; S=Slight; M=Moderate; H=High															
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Grazing Related Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Highway,Road,Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (releases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments	Stream fully in stream channel. Channel almost entirely of clean sand with silt/debris only in areas of sand scalloping in channel. Very little exposed stones in any part of the				

MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-34-11

Stream: Penoyer Creek

date: 5/20/2007

time: 10:30 AM 11:45 AM

Datasheet Completed by:

Russ Bachman

Other Team Members

Differences Since Previously Monitored

	<p align="center">Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table border="0" style="width:100%;"> <tr> <td></td> <td align="center">None</td> <td align="center">Present</td> <td align="center">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p align="center">Substrate in Percentage</p> <table border="0" style="width:100%;"> <tr><td>Boulder</td><td align="right">2%</td></tr> <tr><td>Cobble</td><td align="right">5%</td></tr> <tr><td>Sand</td><td align="right">10%</td></tr> <tr><td>Silt/Detritus/Muck</td><td align="right">83%</td></tr> <tr><td>Hardpan/Bedrock</td><td align="right">0%</td></tr> <tr><td>Artificial/manmade</td><td align="right">0%</td></tr> <tr><td>Unknown:</td><td align="right">0%</td></tr> <tr><td>Total</td><td align="right">100%</td></tr> </table>	Boulder	2%	Cobble	5%	Sand	10%	Silt/Detritus/Muck	83%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																		
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<p align="center">Adjacent Land Uses - Left and Right Facing Downstream</p> <table border="0" style="width:100%;"> <tr> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> </tr> <tr> <td>Wetlands</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td>Pasture</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Impervious Sur.</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Crop Residue</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Disturbed Ground</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Row Crop</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>No Vegetation</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td></td> <td align="center"></td> <td align="center"></td> <td>Residential Lawns, Parks</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td></td> <td align="center"></td> <td align="center"></td> </tr> </table>					L	R		L	R		L	R	Wetlands	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input type="checkbox"/>	<input type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>				Residential Lawns, Parks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																												
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-34-12

Stream: Penoyer

date: 5/19/2007

time: 3:10 PM 4:50 PM

Datasheet Completed by:

Russ Bachman

Other Team Members

Differences Since Previously Monitored

	<p align="center">Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>None</th> <th>Present</th> <th>Abundant</th> </tr> <tr> <td>Aquatic Plants</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Floating Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p align="center">Substrate in Percentage</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Boulder</td> <td align="right">0%</td> </tr> <tr> <td>Cobble</td> <td align="right">3%</td> </tr> <tr> <td>Sand</td> <td align="right">7%</td> </tr> <tr> <td>Silt/Detritus/Muck</td> <td align="right">90%</td> </tr> <tr> <td>Hardpan/Bedrock</td> <td align="right">0%</td> </tr> <tr> <td>Artificial/manmade</td> <td align="right">0%</td> </tr> <tr> <td>Unknown:</td> <td align="right">0%</td> </tr> <tr> <td>Total</td> <td align="right">100%</td> </tr> </table>	Boulder	0%	Cobble	3%	Sand	7%	Silt/Detritus/Muck	90%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																						
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-34-C1

Stream: Bigelow Creek

date: 5/23/2006

time: 11:00 AM 11:30 AM

Datasheet Completed by:

Stephen Ross

Other Team Members

Linda Sanderson

Differences Since Previously Monitored

First Habitat Assessment

<p align="center">Background Information</p> <p align="center">Storm Event condition</p> <p><input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p align="center">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p align="center">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table border="0" style="width:100%;"> <tr> <td></td> <td align="center">None</td> <td align="center">Present</td> <td align="center">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p align="center">Substrate in Percentage</p> <table border="0" style="width:100%;"> <tr><td>Boulder</td><td align="right">0%</td></tr> <tr><td>Cobble</td><td align="right">2%</td></tr> <tr><td>Sand</td><td align="right">98%</td></tr> <tr><td>Silt/Detritus/Muck</td><td align="right">0%</td></tr> <tr><td>Hardpan/Bedrock</td><td align="right">0%</td></tr> <tr><td>Artificial/manmade</td><td align="right">0%</td></tr> <tr><td>Unknown:</td><td align="right">0%</td></tr> <tr><td>Total</td><td align="right">100%</td></tr> </table>	Boulder	0%	Cobble	2%	Sand	98%	Silt/Detritus/Muck	0%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																		
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-34-C3

Stream: Bigelow Creek

date: 5/23/2006

time: 5:30 PM 6:00 PM

Datasheet Completed by:

Stephen Ross

Other Team Members

Linda Sanderson

Differences Since Previously Monitored

First Habitat Assessment

<p>Background Information</p> <p>Storm Event condition <input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width:100%;"> <tr> <td></td> <td style="text-align:center;">None</td> <td style="text-align:center;">Present</td> <td style="text-align:center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Substrate in Percentage</p> <table style="width:100%;"> <tr><td>Boulder</td><td style="text-align:right;">0%</td></tr> <tr><td>Cobble</td><td style="text-align:right;">2%</td></tr> <tr><td>Sand</td><td style="text-align:right;">98%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align:right;">0%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align:right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align:right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align:right;">0%</td></tr> <tr><td>Total</td><td style="text-align:right;">100%</td></tr> </table>	Boulder	0%	Cobble	2%	Sand	98%	Silt/Detritus/Muck	0%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																					
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<input type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10</p>	Undercut Banks	<input checked="" type="checkbox"/>	Deep Pools	<input checked="" type="checkbox"/>	Aquatic Plants	<input checked="" type="checkbox"/>	Overhanging Veg	<input checked="" type="checkbox"/>	Boulders	<input type="checkbox"/>	Logs or Woody Debris	<input checked="" type="checkbox"/>		None	Present	Abundant	Riffle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pool	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Channel	<input checked="" type="checkbox"/> natural	<input type="checkbox"/> recovering	<input type="checkbox"/> maintain	Designated Drain	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	<p>Stream Corridor</p> <p>Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (L)</p> <p>Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (R)</p> <p>Bank Erosion <input type="checkbox"/> 0 <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees</p> <p>Stream Canopy % <input checked="" type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p>																																																																												
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-35-01

Stream: Unnamed

date: 9/10/2010

time: 2:30 PM 5:30 PM

Datasheet Completed by:

Mike Niemiec

Other Team Members

Tom Shunta

Differences Since Previously Monitored

	<p align="center">Background Information</p> <p align="center">Storm Event condition</p> <p><input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p align="center">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p align="center">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> <p align="center">Substrate in Percentage</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td style="text-align: right;">3%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">3%</td></tr> <tr><td>Sand</td><td style="text-align: right;">10%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">80%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">5%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table> <p align="center">Instream Cover - (check all that apply)</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td>Undercut Banks <input checked="" type="checkbox"/></td> <td>Deep Pools <input type="checkbox"/></td> <td>Aquatic Plants <input checked="" type="checkbox"/></td> </tr> <tr> <td>Overhanging Veg <input checked="" type="checkbox"/></td> <td>Boulders <input checked="" type="checkbox"/></td> <td>Logs or Woody Debris <input checked="" type="checkbox"/></td> </tr> </table> <p align="center">River Morphology</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Riffle</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Pool</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Channel <input checked="" type="checkbox"/> natural <input type="checkbox"/> recovering <input type="checkbox"/> maintain</td> <td colspan="3"></td> </tr> <tr> <td>Designated Drain <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown</td> <td colspan="3"></td> </tr> </table> <p align="center">Stream Corridor</p> <p>Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (L)</p> <p>Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (R)</p> <p>Bank Erosion <input type="checkbox"/> 0 <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input checked="" type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees</p> <p>Stream Canopy % <input type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input checked="" type="checkbox"/> >50</p>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boulder	3%	Cobble	3%	Sand	10%	Silt/Detritus/Muck	80%	Hardpan/Bedrock	0%	Artificial/manmade	5%	Unknown:	0%	Total	100%	Undercut Banks <input checked="" type="checkbox"/>	Deep Pools <input type="checkbox"/>	Aquatic Plants <input checked="" type="checkbox"/>	Overhanging Veg <input checked="" type="checkbox"/>	Boulders <input checked="" type="checkbox"/>	Logs or Woody Debris <input checked="" type="checkbox"/>		None	Present	Abundant	Riffle	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pool	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Channel <input checked="" type="checkbox"/> natural <input type="checkbox"/> recovering <input type="checkbox"/> maintain				Designated Drain <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown																																																																												
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<p align="center">Adjacent Land Uses - Left and Right Facing Downstream</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">L</td> <td style="text-align: center;">R</td> <td></td> <td style="text-align: center;">L</td> <td style="text-align: center;">R</td> <td></td> <td style="text-align: center;">L</td> <td style="text-align: center;">R</td> </tr> <tr> <td>Wetlands</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Pasture</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Impervious Sur.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Crop Residue</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Disturbed Ground</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Row Crop</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>No Vegetation</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center;">Residential Lawns, Parks</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td colspan="4"></td> </tr> </table>					L	R		L	R		L	R	Wetlands	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>		Residential Lawns, Parks		<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																													
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<p align="center">Potential Sources of Stream Degradation</p> <p align="center">N=None; S=Slight; M=Moderate; H=High</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> </tr> <tr> <td>Crop Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Upstream Impoundment</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Golf Courses</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Grazing Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Highway,Road,Bridge</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (releases)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Intensive Animal Feeding Operations</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Land Development</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (erosion)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Highway/Road/Bridge Maint. Runoff</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Urban Runoff</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Debris in Water</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Channelization</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input 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type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway/Road/Bridge Maint. Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments				
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-35-02

Stream: Brooks Creek

date: 9/9/2010

time: 4:00 PM 5:00 PM

Datasheet Completed by:

Mark King

Other Team Members

Julie Berwald

Differences Since Previously Monitored

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%; text-align: center;"> <tr> <td></td> <td>None</td> <td>Present</td> <td>Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trash	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>Substrate in Percentage</p> <table style="width: 100%;"> <tr> <td>Boulder</td> <td style="text-align: right;">20%</td> </tr> <tr> <td>Cobble</td> <td style="text-align: right;">50%</td> </tr> <tr> <td>Sand</td> <td style="text-align: right;">20%</td> </tr> <tr> <td>Silt/Detritus/Muck</td> <td style="text-align: right;">5%</td> </tr> <tr> <td>Hardpan/Bedrock</td> <td style="text-align: right;">5%</td> </tr> <tr> <td>Artificial/manmade</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>Unknown:</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>Total</td> <td style="text-align: right;">100%</td> </tr> </table>	Boulder	20%	Cobble	50%	Sand	20%	Silt/Detritus/Muck	5%	Hardpan/Bedrock	5%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																								
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Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Band-Shoreline Erosion/Mod/Destruc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments				
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-36-01

Stream: Daisy Creek

date: 9/6/2008

time: 9:00 AM 11:30 AM

Datasheet Completed by:

Darrell Crawford

Other Team Members

Tom Moore

Differences Since Previously Monitored

Background Information				Physical Appearance			Substrate in Percentage																																														
Storm Event condition <input type="checkbox"/> None <input type="checkbox"/> Light <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50 Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H				None Present Abundant Aquatic Plants <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Floating Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Fil. Algae <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Sheen/Slime <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Turbidity <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Oil Sheen <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Foam <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Trash <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>			Boulder 5% Cobble 10% Sand 40% Silt/Detritus/Muck 25% Hardpan/Bedrock 20% Artificial/manmade 0% Unknown: 0% <hr/> Total 100%																																														
				Instream Cover - (check all that apply) Undercut Banks <input checked="" type="checkbox"/> Deep Pools <input checked="" type="checkbox"/> Aquatic Plants <input type="checkbox"/> Overhanging Veg <input checked="" type="checkbox"/> Boulders <input checked="" type="checkbox"/> Logs or Woody Debris <input checked="" type="checkbox"/>																																																	
Adjacent Land Uses - Left and Right Facing Downstream <table border="0"> <tr> <td></td> <td>L</td> <td>R</td> <td></td> <td>L</td> <td>R</td> <td></td> <td>L</td> <td>R</td> </tr> <tr> <td>Wetlands</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Pasture</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Impervious Sur.</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Crop Residue</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Disturbed Ground</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Row Crop</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>No Vegetation</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Residential Lawns, Parks</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> </table>					L	R		L	R		L	R	Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>	Forest	<input type="checkbox"/>	<input type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>				Residential Lawns, Parks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				River Morphology None Present Abundant Riffle <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Pool <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Channel <input type="checkbox"/> natural <input type="checkbox"/> recovering <input checked="" type="checkbox"/> maintain Designated Drain <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Highest Water Mark (ft) <input type="checkbox"/> ? <input type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input checked="" type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10			Stream Corridor Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (L) Riparian Veg. <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100 Width (R) Bank Erosion <input type="checkbox"/> 0 <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H Streamside Land Cover <input type="checkbox"/> bare <input checked="" type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees Stream Canopy % <input checked="" type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50	
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Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																							
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Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																							
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 06-36-02

Stream: Daisy Creek

date: 9/4/2008

time: 9:00 AM 10:10 AM

Datasheet Completed by:

Darrell Crawford

Other Team Members

Tom Moore

Differences Since Previously Monitored

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input checked="" type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway/Road/Bridge Maint. Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments				
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 07-19-01

Stream: Middle Branch River

date: 9/20/2009

time: 6:30 PM 7:15 PM

Datasheet Completed by:

Jason Keeler

Other Team Members

Joshua Keeler

Differences Since Previously Monitored

	<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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Width (L) <input type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input checked="" type="checkbox"/> >100</p> <p>Riparian Veg. Width (R) <input type="checkbox"/> <10 <input type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input checked="" type="checkbox"/> >100</p> <p>Bank Erosion <input checked="" type="checkbox"/> 0 <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input checked="" type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input checked="" type="checkbox"/> trees</p> <p>Stream Canopy % <input type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input checked="" type="checkbox"/> >50</p>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 07-19-02

Stream: Middle Branch River

date: 9/20/2009

time: 5:30 PM 6:15 PM

Datasheet Completed by:

Jason Keeler

Other Team Members

Joshua Keeler

Differences Since Previously Monitored

	<p align="center">Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">None</td> <td align="center">Present</td> <td align="center">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p align="center">Substrate in Percentage</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Boulder</td> <td align="right">30%</td> </tr> <tr> <td>Cobble</td> <td align="right">50%</td> </tr> <tr> <td>Sand</td> <td align="right">20%</td> </tr> <tr> <td>Silt/Detritus/Muck</td> <td align="right">0%</td> </tr> <tr> <td>Hardpan/Bedrock</td> <td align="right">0%</td> </tr> <tr> <td>Artificial/manmade</td> <td align="right">0%</td> </tr> <tr> <td>Unknown:</td> <td align="right">0%</td> </tr> <tr> <td>Total</td> <td align="right">100%</td> </tr> </table>	Boulder	30%	Cobble	50%	Sand	20%	Silt/Detritus/Muck	0%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																																																															
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 07-22-01

Stream: Twin Creek

date: 9/13/2008

time: 9:00 AM 9:45 AM

Datasheet Completed by:

Doug Trembath

Other Team Members

Jean LaLonde

Differences Since Previously Monitored

	<p align="center">Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input checked="" type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">None</td> <td align="center">Present</td> <td align="center">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trash	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p align="center">Substrate in Percentage</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td align="right">10%</td></tr> <tr><td>Cobble</td><td align="right">65%</td></tr> <tr><td>Sand</td><td align="right">10%</td></tr> <tr><td>Silt/Detritus/Muck</td><td align="right">5%</td></tr> <tr><td>Hardpan/Bedrock</td><td align="right">0%</td></tr> <tr><td>Artificial/manmade</td><td align="right">10%</td></tr> <tr><td>Unknown:</td><td align="right">0%</td></tr> <tr><td>Total</td><td align="right">100%</td></tr> </table>	Boulder	10%	Cobble	65%	Sand	10%	Silt/Detritus/Muck	5%	Hardpan/Bedrock	0%	Artificial/manmade	10%	Unknown:	0%	Total	100%																																																																																																		
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Highway/Road/Bridge Maint. Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																											
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Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																											
Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																											
Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																											
Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments	It took more than two hours to do 3 sites. That and the rain is why we didn't sample all different features.																																																																																																																																														

MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment

CID: 07-22-02

Stream: Twin Creek

date: 9/21/2010

time: 10:30 AM 11:00 AM

Datasheet Completed by:

Cheryl Richmond

Other Team Members

6th grade cl

Differences Since Previously Monitored

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input type="checkbox"/> None <input type="checkbox"/> Light <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 07-23-01

Stream: Hersey River

date: 9/6/2008

time: 3:00 PM 6:24 PM

Datasheet Completed by:

April Heilman

Other Team Members

Nathan Heilman

Nicholas Heilman

Differences Since Previously Monitored

<p>Background Information</p> <p>Storm Event condition <input type="checkbox"/> None <input checked="" type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 08-01-01

Stream: Big Creek

date: 5/6/2011

time: 1:30 PM

Datasheet Completed by:

Ken Pontius

Other Team Members

Karen Pontius

Differences Since Previously Monitored

	<p align="center">Background Information</p> <p align="center">Storm Event condition</p> <p><input type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p align="center">Water Color</p> <p><input type="checkbox"/> clear <input type="checkbox"/> gray <input checked="" type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p align="center">Water Body Type</p> <p>Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>Downstream <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table border="0" style="width:100%;"> <tr> <td></td> <td align="center">None</td> <td align="center">Present</td> <td align="center">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p align="center">Substrate in Percentage</p> <table border="0" style="width:100%;"> <tr><td>Boulder</td><td align="right">0%</td></tr> <tr><td>Cobble</td><td align="right">10%</td></tr> <tr><td>Sand</td><td align="right">60%</td></tr> <tr><td>Silt/Detritus/Muck</td><td align="right">30%</td></tr> <tr><td>Hardpan/Bedrock</td><td align="right">0%</td></tr> <tr><td>Artificial/manmade</td><td align="right">0%</td></tr> <tr><td>Unknown:</td><td align="right">0%</td></tr> <tr><td>Total</td><td align="right">100%</td></tr> </table>	Boulder	0%	Cobble	10%	Sand	60%	Silt/Detritus/Muck	30%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																		
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<p align="center">Adjacent Land Uses - Left and Right Facing Downstream</p> <table border="0" style="width:100%;"> <tr> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> <td></td> <td align="center">L</td> <td align="center">R</td> </tr> <tr> <td>Wetlands</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td>Pasture</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Impervious Sur.</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Shrub-old field</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td>Crop Residue</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>Disturbed Ground</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Forest</td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td>Row Crop</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td>No Vegetation</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td></td> <td align="center" colspan="2">Residential Lawns, Parks</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					L	R		L	R		L	R	Wetlands	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pasture	<input type="checkbox"/>	<input type="checkbox"/>	Impervious Sur.	<input type="checkbox"/>	<input type="checkbox"/>	Shrub-old field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Crop Residue	<input type="checkbox"/>	<input type="checkbox"/>	Disturbed Ground	<input type="checkbox"/>	<input type="checkbox"/>	Forest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Row Crop	<input type="checkbox"/>	<input type="checkbox"/>	No Vegetation	<input type="checkbox"/>	<input type="checkbox"/>		Residential Lawns, Parks		<input type="checkbox"/>	<input type="checkbox"/>																																																																																																													
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type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway/Road/Bridge Maint. Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Removal of Riparian Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flow Regulation/Modification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recreational/Tourism Activities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments				
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 08-02-01

Stream: The Cut

date: 6/15/2006

time: 1:00 PM 6:00 PM

Datasheet Completed by:

Claude Schmitt

Other Team Members

Joe Crnkovich

Differences Since Previously Monitored

First assessment.

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input checked="" type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 2

CID: 08-02-01

Stream: The Cut

date: 5/20/2011

time: 1:00 PM 3:45 PM

Datasheet Completed by:

Ken Pontius

Other Team Members

Karen Pontius

Differences Since Previously Monitored

Different Monitors

<p align="center">Background Information</p> <p align="center">Storm Event condition</p> <p><input type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p align="center">Water Color</p> <p><input type="checkbox"/> clear <input type="checkbox"/> gray <input checked="" type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p align="center">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input checked="" type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p align="center">Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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<p align="center">River Morphology</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Riffle</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Pool</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Channel</td> <td><input type="checkbox"/> natural</td> <td><input type="checkbox"/> recovering</td> <td><input type="checkbox"/> maintain</td> </tr> <tr> <td>Designated Drain</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> Unknown</td> </tr> <tr> <td colspan="4" style="text-align: center;">Highest Water Mark (ft)</td> </tr> <tr> <td><input type="checkbox"/> ?</td> <td><input type="checkbox"/> <1</td> <td><input type="checkbox"/> 1-3</td> <td><input checked="" type="checkbox"/> 3-5</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> 5-10</td> <td><input type="checkbox"/> >10</td> </tr> </table>			None	Present	Abundant	Riffle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pool	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Channel	<input type="checkbox"/> natural	<input type="checkbox"/> recovering	<input type="checkbox"/> maintain	Designated Drain	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown	Highest Water Mark (ft)				<input type="checkbox"/> ?	<input type="checkbox"/> <1	<input type="checkbox"/> 1-3	<input checked="" type="checkbox"/> 3-5			<input type="checkbox"/> 5-10	<input type="checkbox"/> >10	<p align="center">Stream Corridor</p> <p>Riparian Veg. Width (L) <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100</p> <p>Riparian Veg. Width (R) <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-30 <input type="checkbox"/> 30-100 <input type="checkbox"/> >100</p> <p>Bank Erosion <input type="checkbox"/> 0 <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p> <p>Streamside Land Cover <input type="checkbox"/> bare <input checked="" type="checkbox"/> grass <input checked="" type="checkbox"/> shrub <input type="checkbox"/> trees</p> <p>Stream Canopy % <input type="checkbox"/> <25 <input checked="" type="checkbox"/> 25-50 <input type="checkbox"/> >50</p>																																																																																																																						
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 08-03-01

Stream: Denton Creek

date: 9/9/2006

time: 10:00 AM 12:30 PM

Datasheet Completed by:

Craig Cotterman

Other Team Members

Chip McCullough

Jim Doyle

Dennis Peterson

Differences Since Previously Monitored

<p>Background Information</p> <p>Storm Event condition <input type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input checked="" type="checkbox"/> <1 <input type="checkbox"/> 2 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input checked="" type="checkbox"/> clear <input type="checkbox"/> gray <input type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Sheen/Slime</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Turbidity</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Oil Sheen</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Foam</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Trash</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		None	Present	Abundant	Aquatic Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Floating Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fil. Algae	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>Substrate in Percentage</p> <table style="width: 100%;"> <tr><td>Boulder</td><td style="text-align: right;">0%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">0%</td></tr> <tr><td>Sand</td><td style="text-align: right;">65%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">35%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">0%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">0%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	0%	Cobble	0%	Sand	65%	Silt/Detritus/Muck	35%	Hardpan/Bedrock	0%	Artificial/manmade	0%	Unknown:	0%	Total	100%																																																																																																								
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<input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> 3-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> >10</p>	Undercut Banks	<input checked="" type="checkbox"/>	Deep Pools	<input type="checkbox"/>	Aquatic Plants	<input checked="" type="checkbox"/>	Overhanging Veg	<input checked="" type="checkbox"/>	Boulders	<input type="checkbox"/>	Logs or Woody Debris	<input checked="" type="checkbox"/>		None	Present	Abundant	Riffle	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pool	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Channel	<input checked="" type="checkbox"/> natural	<input type="checkbox"/> recovering	<input type="checkbox"/> maintain	Designated Drain	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown	<p>Stream Corridor</p> <p>Riparian Veg. 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<p>Potential Sources of Stream Degradation N=None; S=Slight; M=Moderate; H=High</p> <table style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> <td></td> <td style="text-align: center;">N</td> <td style="text-align: center;">S</td> <td style="text-align: center;">M</td> <td style="text-align: center;">H</td> </tr> <tr> <td>Crop Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Upstream Impoundment</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Golf Courses</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Grazing Related Sources</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Highway,Road,Bridge</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (releases)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Intensive Animal Feeding Operations</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Construction: Land Development</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Marinas/Recreational Boating (erosion)</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Highway/Road/Bridge Maint. 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type="checkbox"/>	Intensive Animal Feeding Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction: Land Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marinas/Recreational Boating (erosion)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway/Road/Bridge Maint. Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urban Runoff	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debris in Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Channelization	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial Point Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dredging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Onsite Wastewater System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Municipal Point Source	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Removal of Riparian Vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silviculture (Forestry NPS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Sources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Band-Shoreline Erosion/Mod/Destruc	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Extraction (Mining NPS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source(s) Unknown	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flow Regulation/Modification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Recreational/Tourism Activities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Additional Comments	Approximate 5 mile stream; connecting Lake James to Houghton Lake			
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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 08-03-02

Stream: Denton Creek South B

date: 9/9/2010

time: 9:00 AM 12:00 PM

Datasheet Completed by:

Larry Bittner

Other Team Members

Rodger Shutter

Stan Watkins

Differences Since Previously Monitored

<p>Background Information</p> <p>Storm Event condition <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Water Color <input type="checkbox"/> clear <input type="checkbox"/> gray <input checked="" type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p>Water Body Type Stream Lake Impound Wetland Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Downstream <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input checked="" type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H</p>	<p>Physical Appearance</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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MUSKEGON RIVER WATER MONITORING PROGRAM

HABITAT ASSESSMENT REPORT

Habitat Assessment 1

CID: 08-04-01

Stream: Muskegon River

date: 6/11/2006

time: 2:30 PM 5:00 PM

Datasheet Completed by:

Craig Cotterman

Other Team Members

Ted Kusowski

Dennis Peterson

Keith Stiles

Differences Since Previously Monitored

First Assessment

<p style="text-align: center;">Background Information</p> <p style="text-align: center;">Storm Event condition</p> <p><input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p>Days Since Rain <input type="checkbox"/> <1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p style="text-align: center;">Water Color</p> <p><input type="checkbox"/> clear <input type="checkbox"/> gray <input checked="" type="checkbox"/> brown <input type="checkbox"/> black <input type="checkbox"/> green</p> <p style="text-align: center;">Water Body Type</p> <p style="text-align: center;">Stream Lake Impound Wetland</p> <p>Upstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Downstream <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Stream Width <input type="checkbox"/> <10 <input checked="" type="checkbox"/> 10-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50</p> <p>Stream Depth <input type="checkbox"/> <1 <input checked="" type="checkbox"/> 1-3 <input type="checkbox"/> >3 <input type="checkbox"/> unknown</p> <p>Stream Flow <input type="checkbox"/> dry <input type="checkbox"/> stagnant <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> H</p>	<p style="text-align: center;">Physical Appearance</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">None</td> <td style="text-align: center;">Present</td> <td style="text-align: center;">Abundant</td> </tr> <tr> <td>Aquatic Plants</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Floating Algae</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fil. 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Algae	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sheen/Slime	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Turbidity	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oil Sheen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Foam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p style="text-align: center;">Substrate in Percentage</p> <table style="width:100%; border-collapse: collapse;"> <tr><td>Boulder</td><td style="text-align: right;">0%</td></tr> <tr><td>Cobble</td><td style="text-align: right;">0%</td></tr> <tr><td>Sand</td><td style="text-align: right;">5%</td></tr> <tr><td>Silt/Detritus/Muck</td><td style="text-align: right;">85%</td></tr> <tr><td>Hardpan/Bedrock</td><td style="text-align: right;">0%</td></tr> <tr><td>Artificial/manmade</td><td style="text-align: right;">5%</td></tr> <tr><td>Unknown:</td><td style="text-align: right;">5%</td></tr> <tr><td>Total</td><td style="text-align: right;">100%</td></tr> </table>	Boulder	0%	Cobble	0%	Sand	5%	Silt/Detritus/Muck	85%	Hardpan/Bedrock	0%	Artificial/manmade	5%	Unknown:	5%	Total	100%
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Stream Canopy % <input checked="" type="checkbox"/> <25 <input type="checkbox"/> 25-50 <input type="checkbox"/> >50																																																						
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Wetlands <input checked="" type="checkbox"/> <input type="checkbox"/>	Pasture <input type="checkbox"/> <input type="checkbox"/>	Impervious Sur. <input type="checkbox"/> <input type="checkbox"/>																																																				
Shrub-old field <input checked="" type="checkbox"/> <input type="checkbox"/>	Crop Residue <input type="checkbox"/> <input type="checkbox"/>	Disturbed Ground <input type="checkbox"/> <input type="checkbox"/>																																																				
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Flow Regulation/Modification <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> H	Recreational/Tourism Activities <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> H	Additional Comments Potential sources, chemical treatments of Houghton Lake, pesticides, floridone, 24-0, etc.																																																				