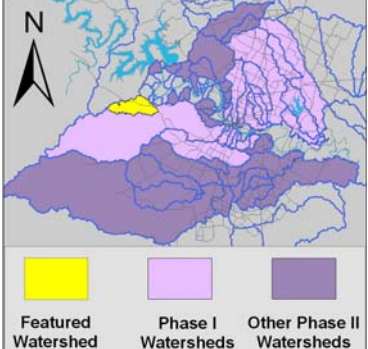


Little Barton Creek Watershed

Summary Sheet

Catchment	Total area	11.4 sq. miles			
	Area in recharge	none			
	Creek length	10 miles			
Demographics	Receiving water	Barton Creek			
	2000 population	459			
	2030 projected population	4,076			
Land Use	30 year projected % increase	788 %			
	Impervious cover (2003 estimate)	4.12%			
Overall EII Scores	2001	2004	2007	2010	2012
	82	76	77	89	82



Flow Regime* for Sample Sites on Little Barton Creek

Site #	Site Name	2004						2007					2010				2011	2012	
		Mar	May	May	Jun	Oct	Dec	Feb	May	Jun	Sep	Dec	Mar	May	May	Oct	Dec	Mar	May
		WQ	WQ	Bio	WQ	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	Bio
1115	Hamilton Pool	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
1114	Great Divide	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
77	BAR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B

* B = baseflow n = no flow storm = storm flow blue = Samples were taken grey = Samples were not taken blank = not visited

Summary of 2012 Data for Little Barton Creek

Summary	Parameter	Mean	Max	Min	Discussion
Physicochemical	D.O. mg/l	8.4	11.3	3.7	Wide range: some high values, some low values.
	pH st.units	7.78	8.13	7.06	Mostly within normal range with some low values at site 1114.
	Cond uS/cm	754	855	653	Within normal range.
Nutrients	NH ₃ mg/l	0.011	0.025	0.008	Within normal range.
	NO ₃ mg/l	0.929	1.810	0.008	Within normal range, some above average readings.
	Ortho P mg/l	0.004	0.004	0.004	Consistently low.
Sediment Load	TSS mg/l	1.6	3.2	1.0	Within normal range.
	Turbidity ntu	1.12	2.94	0.40	Within normal range.
Biology	E.Coli /100ml	49	248	1	Consistently low readings.
Benthic Macroinvertebrates and Diatoms: evaluations are provided in the introduction of this report					

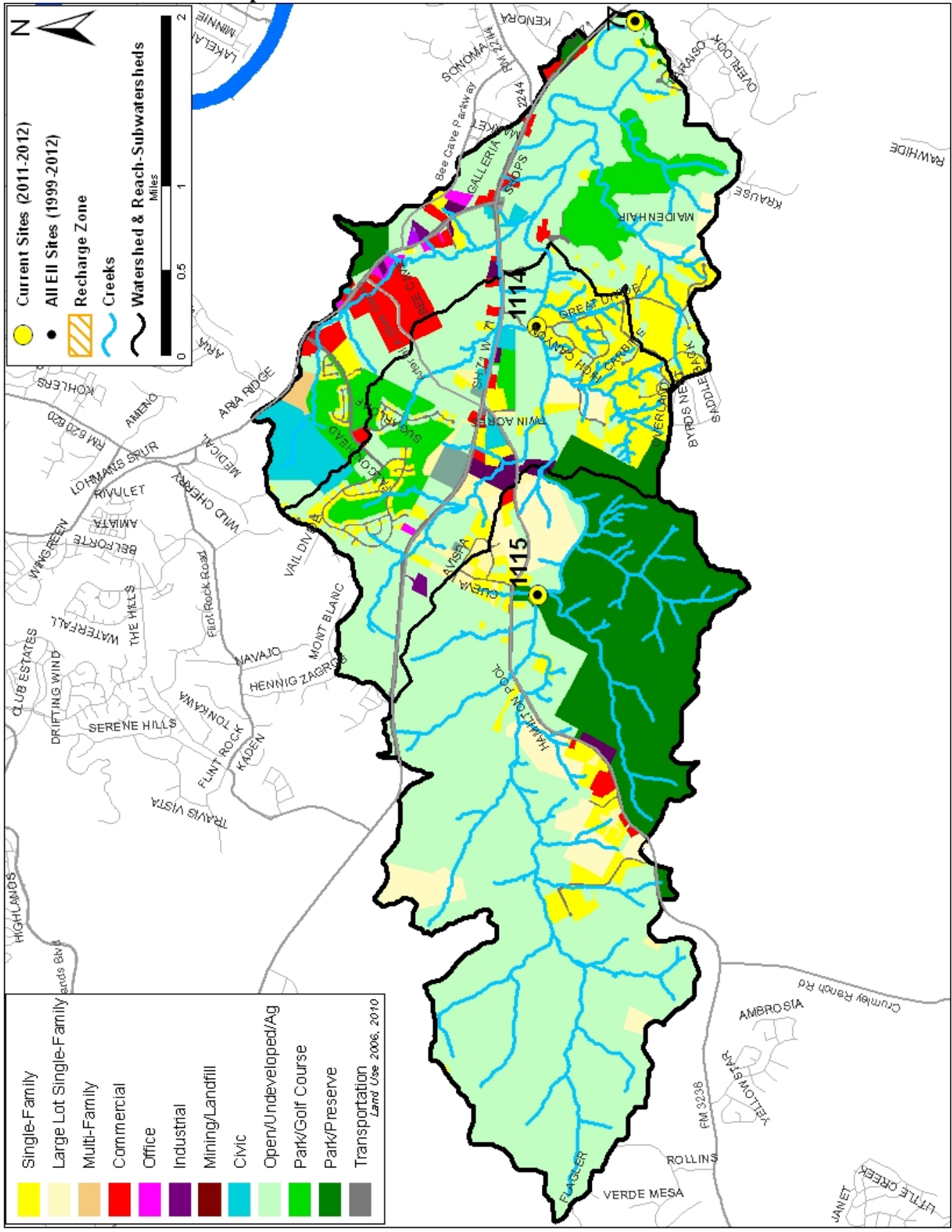
Index scores* for Little Barton Creek Sites by Year

Reach	Site	Site Name	Year	Water Quality	Sediment**	Contact Rec.	Non-Contact Rec.	Physical Integrity	Aquatic Life	Benthic subindex	Diatom subindex	Total EII Score
LBA1	77	Little Barton Creek @ Barton Creek	1998	78	95	95	95	73	87	77	96	87
LBA2	1114	Little Barton Creek @ Great Divide Dr	1998	76	95	92	89	89	76	61	91	86
LBA3	1115	Little Barton Creek @ Hamilton Pool Rd	1998	81	95	97	86	81	75	67	82	86
LBA1	77	Little Barton Creek @ Barton Creek	2001	64	92	87	81	71	73	73	72	74
LBA2	1114	Little Barton Creek @ Great Divide Dr	2001	68	92	94	98	89	71	61	81	81
LBA3	1115	Little Barton Creek @ Hamilton Pool Rd	2001	68	92	93	88	83	70	61	79	78
LBA1	77	Little Barton Creek @ Barton Creek	2004	73	90	63	86	66	92	89	95	78
LBA2	1114	Little Barton Creek @ Great Divide Dr	2004	63	90	47	92	73	93	94	92	76
LBA3	1115	Little Barton Creek @ Hamilton Pool Rd	2004	66	90	45	84	64	84	79	89	72
LBA1	77	Little Barton Creek @ Barton Creek	2007	72	85	82	94	78	71	71		80
LBA2	1114	Little Barton Creek @ Great Divide Dr	2007	66	85	66	94	81	70	79	60	77
LBA3	1115	Little Barton Creek @ Hamilton Pool Rd	2007	67	85	58	88	75	60	82	37	72
LBA1	77	Little Barton Creek @ Barton Creek	2010	79	85	97	100	76	96	99	92	89
LBA2	1114	Little Barton Creek @ Great Divide Dr	2010	78	85	86	100	86	94	100	88	88
LBA3	1115	Little Barton Creek @ Hamilton Pool Rd	2010	84	85	94	98	93	83	90	76	90
LBA1	77	Little Barton Creek @ Barton Creek	2012	71	87	92	88	75	100	100	100	86
LBA2	1114	Little Barton Creek @ Great Divide Dr	2012	59	87	67	72	88	97	100	94	78
LBA3	1115	Little Barton Creek @ Hamilton Pool Rd	2012	60	87	75	91	83	94	90	98	82

* blank cells indicate parameter was not collected, blank row indicate site was dropped **sediment samples only collected at the downstream site
 100-87.5 Excellent 87.5-75 V. Good 75-62.5 Good 62.5-50 Fair 50-37.5 Marginal 37.5-25 Poor 25-12.5 Bad 12.5-0 V. Bad

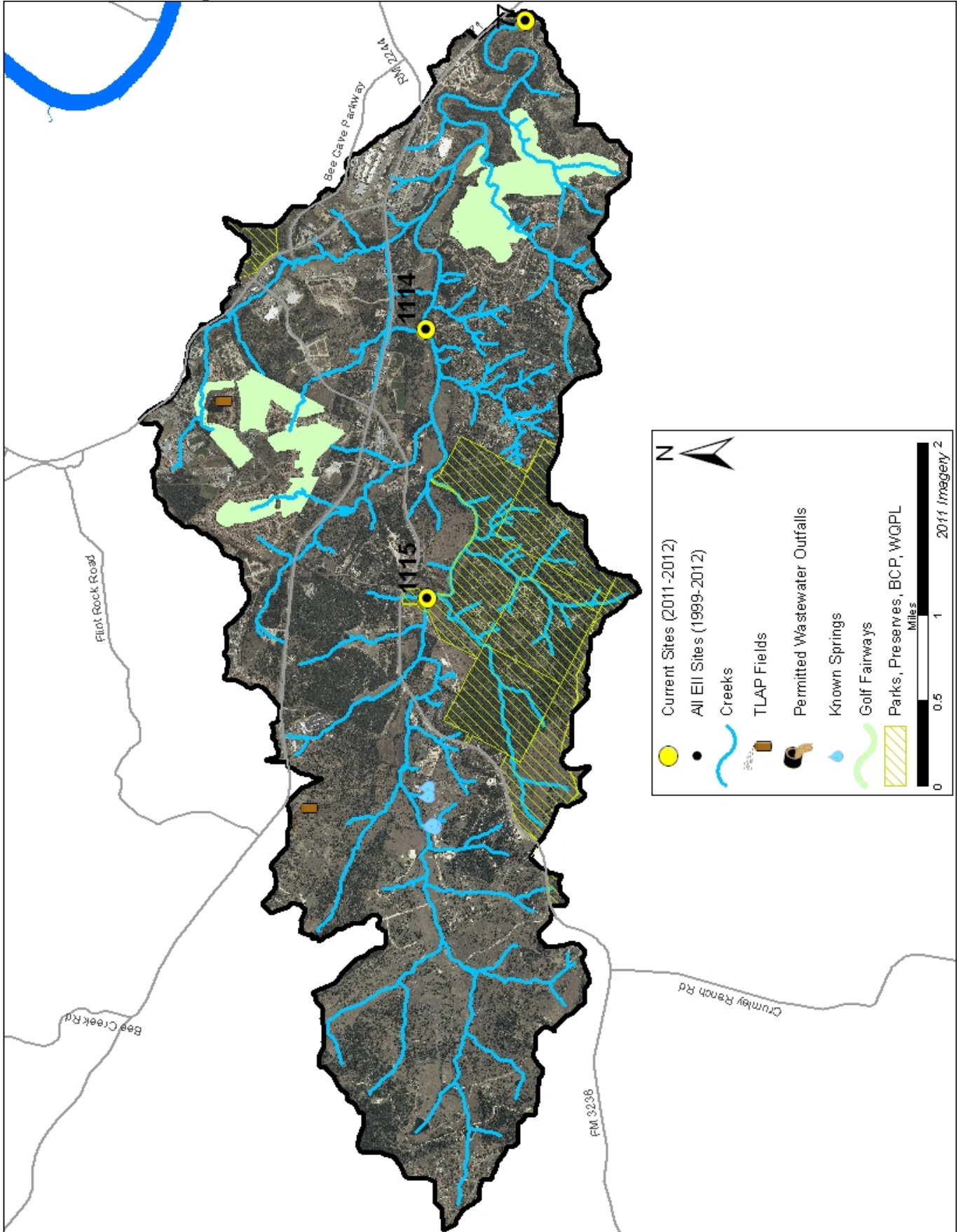
Little Barton Creek Watershed

Land Use Map



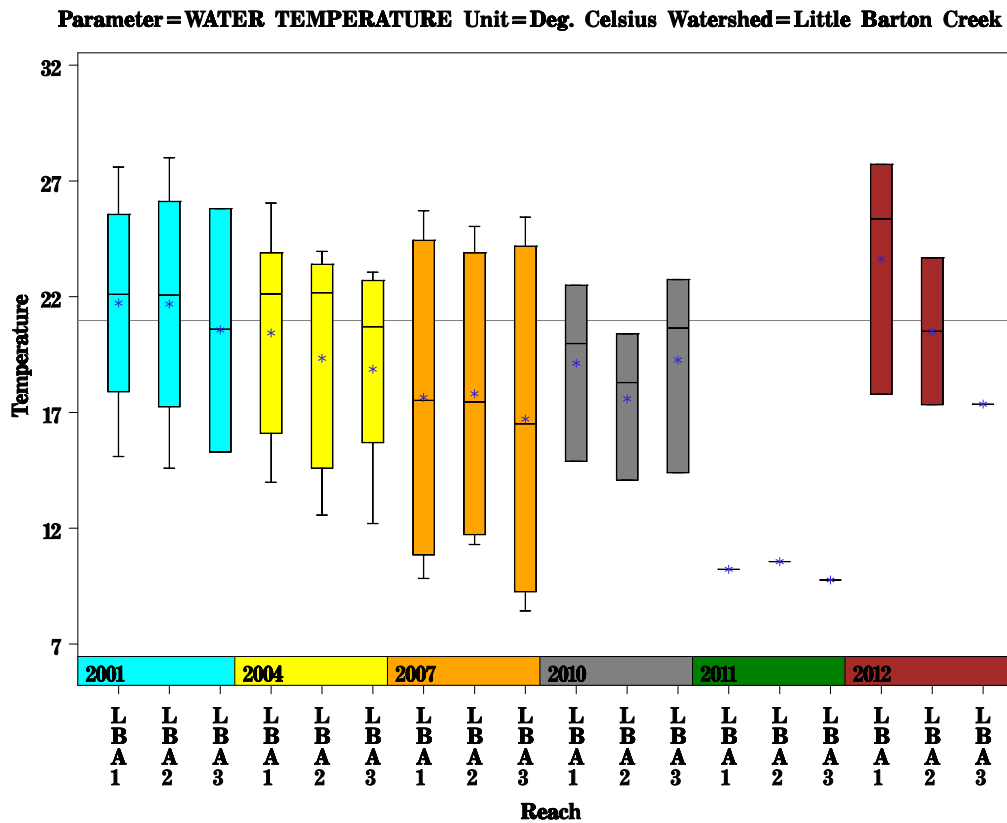
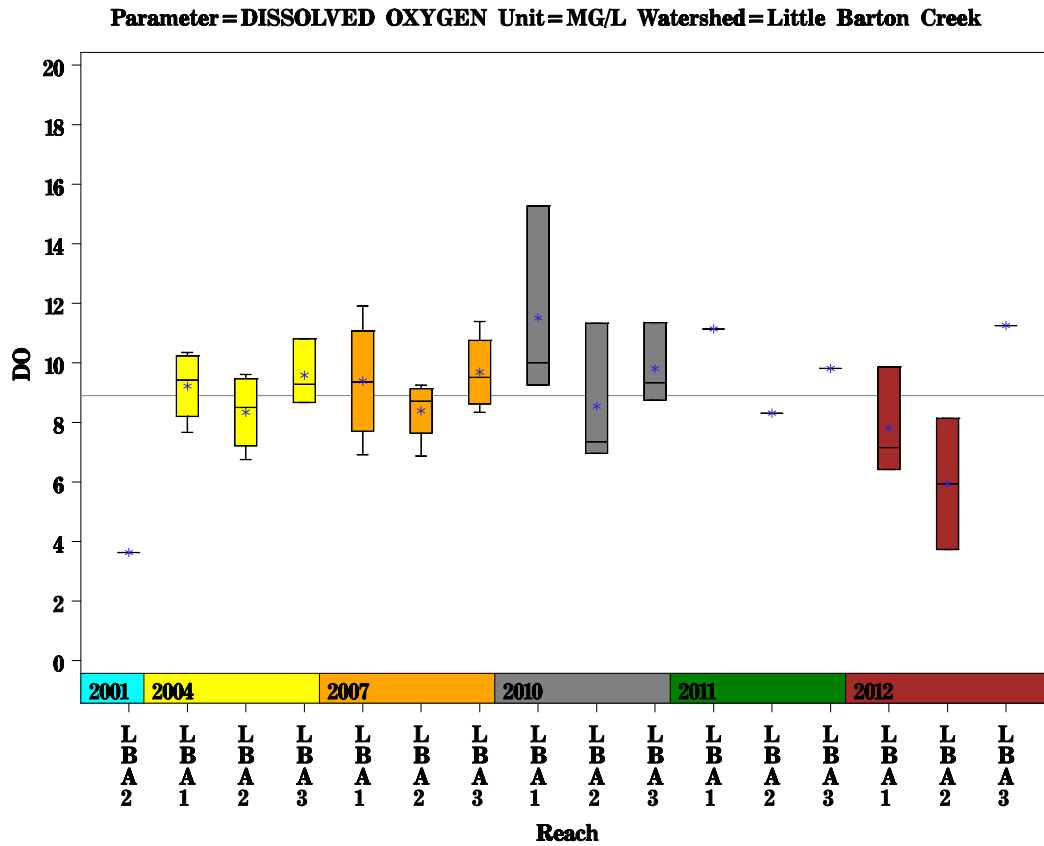
Little Barton Creek Watershed

Aerial Map



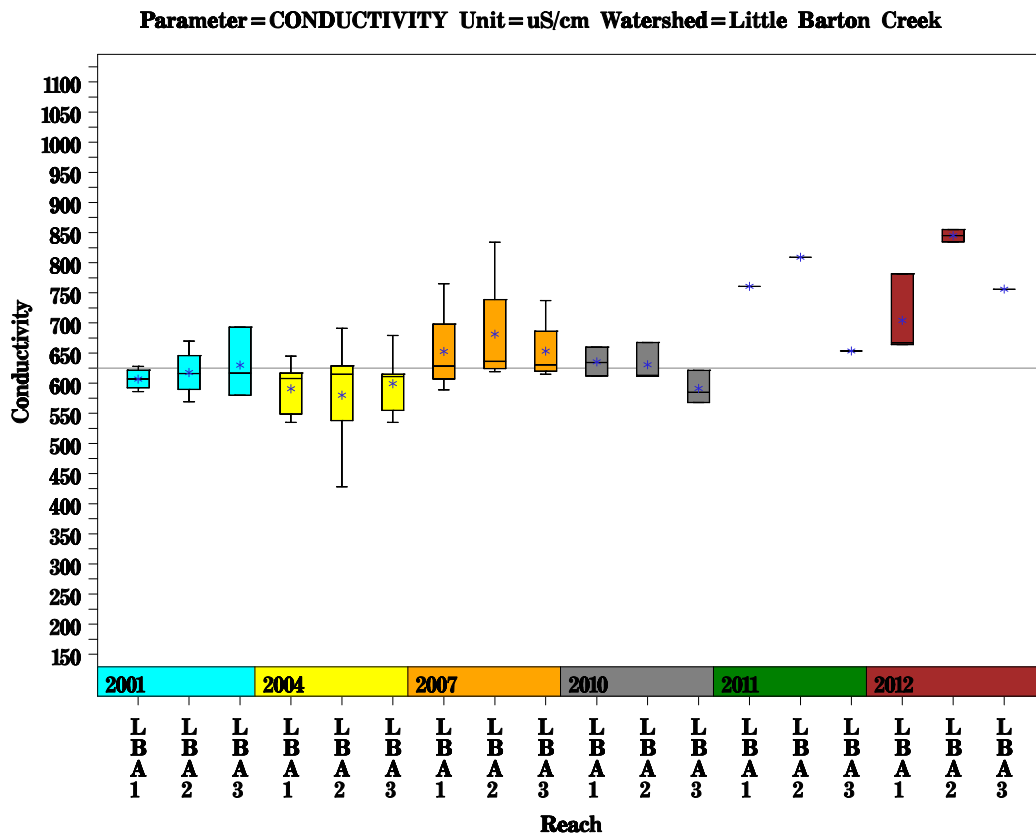
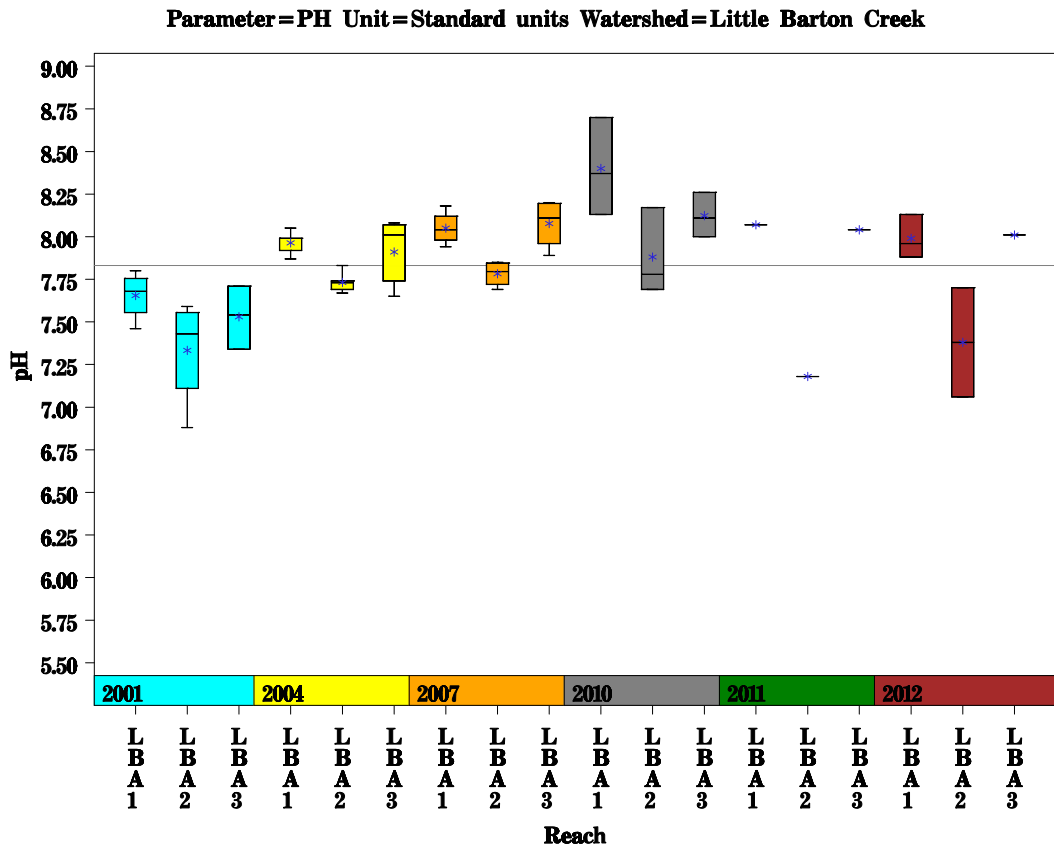
Little Barton Creek Watershed

Data Summary Graphs – Dissolved Oxygen and Temperature (Downstream to Upstream by Year)



Little Barton Creek Watershed

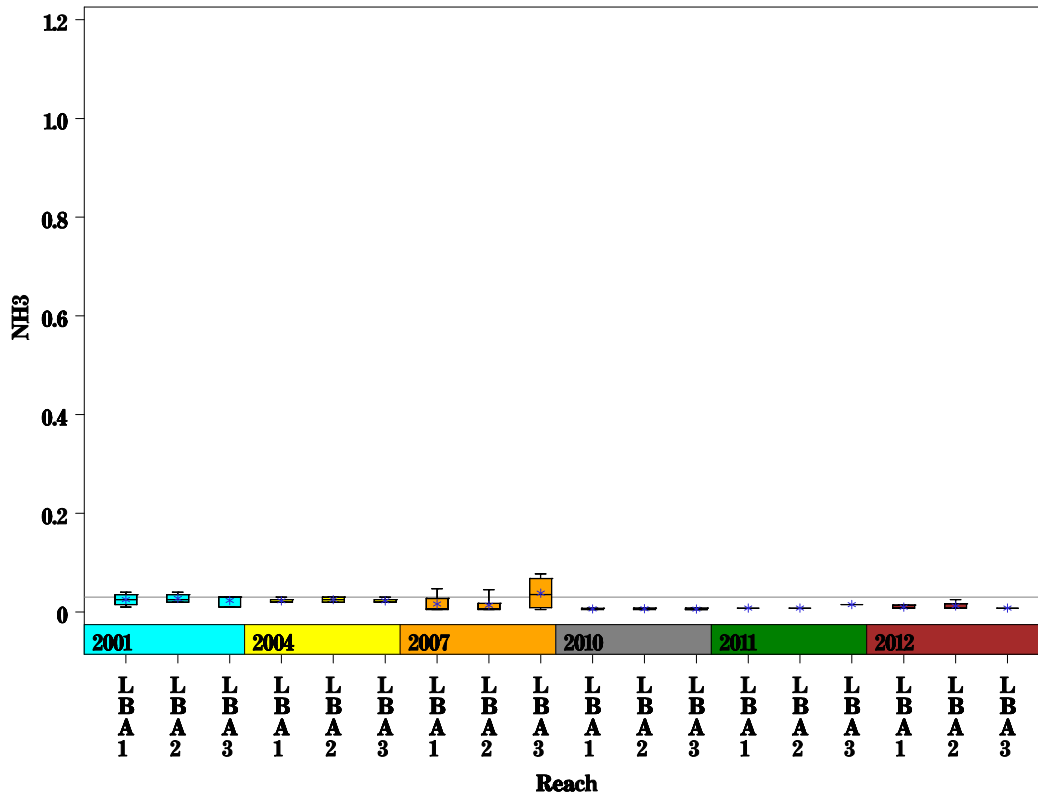
Data Summary Graphs – pH and Conductivity (Downstream to Upstream by Year)



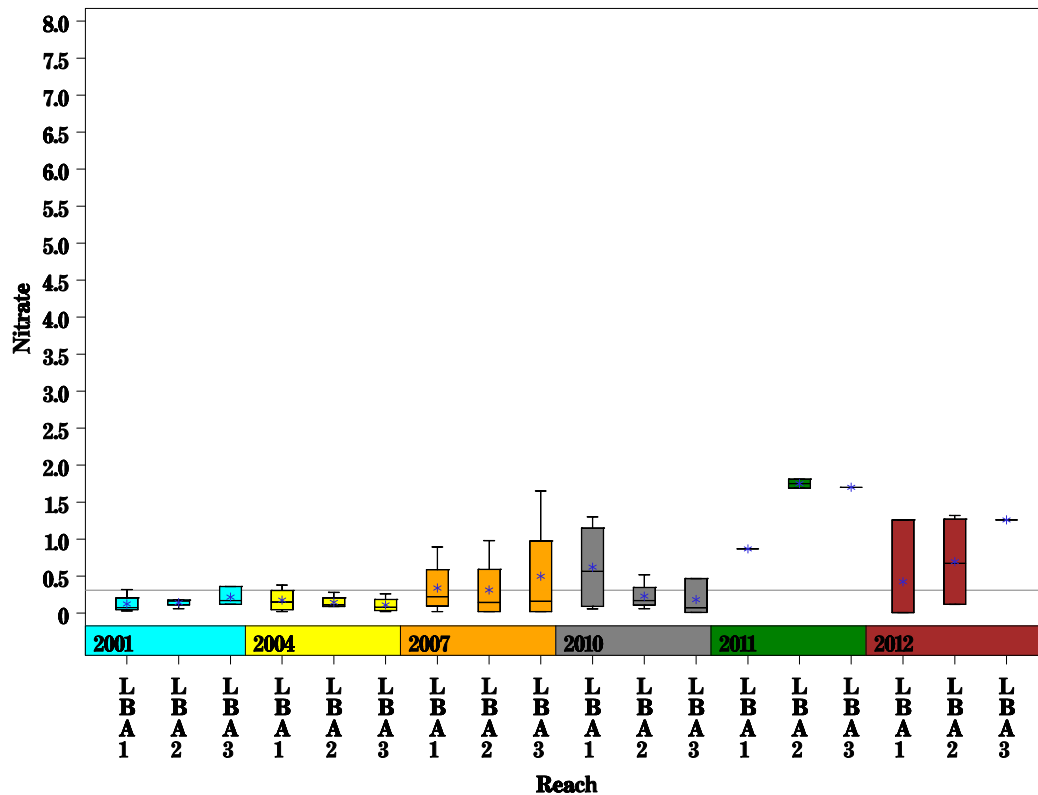
Little Barton Creek Watershed

Data Summary Graphs – Ammonia and Nitrate/Nitrite (Downstream to Upstream by Year)

Parameter=AMMONIA AS N Unit=MG/L Watershed=Little Barton Creek

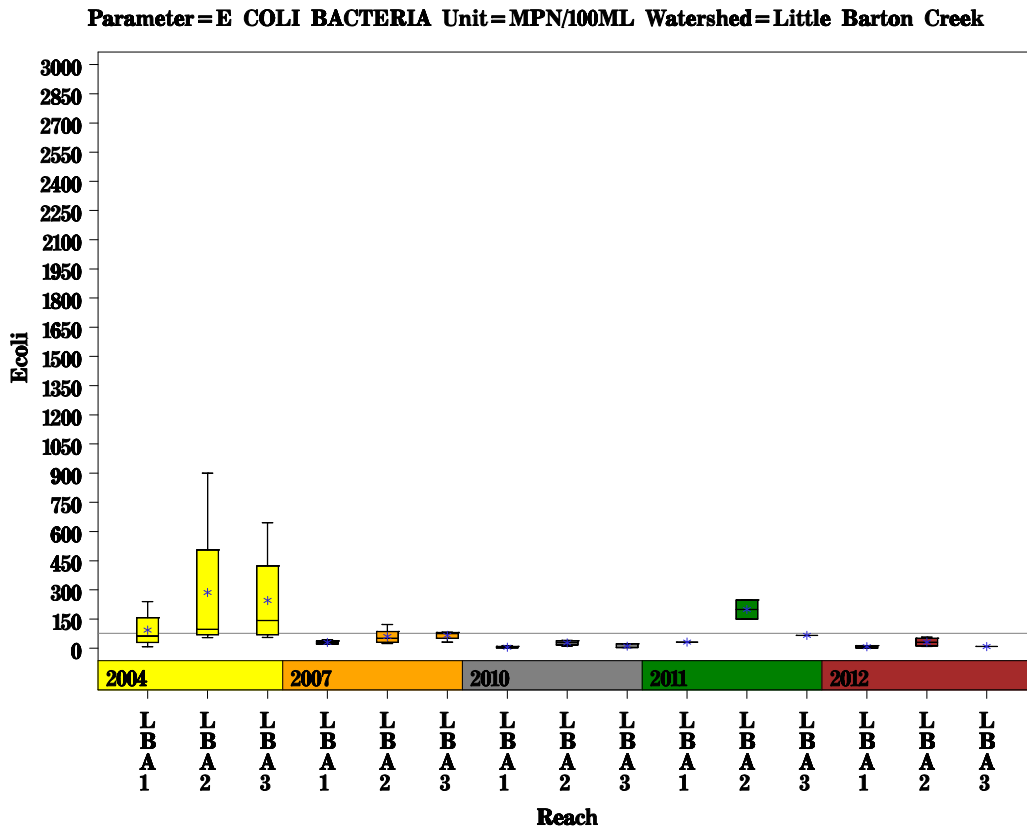
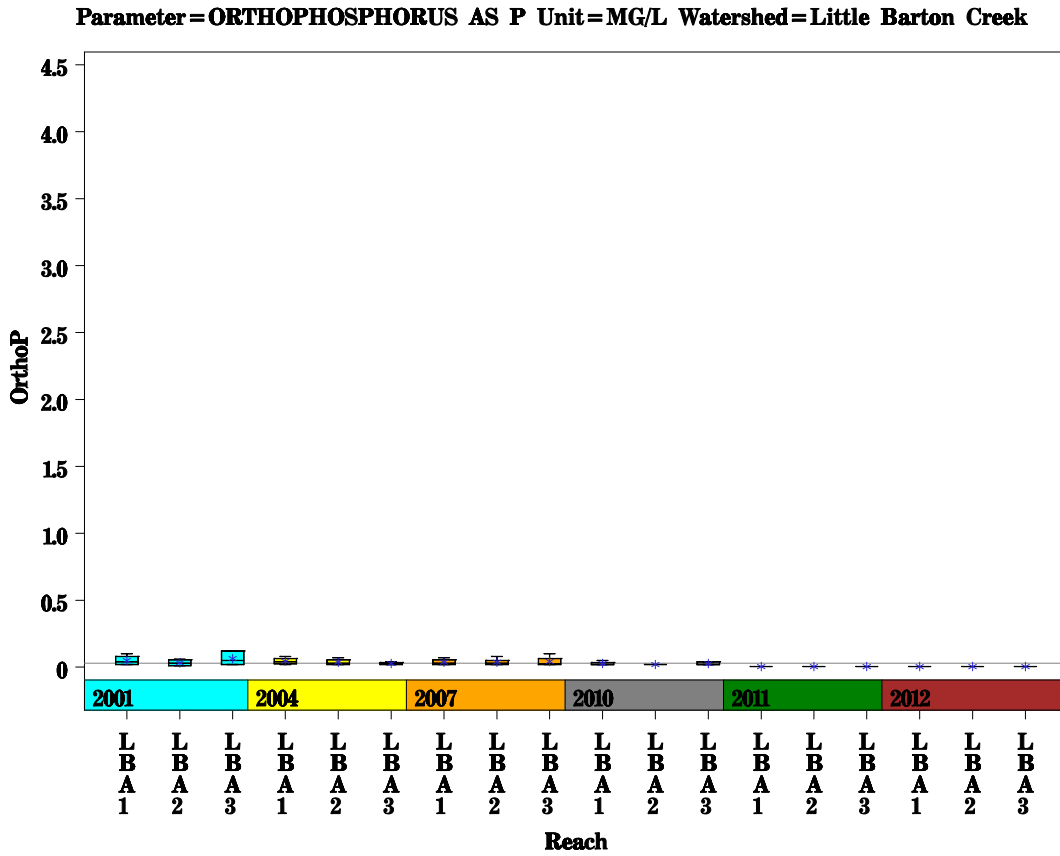


Parameter=NITRATE AS N Unit=MG/L Watershed=Little Barton Creek



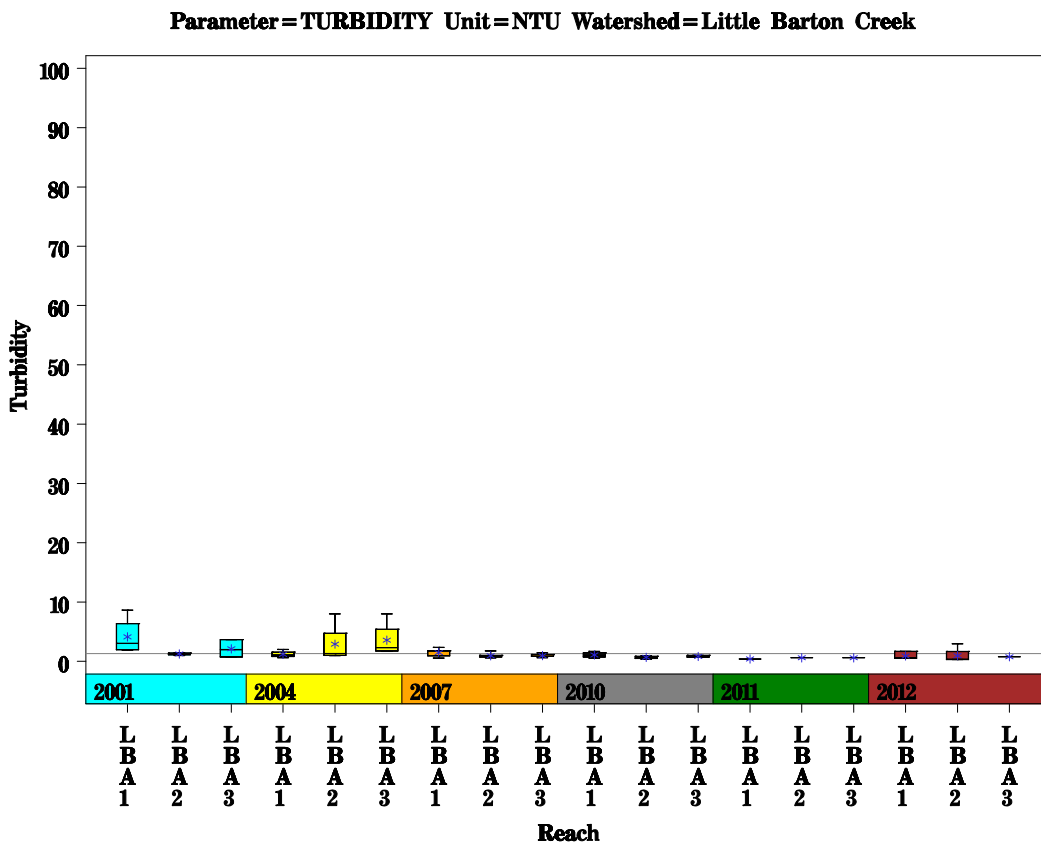
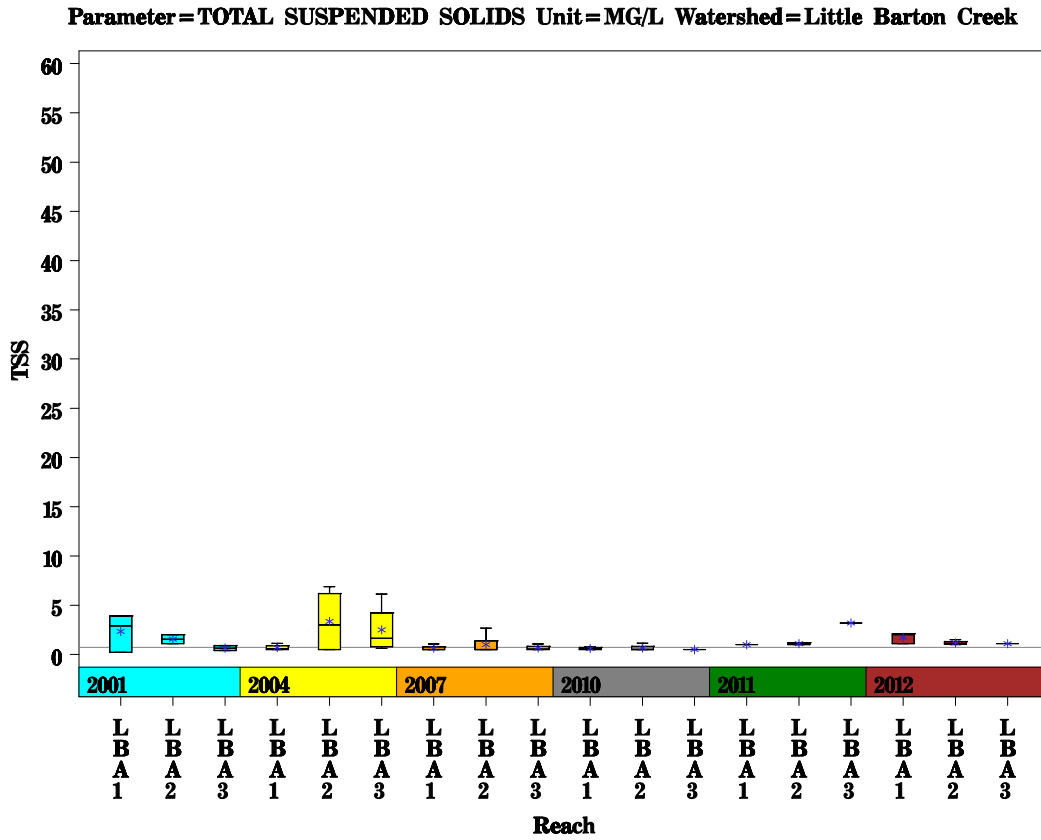
Little Barton Creek Watershed

Data Summary Graphs – Orthophosphate and E.coli (Downstream to Upstream by Year)



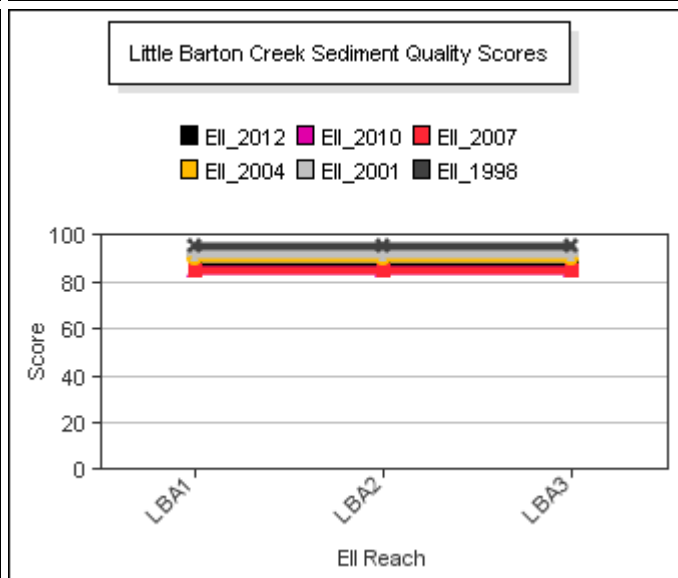
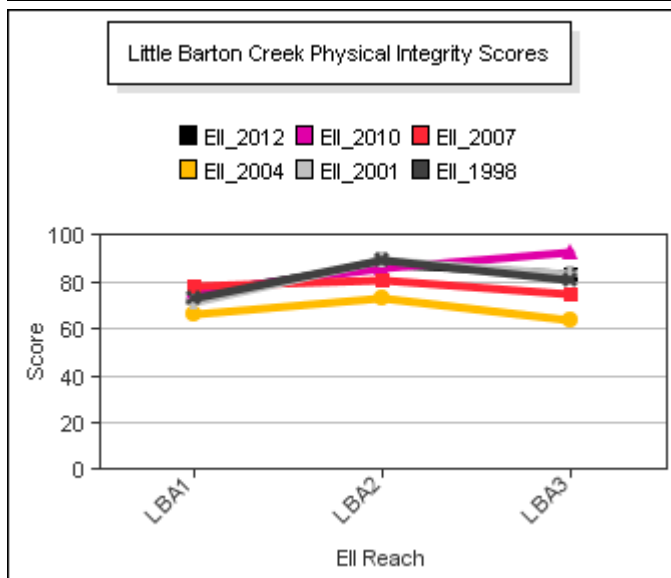
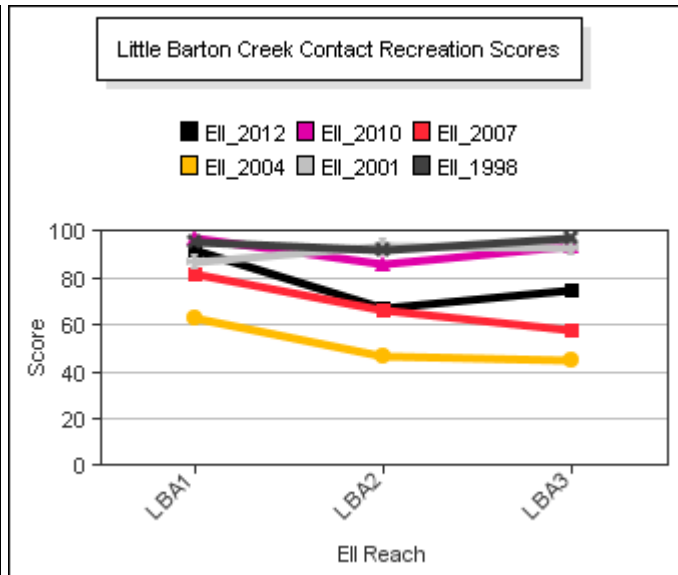
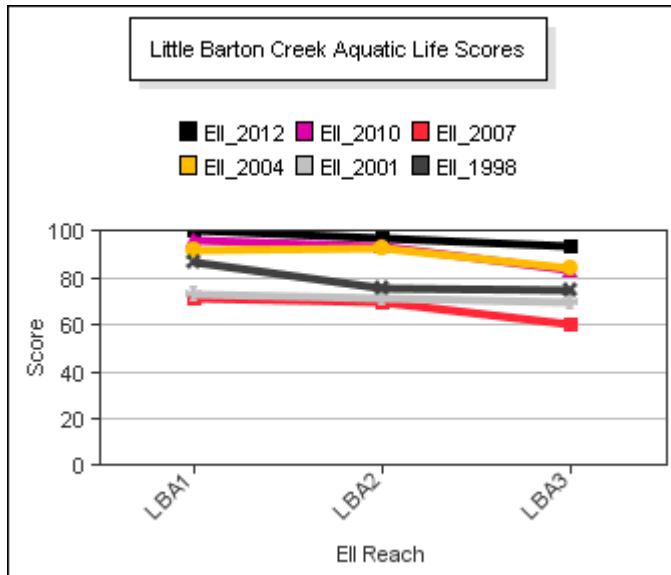
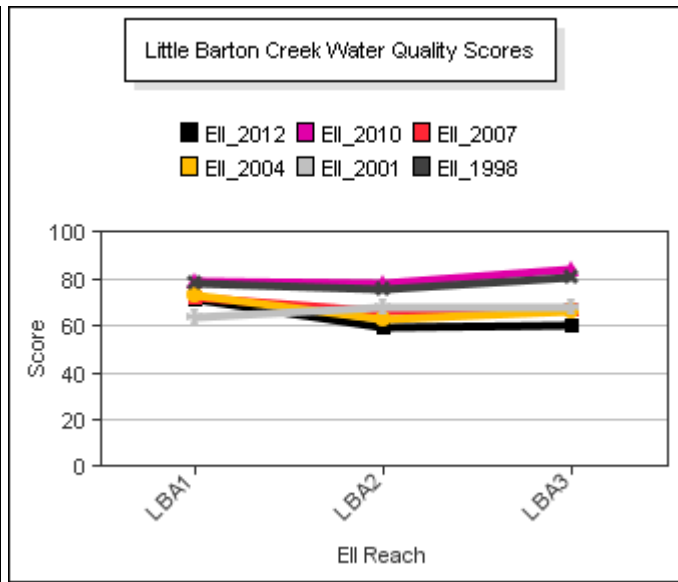
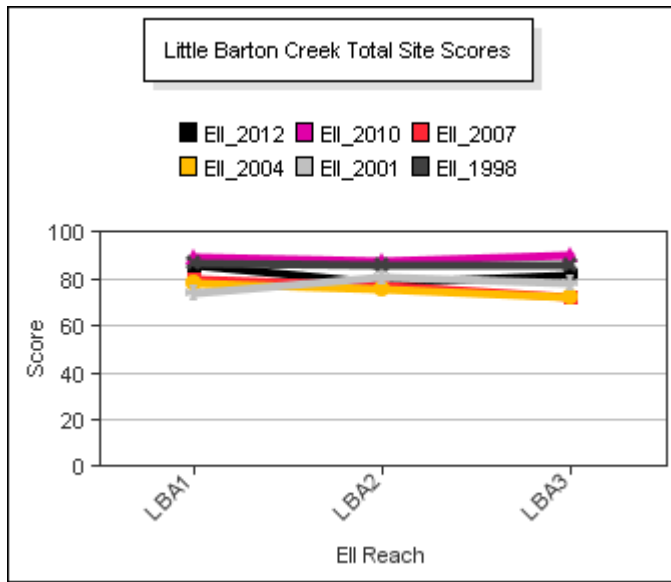
Little Barton Creek Watershed

Data Summary Graphs – Total Suspended Solids and Turbidity (Downstream to Upstream by Year)



Little Barton Creek Watershed

Score Summary – Reach scores for each sample year



Little Barton Creek Watershed

Site Photographs



1115_00-us-05_24_2010



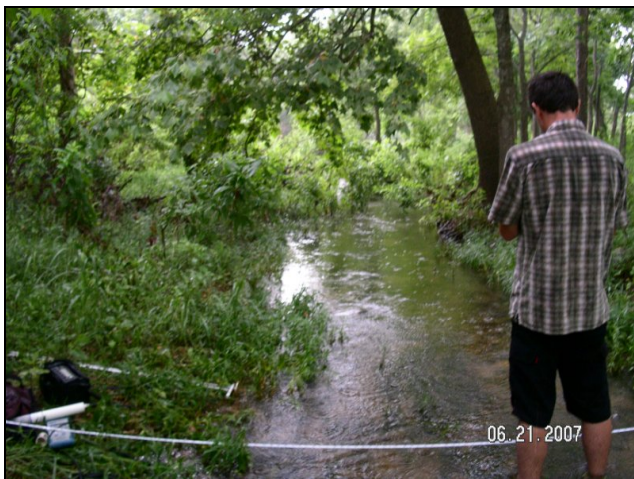
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1115_ds_06_21_2007



1114_t00-ur-05_19_2004



1114_us_06_21_2007



1114_00-ur-05_24_2010

Little Barton Creek Watershed

Site Photographs



77-panC-03_04_2010



77_00-us-05_24_2010



77_00-ds-05_24_2010



77_t00-us-05_19_2004



77_t00-ds-05_19_2004

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