

Big Indian Creek Mitigation Site - Macroinvertebrates - Percent Ephemeroptera/Plecoptera/Tricoptera (EPT) Performance Standards




	Watershed Size	Macroinvertebrate Site Index Score	Macroinvertebrate Site Index - Category Class	Baseline - % EPT		EPA's Interim Performance - % EPT		EPA's Final Performance - % EPT		CCWA's Proposed Year 5 Performance - % EPT		CCWA's Proposed Year 7 Performance - % EPT		Corps' Interim Performance - % EPT (Anti-degradation)		Corps' Final Performance - % EPT	
Case Creek	0.91	37	Fair	5.1	9.1	10.4	5.3	8	5.1	9.1							
Caterpillar Creek - U/S	0.38	29	Fair	7.2	9.1	10.4	1.8	5.3	7.2	9.1							
Caterpillar Creek - D/S	0.51	16	Poor	0.4	9.1	10.4	1.8	5.3	0.4	9.1							
Deere Draw	0.7	34	Fair	4.8	9.1	10.4	1.8	5.3	4.8	9.1							
Bobcat Run -U/S	0.02	20	Poor	0.4	9.1	10.4	N/A	N/A	0.4	9.1							
Bobcat Run -D/S	N/A	20	Poor	0	9.1	10.4	N/A	N/A	0	9.1							
Massey Flats	0.08	6	Very Poor	7.5	9.1	10.4	N/A	N/A	7.5	9.1							
Corn Crib Creek	0.09	27	Fair	0.4	9.1	10.4	N/A	N/A	0.4	9.1							
Bulldozer Branch	0.08	28	Fair	3.3	9.1	10.4	N/A	N/A	3.3	9.1							

Mean Baseline % EPT - All Streams		3.23333333
1 STDEV		3.05
Total		0.18333333
Mean Baseline % EPT - Caterpillar (U/S & D/S), Case, & Deere		4.375
1 STDEV		2.857008925
Total		1.517991075

Big Indian Creek Mitigation Site - Macroinvertebrate Performance Standards - Weighted Tolerance Value (WTV)

	Watershed Size	Macroinvertebrate Site Index Score	Macroinvertebrate Site Index - Category Class	Baseline WTV		EPA's Interim Performance - WTV		EPA's Final Performance - WTV		CCWA's Proposed Year 5 Performance - WTV		CCWA's Proposed Year 7 Performance - WTV		Corps' Interim Performance - WTV (Anti-degradation)		Corps' Final Performance - WTV	
Case Creek	0.91	37	Fair	6.35	6.63	6.22	7.1	6.8	6.35	6.22							
Caterpillar Creek - U/S	0.38	29	Fair	6.8	6.63	6.22	7.5	7.3	6.8	6.63							
Caterpillar Creek - D/S	0.51	16	Poor	7.81	6.63	6.22	7.5	7.3	7.81	6.63							
Deere Draw	0.7	34	Fair	6.3	6.63	6.22	7.5	7.3	6.3	6.22							
Bobcat Run -U/S	0.02	20	Poor	7.15	6.63	6.22	N/A	N/A	7.15	6.63							
Bobcat Run -D/S	N/A	20	Poor	7.81	6.63	6.22	N/A	N/A	7.81	6.63							
Massey Flats	0.08	6	Very Poor	7.4	6.63	6.22	N/A	N/A	7.4	6.63							
Corn Crib Creek	0.09	27	Fair	7.97	6.63	6.22	N/A	N/A	7.97	6.63							
Bulldozer Branch	0.08	28	Fair	7.68	6.63	6.22	N/A	N/A	7.68	6.63							

Mean Baseline WTV - All Streams		7.25222222
1 STDEV		0.640112837
Total		6.612109385
Mean Baseline WTV - Caterpillar (U/S & D/S), Case, & Deere		6.815
1 STDEV		0.700404645
Total		6.114595355

Legend	
	= Exceeds Baseline Score
	= Proposed Performance Standard
	= Supporting Calculations

CMMB Streams	Macroinvertebrate Site Index Score	Macroinvertebrate Site Index - Category Class	Baseline (Year 0) - % EPT	Year 2 - % EPT	Year 5 - % EPT	Year 7 - % EPT		Baseline (Year 0) - WTV	Year 2 - WTV	Year 5 - WTV	Year 7 - WTV
UT2			1.2	4.9	10.7	15.6		7.98	6.04	5.79	5.3
WC		ND		10.9	16.7	9.8		ND	5.37	5.56	5.54
UT3			6.3	4.3	10.7	12.5		6.92	6.54	5.89	5.45
UT1 - U/S			0	9.8	17	16.3		7.93	6.95	5.89	5.29
UT 1 - D/S			0	3.6	8.9	10.6		8.89	7.43	6.7	6.3
		Mean % EPT - All Streams	1.875	6.7	12.8	12.96	Mean WTV - All Streams	7.93	6.466	5.966	5.576
		1 STDEV	3.003747659	3.386000591	3.770941527	2.910841803	1 STDEV	0.80502588	0.798705202	0.43189119	0.418126775
		Total	-1.128747659	3.313999409	9.029058473	10.0491582	Total	8.73502588	7.264705202	6.39789119	5.994126775
		Mean % EPT - UT2, UT3, and UT1 Lower	2.5	4.266666667	10.1	12.9	Mean WTV - UT2, UT3, and UT1 Lower	7.93	6.67	6.126666667	5.683333333
		1 STDEV	3.345145737	0.65064071	1.039230485	2.523885893	1 STDEV	0.985951317	0.704059657	0.499032397	0.539289656
		Total	-0.845145737	3.616025957	9.060769515	10.37611411	Total	8.915951317	7.374059657	6.625699064	6.22262299