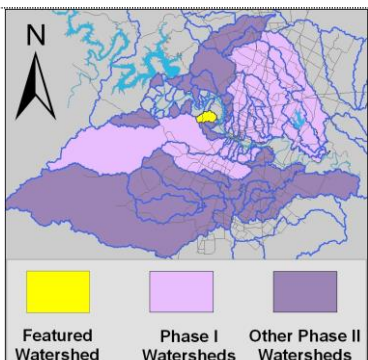


Bee Creek Watershed

Summary Sheet

Catchment	Total area		3.3 sq. miles		
	Area in recharge		none		
	Creek length		3 miles		
	Receiving water		Lake Austin		
Demographics	2000 population		2,037		
	2030 projected population		10,984		
	30 year projected % increase		439 %		
Land Use	Impervious cover (2003 estimate)		14.76 %		
Overall EII Scores	2001	2004	2007	2010	2012
	78	75	81	80	79

N





Featured Watershed



Phase I Watersheds



Other Phase II Watersheds

Flow Regime* for Sample Sites on Bee 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
1104	Loop 360	B	B	B	B	B	B	B	B	S	B	B	B	B	B	B	B	B	B
322	Roadrunner	B	B	B	B	B	B	B	B	S	B	B	B	B	B	B	B	B	B
319	LKA	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 Bee Creek

Summary	Parameter	Mean	Max	Min	Discussion
Physicochemical	D.O. mg/l	8.3	10.1	5.0	Mostly within normal range, some low values.
	pH st.units	7.68	8.05	7.2	Mostly within normal range, low values at site 1104.
	Cond uS/cm	1296	2707	850	Consistently high readings, only within normal range during March, 2012.
Nutrients	NH ₃ mg/l	0.039	0.119	0.008	Mostly within normal range with some high values at site 1104.
	NO ₃ mg/l	1.896	4.620	0.008	Within normal range.
	Ortho P mg/l	0.004	0.004	0.004	Consistently low.
Sediment Load	TSS mg/l	3.7	24.7	1.0	Mostly within range, some high values at mouth site.
	Turbidity ntu	1.91	7.09	0.34	Wide range of values, but within normal range.
Biology	E.Coli /100ml	139	517	16	Within normal range, consistently higher readings at site 322.
Benthic Macroinvertebrates and Diatoms: evaluations are provided in the introduction of this report					

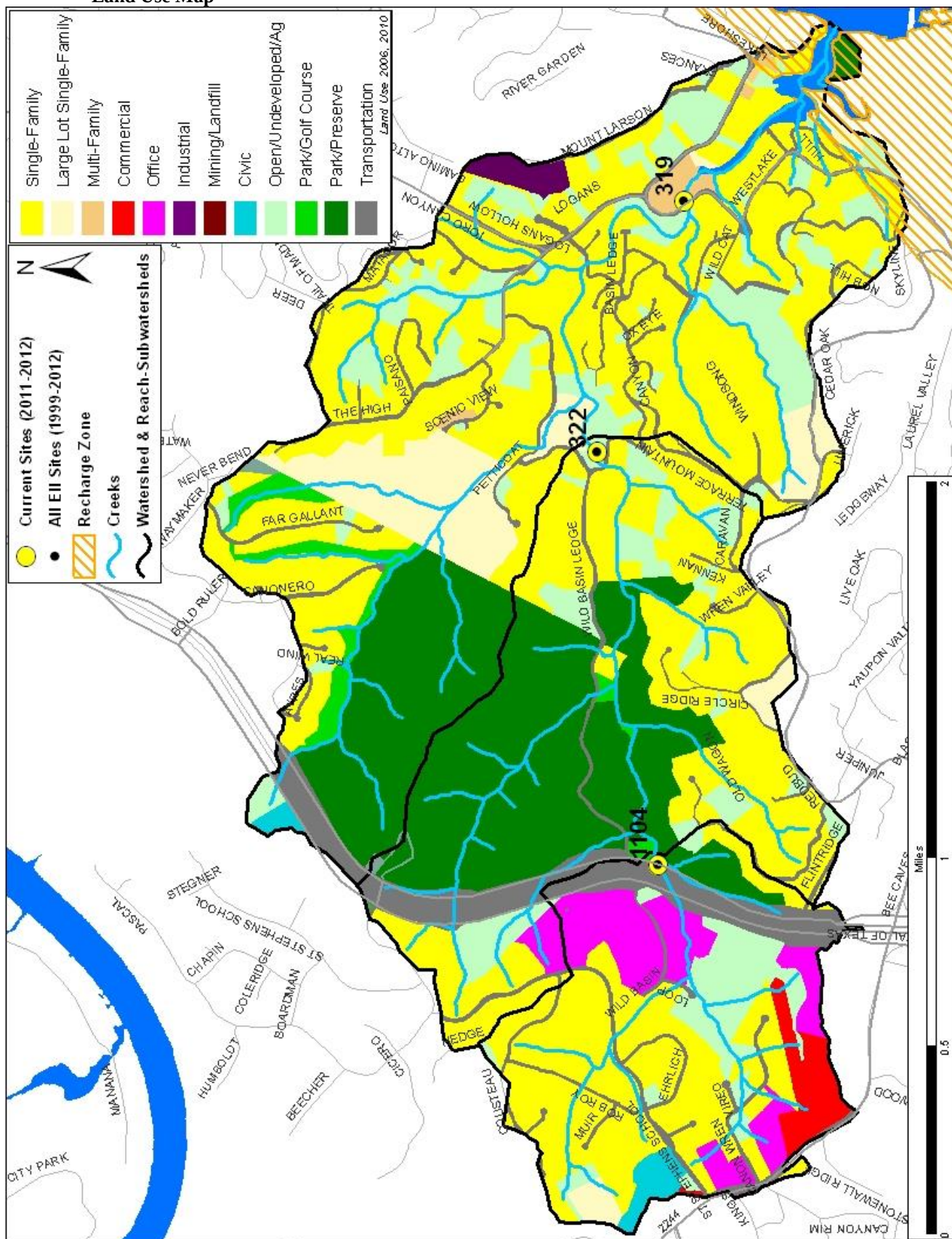
Index scores* for Bee Creek Sites by Year

Reach	Site	Site Name	Year	Water Quality	Sediment**	Contact Rec.	Non-Contact Rec.	Physical Integrity	Aquatic Life	Benthic subindex	Diatom subindex	Total EII Score
BEE1	319	Bee Creek @ Lake Austin	1998	70	85	97	85	68	76	65	86	80
BEE2	322	Bee Creek @ Road Runner Rd	1998	63	85	83	92	86	87	74	100	83
BEE3	1104	Bee Creek @ Loop 360	1998	47	85	82	70	69	62	52	71	69
BEE1	319	Bee Creek @ Lake Austin	2001	60	94	93	84	70	64	43	85	74
BEE2	322	Bee Creek @ Road Runner Rd	2001	58	94	86	88	69	83	75	91	76
BEE3	1104	Bee Creek @ Loop 360	2001	59	94	81	94	84	54	37	70	74
BEE1	319	Bee Creek @ Lake Austin	2004	63	85	60	87	81	87	83	91	77
BEE2	322	Bee Creek @ Road Runner Rd	2004	61	85	62	94	79	76	54	97	76
BEE3	1104	Bee Creek @ Loop 360	2004	47	85	46	89	82	82	74	90	72
BEE1	319	Bee Creek @ Lake Austin	2007	68	88	81	95	80	90	84	96	84
BEE2	322	Bee Creek @ Road Runner Rd	2007	65	88	79	98	79	87	75	98	83
BEE3	1104	Bee Creek @ Loop 360	2007	57	88	76	95	82	60	68	51	76
BEE1	319	Bee Creek @ Lake Austin	2010	63	85	81	100	76	94	87	100	83
BEE2	322	Bee Creek @ Road Runner Rd	2010	66	85	85	91	77	85	72	97	82
BEE3	1104	Bee Creek @ Loop 360	2010	55	85	59	96	82	83	78	88	77
BEE1	319	Bee Creek @ Lake Austin	2012	58	86	79	89	67	81	72	90	77
BEE2	322	Bee Creek @ Road Runner Rd	2012	45	86	37	98	89	94	100	88	75
BEE3	1104	Bee Creek @ Loop 360	2012	57	86	73	98	98	98	96	99	85

* blank cells indicate parameter was not collected, blank row indicate site was dropped **sediment samples only collected at the downstream site

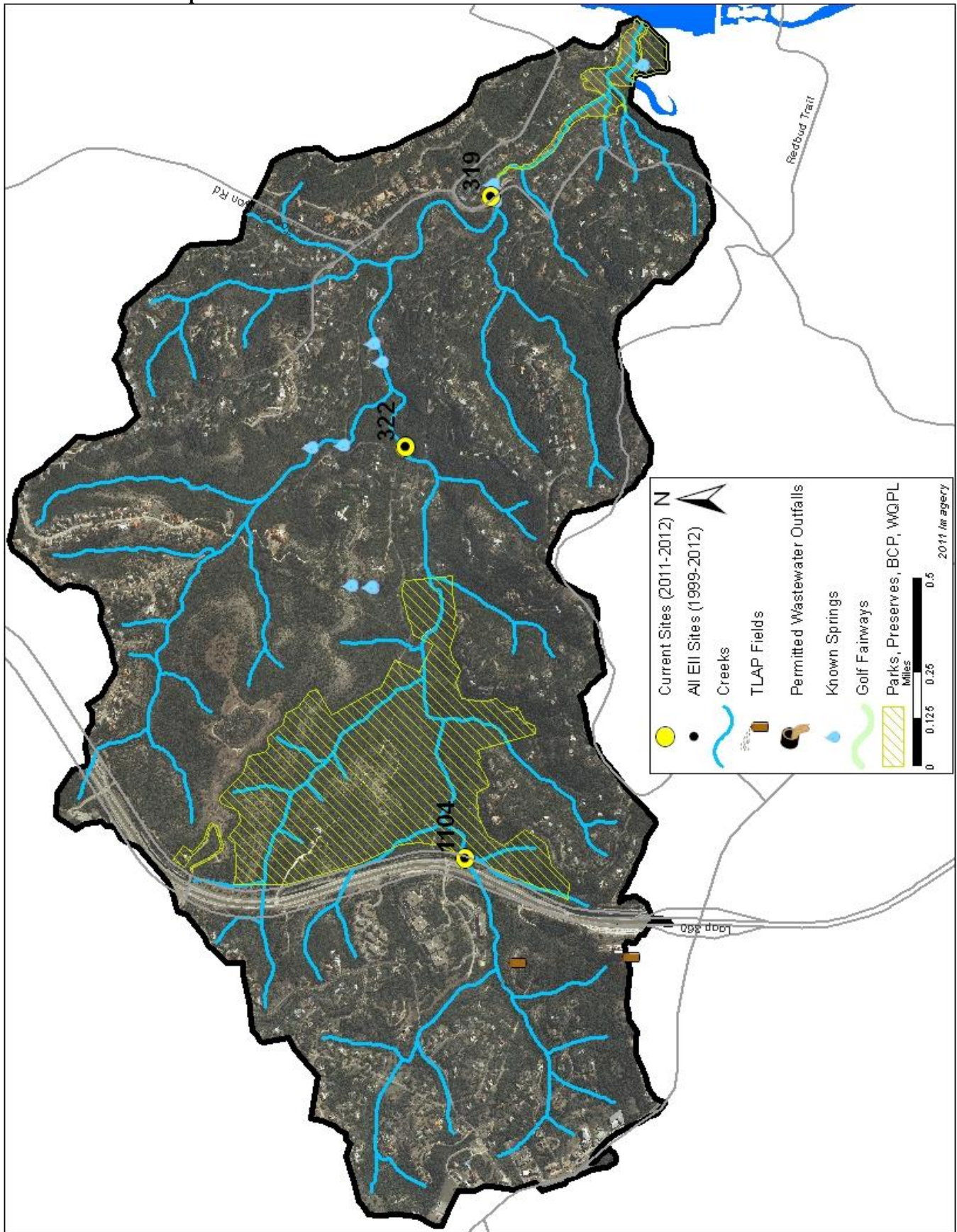
100-87.5 Excellent 87.5-75 V. Good 75-62.5 Good 62.5-50 Fair 50-37.5 Marginal 37.5-25 Poor 25-12.5 Bad 12.5-0 V. Bad

Land Use Map



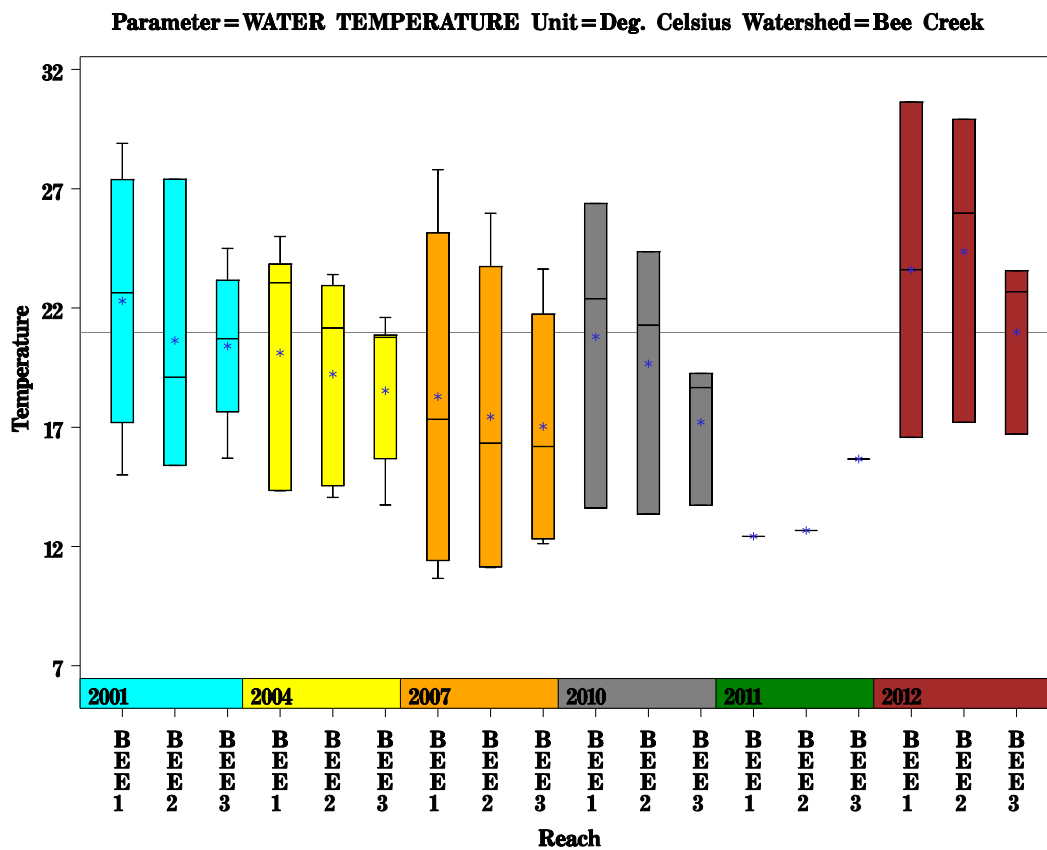
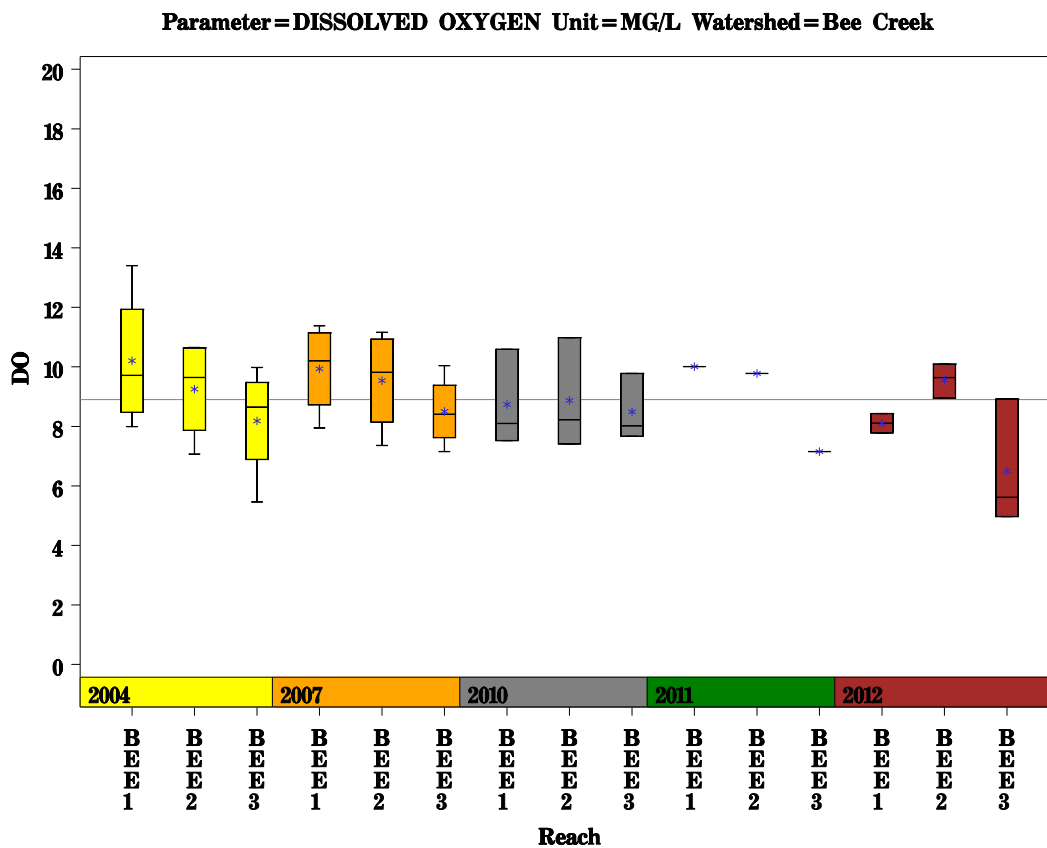
Bee Creek Watershed

Aerial Map



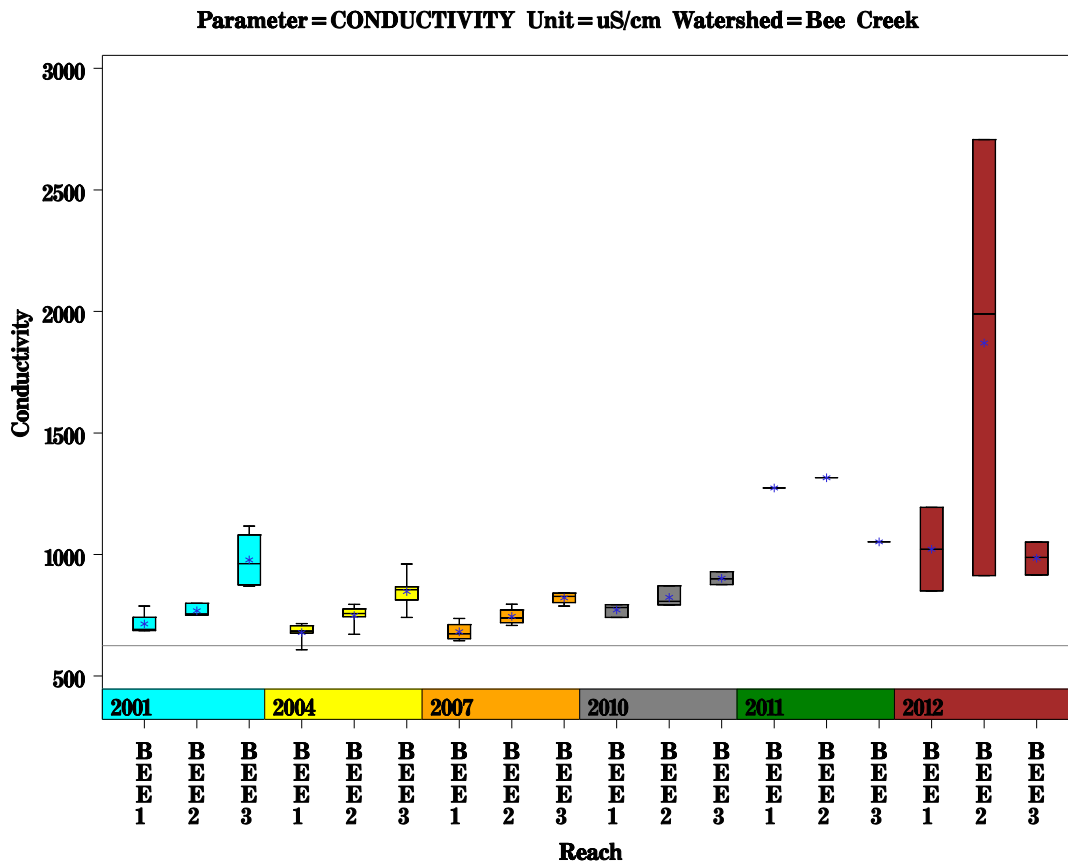
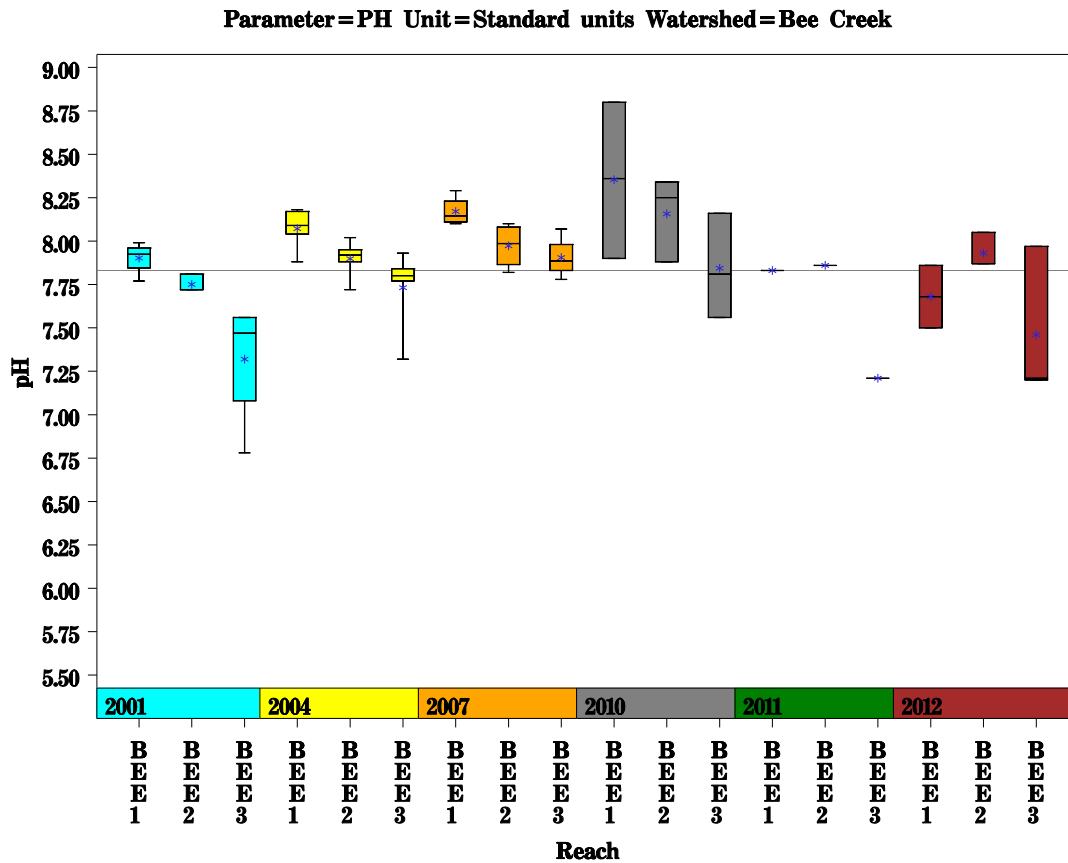
Bee Creek Watershed

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



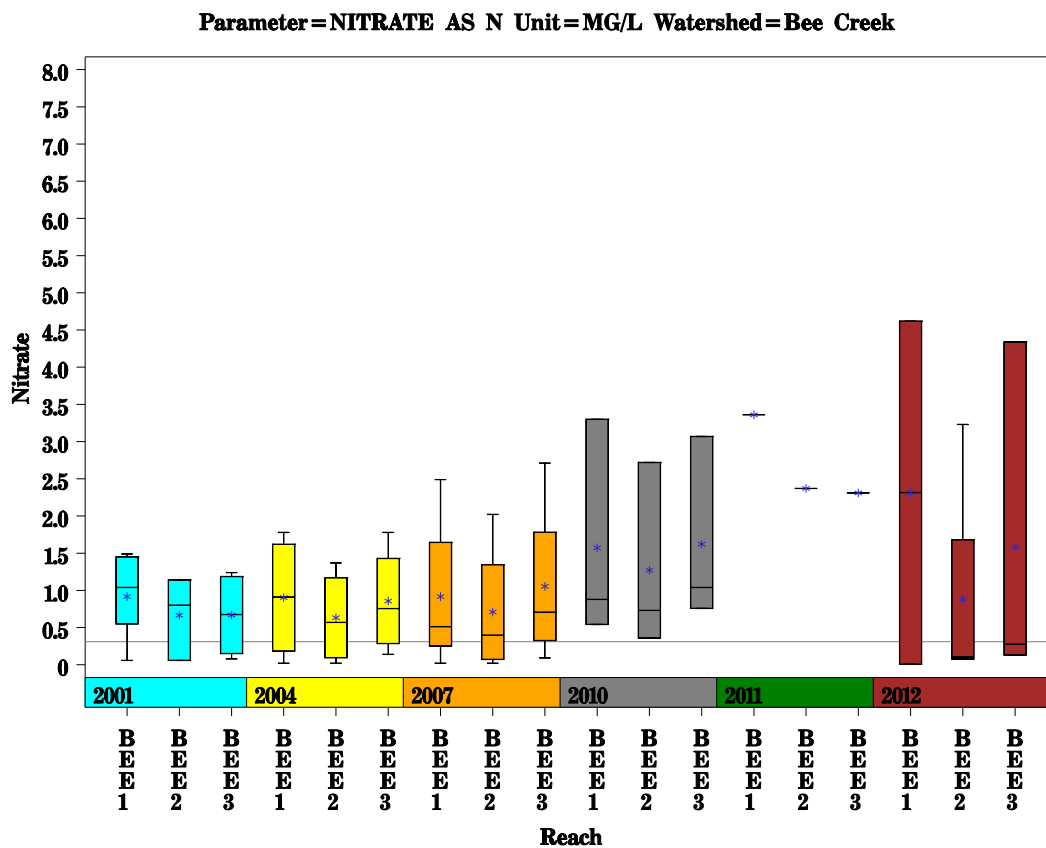
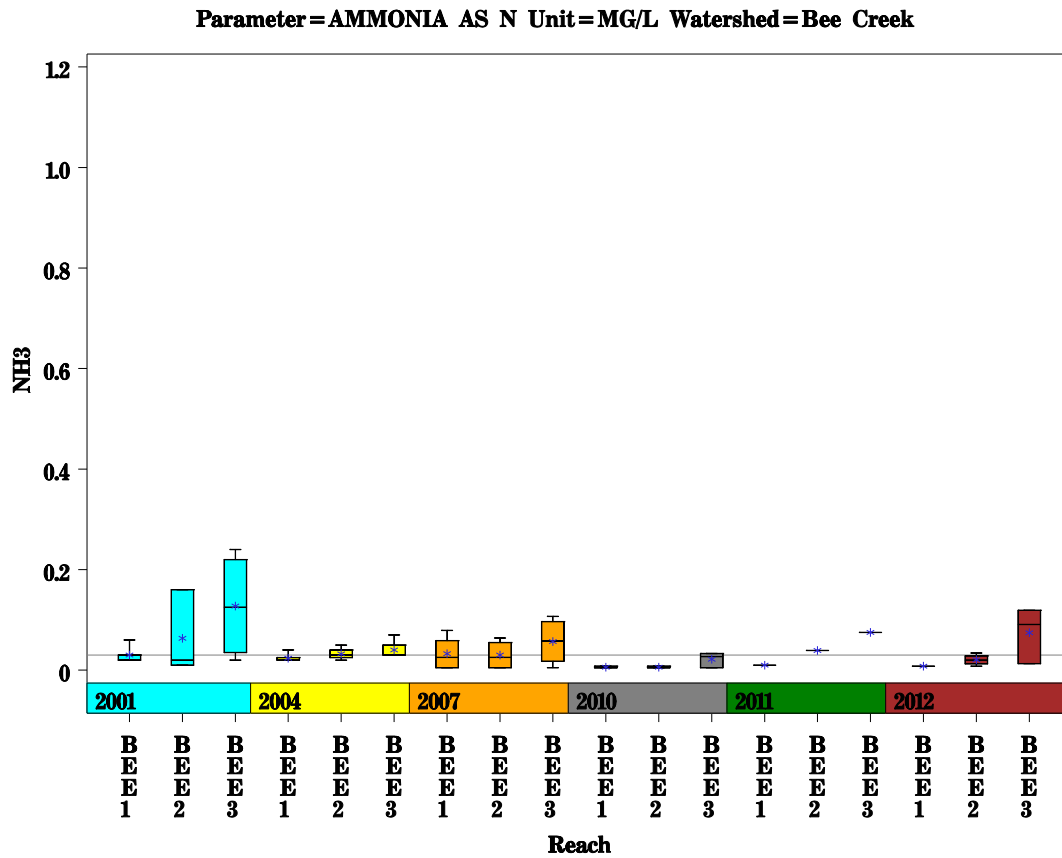
Bee Creek Watershed

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



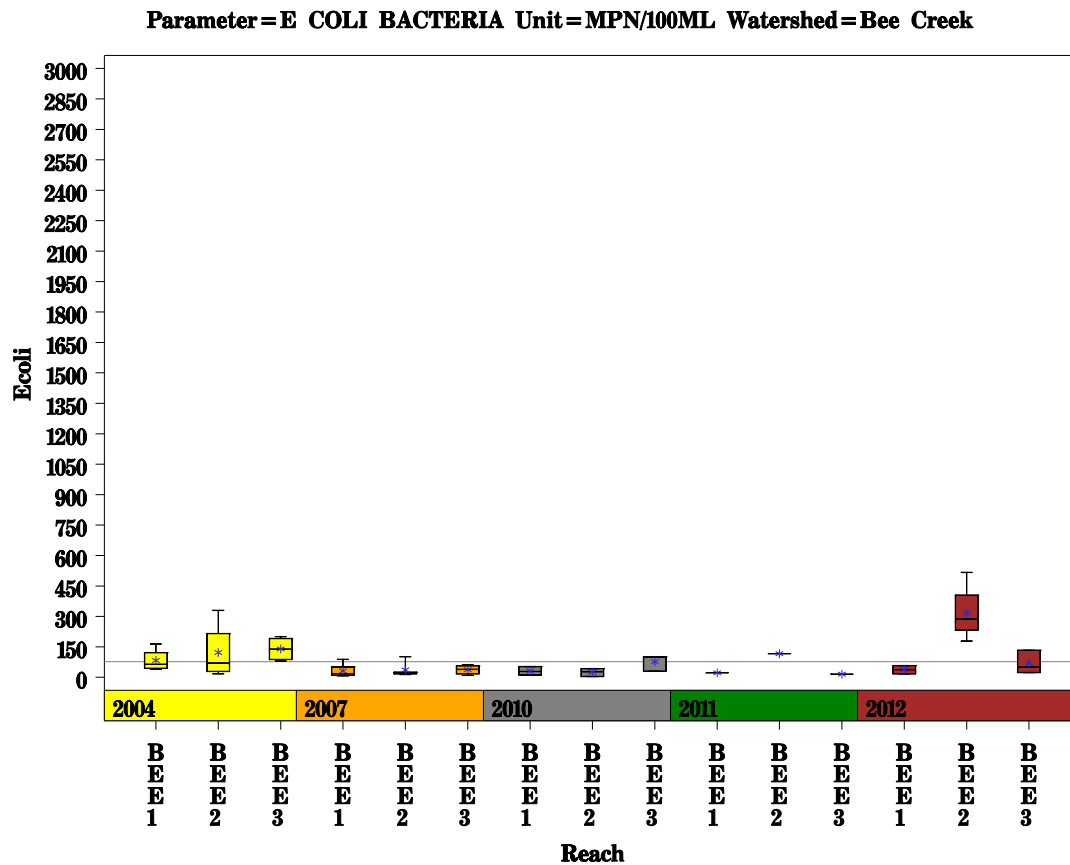
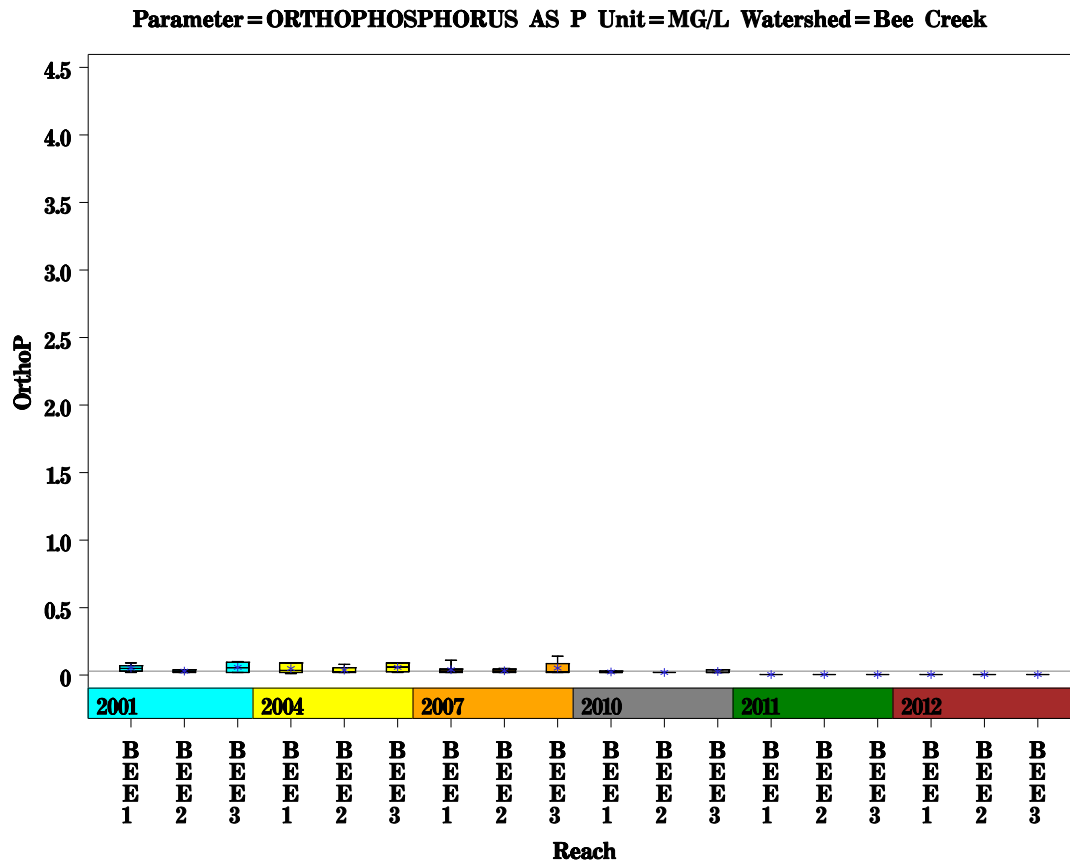
Bee Creek Watershed

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



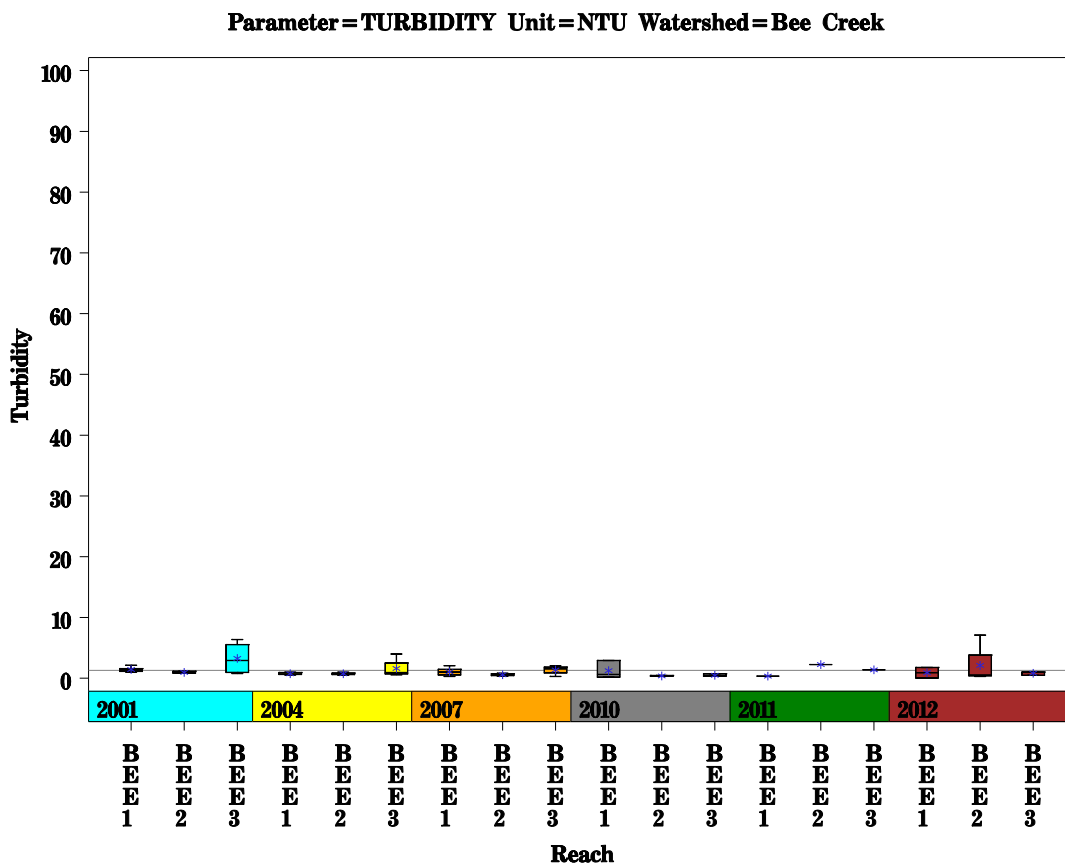
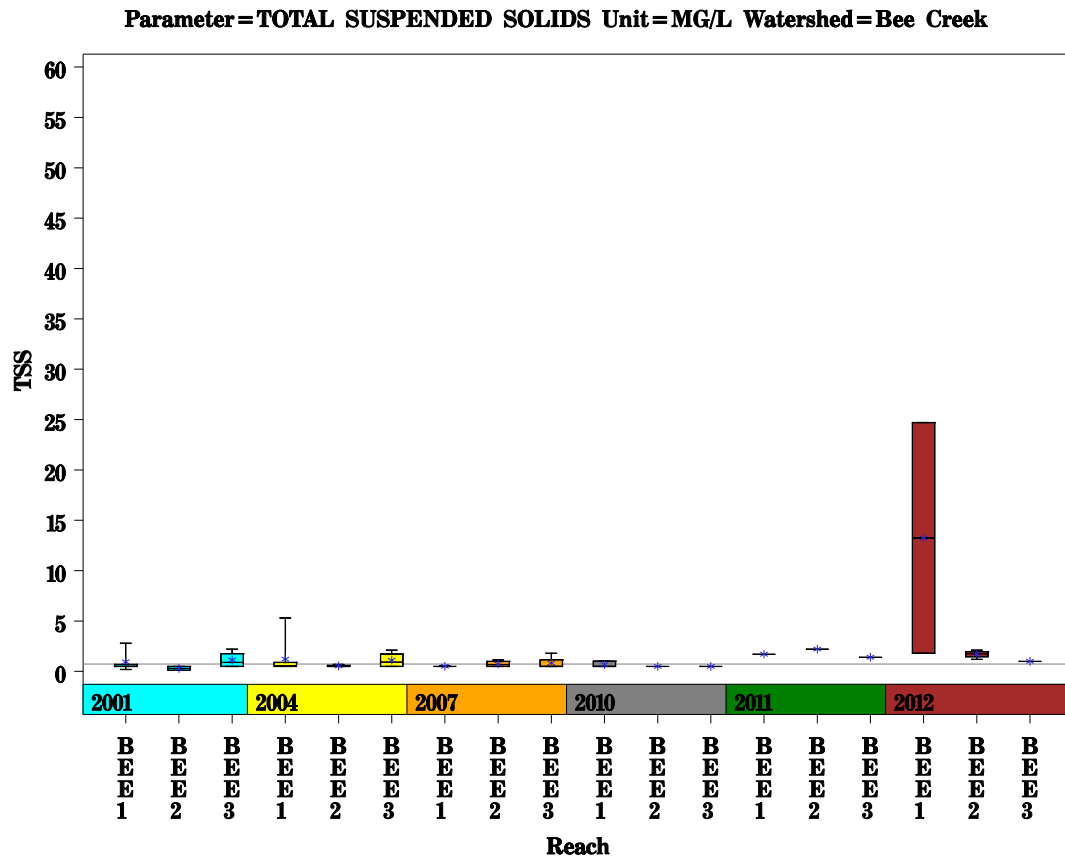
Bee Creek Watershed

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



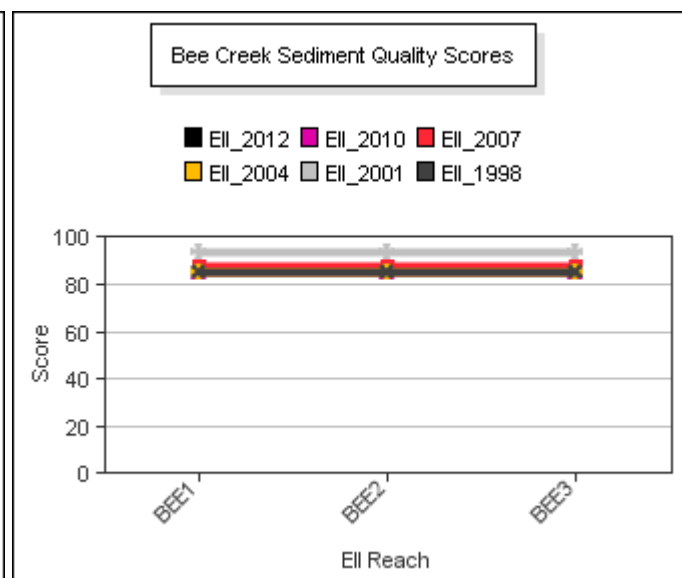
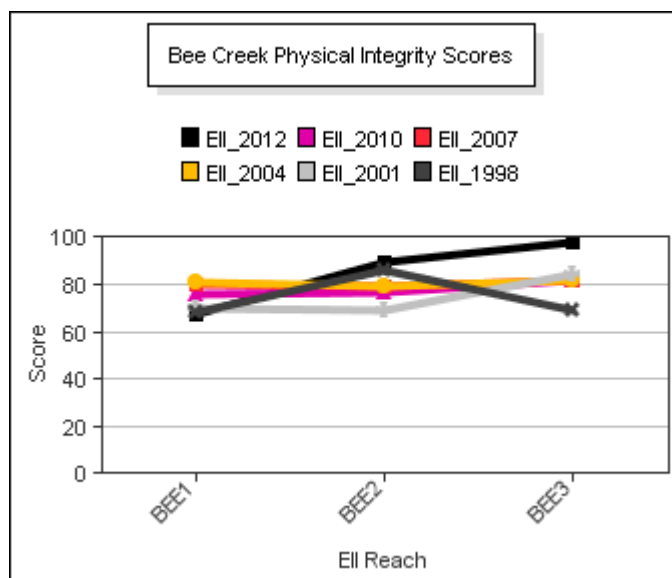
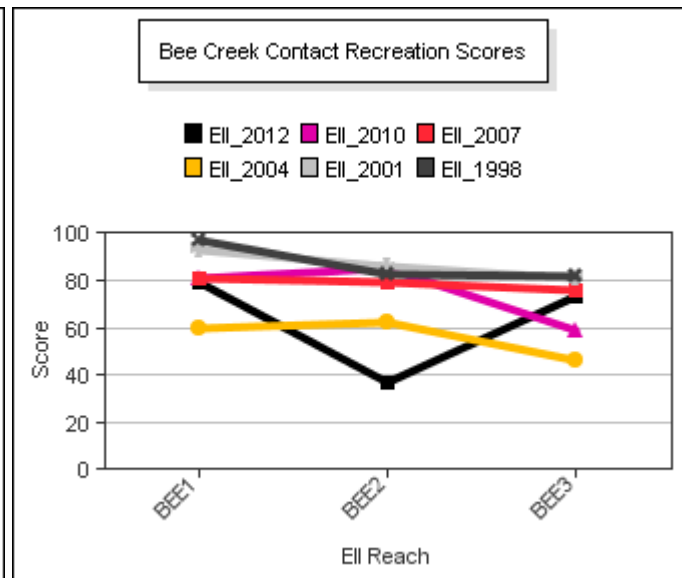
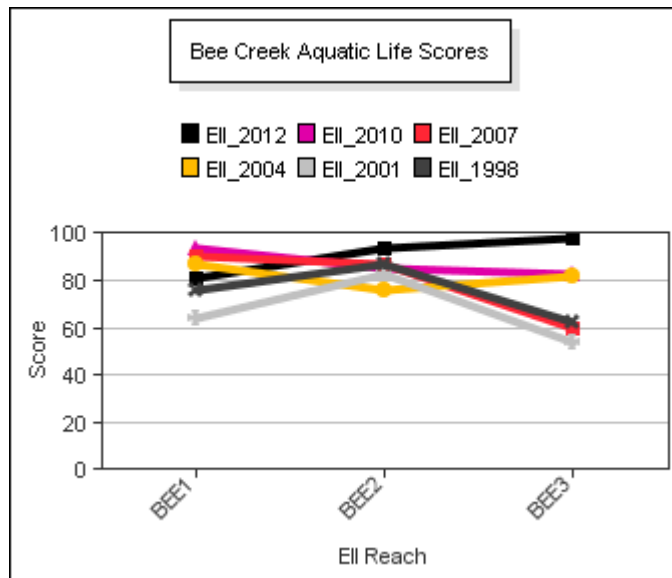
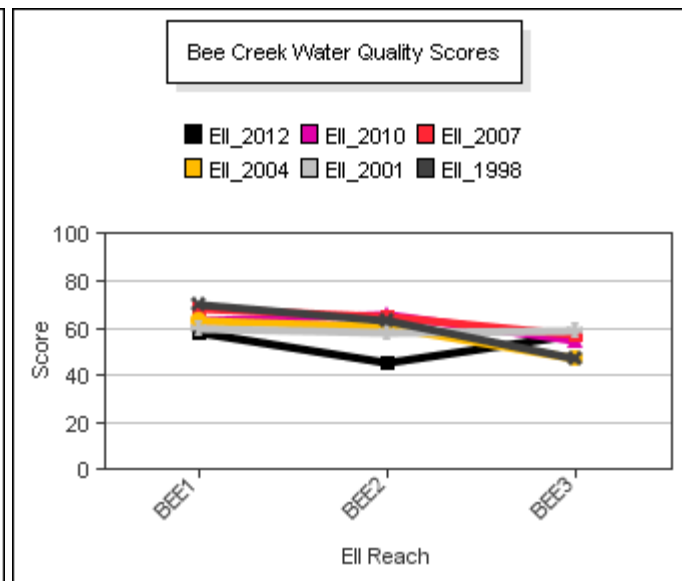
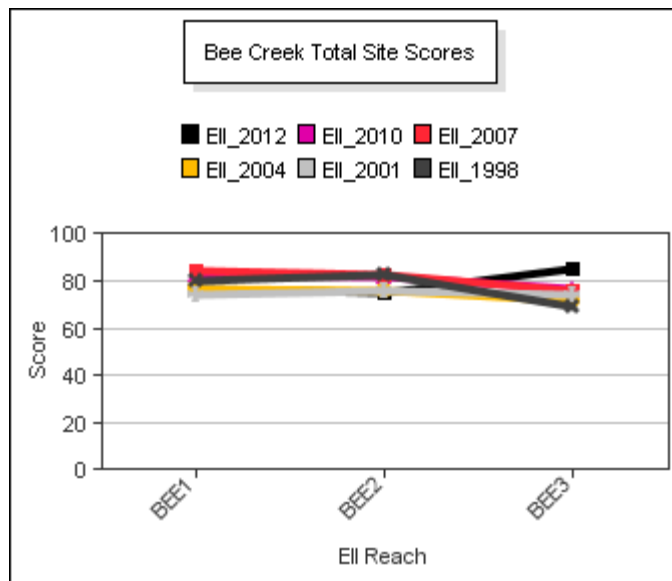
Bee Creek Watershed

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



Bee Creek Watershed

Score Summary – Reach scores for each sample year



Bee Creek Watershed

Site Photographs



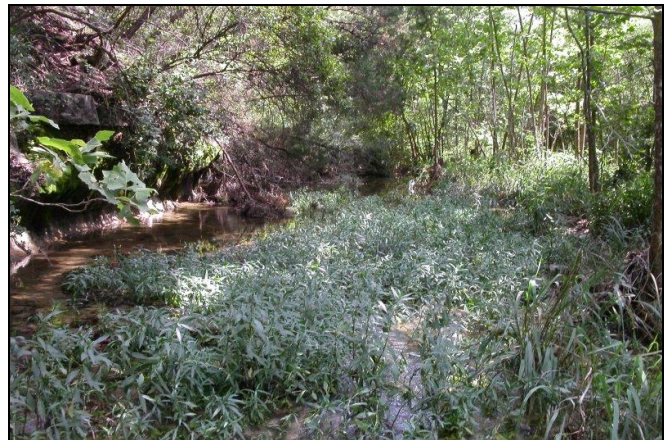
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322_us_06_18_2007



322_ds_06_18_2007



322_00-us-05_17_2010



322_00-ds-05_17_2010

Bee Creek Watershed

Site Photographs



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1104_ur_06_19_2007



319_t00-ds-05_21_2004



319_ds_07_13_2007



319_00-us-05_17_2010



319_00-ds-05_17_2010

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