

**Appendix 7.7:** Fish Assemblage Integrity Index (FAII) scores calculated for the selected sites in the Klip and Suikerbosrand River (February'98).

	SPECIES	Tolerance rating										Health rating										SCORE										
		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	
EXPECTED	<i>Austroglanis sclateri</i>					3.1	3.1	3.1	3.1	3.1	3.1					5	5	5	5	5	5	5	0.0	0.0	0.0	0.0	15.5	15.5	15.5	15.5	15.5	15.5
	<i>Labeobarbus aeneus</i>		2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0	5	5	5	5	5	5	5	5	5	5	0.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
	<i>Barbus anoplus</i>	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5	5	5	5	5	5	5	5	5	5	5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
	<i>labeobarbus kimberleyensis</i>					4.3	4.3	4.3	4.3	4.3	4.3	0	0	0	0	5	5	5	5	5	5	5	0.0	0.0	0.0	0.0	21.5	21.5	21.5	21.5	21.5	21.5
	<i>Barbus pallidus</i>	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5	5	5	5	5	5	5	5	5	5	5	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
	<i>Barbus paludinosus</i>	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	5	5	5	5	5	5	5	5	5	5	5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	<i>Clarias gariepinus</i>	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	5	5	5	5	5	5	5	5	5	5	5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	<i>Labeo capensis</i>				2.8	2.8	2.8	2.8	2.8	2.8	2.8	0	0	5	5	5	5	5	5	5	5	5	0.0	0.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
	<i>Labeo umbratus</i>				1.9	1.9	1.9	1.9	1.9	1.9	1.9	0	0	0	5	5	5	5	5	5	5	5	0.0	0.0	0.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5
	<i>Pseudocrenilabrus philander</i>	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	5	5	5	5	5	5	5	5	5	5	5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
<i>Tilapia sparmanii</i>	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	5	5	5	5	5	5	5	5	5	5	5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
												<b>Expected FAII Score</b>										<b>51.0</b>	<b>63.0</b>	<b>77.0</b>	<b>86.5</b>	<b>123.5</b>	<b>123.5</b>	<b>123.5</b>	<b>123.5</b>	<b>123.5</b>	<b>123.5</b>	
OBSERVED	<i>Austroglanis sclateri</i>					0	0	0	3.1	0	3.1	0	0	0	0	0	0	5	0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	0.0	15.5		
	<i>Labeobarbus aeneus</i>		0	0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0	0	0	5	1	1	1	1	3	1	0.0	0.0	0.0	12.0	2.4	2.4	2.4	2.4	7.2	2.4	
	<i>Barbus anoplus</i>	0	0	1.8	0	1.8	1.8	1.8	1.8	0	0	0	0	5	0	5	5	5	0	0	0.0	0.0	9.0	0.0	9.0	9.0	9.0	9.0	0.0	0.0		
	<i>Labeobarbus kimberleyensis</i>					0	0	0	0	0	4.3	0	0	0	0	0	0	0	0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5		
	<i>Barbus pallidus</i>	0	0	0	0	0	0	0	0	0	3.4	0	0	0	0	0	0	0	0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0		
	<i>Barbus paludinosus</i>	0	0	1.6	0	1.6	0	1.6	1.6	0	0	0	0	5	0	5	0	5	5	0	0	0.0	0.0	8.0	0.0	8.0	0.0	8.0	8.0	0.0	0.0	
	<i>Clarias gariepinus</i>	0	0	1.2	0	1.2	1.2	0	0	0	1.2	0	0	5	0	5	1	0	0	0	5	0.0	0.0	6.0	0.0	6.0	1.2	0.0	0.0	0.0	6.0	
	<i>Labeo capensis</i>				0	0	2.8	2.8	2.8	2.8	2.8	0	0	0	0	5	5	1	3	5	1	0.0	0.0	0.0	0.0	14.0	14.0	2.8	8.4	14.0	2.8	
	<i>Labeo umbratus</i>				1.9	1.9	1.9	1.9	0	0	1.9	0	0	0	1	1	5	1	0	0	1	0.0	0.0	0.0	1.9	1.9	9.5	1.9	0.0	0.0	1.9	
	<i>Pseudocrenilabrus philander</i>	0	0	1.1	0	1.1	1.1	1.1	1.1	1.1	1.1	0	0	5	0	5	5	3	5	5	5	0.0	0.0	5.5	0.0	5.5	5.5	3.3	5.5	5.5	5.5	
<i>Tilapia sparmanii</i>	0	1.1	0	0	1.1	1.1	1.1	1.1	0	0	0	5	0	0	5	5	5	0	0	0.0	5.5	0.0	0.0	5.5	5.5	5.5	5.5	0.0	0.0			
												<b>Observed FAII score</b>										<b>0.0</b>	<b>5.5</b>	<b>28.5</b>	<b>13.9</b>	<b>52.3</b>	<b>47.1</b>	<b>32.9</b>	<b>54.3</b>	<b>26.7</b>	<b>72.6</b>	
												<b>Relative FAII Score (%)</b>										<b>0.0</b>	<b>8.7</b>	<b>37.0</b>	<b>16.1</b>	<b>42.3</b>	<b>38.1</b>	<b>26.6</b>	<b>44.0</b>	<b>21.6</b>	<b>58.8</b>	