



## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

Reach ID: **rSCOR\*104** Survey date: 8/2/06 Length: 112 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues
Epifaunal Substrate/ Available Cover: 7 /20	Vegetative Stream Shading Left Bank: 40% Right Bank: 50%	
Pool Substrate Characterization: 6 /20 (low gradient)	Riparian Vegetative Buffer Width Left Bank: 15 m. Right Bank: 7 m.	
Pool Variability: 1 /20 (low gradient)	Bank Slope Left Bank: not recorded Right Bank: not recorded	
Sediment Deposition: 5 /20	Large Woody Debris count Small (diameter 10 cm. to 30 cm.) not recorded	
Channel Flow Status: 8 /20	Medium (diameter 30 cm. to 60 cm.) not recorded	
Channel Alteration: 13 /20	Large (diameter >60 cm.) not recorded	
Channel Sinuosity: 9 /20 (low gradient)	Has LWD been placed? not recorded	
Bank Stability Left Bank: 2 /10 Right Bank: 2 /10		
Vegetative Protection Left Bank: 5 /10 Right Bank: 4 /10		
Riparian Vegetation Zone Width Left Bank: 10 /10 Right Bank: 3 /10		
<b>Total Score: 75 /200</b> <b>Overall Condition:</b> Poor		
	<p><b>Field Notes</b>            endpoint- Narrow valley, but not very constrained- moderate bank angles            - deepest pool @ 1.5feet- glide</p>	





## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*105      Survey date: 8/2/06      Length: 49 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues						
<table border="1"> <tr> <td>Epifaunal Substrate/ Available Cover:</td> <td>14 /20</td> </tr> </table>	Epifaunal Substrate/ Available Cover:	14 /20	<p>Vegetative Stream Shading Left Bank: 20% Right Bank: 20%</p>					
Epifaunal Substrate/ Available Cover:	14 /20							
<table border="1"> <tr> <td>Embeddedness: <i>(high gradient)</i></td> <td>16 /20</td> </tr> </table>	Embeddedness: <i>(high gradient)</i>	16 /20	<p>Riparian Vegetative Buffer Width Left Bank: 15 m. Right Bank: 8 m.</p>					
Embeddedness: <i>(high gradient)</i>	16 /20							
<table border="1"> <tr> <td>Velocity/Depth Regimes: <i>(high gradient)</i></td> <td>6 /20</td> </tr> </table>	Velocity/Depth Regimes: <i>(high gradient)</i>	6 /20	<p>Bank Slope Left Bank: not recorded Right Bank: not recorded</p>					
Velocity/Depth Regimes: <i>(high gradient)</i>	6 /20							
<table border="1"> <tr> <td>Sediment Deposition:</td> <td>15 /20</td> </tr> </table>	Sediment Deposition:	15 /20	<p>Large Woody Debris count Small <i>(diameter 10 cm. to 30 cm.)</i> not recorded</p>					
Sediment Deposition:	15 /20							
<table border="1"> <tr> <td>Channel Flow Status:</td> <td>8 /20</td> </tr> </table>	Channel Flow Status:	8 /20	<p>Medium <i>(diameter 30 cm. to 60 cm.)</i> not recorded</p>					
Channel Flow Status:	8 /20							
<table border="1"> <tr> <td>Channel Alteration:</td> <td>13 /20</td> </tr> </table>	Channel Alteration:	13 /20	<p>Large <i>(diameter &gt;60 cm.)</i> not recorded</p>					
Channel Alteration:	13 /20							
<table border="1"> <tr> <td>Frequency of Riffles or Bends: <i>(high gradient)</i></td> <td>16 /20</td> </tr> </table>	Frequency of Riffles or Bends: <i>(high gradient)</i>	16 /20	<p>Has LWD been placed? not recorded</p>					
Frequency of Riffles or Bends: <i>(high gradient)</i>	16 /20							
<table border="1"> <tr> <td>Bank Stability</td> <td></td> </tr> <tr> <td>Left Bank:</td> <td>4 /10</td> </tr> <tr> <td>Right Bank:</td> <td>4 /10</td> </tr> </table>	Bank Stability		Left Bank:	4 /10	Right Bank:	4 /10		
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Right Bank:	4 /10							
<table border="1"> <tr> <td>Vegetative Protection</td> <td></td> </tr> <tr> <td>Left Bank:</td> <td>4 /10</td> </tr> <tr> <td>Right Bank:</td> <td>3 /10</td> </tr> </table>	Vegetative Protection		Left Bank:	4 /10	Right Bank:	3 /10		
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<table border="1"> <tr> <td>Riparian Vegetation Zone Width</td> <td></td> </tr> <tr> <td>Left Bank:</td> <td>3 /10</td> </tr> <tr> <td>Right Bank:</td> <td>10 /10</td> </tr> </table>	Riparian Vegetation Zone Width		Left Bank:	3 /10	Right Bank:	10 /10		
Riparian Vegetation Zone Width								
Left Bank:	3 /10							
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<table border="1"> <tr> <td><b>Total Score:</b></td> <td><b>116 /200</b></td> </tr> <tr> <td><b>Overall Condition:</b></td> <td>Fair</td> </tr> </table>	<b>Total Score:</b>	<b>116 /200</b>	<b>Overall Condition:</b>	Fair	<p><b>Field Notes</b> endpoint-Narrow valley, but not very constrained- moderate bank angles - glide</p>			
<b>Total Score:</b>	<b>116 /200</b>							
<b>Overall Condition:</b>	Fair							







## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

**Reach ID:** rSCOR\*111     **Survey date:** 8/2/06     **Length:** 48 feet along Upper Johnson Creek tributary

EPA Rapid Assessment Scores	Supplemental Information	Management Issues																														
<table border="1"> <tr> <td>Epifaunal Substrate/ Available Cover:</td> <td style="text-align: right;">5 /20</td> </tr> <tr> <td>Pool Substrate Characterization: <i>(low gradient)</i></td> <td style="text-align: right;">6 /20</td> </tr> <tr> <td>Pool Variability: <i>(low gradient)</i></td> <td style="text-align: right;">1 /20</td> </tr> <tr> <td>Sediment Deposition:</td> <td style="text-align: right;">3 /20</td> </tr> <tr> <td>Channel Flow Status:</td> <td style="text-align: right;">4 /20</td> </tr> <tr> <td>Channel Alteration:</td> <td style="text-align: right;">2 /20</td> </tr> <tr> <td>Channel Sinuosity: <i>(low gradient)</i></td> <td style="text-align: right;">7 /20</td> </tr> <tr> <td>Bank Stability Left Bank:</td> <td style="text-align: right;">2 /10</td> </tr> <tr> <td>Right Bank:</td> <td style="text-align: right;">2 /10</td> </tr> <tr> <td>Vegetative Protection Left Bank:</td> <td style="text-align: right;">2 /10</td> </tr> <tr> <td>Right Bank:</td> <td style="text-align: right;">2 /10</td> </tr> <tr> <td>Riparian Vegetation Zone Width Left Bank:</td> <td style="text-align: right;">2 /10</td> </tr> <tr> <td>Right Bank:</td> <td style="text-align: right;">2 /10</td> </tr> <tr> <td><b>Total Score:</b></td> <td style="text-align: right;"><b>40 /200</b></td> </tr> <tr> <td><b>Overall Condition:</b></td> <td style="text-align: right;">Very Poor</td> </tr> </table>	Epifaunal Substrate/ Available Cover:	5 /20	Pool Substrate Characterization: <i>(low gradient)</i>	6 /20	Pool Variability: <i>(low gradient)</i>	1 /20	Sediment Deposition:	3 /20	Channel Flow Status:	4 /20	Channel Alteration:	2 /20	Channel Sinuosity: <i>(low gradient)</i>	7 /20	Bank Stability Left Bank:	2 /10	Right Bank:	2 /10	Vegetative Protection Left Bank:	2 /10	Right Bank:	2 /10	Riparian Vegetation Zone Width Left Bank:	2 /10	Right Bank:	2 /10	<b>Total Score:</b>	<b>40 /200</b>	<b>Overall Condition:</b>	Very Poor	<p><b>Vegetative Stream Shading</b> Left Bank: 10% Right Bank: 10%</p> <p><b>Riparian Vegetative Buffer Width</b> Left Bank: 4 m. Right Bank: 4 m.</p> <p><b>Bank Slope</b> Left Bank: not recorded Right Bank: not recorded</p> <p><b>Large Woody Debris count</b> Small <i>(diameter 10 cm. to 30 cm.)</i> not recorded Medium <i>(diameter 30 cm. to 60 cm.)</i> not recorded Large <i>(diameter &gt;60 cm.)</i> not recorded</p> <p>Has LWD been placed? not recorded</p>	<p><b>Management Issues</b> Culvert (on surveyed stream)</p>
Epifaunal Substrate/ Available Cover:	5 /20																															
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Right Bank:	2 /10																															
<b>Total Score:</b>	<b>40 /200</b>																															
<b>Overall Condition:</b>	Very Poor																															
<p><b>Field Notes</b> endpoint- heavily disturbed area- Narrow valley, but not very constrained- steep bank angle- poor fish habitat -mapping is off here- glide only</p>																																





# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*453 Survey date: 11/7/06 Length: 179 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues										
<table border="1"> <tr><td>Epifaunal Substrate/ Available Cover:</td><td>9 /20</td></tr> </table>	Epifaunal Substrate/ Available Cover:	9 /20	Vegetative Stream Shading Left Bank: 25% Right Bank: 20%									
Epifaunal Substrate/ Available Cover:	9 /20											
<table border="1"> <tr><td>Embeddedness:</td><td>12 /20</td></tr> <tr><td><i>(high gradient)</i></td><td></td></tr> </table>	Embeddedness:	12 /20	<i>(high gradient)</i>		Riparian Vegetative Buffer Width Left Bank: 12 m. Right Bank: 15 m.							
Embeddedness:	12 /20											
<i>(high gradient)</i>												
<table border="1"> <tr><td>Velocity/Depth Regimes:</td><td>6 /20</td></tr> <tr><td><i>(high gradient)</i></td><td></td></tr> </table>	Velocity/Depth Regimes:	6 /20	<i>(high gradient)</i>		Bank Slope Left Bank: Steep Right Bank: Steep							
Velocity/Depth Regimes:	6 /20											
<i>(high gradient)</i>												
<table border="1"> <tr><td>Sediment Deposition:</td><td>8 /20</td></tr> </table>	Sediment Deposition:	8 /20	Large Woody Debris count Small ( <i>diameter 10 cm. to 30 cm.</i> ) 0									
Sediment Deposition:	8 /20											
<table border="1"> <tr><td>Channel Flow Status:</td><td>20 /20</td></tr> </table>	Channel Flow Status:	20 /20	Medium ( <i>diameter 30 cm. to 60 cm.</i> ) 4									
Channel Flow Status:	20 /20											
<table border="1"> <tr><td>Channel Alteration:</td><td>9 /20</td></tr> </table>	Channel Alteration:	9 /20	Large ( <i>diameter &gt;60 cm.</i> ) 5									
Channel Alteration:	9 /20											
<table border="1"> <tr><td>Frequency of Riffles or Bends:</td><td>18 /20</td></tr> <tr><td><i>(high gradient)</i></td><td></td></tr> <tr><td>Bank Stability</td><td></td></tr> <tr><td>  Left Bank:</td><td>5 /10</td></tr> <tr><td>  Right Bank:</td><td>8 /10</td></tr> </table>	Frequency of Riffles or Bends:	18 /20	<i>(high gradient)</i>		Bank Stability		Left Bank:	5 /10	Right Bank:	8 /10	Has LWD been placed? yes	
Frequency of Riffles or Bends:	18 /20											
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Vegetative Protection												
Left Bank:	2 /10											
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<b>Overall Condition:</b>	Fair											





## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

Reach ID: **rSCOR\*462** Survey date: 11/7/06 Length: 277 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues
Epifaunal Substrate/ Available Cover: 9 /20	Vegetative Stream Shading Left Bank: 30% Right Bank: 30%	
Embeddedness: 12 /20 <i>(high gradient)</i>	Riparian Vegetative Buffer Width Left Bank: 12 m. Right Bank: 12 m.	
Velocity/Depth Regimes: 6 /20 <i>(high gradient)</i>	Bank Slope Left Bank: Steep Right Bank: Moderate	
Sediment Deposition: 8 /20	Large Woody Debris count	
Channel Flow Status: 20 /20	Small ( <i>diameter 10 cm. to 30 cm.</i> ) 18	
Channel Alteration: 9 /20	Medium ( <i>diameter 30 cm. to 60 cm.</i> ) 11	
Frequency of Riffles or Bends: 18 /20 <i>(high gradient)</i>	Large ( <i>diameter &gt;60 cm.</i> ) 7	
Bank Stability Left Bank: 7 /10 Right Bank: 6 /10	Has LWD been placed? yes	
Vegetative Protection Left Bank: 5 /10 Right Bank: 2 /10	<b>Field Notes</b> endpoint- Sample taken at flood stage-major restoration work done here, full ground cover plantings/ shrub layer plantings/ and jute coverings placed- broad valley, little constraints - tideman johnson construction project	
Riparian Vegetation Zone Width Left Bank: 6 /10 Right Bank: 5 /10		
<b>Total Score: 113 /200</b> <b>Overall Condition:</b> Fair		





# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*468 Survey date: 11/7/06 Length: 635 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues																																																														
<table border="1"><tr><td>Epifaunal Substrate/ Available Cover:</td><td>7 /20</td></tr><tr><td>Embeddedness: (high gradient)</td><td>12 /20</td></tr><tr><td>Velocity/Depth Regimes: (high gradient)</td><td>6 /20</td></tr><tr><td>Sediment Deposition:</td><td>8 /20</td></tr><tr><td>Channel Flow Status:</td><td>19 /20</td></tr><tr><td>Channel Alteration:</td><td>2 /20</td></tr><tr><td>Frequency of Riffles or Bends: (high gradient)</td><td>17 /20</td></tr><tr><td>Bank Stability</td><td></td></tr><tr><td>Left Bank:</td><td>8 /10</td></tr><tr><td>Right Bank:</td><td>8 /10</td></tr><tr><td>Vegetative Protection</td><td></td></tr><tr><td>Left Bank:</td><td>5 /10</td></tr><tr><td>Right Bank:</td><td>5 /10</td></tr><tr><td>Riparian Vegetation Zone Width</td><td></td></tr><tr><td>Left Bank:</td><td>9 /10</td></tr><tr><td>Right Bank:</td><td>10 /10</td></tr></table>	Epifaunal Substrate/ Available Cover:	7 /20	Embeddedness: (high gradient)	12 /20	Velocity/Depth Regimes: (high gradient)	6 /20	Sediment Deposition:	8 /20	Channel Flow Status:	19 /20	Channel Alteration:	2 /20	Frequency of Riffles or Bends: (high gradient)	17 /20	Bank Stability		Left Bank:	8 /10	Right Bank:	8 /10	Vegetative Protection		Left Bank:	5 /10	Right Bank:	5 /10	Riparian Vegetation Zone Width		Left Bank:	9 /10	Right Bank:	10 /10	<table border="1"><tr><td colspan="2"><b>Vegetative Stream Shading</b></td></tr><tr><td>Left Bank:</td><td>45%</td></tr><tr><td>Right Bank:</td><td>45%</td></tr><tr><td colspan="2"><b>Riparian Vegetative Buffer Width</b></td></tr><tr><td>Left Bank:</td><td>18 m.</td></tr><tr><td>Right Bank:</td><td>15 m.</td></tr><tr><td colspan="2"><b>Bank Slope</b></td></tr><tr><td>Left Bank:</td><td>Steep</td></tr><tr><td>Right Bank:</td><td>Steep</td></tr><tr><td colspan="2"><b>Large Woody Debris count</b></td></tr><tr><td>Small (diameter 10 cm. to 30 cm.)</td><td>4</td></tr><tr><td>Medium (diameter 30 cm. to 60 cm.)</td><td>2</td></tr><tr><td>Large (diameter &gt;60 cm.)</td><td>1</td></tr><tr><td>Has LWD been placed?</td><td>no</td></tr></table>	<b>Vegetative Stream Shading</b>		Left Bank:	45%	Right Bank:	45%	<b>Riparian Vegetative Buffer Width</b>		Left Bank:	18 m.	Right Bank:	15 m.	<b>Bank Slope</b>		Left Bank:	Steep	Right Bank:	Steep	<b>Large Woody Debris count</b>		Small (diameter 10 cm. to 30 cm.)	4	Medium (diameter 30 cm. to 60 cm.)	2	Large (diameter >60 cm.)	1	Has LWD been placed?	no	<table border="1"><tr><td><b>Management Issues</b></td></tr><tr><td>Stream Bank Erosion</td></tr></table>	<b>Management Issues</b>	Stream Bank Erosion
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## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*471 Survey date: 11/7/06 Length: 344 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues
Epifaunal Substrate/ Available Cover: 7 /20	Vegetative Stream Shading Left Bank: 50% Right Bank: 55%	
Embeddedness: 12 /20 (high gradient)	Riparian Vegetative Buffer Width Left Bank: 10 m. Right Bank: 15 m.	
Velocity/Depth Regimes: 6 /20 (high gradient)	Bank Slope Left Bank: Steep Right Bank: Steep	
Sediment Deposition: 8 /20	Large Woody Debris count Small (diameter 10 cm. to 30 cm.) 6 Medium (diameter 30 cm. to 60 cm.) 5 Large (diameter >60 cm.) 4	
Channel Flow Status: 19 /20	Has LWD been placed? no	
Channel Alteration: 2 /20		
Frequency of Riffles or Bends: 17 /20 (high gradient)		
Bank Stability Left Bank: 7 /10 Right Bank: 8 /10		
Vegetative Protection Left Bank: 5 /10 Right Bank: 5 /10		
Riparian Vegetation Zone Width Left Bank: 4 /10 Right Bank: 6 /10		
<b>Total Score: 106 /200</b> <b>Overall Condition:</b> Fair	<b>Field Notes</b> endpoint- end is bridge @ 45th Ave.- Sample taken at flood stage-major restoration work done here, full ground cover plantings/ shrub layer plantings/ and jute coverings placed- broad valley, little constraints - tideman johnson construction project	







## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

Reach ID: **rSCOR\*479** Survey date: 11/13/06 Length: 285 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Epifaunal Substrate/ Available Cover:</td> <td style="text-align: right; padding: 2px;">7 /20</td> </tr> <tr> <td style="padding: 2px;">Embeddedness: <i>(high gradient)</i></td> <td style="text-align: right; padding: 2px;">12 /20</td> </tr> <tr> <td style="padding: 2px;">Velocity/Depth Regimes: <i>(high gradient)</i></td> <td style="text-align: right; padding: 2px;">6 /20</td> </tr> <tr> <td style="padding: 2px;">Sediment Deposition:</td> <td style="text-align: right; padding: 2px;">7 /20</td> </tr> <tr> <td style="padding: 2px;">Channel Flow Status:</td> <td style="text-align: right; padding: 2px;">18 /20</td> </tr> <tr> <td style="padding: 2px;">Channel Alteration:</td> <td style="text-align: right; padding: 2px;">5 /20</td> </tr> <tr> <td style="padding: 2px;">Frequency of Riffles or Bends: <i>(high gradient)</i></td> <td style="text-align: right; padding: 2px;">11 /20</td> </tr> <tr> <td style="padding: 2px;">Bank Stability</td> <td></td> </tr> <tr> <td style="padding: 2px;">    Left Bank:</td> <td style="text-align: right; padding: 2px;">7 /10</td> </tr> <tr> <td style="padding: 2px;">    Right Bank:</td> <td style="text-align: right; padding: 2px;">7 /10</td> </tr> <tr> <td style="padding: 2px;">Vegetative Protection</td> <td></td> </tr> <tr> <td style="padding: 2px;">    Left Bank:</td> <td style="text-align: right; padding: 2px;">5 /10</td> </tr> <tr> <td style="padding: 2px;">    Right Bank:</td> <td style="text-align: right; padding: 2px;">5 /10</td> </tr> <tr> <td style="padding: 2px;">Riparian Vegetation Zone Width</td> <td></td> </tr> <tr> <td style="padding: 2px;">    Left Bank:</td> <td style="text-align: right; padding: 2px;">4 /10</td> </tr> <tr> <td style="padding: 2px;">    Right Bank:</td> <td style="text-align: right; padding: 2px;">6 /10</td> </tr> <tr> <td style="padding: 5px;"><b>Total Score: 100 /200</b></td> <td></td> </tr> <tr> <td style="padding: 5px;"><b>Overall Condition:</b> Fair</td> <td></td> </tr> </table>	Epifaunal Substrate/ Available Cover:	7 /20	Embeddedness: <i>(high gradient)</i>	12 /20	Velocity/Depth Regimes: <i>(high gradient)</i>	6 /20	Sediment Deposition:	7 /20	Channel Flow Status:	18 /20	Channel Alteration:	5 /20	Frequency of Riffles or Bends: <i>(high gradient)</i>	11 /20	Bank Stability		Left Bank:	7 /10	Right Bank:	7 /10	Vegetative Protection		Left Bank:	5 /10	Right Bank:	5 /10	Riparian Vegetation Zone Width		Left Bank:	4 /10	Right Bank:	6 /10	<b>Total Score: 100 /200</b>		<b>Overall Condition:</b> Fair		<p>Vegetative Stream Shading</p> <p>Left Bank: 15%</p> <p>Right Bank: 30%</p> <p>Riparian Vegetative Buffer Width</p> <p>Left Bank: 10 m.</p> <p>Right Bank: 10 m.</p> <p>Bank Slope</p> <p>Left Bank: Steep</p> <p>Right Bank: Steep</p> <p>Large Woody Debris count</p> <p>Small <i>(diameter 10 cm. to 30 cm.)</i> 13</p> <p>Medium <i>(diameter 30 cm. to 60 cm.)</i> 2</p> <p>Large <i>(diameter &gt;60 cm.)</i> 1</p> <p>Has LWD been placed? no</p>	<p style="text-align: center;"><b>Management Issues</b></p>
Epifaunal Substrate/ Available Cover:	7 /20																																					
Embeddedness: <i>(high gradient)</i>	12 /20																																					
Velocity/Depth Regimes: <i>(high gradient)</i>	6 /20																																					
Sediment Deposition:	7 /20																																					
Channel Flow Status:	18 /20																																					
Channel Alteration:	5 /20																																					
Frequency of Riffles or Bends: <i>(high gradient)</i>	11 /20																																					
Bank Stability																																						
Left Bank:	7 /10																																					
Right Bank:	7 /10																																					
Vegetative Protection																																						
Left Bank:	5 /10																																					
Right Bank:	5 /10																																					
Riparian Vegetation Zone Width																																						
Left Bank:	4 /10																																					
Right Bank:	6 /10																																					
<b>Total Score: 100 /200</b>																																						
<b>Overall Condition:</b> Fair																																						
	<p><b>Field Notes</b></p> <p>endpoint- East section off 45th Ave.- Sample taken after flood stage-major restoration work done here, full ground cover plantings/ shrub layer plantings/ and jute coverings placed- broad valley, little constraints - tideman johnson construction project</p>																																					





## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*61

Survey date: 7/25/06 Length: 314 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues
Epifaunal Substrate/ Available Cover: 13 /20	Vegetative Stream Shading Left Bank: 65% Right Bank: 70%	Litter
Embeddedness: 12 /20 <i>(high gradient)</i>	Riparian Vegetative Buffer Width Left Bank: 6 m. Right Bank: 6 m.	
Velocity/Depth Regimes: 10 /20 <i>(high gradient)</i>	Bank Slope Left Bank: not recorded Right Bank: not recorded	
Sediment Deposition: 12 /20	Large Woody Debris count Small ( <i>diameter 10 cm. to 30 cm.</i> ) not recorded	
Channel Flow Status: 7 /20	Medium ( <i>diameter 30 cm. to 60 cm.</i> ) not recorded	
Channel Alteration: 6 /20	Large ( <i>diameter &gt;60 cm.</i> ) not recorded	
Frequency of Riffles or Bends: 12 /20 <i>(high gradient)</i>	Has LWD been placed? not recorded	
Bank Stability Left Bank: 9 /10 Right Bank: 9 /10		
Vegetative Protection Left Bank: 4 /10 Right Bank: 5 /10		
Riparian Vegetation Zone Width Left Bank: 2 /10 Right Bank: 2 /10		
<b>Total Score: 103 /200</b> <b>Overall Condition:</b> Fair	<b>Field Notes</b> endpoint	





# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*62 Survey date: 7/25/06 Length: 208 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues
Epifaunal Substrate/ Available Cover: 10 /20	Vegetative Stream Shading Left Bank: 35% Right Bank: 45%	
Embeddedness: 11 /20 <i>(high gradient)</i>	Riparian Vegetative Buffer Width Left Bank: 6 m. Right Bank: 6 m.	
Velocity/Depth Regimes: 10 /20 <i>(high gradient)</i>	Bank Slope Left Bank: not recorded Right Bank: not recorded	
Sediment Deposition: 10 /20	Large Woody Debris count	
Channel Flow Status: 9 /20	Small ( <i>diameter 10 cm. to 30 cm.</i> ) not recorded	
Channel Alteration: 6 /20	Medium ( <i>diameter 30 cm. to 60 cm.</i> ) not recorded	
Frequency of Riffles or Bends: 12 /20 <i>(high gradient)</i>	Large ( <i>diameter &gt;60 cm.</i> ) not recorded	
Bank Stability Left Bank: 8 /10 Right Bank: 9 /10	Has LWD been placed? not recorded	
Vegetative Protection Left Bank: 4 /10 Right Bank: 3 /10	<b>Field Notes</b> endpoint	
Riparian Vegetation Zone Width Left Bank: 2 /10 Right Bank: 2 /10		
<b>Total Score: 96 /200</b> <b>Overall Condition:</b> Fair		





## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*67 Survey date: 7/26/06 Length: 126 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues
Epifaunal Substrate/ Available Cover: 12 /20	Vegetative Stream Shading Left Bank: 15% Right Bank: 50%	Bridge
Embeddedness: 13 /20 <i>(high gradient)</i>	Riparian Vegetative Buffer Width Left Bank: 16 m. Right Bank: 10 m.	
Velocity/Depth Regimes: 9 /20 <i>(high gradient)</i>	Bank Slope Left Bank: not recorded Right Bank: not recorded	
Sediment Deposition: 7 /20	Large Woody Debris count	
Channel Flow Status: 8 /20	Small <i>(diameter 10 cm. to 30 cm.)</i> not recorded	
Channel Alteration: 9 /20	Medium <i>(diameter 30 cm. to 60 cm.)</i> not recorded	
Frequency of Riffles or Bends: 12 /20 <i>(high gradient)</i>	Large <i>(diameter &gt;60 cm.)</i> not recorded	
Bank Stability Left Bank: 2 /10 Right Bank: 4 /10	Has LWD been placed? not recorded	
Vegetative Protection Left Bank: 2 /10 Right Bank: 5 /10		
Riparian Vegetation Zone Width Left Bank: 7 /10 Right Bank: 5 /10		
<b>Total Score: 95 /200</b> <b>Overall Condition:</b> Fair	<b>Field Notes</b> endpoint	





## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*70 Survey date: 7/26/06 Length: 207 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues																																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Epifaunal Substrate/ Available Cover:</td> <td style="text-align: right;">6 /20</td> </tr> <tr> <td colspan="2">Pool Substrate Characterization: <i>(low gradient)</i></td> <td style="text-align: right;">9 /20</td> </tr> <tr> <td colspan="2">Pool Variability: <i>(low gradient)</i></td> <td style="text-align: right;">1 /20</td> </tr> <tr> <td colspan="2">Sediment Deposition:</td> <td style="text-align: right;">7 /20</td> </tr> <tr> <td colspan="2">Channel Flow Status:</td> <td style="text-align: right;">8 /20</td> </tr> <tr> <td colspan="2">Channel Alteration:</td> <td style="text-align: right;">13 /20</td> </tr> <tr> <td colspan="2">Channel Sinuosity: <i>(low gradient)</i></td> <td style="text-align: right;">6 /20</td> </tr> <tr> <td colspan="2">Bank Stability</td> <td></td> </tr> <tr> <td colspan="2">    Left Bank:</td> <td style="text-align: right;">3 /10</td> </tr> <tr> <td colspan="2">    Right Bank:</td> <td style="text-align: right;">4 /10</td> </tr> <tr> <td colspan="2">Vegetative Protection</td> <td></td> </tr> <tr> <td colspan="2">    Left Bank:</td> <td style="text-align: right;">3 /10</td> </tr> <tr> <td colspan="2">    Right Bank:</td> <td style="text-align: right;">4 /10</td> </tr> <tr> <td colspan="2">Riparian Vegetation Zone Width</td> <td></td> </tr> <tr> <td colspan="2">    Left Bank:</td> <td style="text-align: right;">8 /10</td> </tr> <tr> <td colspan="2">    Right Bank:</td> <td style="text-align: right;">4 /10</td> </tr> <tr> <td colspan="2"><b>Total Score:</b></td> <td style="text-align: right;"><b>76 /200</b></td> </tr> <tr> <td colspan="2"><b>Overall Condition:</b></td> <td style="text-align: right;">Poor</td> </tr> </table>	Epifaunal Substrate/ Available Cover:		6 /20	Pool Substrate Characterization: <i>(low gradient)</i>		9 /20	Pool Variability: <i>(low gradient)</i>		1 /20	Sediment Deposition:		7 /20	Channel Flow Status:		8 /20	Channel Alteration:		13 /20	Channel Sinuosity: <i>(low gradient)</i>		6 /20	Bank Stability			Left Bank:		3 /10	Right Bank:		4 /10	Vegetative Protection			Left Bank:		3 /10	Right Bank:		4 /10	Riparian Vegetation Zone Width			Left Bank:		8 /10	Right Bank:		4 /10	<b>Total Score:</b>		<b>76 /200</b>	<b>Overall Condition:</b>		Poor	<p>Vegetative Stream Shading</p> <p>Left Bank: 50%</p> <p>Right Bank: 55%</p> <p>Riparian Vegetative Buffer Width</p> <p>Left Bank: 6 m.</p> <p>Right Bank: 4 m.</p> <p>Bank Slope</p> <p>Left Bank: not recorded</p> <p>Right Bank: not recorded</p> <p>Large Woody Debris count</p> <p>Small (<i>diameter 10 cm. to 30 cm.</i>)</p> <p style="padding-left: 40px;">not recorded</p> <p>Medium (<i>diameter 30 cm. to 60 cm.</i>)</p> <p style="padding-left: 40px;">not recorded</p> <p>Large (<i>diameter &gt;60 cm.</i>)</p> <p style="padding-left: 40px;">not recorded</p> <p>Has LWD been placed?</p> <p style="padding-left: 40px;">not recorded</p>	
Epifaunal Substrate/ Available Cover:		6 /20																																																						
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<b>Overall Condition:</b>		Poor																																																						
	<p><b>Field Notes</b></p> <p>endpoint</p>																																																							





# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*73 Survey date: 7/26/06 Length: 156 feet along Johnson Creek

EPA Rapid Assessment Scores	
Epifaunal Substrate/ Available Cover:	7 /20
Pool Substrate Characterization: (low gradient)	8 /20
Pool Variability: (low gradient)	6 /20
Sediment Deposition:	5 /20
Channel Flow Status:	7 /20
Channel Alteration:	8 /20
Channel Sinuosity: (low gradient)	7 /20
Bank Stability	
Left Bank:	8 /10
Right Bank:	4 /10
Vegetative Protection	
Left Bank:	8 /10
Right Bank:	3 /10
Riparian Vegetation Zone Width	
Left Bank:	10 /10
Right Bank:	2 /10
<b>Total Score:</b>	<b>83 /200</b>
<b>Overall Condition:</b>	Fair

Supplemental Information	
Vegetative Stream Shading	
Left Bank:	85%
Right Bank:	5%
Riparian Vegetative Buffer Width	
Left Bank:	18 m.
Right Bank:	6 m.
Bank Slope	
Left Bank:	not recorded
Right Bank:	not recorded
Large Woody Debris count	
Small (diameter 10 cm. to 30 cm.)	not recorded
Medium (diameter 30 cm. to 60 cm.)	not recorded
Large (diameter >60 cm.)	not recorded
Has LWD been placed?	not recorded

Management Issues
Bridge

Field Notes
endpoint





# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*75 Survey date: 7/26/06 Length: 333 feet along Johnson Creek

EPA Rapid Assessment Scores	
Epifaunal Substrate/ Available Cover:	7 /20
Pool Substrate Characterization: <i>(low gradient)</i>	6 /20
Pool Variability: <i>(low gradient)</i>	6 /20
Sediment Deposition:	5 /20
Channel Flow Status:	8 /20
Channel Alteration:	11 /20
Channel Sinuosity: <i>(low gradient)</i>	9 /20
Bank Stability Left Bank:	4 /10
Right Bank:	0 /10
Vegetative Protection Left Bank:	3 /10
Right Bank:	0 /10
Riparian Vegetation Zone Width Left Bank:	2 /10
Right Bank:	0 /10
<b>Total Score:</b>	<b>61 /200</b>
<b>Overall Condition:</b>	Poor

Supplemental Information	
Vegetative Stream Shading	
Left Bank:	0%
Right Bank:	0%
Riparian Vegetative Buffer Width	
Left Bank:	6 m.
Right Bank:	0 m.
Bank Slope	
Left Bank:	not recorded
Right Bank:	not recorded
Large Woody Debris count	
Small <i>(diameter 10 cm. to 30 cm.)</i>	not recorded
Medium <i>(diameter 30 cm. to 60 cm.)</i>	not recorded
Large <i>(diameter &gt;60 cm.)</i>	not recorded
Has LWD been placed?	not recorded

Management Issues

Field Notes
endpoint





# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*77

Survey date: 7/27/06 Length: 176 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues						
<table border="1"> <tr><td>Epifaunal Substrate/ Available Cover:</td><td>6 /20</td></tr> </table>	Epifaunal Substrate/ Available Cover:	6 /20	Vegetative Stream Shading Left Bank: 80% Right Bank: 0%					
Epifaunal Substrate/ Available Cover:	6 /20							
<table border="1"> <tr><td>Pool Substrate Characterization: (low gradient)</td><td>6 /20</td></tr> </table>	Pool Substrate Characterization: (low gradient)	6 /20	Riparian Vegetative Buffer Width Left Bank: 18 m. Right Bank: 5 m.					
Pool Substrate Characterization: (low gradient)	6 /20							
<table border="1"> <tr><td>Pool Variability: (low gradient)</td><td>6 /20</td></tr> </table>	Pool Variability: (low gradient)	6 /20	Bank Slope Left Bank: not recorded Right Bank: not recorded					
Pool Variability: (low gradient)	6 /20							
<table border="1"> <tr><td>Sediment Deposition:</td><td>7 /20</td></tr> </table>	Sediment Deposition:	7 /20	Large Woody Debris count					
Sediment Deposition:	7 /20							
<table border="1"> <tr><td>Channel Flow Status:</td><td>8 /20</td></tr> </table>	Channel Flow Status:	8 /20	Small (diameter 10 cm. to 30 cm.) not recorded					
Channel Flow Status:	8 /20							
<table border="1"> <tr><td>Channel Alteration:</td><td>12 /20</td></tr> </table>	Channel Alteration:	12 /20	Medium (diameter 30 cm. to 60 cm.) not recorded					
Channel Alteration:	12 /20							
<table border="1"> <tr><td>Channel Sinuosity: (low gradient)</td><td>8 /20</td></tr> </table>	Channel Sinuosity: (low gradient)	8 /20	Large (diameter >60 cm.) not recorded					
Channel Sinuosity: (low gradient)	8 /20							
<table border="1"> <tr><td>Bank Stability</td><td></td></tr> <tr><td>Left Bank:</td><td>8 /10</td></tr> <tr><td>Right Bank:</td><td>5 /10</td></tr> </table>	Bank Stability		Left Bank:	8 /10	Right Bank:	5 /10	Has LWD been placed? not recorded	
Bank Stability								
Left Bank:	8 /10							
Right Bank:	5 /10							
<table border="1"> <tr><td>Vegetative Protection</td><td></td></tr> <tr><td>Left Bank:</td><td>10 /10</td></tr> <tr><td>Right Bank:</td><td>2 /10</td></tr> </table>	Vegetative Protection		Left Bank:	10 /10	Right Bank:	2 /10	<b>Field Notes</b> endpoint - point taken 10 meters north of stream centerline. 6 foot blackberry restrictions	
Vegetative Protection								
Left Bank:	10 /10							
Right Bank:	2 /10							
<table border="1"> <tr><td>Riparian Vegetation Zone Width</td><td></td></tr> <tr><td>Left Bank:</td><td>10 /10</td></tr> <tr><td>Right Bank:</td><td>1 /10</td></tr> </table>	Riparian Vegetation Zone Width		Left Bank:	10 /10	Right Bank:	1 /10		
Riparian Vegetation Zone Width								
Left Bank:	10 /10							
Right Bank:	1 /10							
<table border="1"> <tr><td><b>Total Score:</b></td><td><b>89 /200</b></td></tr> <tr><td><b>Overall Condition:</b></td><td>Fair</td></tr> </table>	<b>Total Score:</b>	<b>89 /200</b>	<b>Overall Condition:</b>	Fair				
<b>Total Score:</b>	<b>89 /200</b>							
<b>Overall Condition:</b>	Fair							







# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*79

Survey date: 7/27/06 Length: 75 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues						
<table border="1"> <tr> <td>Epifaunal Substrate/ Available Cover:</td> <td>8 /20</td> </tr> </table>	Epifaunal Substrate/ Available Cover:	8 /20	Vegetative Stream Shading Left Bank: 20% Right Bank: 5%					
Epifaunal Substrate/ Available Cover:	8 /20							
<table border="1"> <tr> <td>Embeddedness: <i>(high gradient)</i></td> <td>7 /20</td> </tr> </table>	Embeddedness: <i>(high gradient)</i>	7 /20	Riparian Vegetative Buffer Width Left Bank: 6 m. Right Bank: 5 m.					
Embeddedness: <i>(high gradient)</i>	7 /20							
<table border="1"> <tr> <td>Velocity/Depth Regimes: <i>(high gradient)</i></td> <td>7 /20</td> </tr> </table>	Velocity/Depth Regimes: <i>(high gradient)</i>	7 /20	Bank Slope Left Bank: not recorded Right Bank: not recorded					
Velocity/Depth Regimes: <i>(high gradient)</i>	7 /20							
<table border="1"> <tr> <td>Sediment Deposition:</td> <td>4 /20</td> </tr> </table>	Sediment Deposition:	4 /20	Large Woody Debris count					
Sediment Deposition:	4 /20							
<table border="1"> <tr> <td>Channel Flow Status:</td> <td>8 /20</td> </tr> </table>	Channel Flow Status:	8 /20	Small <i>(diameter 10 cm. to 30 cm.)</i> not recorded					
Channel Flow Status:	8 /20							
<table border="1"> <tr> <td>Channel Alteration:</td> <td>11 /20</td> </tr> </table>	Channel Alteration:	11 /20	Medium <i>(diameter 30 cm. to 60 cm.)</i> not recorded					
Channel Alteration:	11 /20							
<table border="1"> <tr> <td>Frequency of Riffles or Bends: <i>(high gradient)</i></td> <td>7 /20</td> </tr> </table>	Frequency of Riffles or Bends: <i>(high gradient)</i>	7 /20	Large <i>(diameter &gt;60 cm.)</i> not recorded					
Frequency of Riffles or Bends: <i>(high gradient)</i>	7 /20							
<table border="1"> <tr> <td>Bank Stability</td> <td></td> </tr> <tr> <td>  Left Bank:</td> <td>5 /10</td> </tr> <tr> <td>  Right Bank:</td> <td>3 /10</td> </tr> </table>	Bank Stability		Left Bank:	5 /10	Right Bank:	3 /10	Has LWD been placed? not recorded	
Bank Stability								
Left Bank:	5 /10							
Right Bank:	3 /10							
<table border="1"> <tr> <td>Vegetative Protection</td> <td></td> </tr> <tr> <td>  Left Bank:</td> <td>3 /10</td> </tr> <tr> <td>  Right Bank:</td> <td>3 /10</td> </tr> </table>	Vegetative Protection		Left Bank:	3 /10	Right Bank:	3 /10		
Vegetative Protection								
Left Bank:	3 /10							
Right Bank:	3 /10							
<table border="1"> <tr> <td>Riparian Vegetation Zone Width</td> <td></td> </tr> <tr> <td>  Left Bank:</td> <td>1 /10</td> </tr> <tr> <td>  Right Bank:</td> <td>3 /10</td> </tr> </table>	Riparian Vegetation Zone Width		Left Bank:	1 /10	Right Bank:	3 /10		
Riparian Vegetation Zone Width								
Left Bank:	1 /10							
Right Bank:	3 /10							
<table border="1"> <tr> <td><b>Total Score:</b></td> <td><b>70 /200</b></td> </tr> <tr> <td><b>Overall Condition:</b></td> <td>Poor</td> </tr> </table>	<b>Total Score:</b>	<b>70 /200</b>	<b>Overall Condition:</b>	Poor	<b>Field Notes</b> endpoint			
<b>Total Score:</b>	<b>70 /200</b>							
<b>Overall Condition:</b>	Poor							





# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*81

Survey date: 7/27/06 Length: 54 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues						
<table border="1"> <tr><td>Epifaunal Substrate/ Available Cover:</td><td>8 /20</td></tr> </table>	Epifaunal Substrate/ Available Cover:	8 /20	Vegetative Stream Shading Left Bank: 40% Right Bank: 30%					
Epifaunal Substrate/ Available Cover:	8 /20							
<table border="1"> <tr><td>Pool Substrate Characterization: (low gradient)</td><td>7 /20</td></tr> </table>	Pool Substrate Characterization: (low gradient)	7 /20	Riparian Vegetative Buffer Width Left Bank: 4 m. Right Bank: 8 m.					
Pool Substrate Characterization: (low gradient)	7 /20							
<table border="1"> <tr><td>Pool Variability: (low gradient)</td><td>9 /20</td></tr> </table>	Pool Variability: (low gradient)	9 /20	Bank Slope Left Bank: not recorded Right Bank: not recorded					
Pool Variability: (low gradient)	9 /20							
<table border="1"> <tr><td>Sediment Deposition:</td><td>11 /20</td></tr> </table>	Sediment Deposition:	11 /20	Large Woody Debris count					
Sediment Deposition:	11 /20							
<table border="1"> <tr><td>Channel Flow Status:</td><td>8 /20</td></tr> </table>	Channel Flow Status:	8 /20	Small (diameter 10 cm. to 30 cm.) not recorded					
Channel Flow Status:	8 /20							
<table border="1"> <tr><td>Channel Alteration:</td><td>6 /20</td></tr> </table>	Channel Alteration:	6 /20	Medium (diameter 30 cm. to 60 cm.) not recorded					
Channel Alteration:	6 /20							
<table border="1"> <tr><td>Channel Sinuosity: (low gradient)</td><td>6 /20</td></tr> </table>	Channel Sinuosity: (low gradient)	6 /20	Large (diameter >60 cm.) not recorded					
Channel Sinuosity: (low gradient)	6 /20							
<table border="1"> <tr><td>Bank Stability</td><td></td></tr> <tr><td>  Left Bank:</td><td>3 /10</td></tr> <tr><td>  Right Bank:</td><td>5 /10</td></tr> </table>	Bank Stability		Left Bank:	3 /10	Right Bank:	5 /10	Has LWD been placed? not recorded	
Bank Stability								
Left Bank:	3 /10							
Right Bank:	5 /10							
<table border="1"> <tr><td>Vegetative Protection</td><td></td></tr> <tr><td>  Left Bank:</td><td>3 /10</td></tr> <tr><td>  Right Bank:</td><td>3 /10</td></tr> </table>	Vegetative Protection		Left Bank:	3 /10	Right Bank:	3 /10		
Vegetative Protection								
Left Bank:	3 /10							
Right Bank:	3 /10							
<table border="1"> <tr><td>Riparian Vegetation Zone Width</td><td></td></tr> <tr><td>  Left Bank:</td><td>1 /10</td></tr> <tr><td>  Right Bank:</td><td>3 /10</td></tr> </table>	Riparian Vegetation Zone Width		Left Bank:	1 /10	Right Bank:	3 /10		
Riparian Vegetation Zone Width								
Left Bank:	1 /10							
Right Bank:	3 /10							
<table border="1"> <tr><td><b>Total Score:</b></td><td><b>73 /200</b></td></tr> <tr><td><b>Overall Condition:</b></td><td>Poor</td></tr> </table>	<b>Total Score:</b>	<b>73 /200</b>	<b>Overall Condition:</b>	Poor	<b>Field Notes</b> endpoint			
<b>Total Score:</b>	<b>73 /200</b>							
<b>Overall Condition:</b>	Poor							





## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*83

Survey date: 7/31/06 Length: 43 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues
Epifaunal Substrate/ Available Cover: 11 /20	Vegetative Stream Shading Left Bank: 40% Right Bank: 40%	
Pool Substrate Characterization: 12 /20 <i>(low gradient)</i>	Riparian Vegetative Buffer Width Left Bank: 13 m. Right Bank: 10 m.	
Pool Variability: 6 /20 <i>(low gradient)</i>	Bank Slope Left Bank: not recorded Right Bank: not recorded	
Sediment Deposition: 13 /20	Large Woody Debris count Small ( <i>diameter 10 cm. to 30 cm.</i> ) not recorded	
Channel Flow Status: 8 /20	Medium ( <i>diameter 30 cm. to 60 cm.</i> ) not recorded	
Channel Alteration: 13 /20	Large ( <i>diameter &gt;60 cm.</i> ) not recorded	
Channel Sinuosity: 8 /20 <i>(low gradient)</i>	Has LWD been placed? not recorded	
Bank Stability Left Bank: 6 /10 Right Bank: 4 /10		
Vegetative Protection Left Bank: 4 /10 Right Bank: 4 /10		
Riparian Vegetation Zone Width Left Bank: 6 /10 Right Bank: 5 /10		
<b>Total Score: 100 /200</b> <b>Overall Condition:</b> Fair	<b>Field Notes</b> endpoint- bridge counted as all of percent coverage	





## Riparian Habitat Condition Assessment

### Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*85

Survey date: 7/31/06 Length: 116 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues
Epifaunal Substrate/ Available Cover: 14 /20	Vegetative Stream Shading Left Bank: 85% Right Bank: 75%	
Embeddedness: 14 /20 <i>(high gradient)</i>	Riparian Vegetative Buffer Width Left Bank: 10 m. Right Bank: 6 m.	
Velocity/Depth Regimes: 9 /20 <i>(high gradient)</i>	Bank Slope Left Bank: not recorded Right Bank: not recorded	
Sediment Deposition: 12 /20	Large Woody Debris count Small ( <i>diameter 10 cm. to 30 cm.</i> ) not recorded	
Channel Flow Status: 8 /20	Medium ( <i>diameter 30 cm. to 60 cm.</i> ) not recorded	
Channel Alteration: 7 /20	Large ( <i>diameter &gt;60 cm.</i> ) not recorded	
Frequency of Riffles or Bends: 9 /20 <i>(high gradient)</i>	Has LWD been placed? not recorded	
Bank Stability Left Bank: 8 /10 Right Bank: 4 /10	<b>Field Notes</b>	
Vegetative Protection Left Bank: 8 /10 Right Bank: 5 /10	endpoint	
Riparian Vegetation Zone Width Left Bank: 10 /10 Right Bank: 2 /10		
<b>Total Score: 110 /200</b> <b>Overall Condition:</b> Fair		





# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*88

Survey date: 7/31/06 Length: 231 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues
Epifaunal Substrate/ Available Cover: 13 /20	Vegetative Stream Shading Left Bank: 60% Right Bank: 70%	
Pool Substrate Characterization: 12 /20 <i>(low gradient)</i>	Riparian Vegetative Buffer Width Left Bank: 7 m. Right Bank: 4 m.	
Pool Variability: 11 /20 <i>(low gradient)</i>	Bank Slope Left Bank: not recorded Right Bank: not recorded	
Sediment Deposition: 8 /20	Large Woody Debris count	
Channel Flow Status: 8 /20	Small ( <i>diameter 10 cm. to 30 cm.</i> ) not recorded	
Channel Alteration: 7 /20	Medium ( <i>diameter 30 cm. to 60 cm.</i> ) not recorded	
Channel Sinuosity: 6 /20 <i>(low gradient)</i>	Large ( <i>diameter &gt;60 cm.</i> ) not recorded	
Bank Stability Left Bank: 5 /10 Right Bank: 4 /10	Has LWD been placed? not recorded	
Vegetative Protection Left Bank: 3 /10 Right Bank: 2 /10		
Riparian Vegetation Zone Width Left Bank: 4 /10 Right Bank: 2 /10		
<b>Total Score: 85 /200</b> <b>Overall Condition:</b> Fair	<b>Field Notes</b> endpoint- overpass counts 50% of canopy cover	





# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*90

Survey date: 7/31/06 Length: 21 feet along Johnson Creek

EPA Rapid Assessment Scores	Supplemental Information	Management Issues
Epifaunal Substrate/ Available Cover: 13 /20	Vegetative Stream Shading Left Bank: 90% Right Bank: 80%	
Pool Substrate Characterization: 11 /20 <i>(low gradient)</i>	Riparian Vegetative Buffer Width Left Bank: 6 m. Right Bank: 10 m.	
Pool Variability: 6 /20 <i>(low gradient)</i>	Bank Slope Left Bank: not recorded Right Bank: not recorded	
Sediment Deposition: 12 /20	Large Woody Debris count	
Channel Flow Status: 8 /20	Small <i>(diameter 10 cm. to 30 cm.)</i> not recorded	
Channel Alteration: 9 /20	Medium <i>(diameter 30 cm. to 60 cm.)</i> not recorded	
Channel Sinuosity: 13 /20 <i>(low gradient)</i>	Large <i>(diameter &gt;60 cm.)</i> not recorded	
Bank Stability Left Bank: 5 /10 Right Bank: 2 /10	Has LWD been placed? not recorded	
Vegetative Protection Left Bank: 5 /10 Right Bank: 3 /10	<b>Field Notes</b> endpoint	
Riparian Vegetation Zone Width Left Bank: 9 /10 Right Bank: 2 /10		
<b>Total Score: 98 /200</b> <b>Overall Condition:</b> Fair		





# Riparian Habitat Condition Assessment

## Springwater Corridor

Report Date: 4/12/2007

Reach ID: rSCOR\*99 Survey date: 8/2/06 Length: 78 feet along Johnson Creek

EPA Rapid Assessment Scores	
Epifaunal Substrate/ Available Cover:	16 /20
Embeddedness: <i>(high gradient)</i>	11 /20
Velocity/Depth Regimes: <i>(high gradient)</i>	9 /20
Sediment Deposition:	8 /20
Channel Flow Status:	8 /20
Channel Alteration:	12 /20
Frequency of Riffles or Bends: <i>(high gradient)</i>	9 /20
Bank Stability	
Left Bank:	5 /10
Right Bank:	4 /10
Vegetative Protection	
Left Bank:	5 /10
Right Bank:	6 /10
Riparian Vegetation Zone Width	
Left Bank:	2 /10
Right Bank:	10 /10
<b>Total Score:</b>	<b>105 /200</b>
<b>Overall Condition:</b>	Fair

Supplemental Information	
Vegetative Stream Shading	
Left Bank:	10%
Right Bank:	80%
Riparian Vegetative Buffer Width	
Left Bank:	12 m.
Right Bank:	6 m.
Bank Slope	
Left Bank:	not recorded
Right Bank:	not recorded
Large Woody Debris count	
Small ( <i>diameter 10 cm. to 30 cm.</i> )	not recorded
Medium ( <i>diameter 30 cm. to 60 cm.</i> )	not recorded
Large ( <i>diameter &gt;60 cm.</i> )	not recorded
Has LWD been placed?	not recorded

Management Issues

**Field Notes**  
 endpoint- glide-1.2 foot pool- moderate bank angle- Narrow valley, but not very constrained- undercut banks and lwd

