

**Appendix 7.9:** Fish Assemblage Integrity Index (FAII) scores calculated for the selected sites in the Klip and Suikerbosrand River (February'99 survey).

	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	0	0	0	0	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	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	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	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	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	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	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	2.8	0	0	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	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	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	
<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		
		<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	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0	0	0	0	0	0	5	0	0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.0			
	<i>Labeobarbus aeneus</i>	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0	0	0	5	1	1	5	1	1	1	0.0	0.0	0.0	12.0	2.4	2.4	12.0	2.4	2.4	2.4	
	<i>Barbus anoplus</i>	0.0	0.0	1.8	1.8	1.8	0.0	1.8	0.0	0.0	1.8	0	0	1	5	5	0	5	0	0	5	0.0	0.0	1.8	9.0	9.0	0.0	9.0	0.0	0.0	9.0	
	<i>Labeobarbus kimberleyensis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0	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 pallidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Barbus paludinosus</i>	0.0	0.0	0.0	0.0	1.6	0.0	1.6	0.0	0.0	0.0	0	0	0	0	5	0	5	0	0	0	0.0	0.0	0.0	0.0	8.0	0.0	8.0	0.0	0.0	0.0	
	<i>Clarias gariepinus</i>	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0	0	0	5	5	5	5	5	5	1	0.0	0.0	0.0	6.0	6.0	6.0	6.0	6.0	6.0	1.2	
	<i>Labeo capensis</i>	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	0	0	0	0	5	5	3	5	3	1	0.0	0.0	0.0	0.0	14.0	14.0	8.4	14.0	8.4	2.8	
	<i>Labeo umbratus</i>	0.0	0.0	0.0	0.0	1.9	0.0	1.9	0.0	0.0	1.9	0	0	0	0	5	0	5	0	0	1	0.0	0.0	0.0	0.0	9.5	0.0	9.5	0.0	0.0	1.9	
	<i>Pseudocrenilabrus philander</i>	0.0	0.0	0.0	1.1	1.1	0.0	1.1	1.1	0.0	1.1	0	0	0	5	5	0	5	5	0	5	0.0	0.0	0.0	5.5	5.5	0.0	5.5	5.5	0.0	5.5	
<i>Tilapia sparmanii</i>	0.0	1.1	0.0	1.1	1.1	0.0	1.1	0.0	0.0	1.1	0	5	0	5	5	0	5	0	0	5	0.0	5.5	0.0	5.5	5.5	0.0	5.5	0.0	0.0	5.5		
		<b>Observed FAII score</b>										<b>0.0</b>	<b>5.5</b>	<b>1.8</b>	<b>38.0</b>	<b>59.9</b>	<b>22.4</b>	<b>63.9</b>	<b>43.4</b>	<b>16.8</b>	<b>45.3</b>											
		<b>Relative FAII Score (%)</b>										<b>0.0</b>	<b>8.7</b>	<b>2.3</b>	<b>43.9</b>	<b>48.5</b>	<b>18.1</b>	<b>51.7</b>	<b>35.1</b>	<b>13.6</b>	<b>36.7</b>											