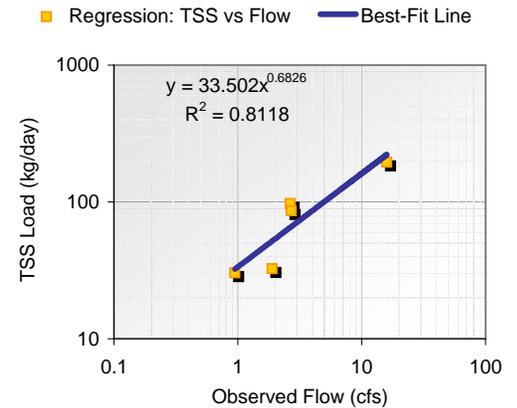
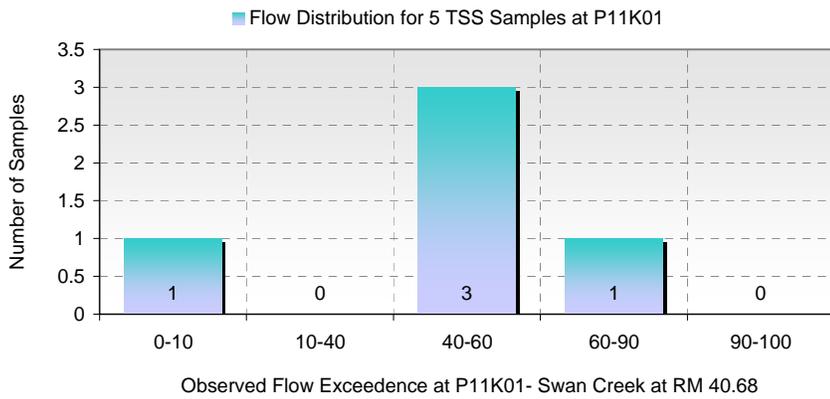


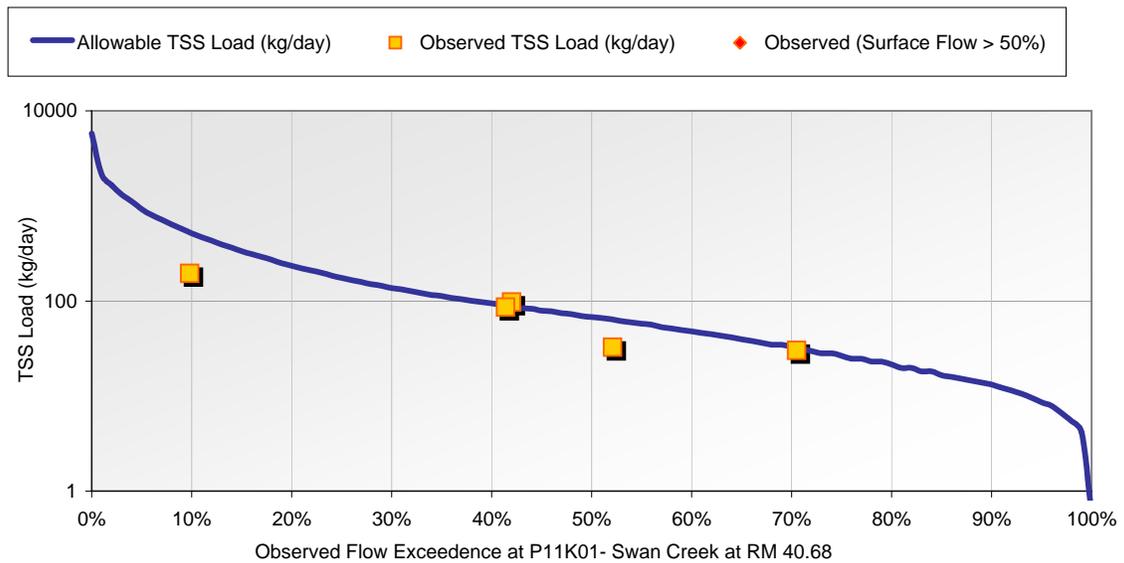
## **Appendix B: Alternative TSS TMDLs**

[1: TSS at P11K01 (mg/L)] -vs- [1: Flow at P11K01- Swan Creek at RM 40.68 (cfs)]

1. Data Assessment and Trend Confirmation



2. Load Exceedence Analysis

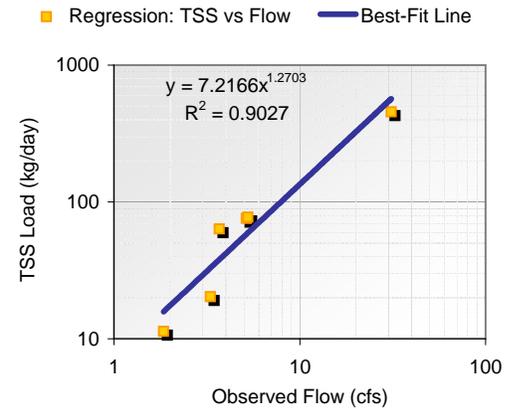
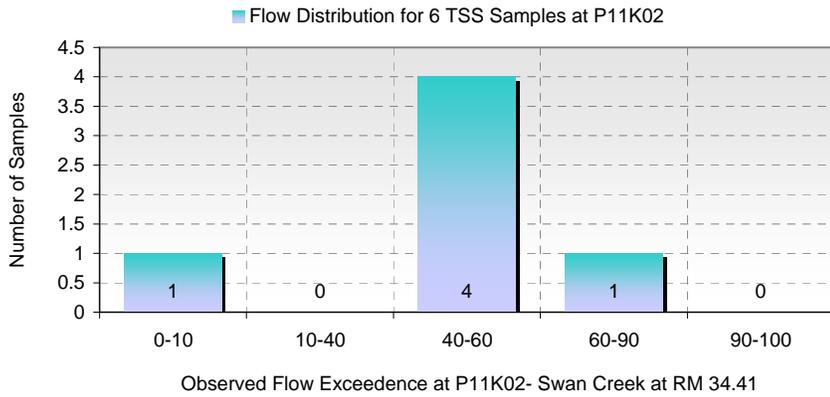


3. Estimated TMDL Loads by Flow Exceedence Range

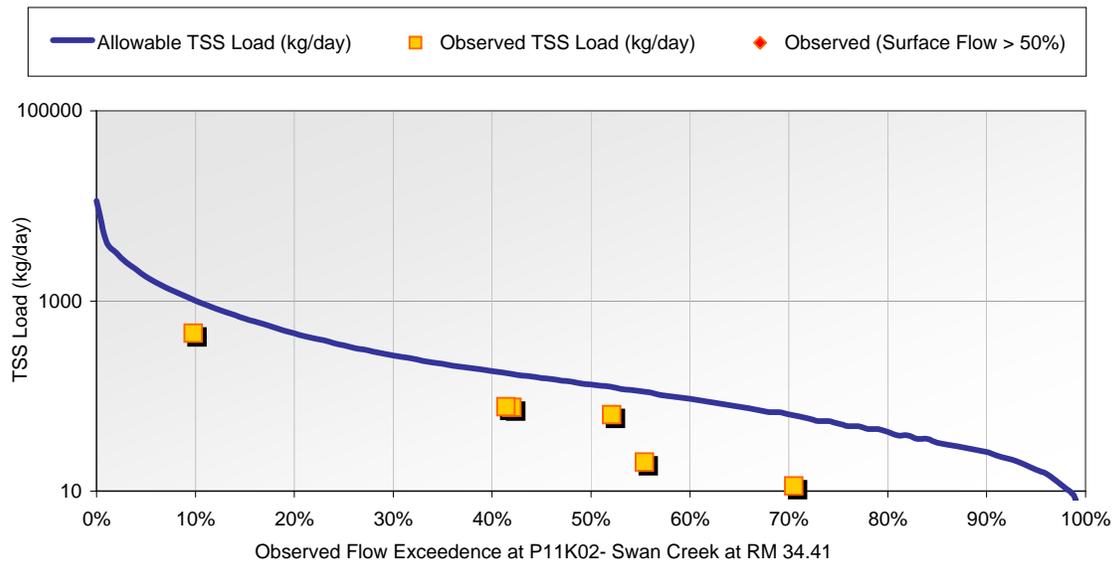
Flow Exceedence Ranges	5-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	28.00	924.8	195.1	0.0%
10-40	0	5.30	175.1	No Data	No Data
40-60	3	2.05	67.7	85.9	21.2%
60-90	1	0.80	26.4	30.2	12.6%
90-100	0	0.26	8.6	No Data	No Data

[\[2: TSS at P11K02 \(mg/L\)\]](#) -vs- [\[2: Flow at P11K02- Swan Creek at RM 34.41 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

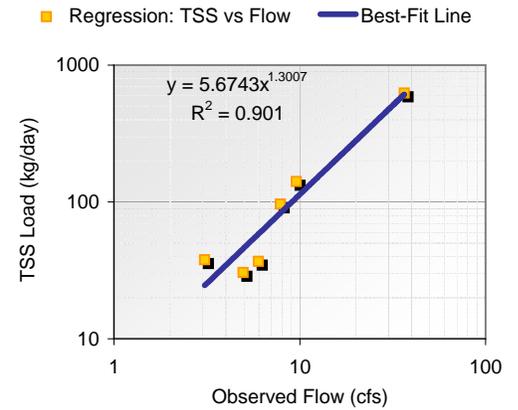
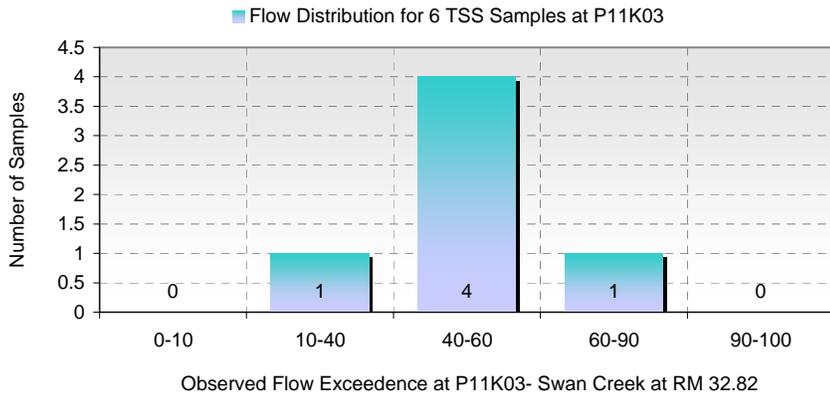


**3. Estimated TMDL Loads by Flow Exceedence Range**

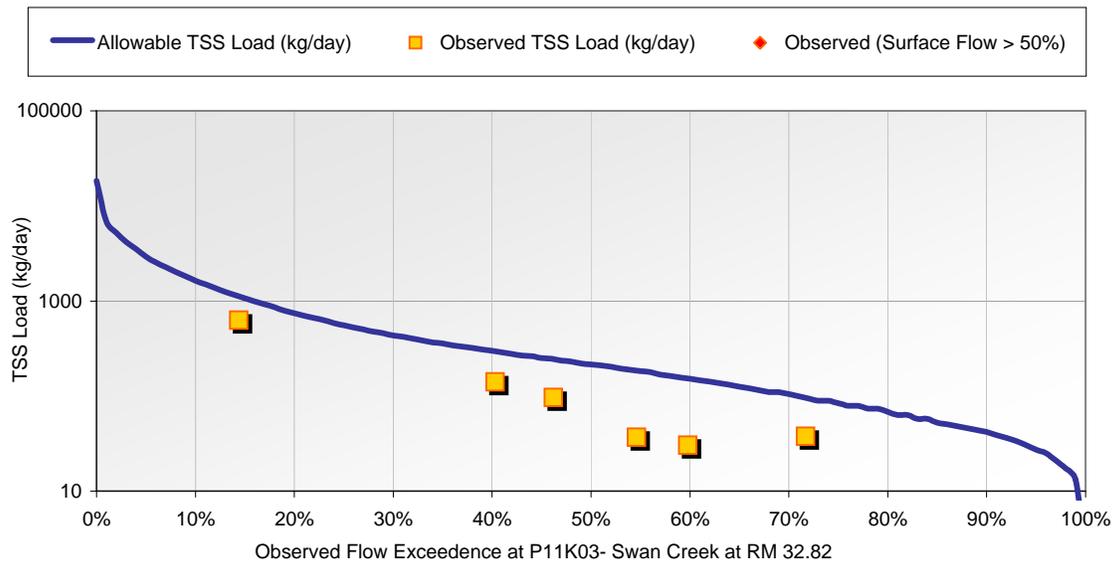
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	54.51	1800.3	455.8	0.0%
10-40	0	10.32	340.8	No Data	No Data
40-60	4	3.99	131.8	69.5	0.0%
60-90	1	1.56	51.4	11.3	0.0%
90-100	0	0.51	16.7	No Data	No Data

[\[3: TSS at P11K03 \(mg/L\)\]](#) -vs- [\[3: Flow at P11K03- Swan Creek at RM 32.82 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

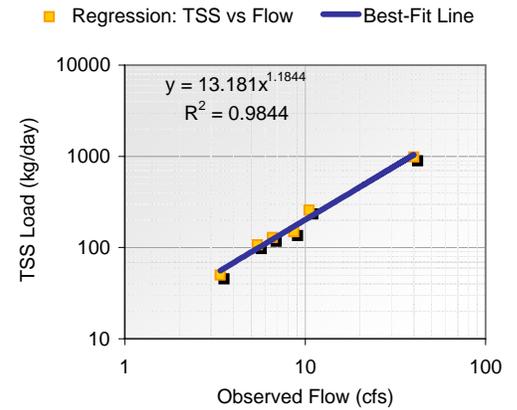
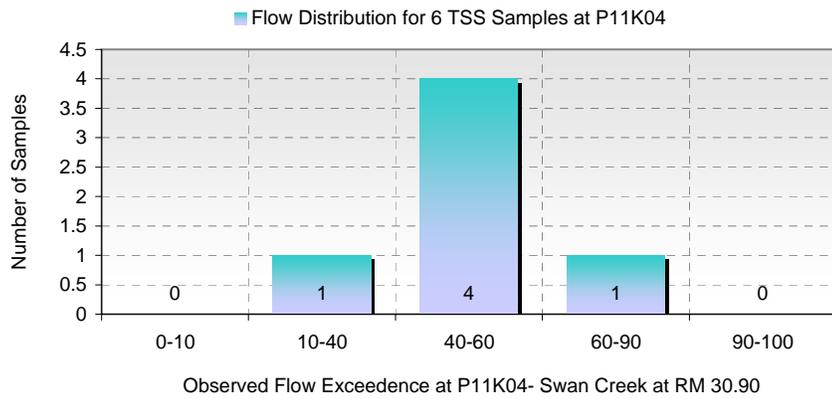


**3. Estimated TMDL Loads by Flow Exceedence Range**

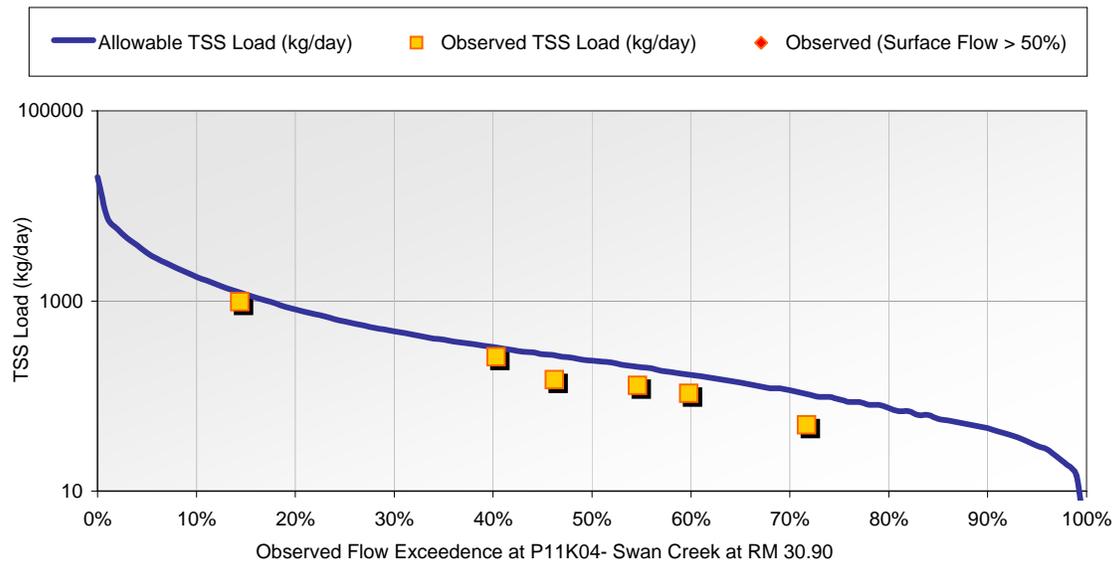
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	0	95.95	2934.3	No Data	No Data
10-40	1	18.16	555.4	625.0	11.1%
40-60	4	7.02	214.8	66.5	0.0%
60-90	1	2.74	83.8	37.7	0.0%
90-100	0	0.89	27.2	No Data	No Data

[\[4: TSS at P11K04 \(mg/L\)\]](#) -vs- [\[4: Flow at P11K04- Swan Creek at RM 30.90 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

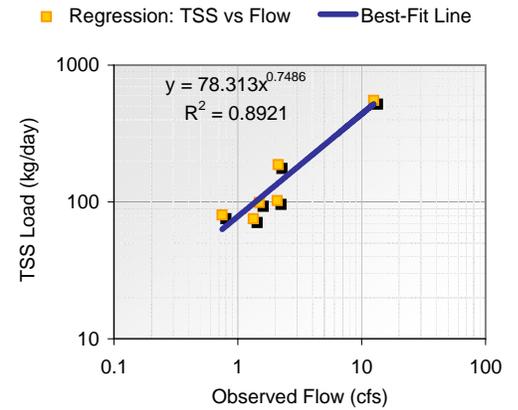
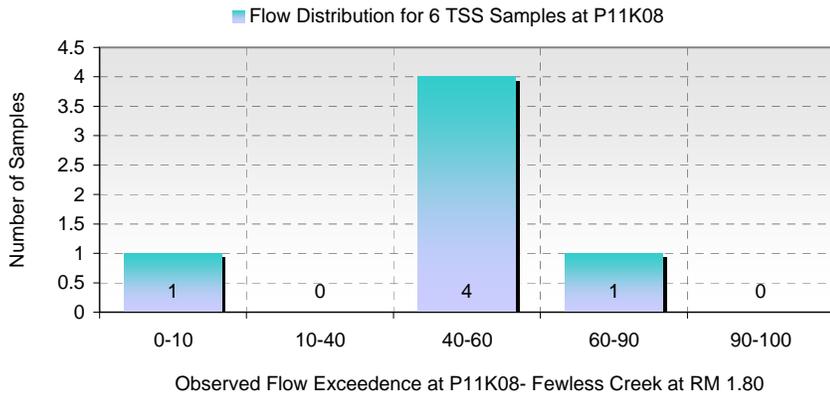


**3. Estimated TMDL Loads by Flow Exceedence Range**

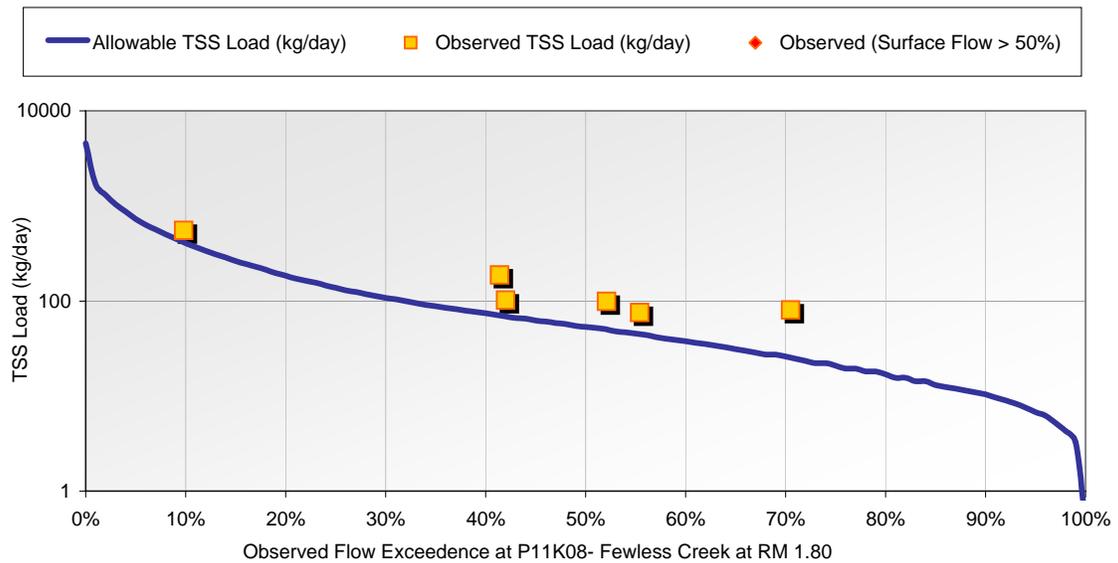
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	0	105.28	3219.7	No Data	No Data
10-40	1	19.93	609.4	979.7	37.8%
40-60	4	7.71	235.7	138.4	0.0%
60-90	1	3.01	92.0	49.7	0.0%
90-100	0	0.98	29.9	No Data	No Data

**[5: TSS at P11K08 (mg/L)] -vs- [5: Flow at P11K08- Fewless Creek at RM 1.80 (cfs)]**

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

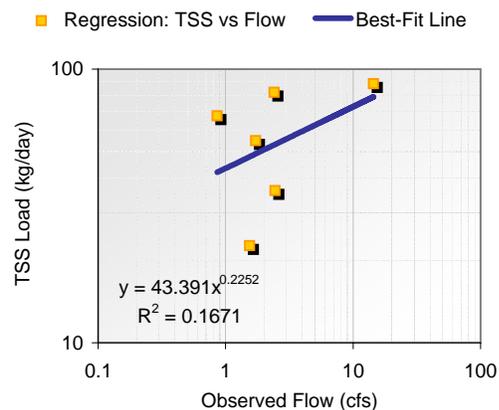
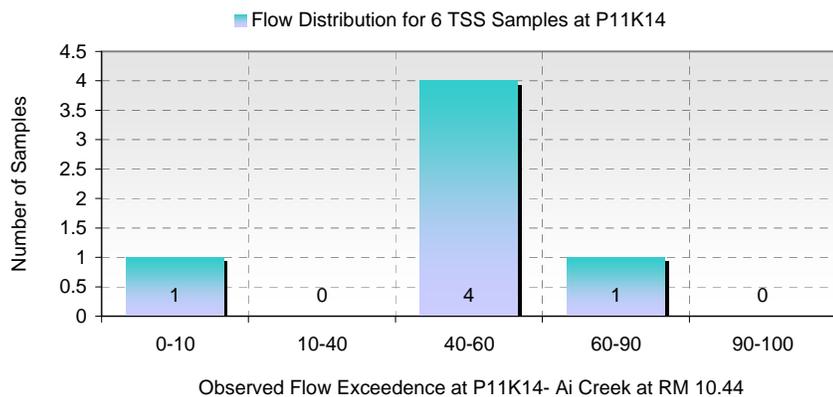


**3. Estimated TMDL Loads by Flow Exceedence Range**

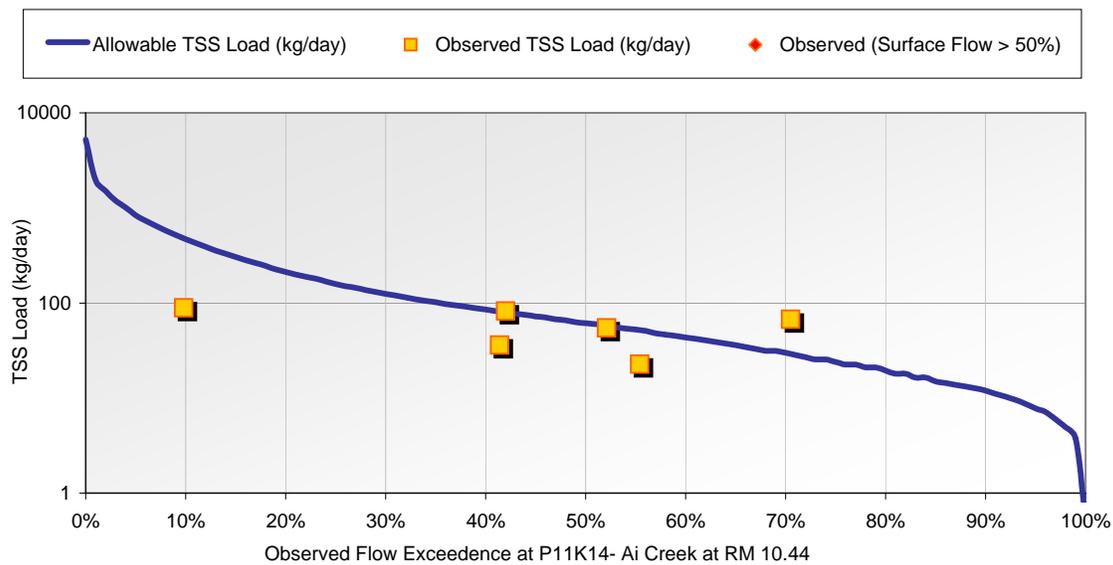
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	22.03	727.5	552.6	0.0%
10-40	0	4.17	137.7	No Data	No Data
40-60	4	1.61	53.3	100.4	46.9%
60-90	1	0.63	20.8	80.5	74.2%
90-100	0	0.20	6.8	No Data	No Data

**[6: TSS at P11K14 (mg/L)] -vs- [6: Flow at P11K14- Ai Creek at RM 10.44 (cfs)]**

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedance Analysis**

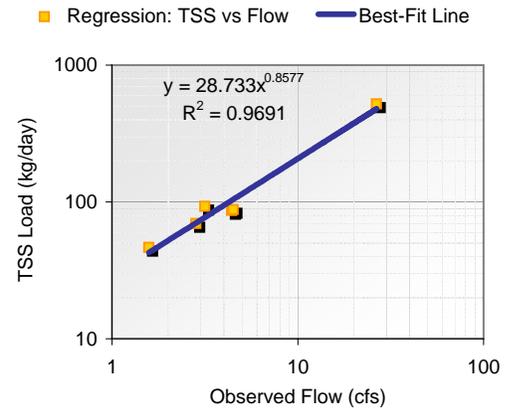
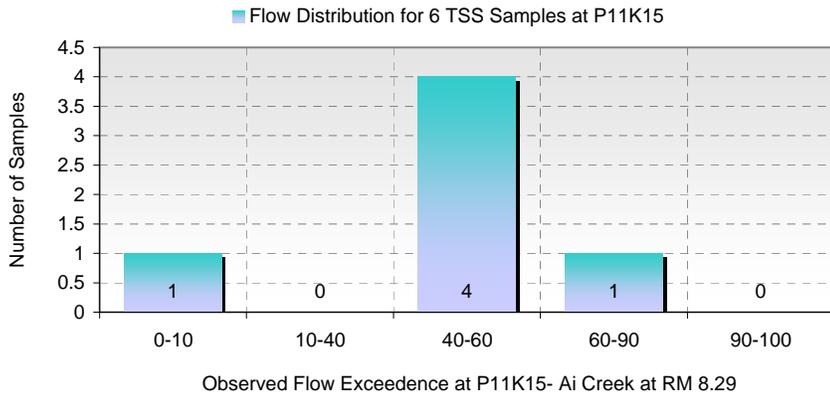


**3. Estimated TMDL Loads by Flow Exceedance Range**

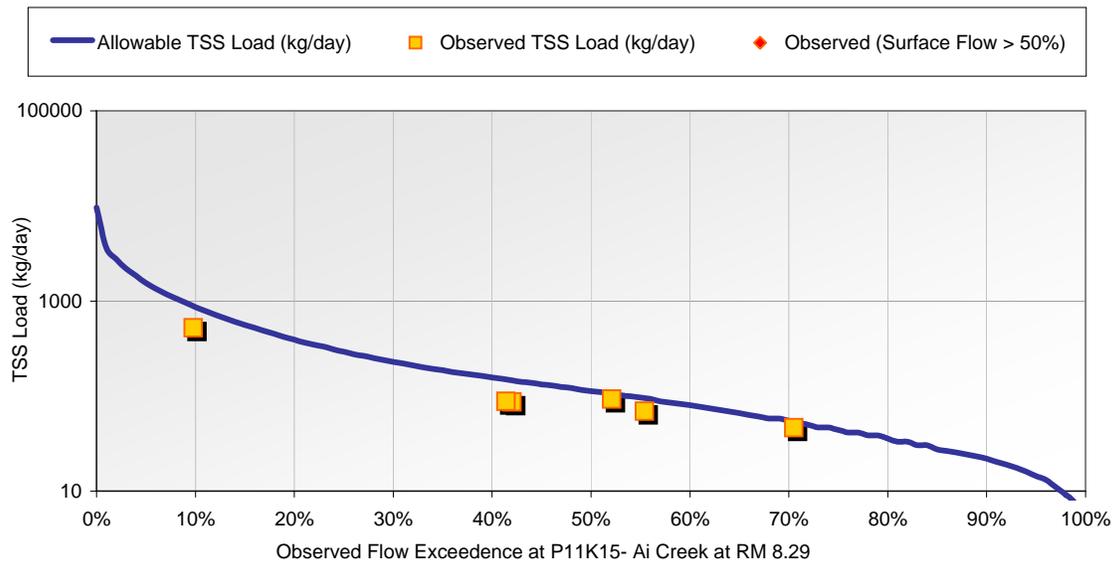
Flow Exceedance Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	25.39	838.5	88.5	0.0%
10-40	0	4.81	158.7	No Data	No Data
40-60	4	1.86	61.4	45.4	0.0%
60-90	1	0.73	24.0	67.4	64.5%
90-100	0	0.24	7.8	No Data	No Data

[7: TSS at P11K15 (mg/L)] -vs- [7: Flow at P11K15- Ai Creek at RM 8.29 (cfs)]

1. Data Assessment and Trend Confirmation



2. Load Exceedence Analysis

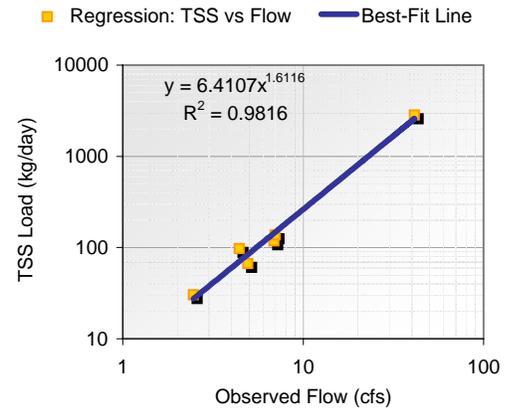
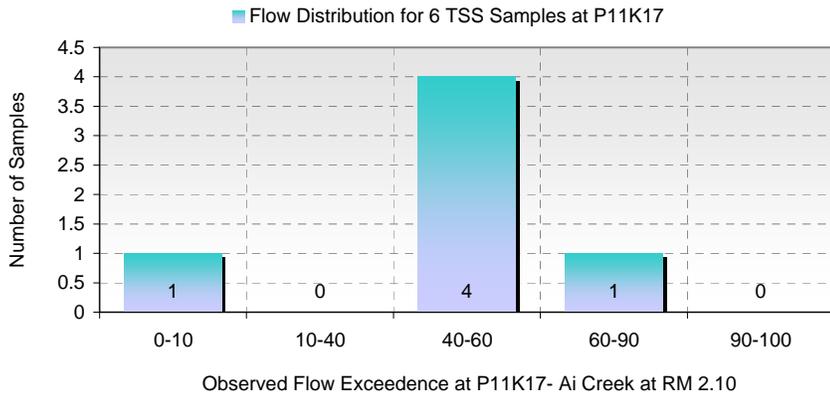


3. Estimated TMDL Loads by Flow Exceedence Range

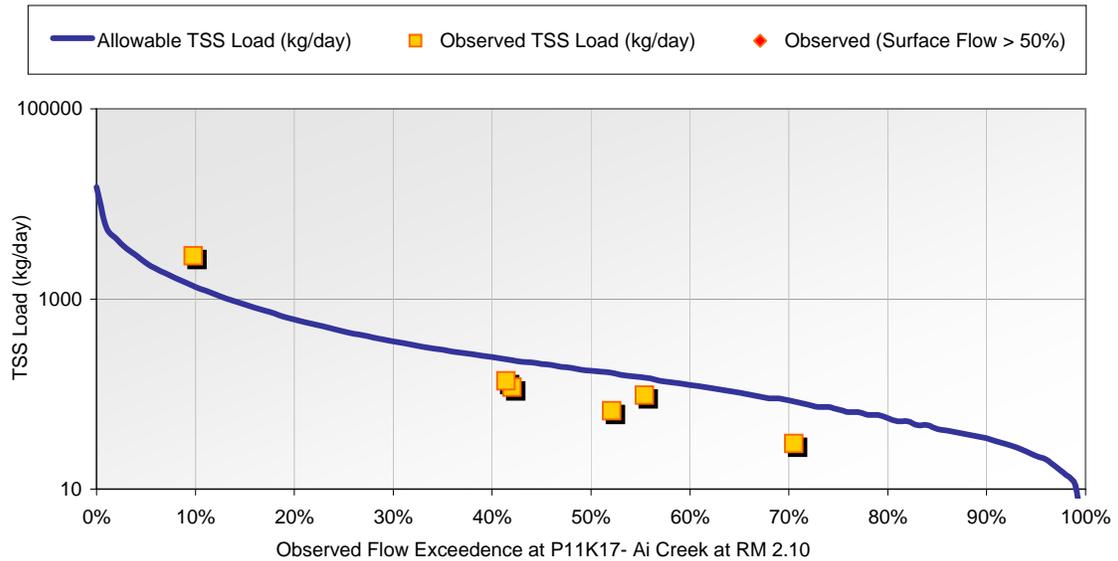
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	46.67	1541.3	520.3	0.0%
10-40	0	8.83	291.8	No Data	No Data
40-60	4	3.42	112.8	87.3	0.0%
60-90	1	1.33	44.0	46.5	5.3%
90-100	0	0.43	14.3	No Data	No Data

[\[8: TSS at P11K17 \(mg/L\)\]](#) -vs- [\[8: Flow at P11K17- Ai Creek at RM 2.10 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

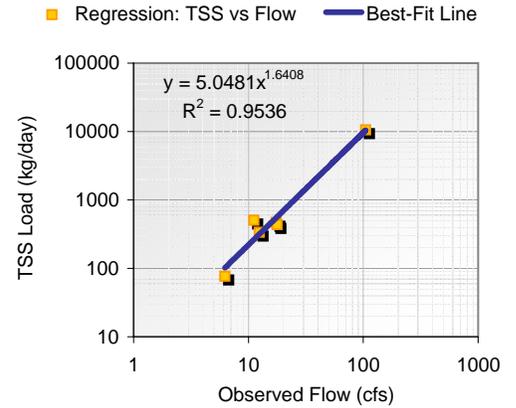
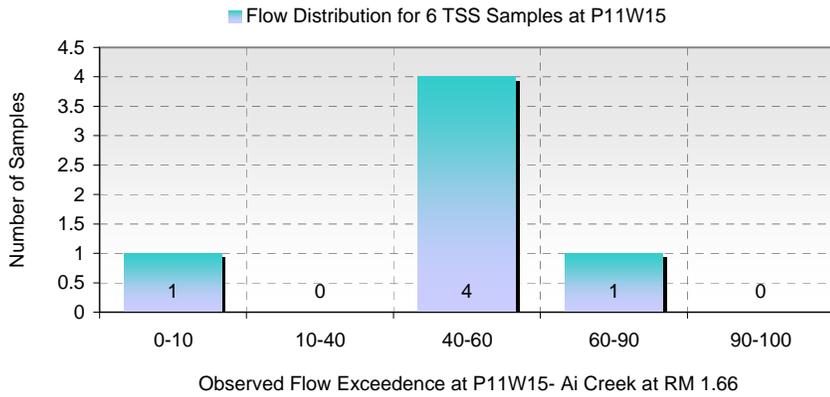


**3. Estimated TMDL Loads by Flow Exceedence Range**

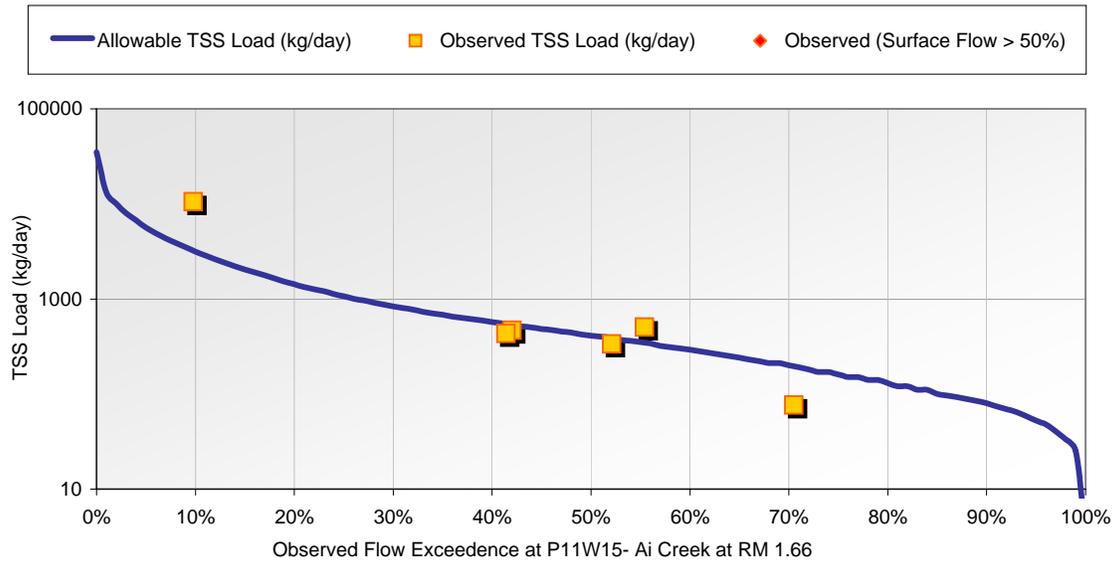
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	72.80	2404.5	2840.9	15.4%
10-40	0	13.78	455.1	No Data	No Data
40-60	4	5.33	176.0	107.7	0.0%
60-90	1	2.08	68.7	30.2	0.0%
90-100	0	0.68	22.3	No Data	No Data

[\[9: TSS at P11W15 \(mg/L\)\]](#) -vs- [\[9: Flow at P11W15- Ai Creek at RM 1.66 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedance Analysis**

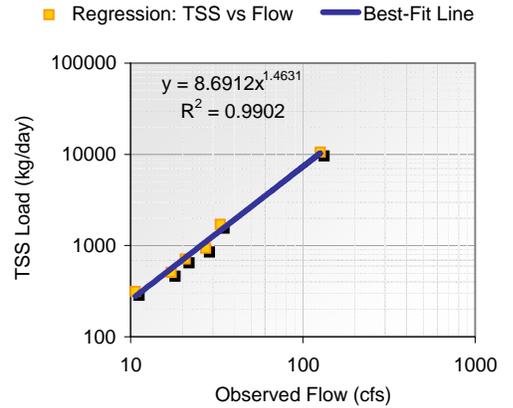
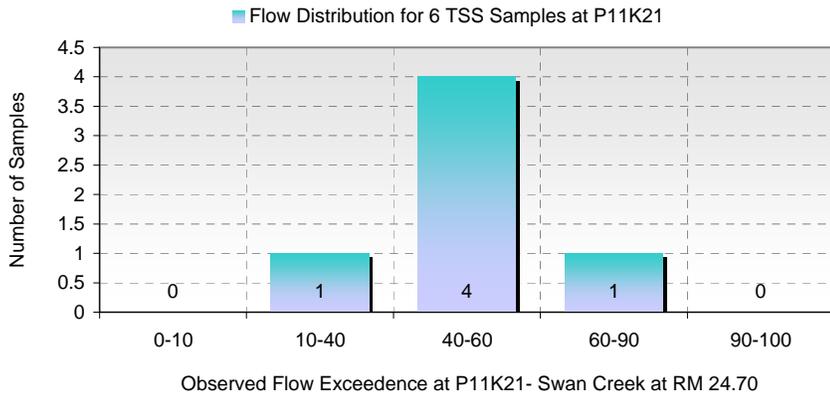


**3. Estimated TMDL Loads by Flow Exceedance Range**

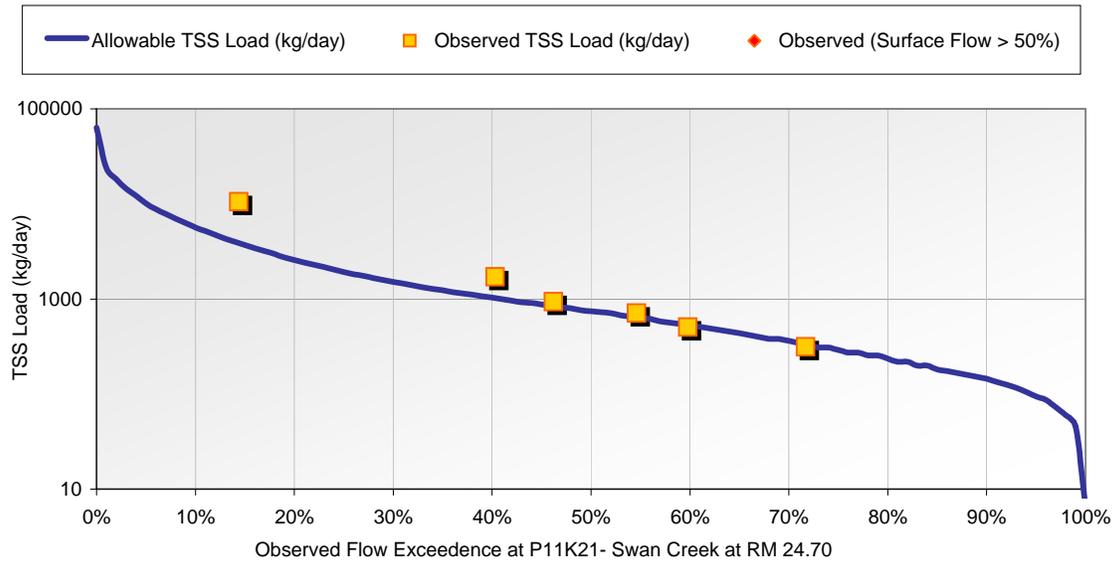
Flow Exceedance Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	184.05	5628.8	10516.9	46.5%
10-40	0	34.84	1065.4	No Data	No Data
40-60	4	13.48	412.1	451.5	8.7%
60-90	1	5.26	160.8	76.4	0.0%
90-100	0	1.71	52.3	No Data	No Data

**[10: TSS at P11K21 (mg/L)] -vs- [10: Flow at P11K21- Swan Creek at RM 24.70 (cfs)]**

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

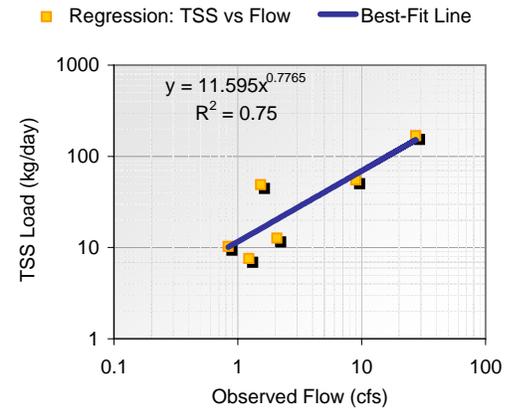
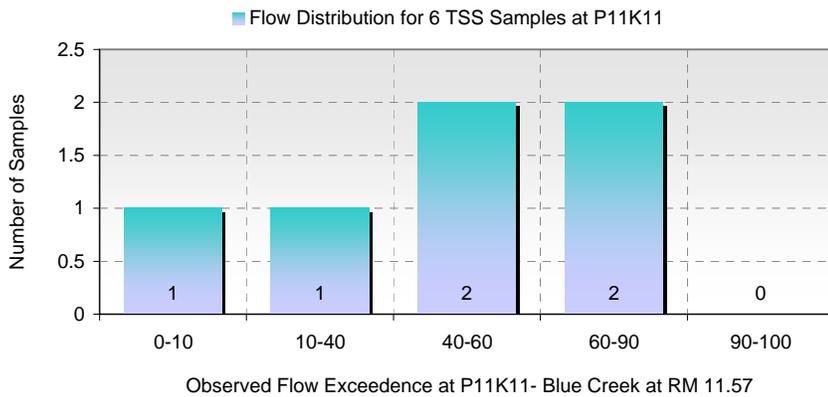


**3. Estimated TMDL Loads by Flow Exceedence Range**

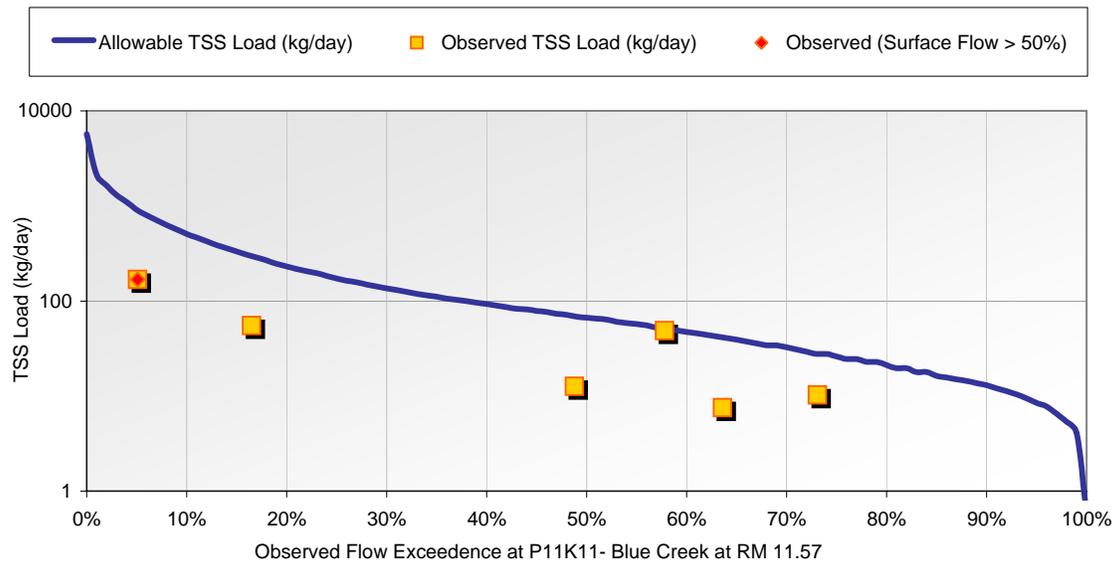
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	0	332.27	10161.4	No Data	No Data
10-40	1	62.89	1923.4	10512.8	81.7%
40-60	4	24.33	744.0	823.1	9.6%
60-90	1	9.49	290.3	313.6	7.4%
90-100	0	3.09	94.4	No Data	No Data

[11: TSS at P11K11 (mg/L)] -vs- [11: Flow at P11K11- Blue Creek at RM 11.57 (cfs)]

1. Data Assessment and Trend Confirmation



2. Load Exceedence Analysis

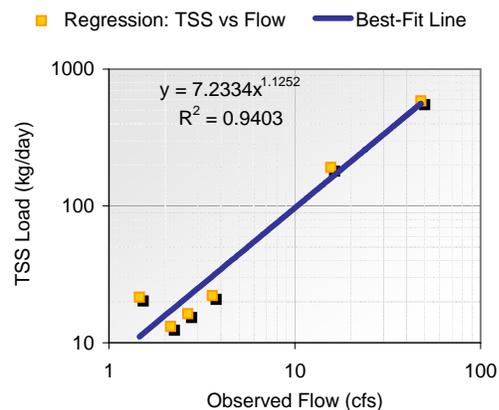
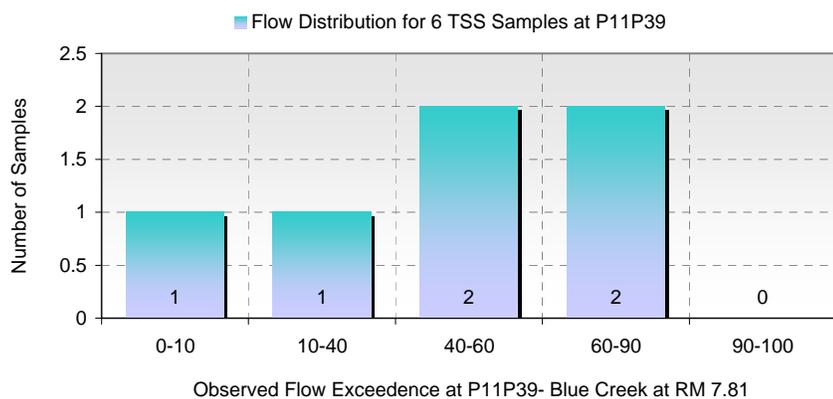


3. Estimated TMDL Loads by Flow Exceedence Range

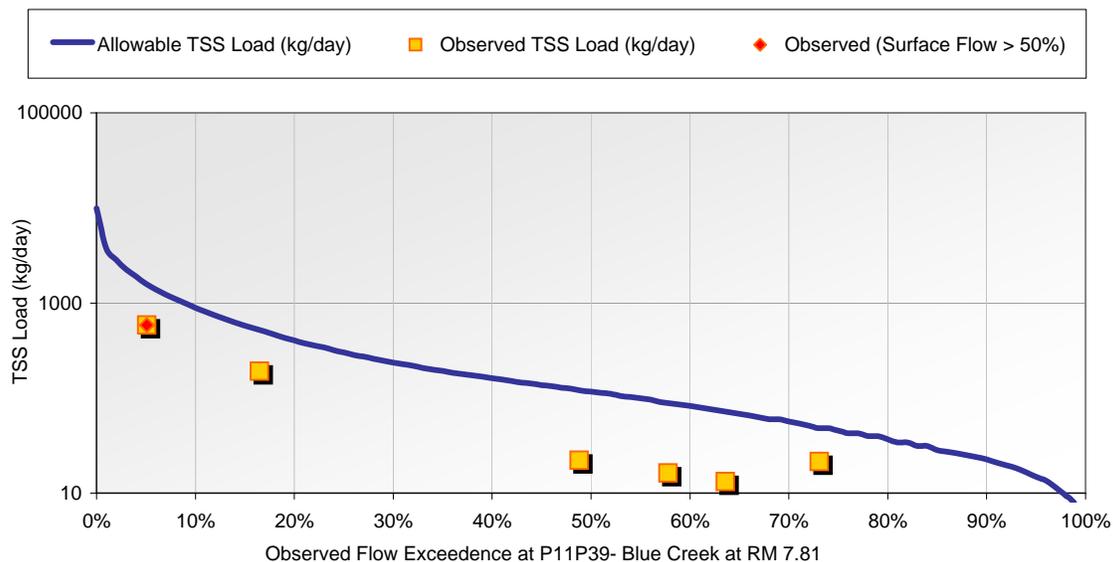
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	27.63	912.5	167.8	0.0%
10-40	1	5.23	172.7	54.9	0.0%
40-60	2	2.02	66.8	30.7	0.0%
60-90	2	0.79	26.1	8.9	0.0%
90-100	0	0.26	8.5	No Data	No Data

[12: TSS at P11P39 (mg/L)] -vs- [12: Flow at P11P39- Blue Creek at RM 7.81 (cfs)]

1. Data Assessment and Trend Confirmation



2. Load Exceedence Analysis

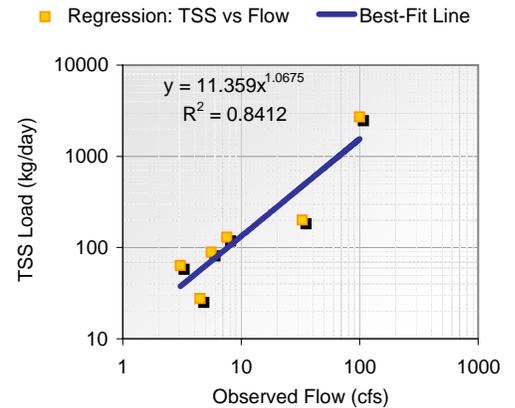
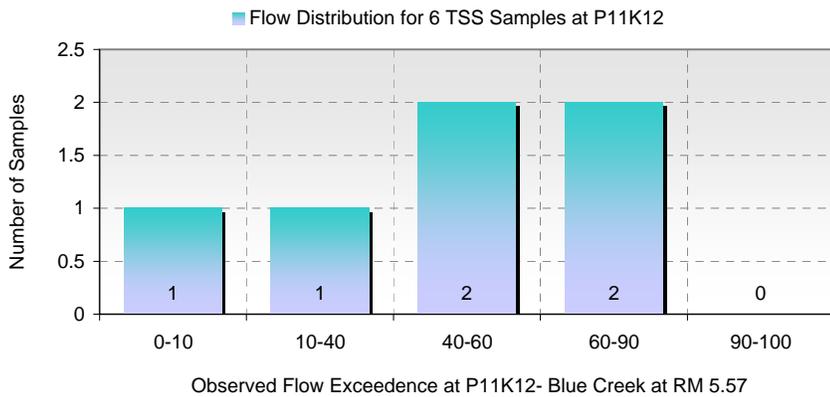


3. Estimated TMDL Loads by Flow Exceedence Range

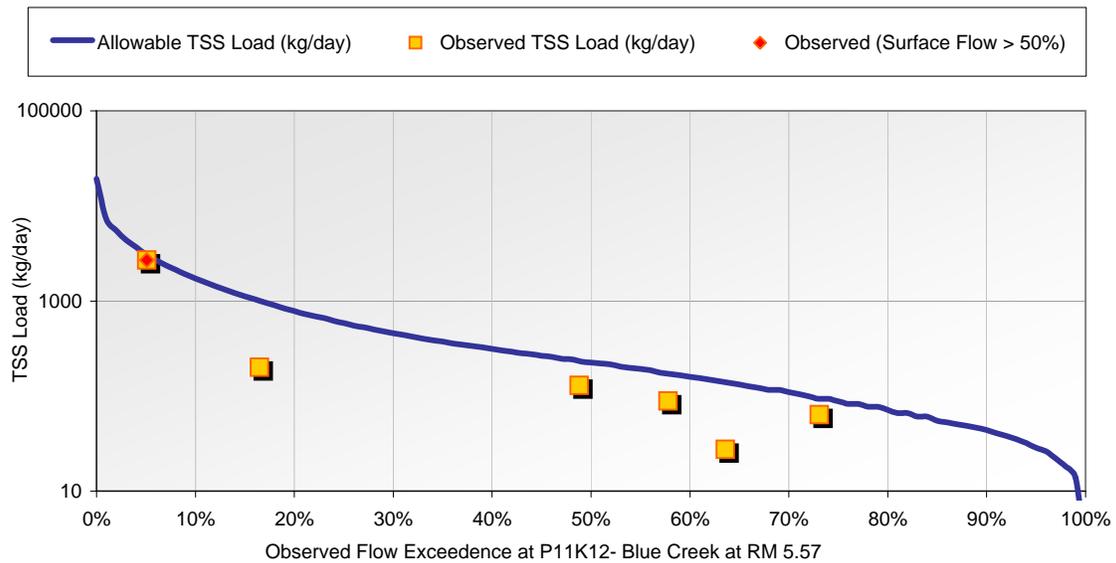
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	48.16	1590.7	584.9	0.0%
10-40	1	9.12	301.1	191.5	0.0%
40-60	2	3.53	116.5	19.2	0.0%
60-90	2	1.38	45.4	17.3	0.0%
90-100	0	0.45	14.8	No Data	No Data

[\[13: TSS at P11K12 \(mg/L\)\]](#) -vs- [\[13: Flow at P11K12- Blue Creek at RM 5.57 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedance Analysis**

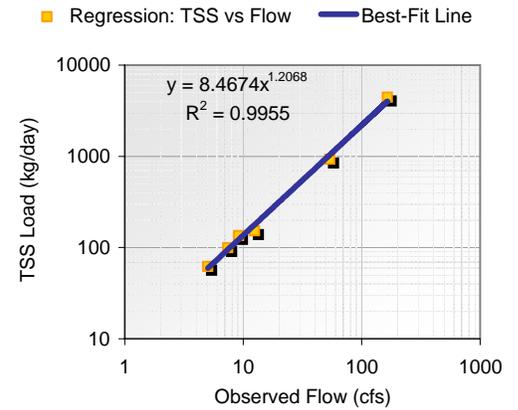
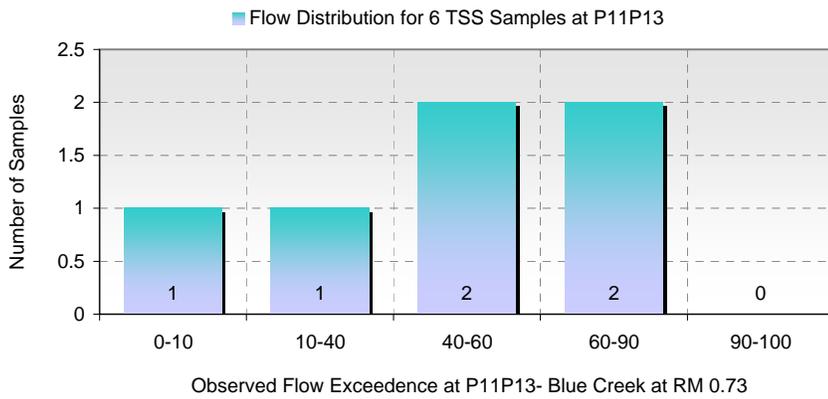


**3. Estimated TMDL Loads by Flow Exceedance Range**

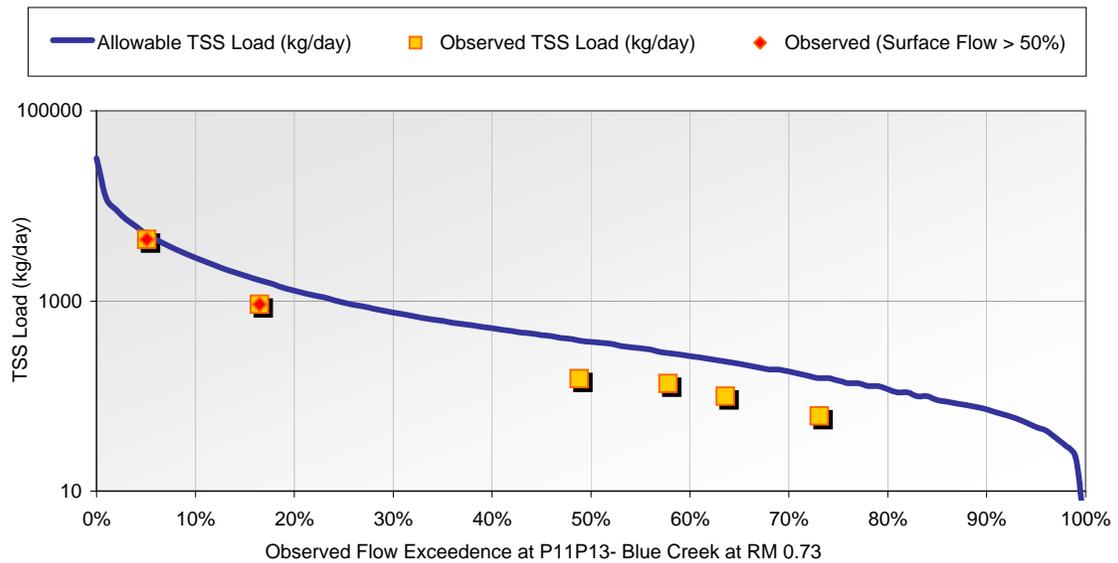
Flow Exceedance Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	100.80	3082.7	2693.4	0.0%
10-40	1	19.08	583.5	200.4	0.0%
40-60	2	7.38	225.7	109.1	0.0%
60-90	2	2.88	88.1	45.6	0.0%
90-100	0	0.94	28.6	No Data	No Data

[14: TSS at P11P13 (mg/L)] -vs- [14: Flow at P11P13- Blue Creek at RM 0.73 (cfs)]

1. Data Assessment and Trend Confirmation



2. Load Exceedence Analysis

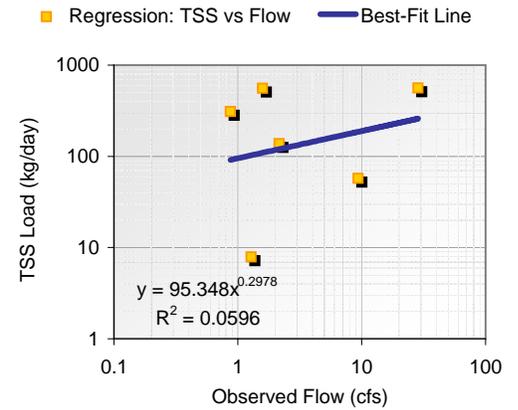
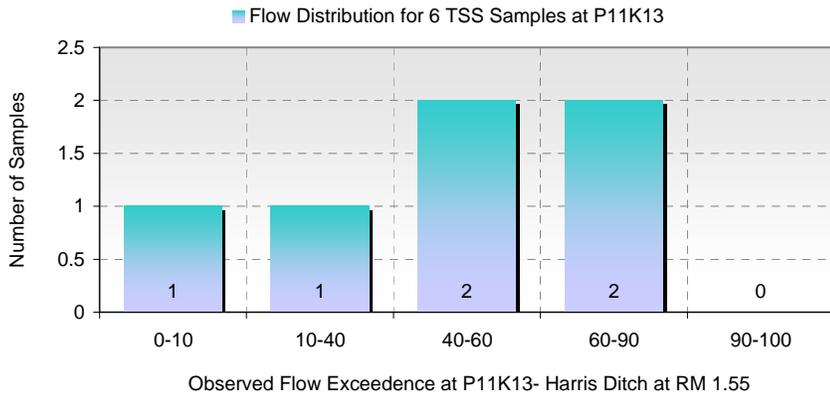


3. Estimated TMDL Loads by Flow Exceedence Range

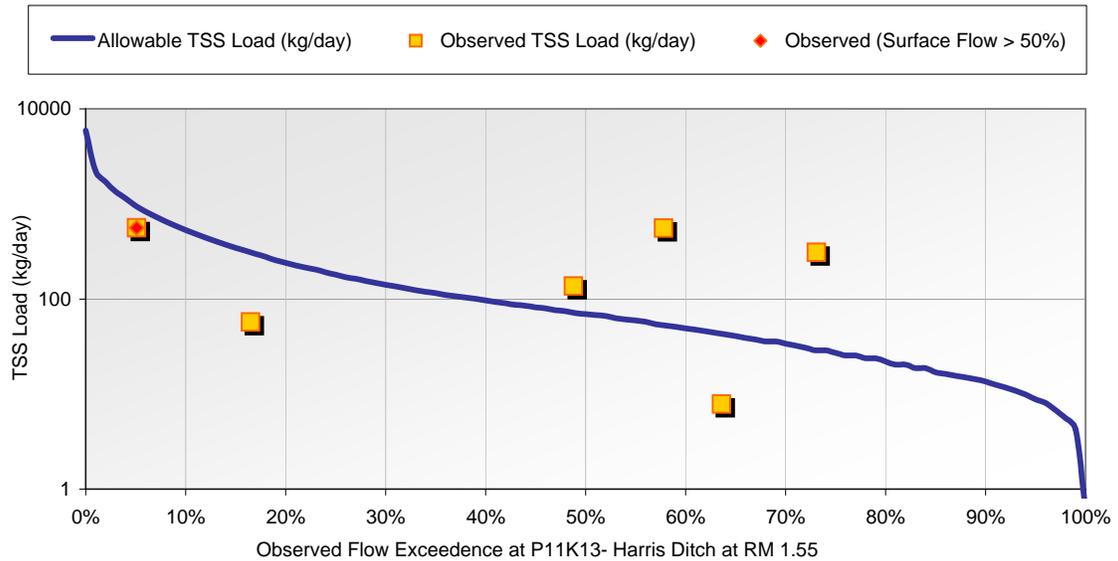
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	166.13	5080.7	4439.1	0.0%
10-40	1	31.45	961.7	924.7	0.0%
40-60	2	12.16	372.0	143.7	0.0%
60-90	2	4.75	145.2	80.7	0.0%
90-100	0	1.54	47.2	No Data	No Data

[15: TSS at P11K13 (mg/L)] -vs- [15: Flow at P11K13- Harris Ditch at RM 1.55 (cfs)]

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedance Analysis**

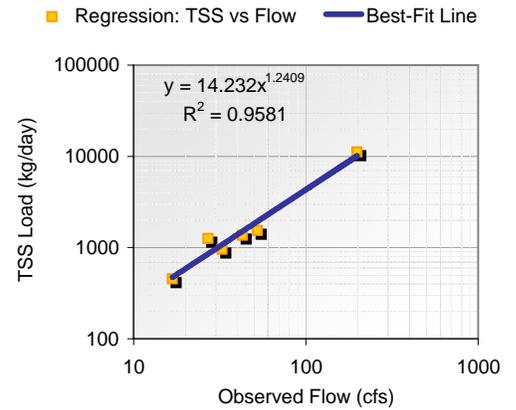
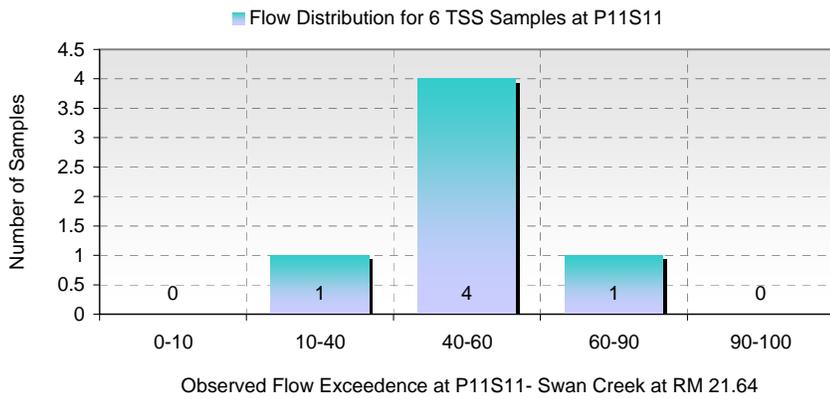


**3. Estimated TMDL Loads by Flow Exceedance Range**

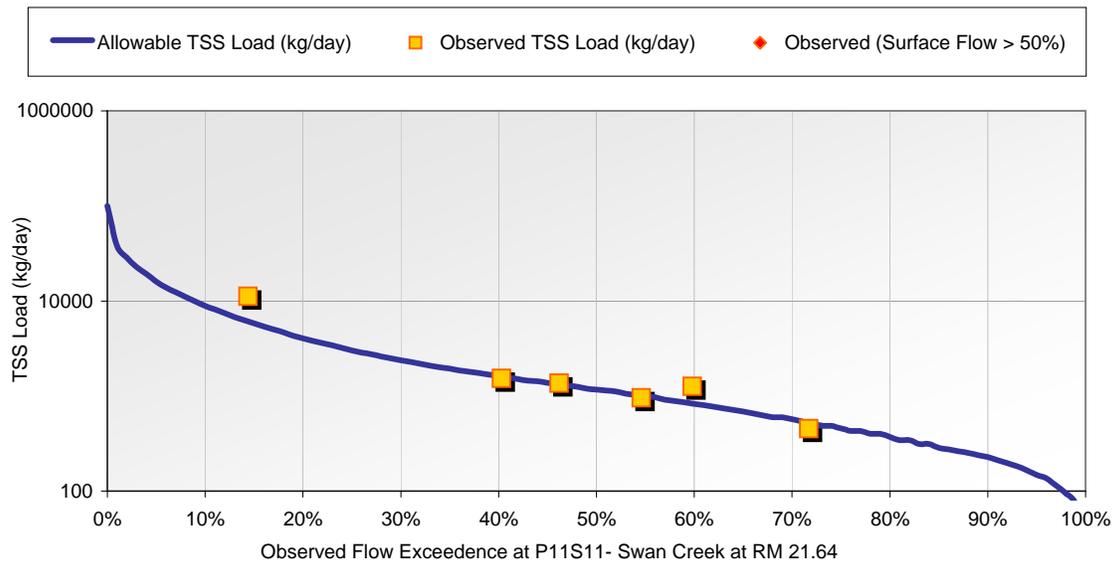
Flow Exceedance Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	28.75	949.5	558.6	0.0%
10-40	1	5.44	179.7	57.1	0.0%
40-60	2	2.10	69.5	346.9	80.0%
60-90	2	0.82	27.1	158.7	82.9%
90-100	0	0.27	8.8	No Data	No Data

[\[16: TSS at P11S11 \(mg/L\)\]](#) -vs- [\[16: Flow at P11S11- Swan Creek at RM 21.64 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

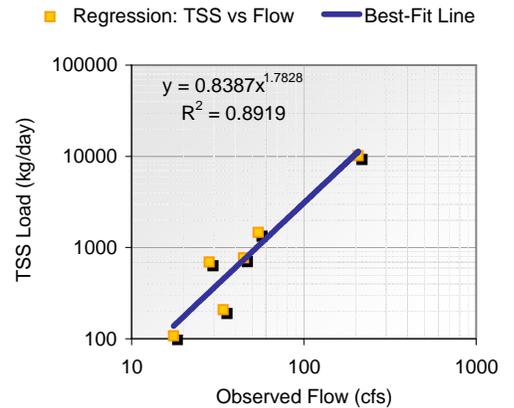
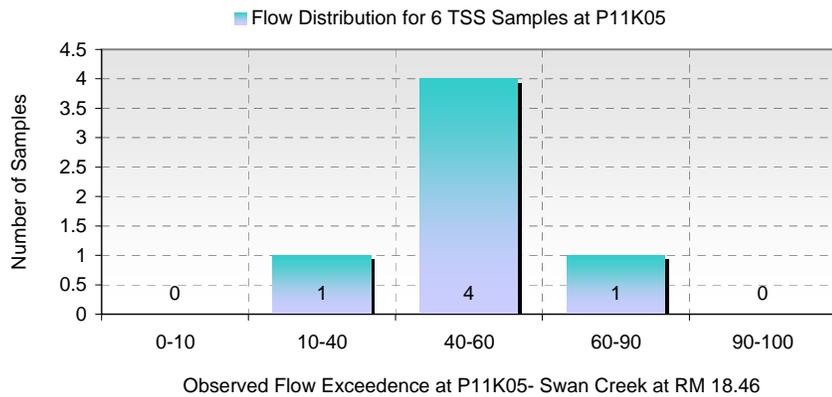


**3. Estimated TMDL Loads by Flow Exceedence Range**

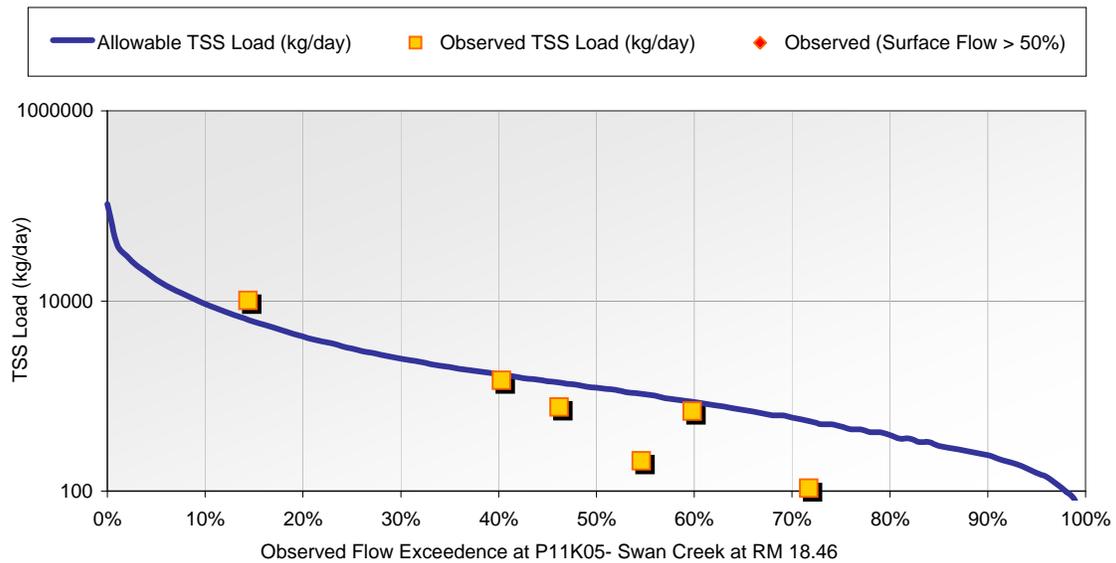
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	0	522.67	15984.3	No Data	No Data
10-40	1	98.93	3025.6	11186.7	73.0%
40-60	4	38.27	1170.3	1311.9	10.8%
60-90	1	14.93	456.7	452.1	0.0%
90-100	0	4.85	148.4	No Data	No Data

[\[17: TSS at P11K05 \(mg/L\)\]](#) -vs- [\[17: Flow at P11K05- Swan Creek at RM 18.46 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

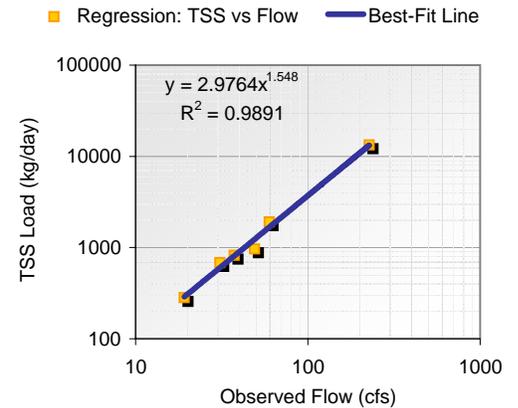
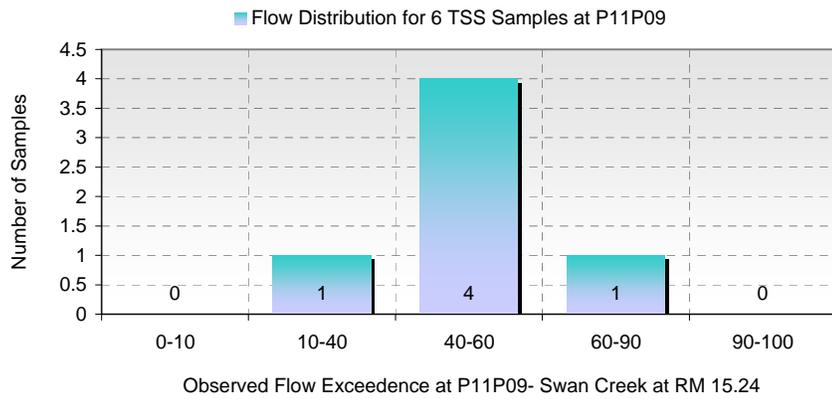


**3. Estimated TMDL Loads by Flow Exceedence Range**

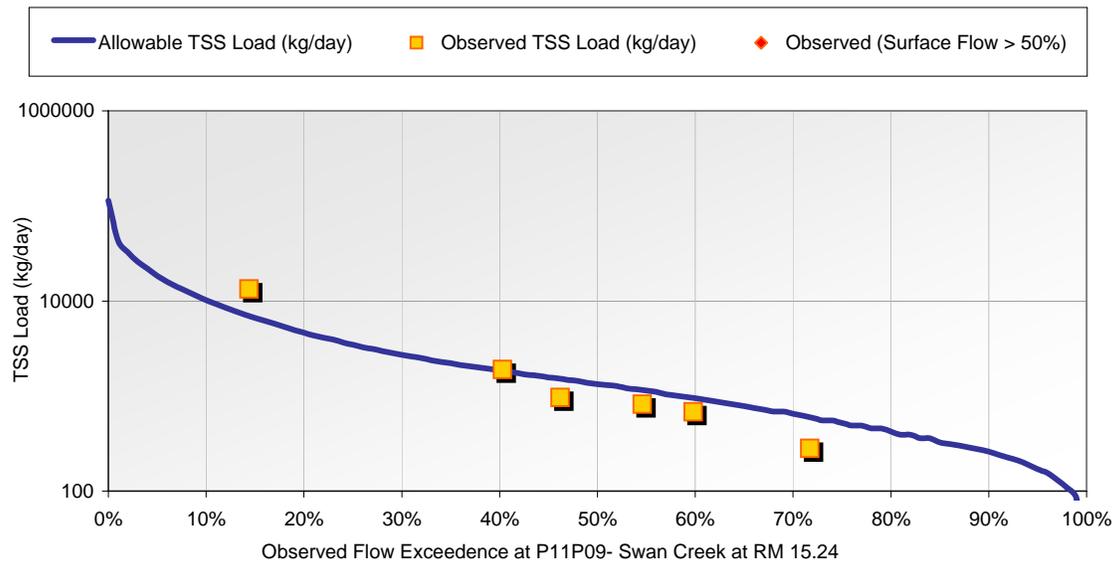
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	0	545.07	16669.3	No Data	No Data
10-40	1	103.17	3155.3	10144.5	68.9%
40-60	4	39.91	1220.4	728.7	0.0%
60-90	1	15.57	476.3	107.2	0.0%
90-100	0	5.06	154.8	No Data	No Data

[\[18: TSS at P11P09 \(mg/L\)\]](#) -vs- [\[18: Flow at P11P09- Swan Creek at RM 15.24 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

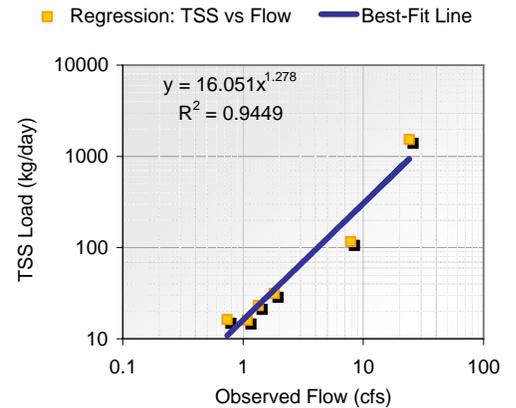
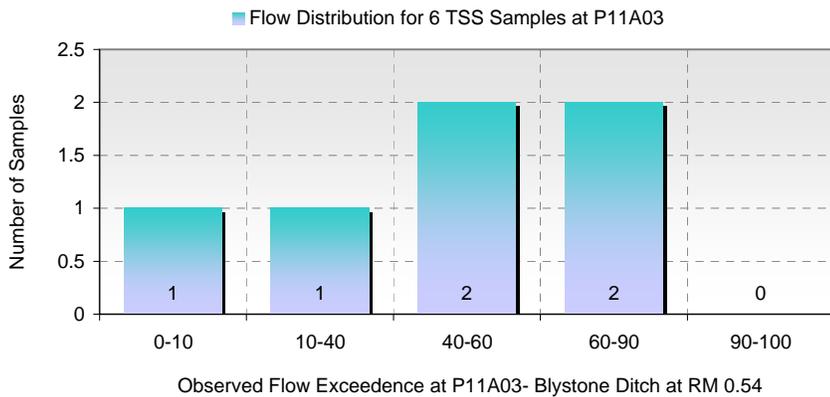


**3. Estimated TMDL Loads by Flow Exceedence Range**

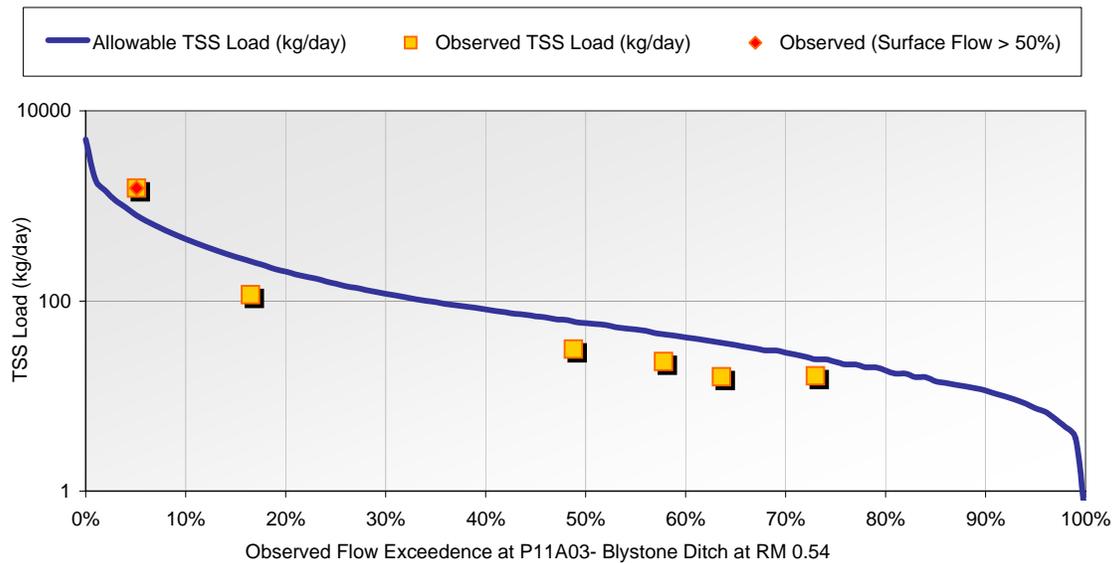
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	0	597.33	18267.8	No Data	No Data
10-40	1	113.07	3457.8	13340.7	74.1%
40-60	4	43.73	1337.5	891.2	0.0%
60-90	1	17.07	521.9	281.9	0.0%
90-100	0	5.55	169.6	No Data	No Data

[19: TSS at P11A03 (mg/L)] -vs- [19: Flow at P11A03- Blystone Ditch at RM 0.54 (cfs)]

1. Data Assessment and Trend Confirmation



2. Load Exceedence Analysis

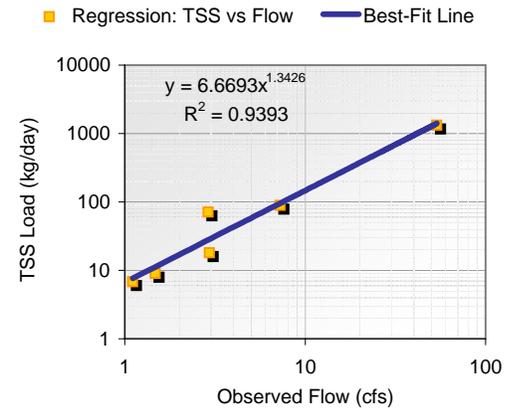
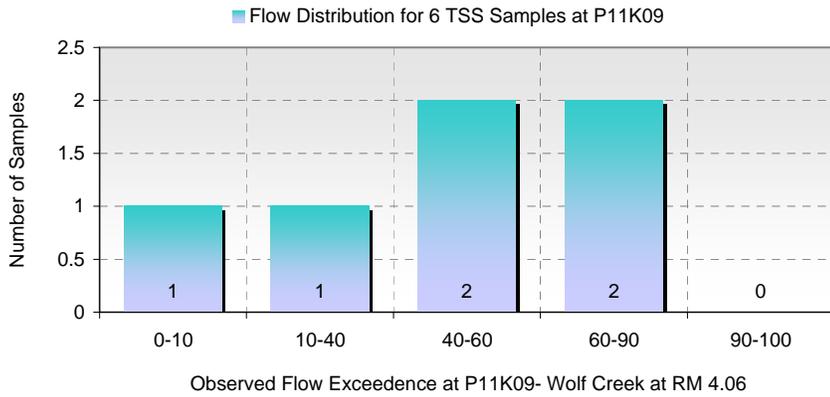


3. Estimated TMDL Loads by Flow Exceedence Range

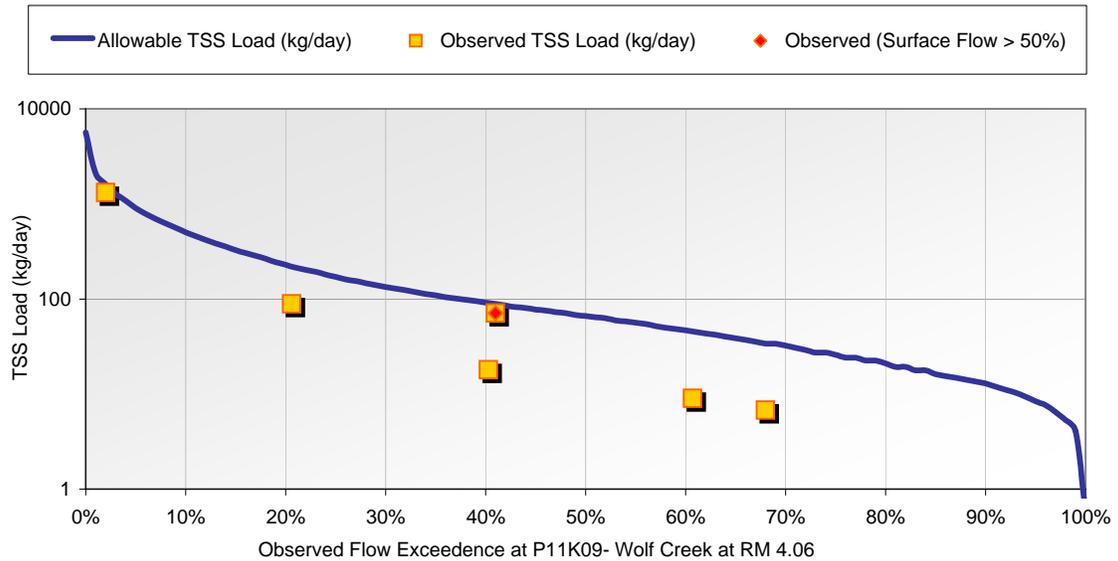
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	24.27	801.5	1532.6	47.7%
10-40	1	4.59	151.7	115.8	0.0%
40-60	2	1.78	58.7	27.1	0.0%
60-90	2	0.69	22.9	16.1	0.0%
90-100	0	0.23	7.4	No Data	No Data

**[20: TSS at P11K09 (mg/L)] -vs- [20: Flow at P11K09- Wolf Creek at RM 4.06 (cfs)]**

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

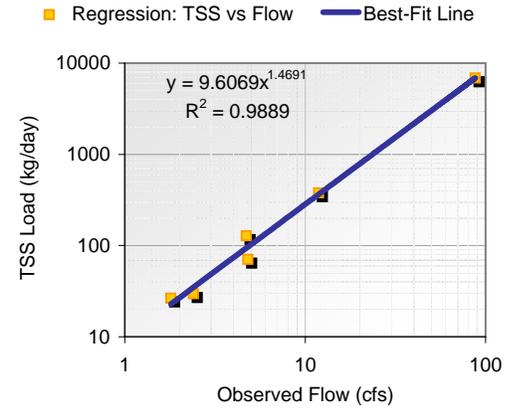
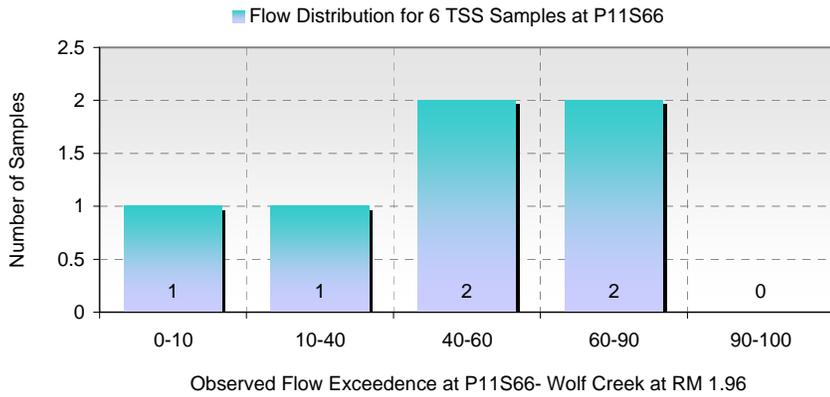


**3. Estimated TMDL Loads by Flow Exceedence Range**

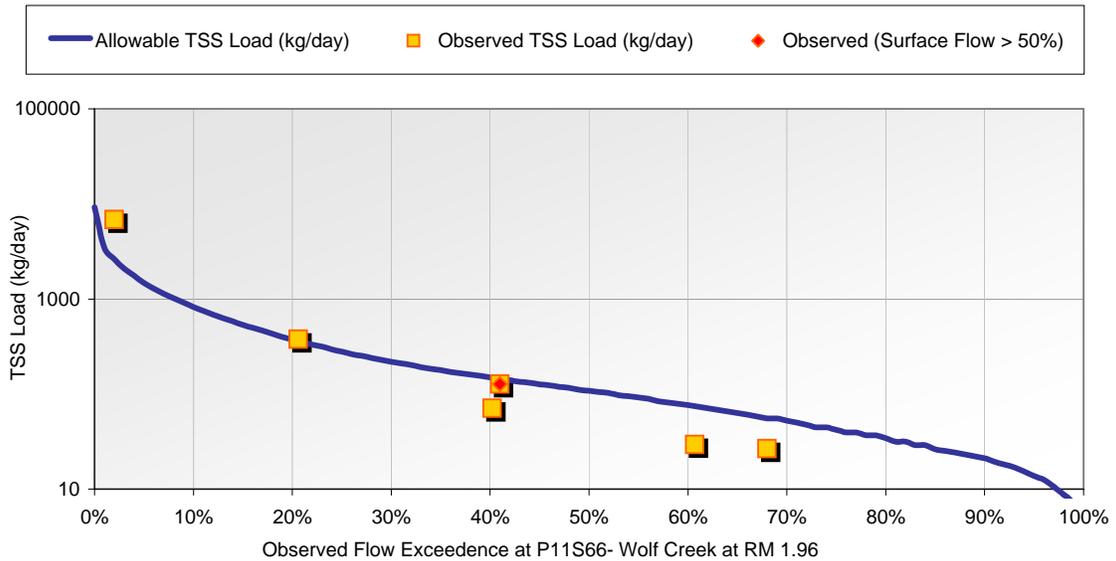
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	29.49	902.0	1314.3	31.4%
10-40	1	5.58	170.7	88.9	0.0%
40-60	2	2.16	66.0	44.5	0.0%
60-90	2	0.84	25.8	7.9	0.0%
90-100	0	0.27	8.4	No Data	No Data

[21: TSS at P11S66 (mg/L)] -vs- [21: Flow at P11S66- Wolf Creek at RM 1.96 (cfs)]

1. Data Assessment and Trend Confirmation



2. Load Exceedence Analysis

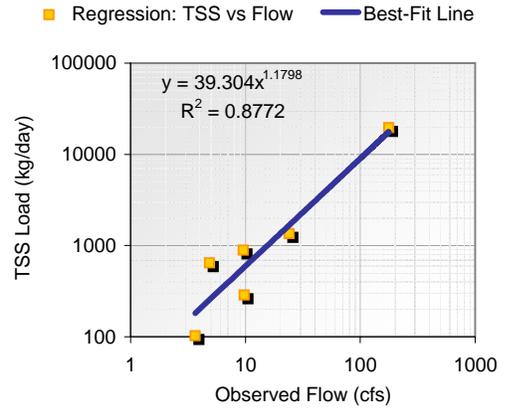
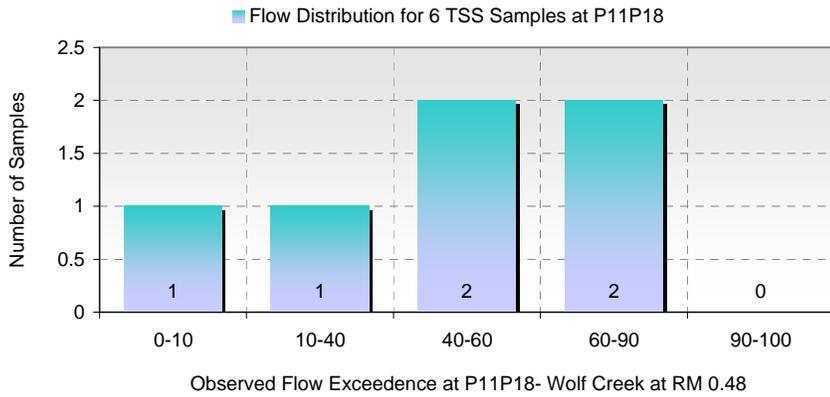


3. Estimated TMDL Loads by Flow Exceedence Range

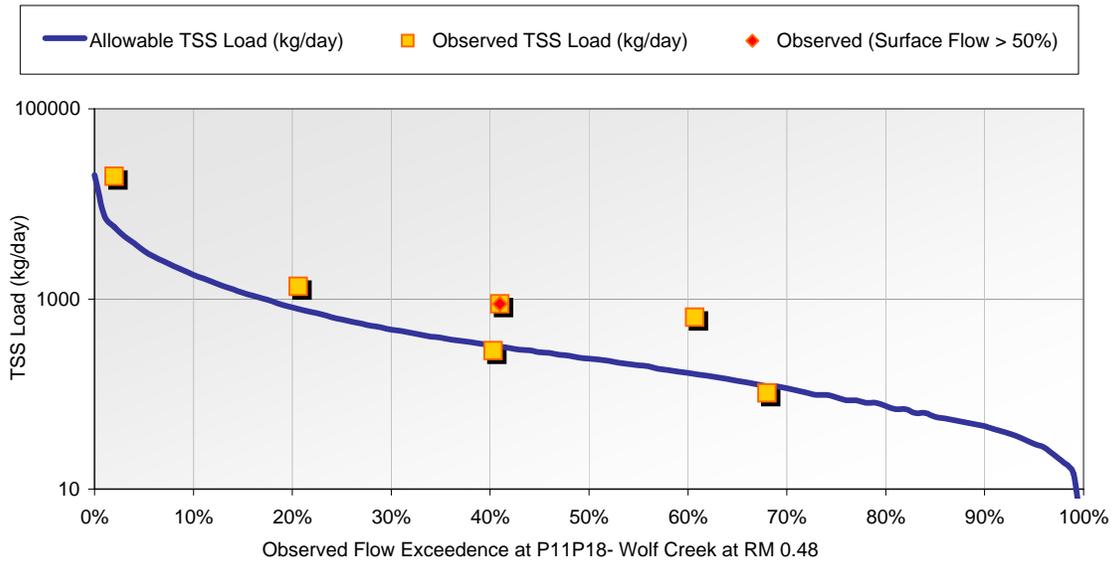
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	48.16	1472.8	6867.6	78.6%
10-40	1	9.12	278.8	377.5	26.1%
40-60	2	3.53	107.8	99.0	0.0%
60-90	2	1.38	42.1	28.0	0.0%
90-100	0	0.45	13.7	No Data	No Data

[\[22: TSS at P11P18 \(mg/L\)\]](#) -vs- [\[22: Flow at P11P18- Wolf Creek at RM 0.48 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedance Analysis**

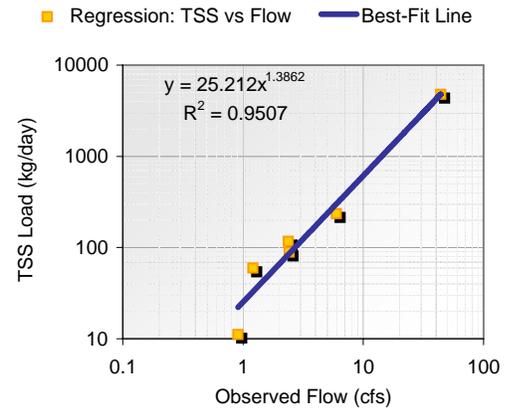
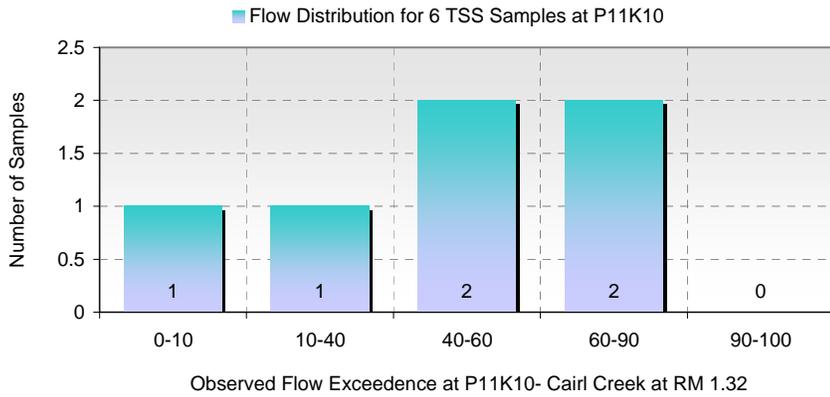


**3. Estimated TMDL Loads by Flow Exceedance Range**

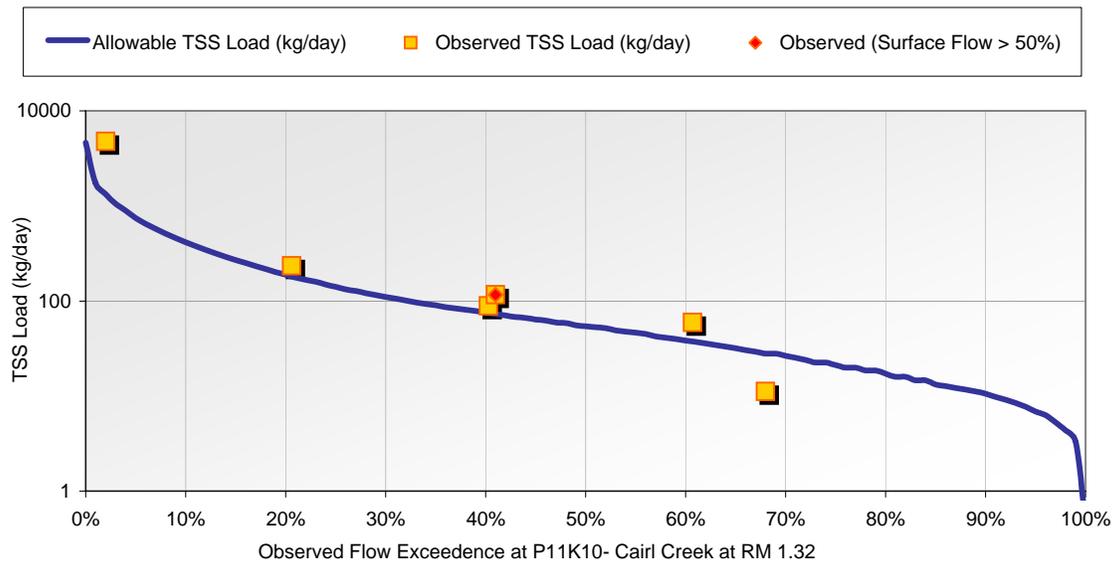
Flow Exceedance Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	97.44	3218.3	19539.8	83.5%
10-40	1	18.44	609.2	1351.2	54.9%
40-60	2	7.13	235.6	587.9	59.9%
60-90	2	2.78	92.0	373.2	75.4%
90-100	0	0.90	29.9	No Data	No Data

[\[23: TSS at P11K10 \(mg/L\)\]](#) -vs- [\[23: Flow at P11K10- Cairl Creek at RM 1.32 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedance Analysis**

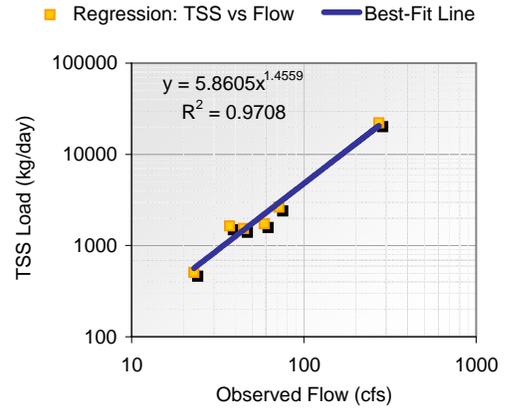
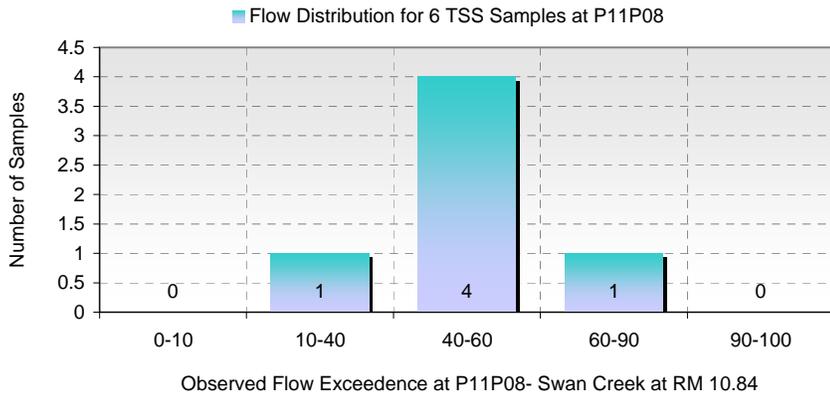


**3. Estimated TMDL Loads by Flow Exceedance Range**

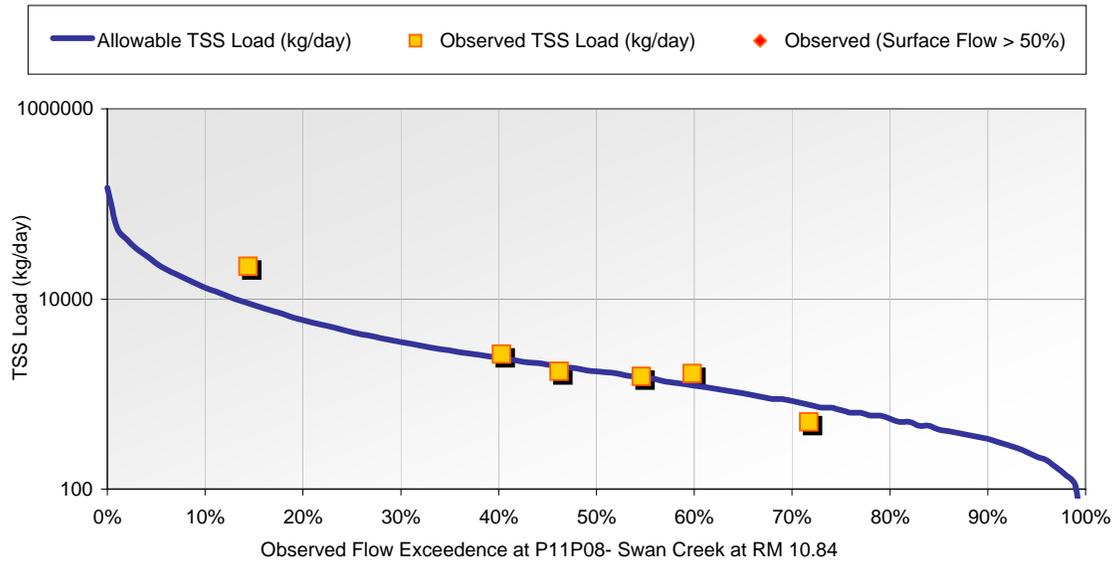
Flow Exceedance Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	24.27	742.1	4758.1	84.4%
10-40	1	4.59	140.5	234.1	40.0%
40-60	2	1.78	54.3	102.8	47.2%
60-90	2	0.69	21.2	35.3	39.8%
90-100	0	0.23	6.9	No Data	No Data

[24: TSS at P11P08 (mg/L)] -vs- [24: Flow at P11P08- Swan Creek at RM 10.84 (cfs)]

1. Data Assessment and Trend Confirmation



2. Load Exceedence Analysis

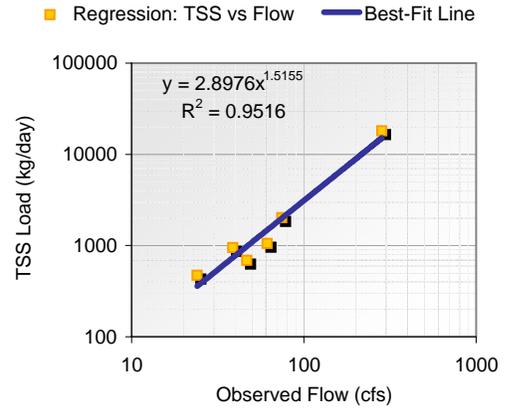
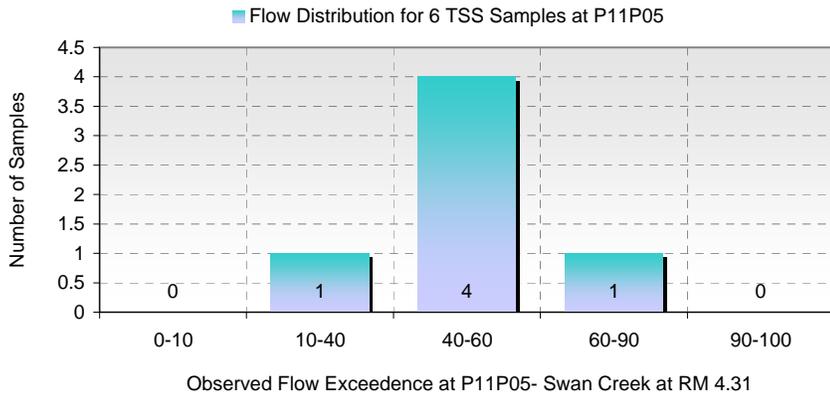


3. Estimated TMDL Loads by Flow Exceedence Range

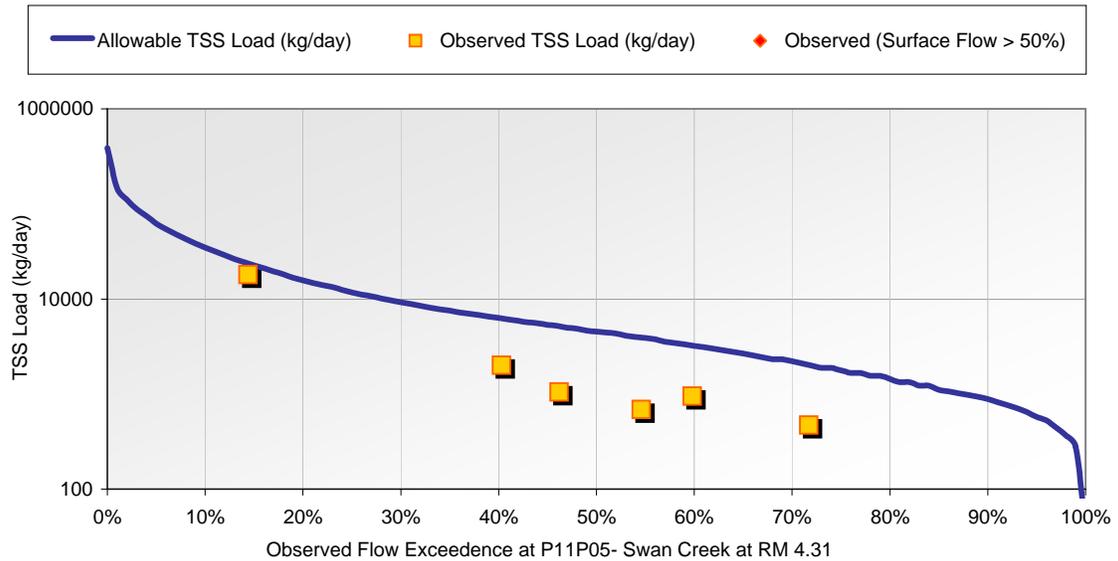
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	0	716.80	23675.0	No Data	No Data
10-40	1	135.68	4481.4	22012.2	79.6%
40-60	4	52.48	1733.4	1681.7	0.0%
60-90	1	20.48	676.4	507.3	0.0%
90-100	0	6.66	219.9	No Data	No Data

[\[25: TSS at P11P05 \(mg/L\)\]](#) -vs- [\[25: Flow at P11P05- Swan Creek at RM 4.31 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

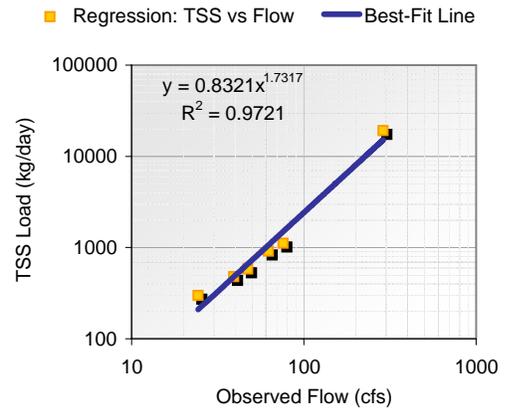
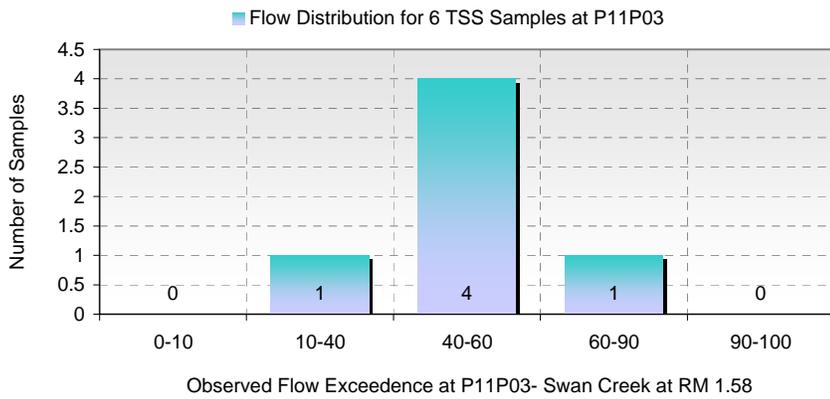


**3. Estimated TMDL Loads by Flow Exceedence Range**

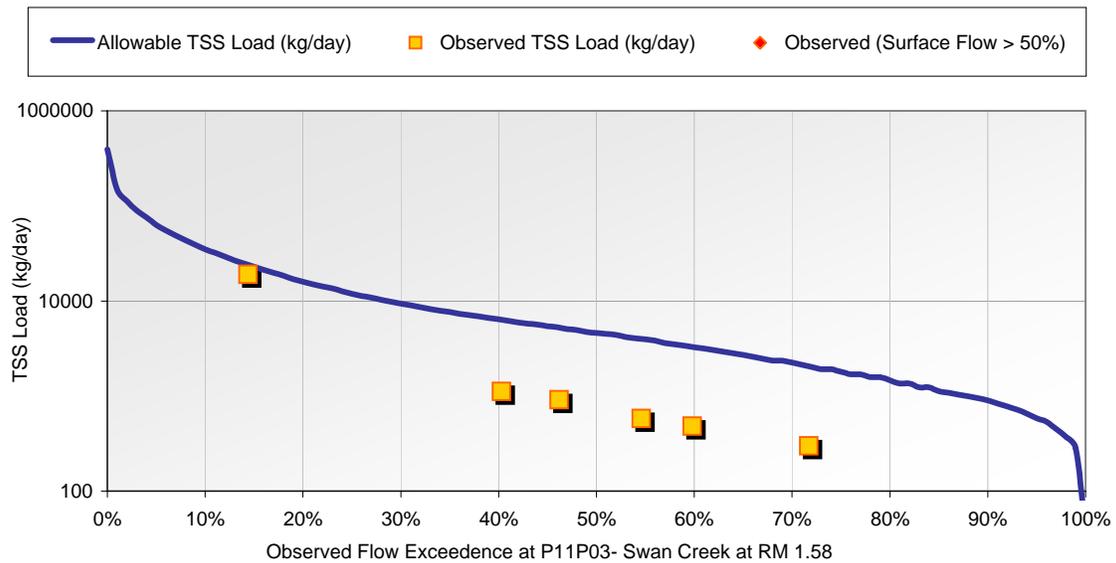
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	0	746.67	62110.4	No Data	No Data
10-40	1	141.33	11756.6	18065.5	34.9%
40-60	4	54.67	4547.4	998.2	0.0%
60-90	1	21.33	1774.6	469.8	0.0%
90-100	0	6.93	576.8	No Data	No Data

[\[26: TSS at P11P03 \(mg/L\)\]](#) -vs- [\[26: Flow at P11P03- Swan Creek at RM 1.58 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**

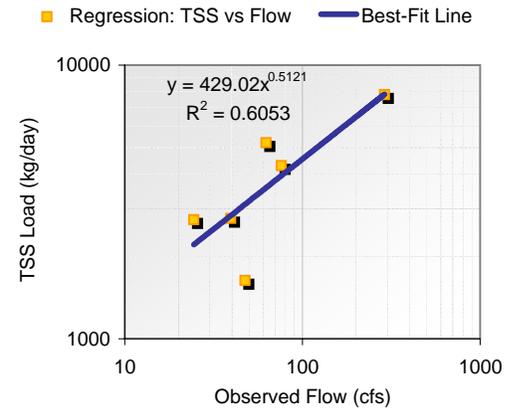
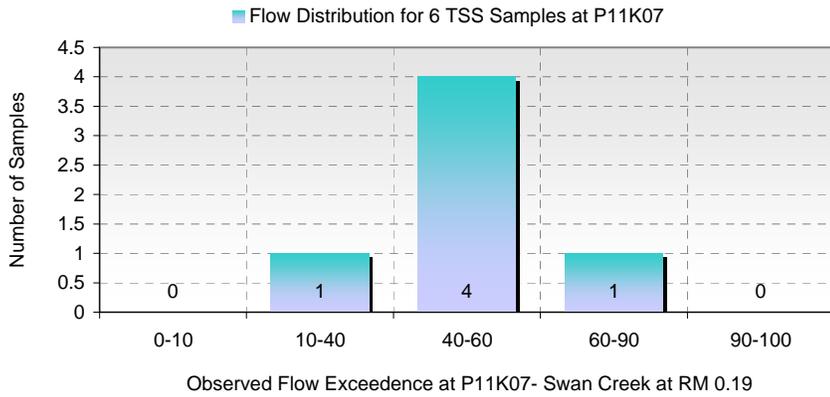


**3. Estimated TMDL Loads by Flow Exceedence Range**

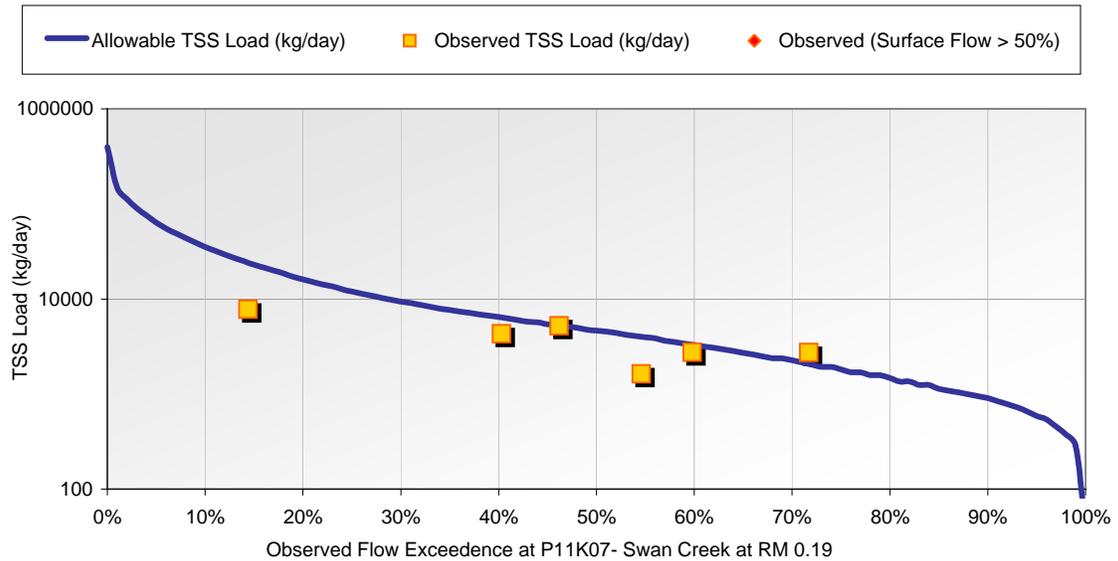
Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	0	757.87	63042.1	No Data	No Data
10-40	1	143.45	11933.0	19041.8	37.3%
40-60	4	55.49	4615.6	746.6	0.0%
60-90	1	21.65	1801.2	298.0	0.0%
90-100	0	7.04	585.4	No Data	No Data

[\[27: TSS at P11K07 \(mg/L\)\] -vs- \[27: Flow at P11K07- Swan Creek at RM 0.19 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedance Analysis**

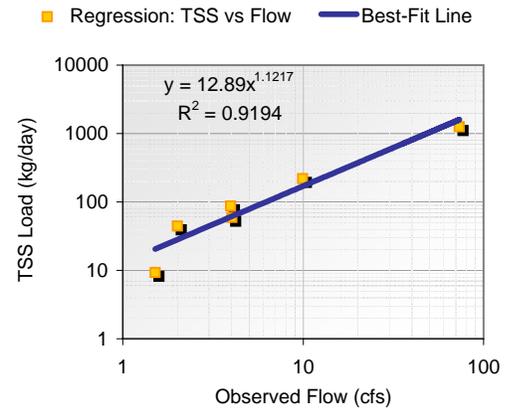
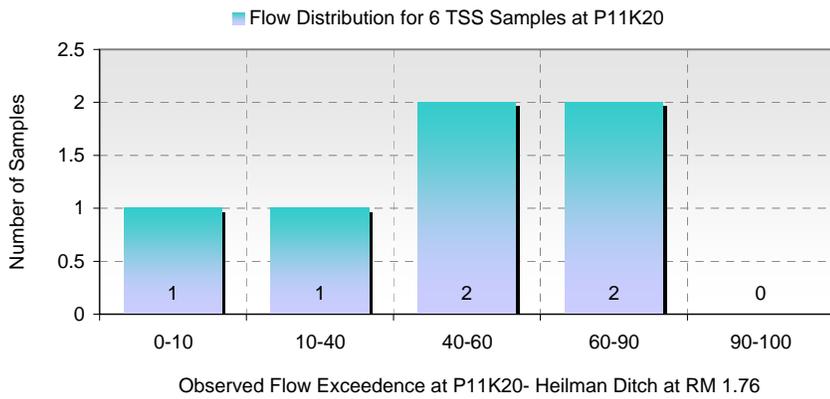


**3. Estimated TMDL Loads by Flow Exceedance Range**

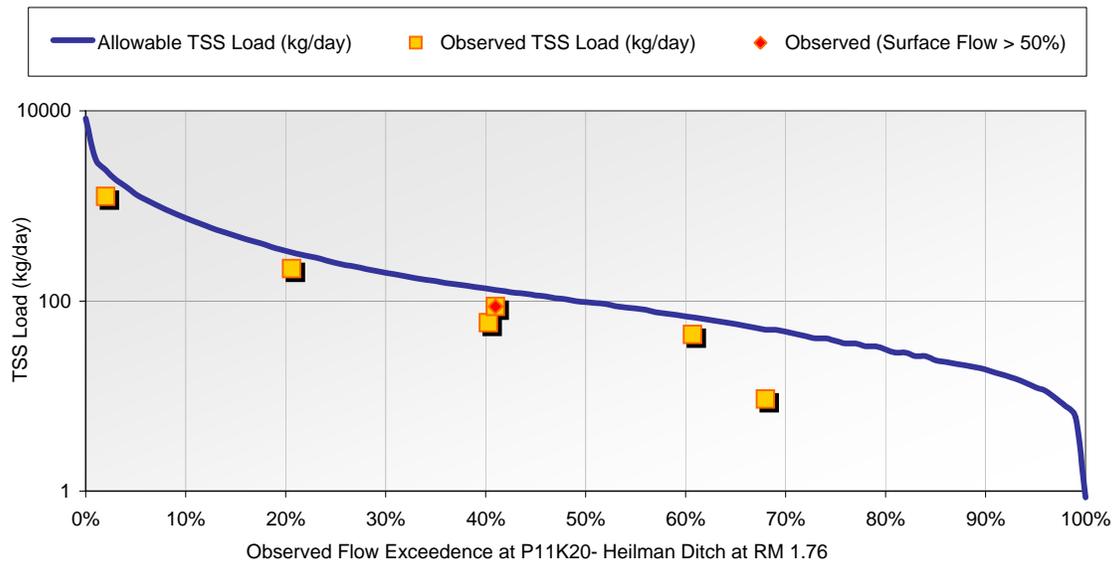
Flow Exceedance Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	0	761.60	63352.6	No Data	No Data
10-40	1	144.16	11991.8	7796.0	0.0%
40-60	4	55.76	4638.3	3517.9	0.0%
60-90	1	21.76	1810.1	2725.1	33.6%
90-100	0	7.07	588.3	No Data	No Data

[\[28: TSS at P11K20 \(mg/L\)\]](#) -vs- [\[28: Flow at P11K20- Heilman Ditch at RM 1.76 \(cfs\)\]](#)

**1. Data Assessment and Trend Confirmation**



**2. Load Exceedence Analysis**



**3. Estimated TMDL Loads by Flow Exceedence Range**

Flow Exceedence Ranges	6-Sample Distribution	Median Observed Flow (cfs)	Allowable Load (kg/day)	Median Load (kg/day)	Estimated Reduction (%)
0-10	1	40.32	1331.7	1257.7	0.0%
10-40	1	7.63	252.1	218.8	0.0%
40-60	2	2.95	97.5	73.2	0.0%
60-90	2	1.15	38.0	26.8	0.0%
90-100	0	0.37	12.4	No Data	No Data