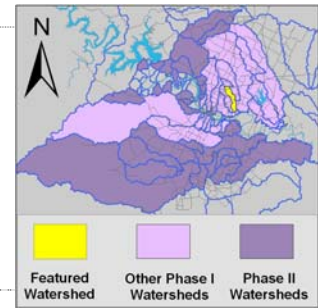


Fort Branch Watershed

Summary Sheet

Catchment	Total area	3 square miles				
	Area in recharge	none				
	Creek length	6 miles				
	Receiving water	Boggy Creek				
Demographics	2000 population	16,796				
	2030 projected population	19,659				
	30 year projected % increase	17 %				
Land Use	Impervious cover (2003 estimate)	38.2 %				
Overall EII Scores	2000	60	55	52	47	43
	2003					
	2006					
	2009					
	2011					



Flow Regime* for Sample Sites on Fort Branch Upstream to Downstream

Site #	Site Name	2003					2006					2009					2010	2011					
		Feb	Mar	Mar	May	Sep	Dec	Feb	May	Jul	Aug	Nov	Feb	May	Jun	Oct	Dec	Dec	Mar	Jun	Jun	Sep	
		WQ	WQ	Bio	WQ	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	WQ	WQ	Bio	WQ	
126	Glencrest	B	B	B	B	B	B	B	B	B	B	B	B	n	B	B	B	B	B	n	n	n	
125	us Manor	B	B	B	B	B	B	B	B	B	n	B	n	n	n	n	n	n	n	n	n	B	n
898	Single Shot	B	B	B	B	B	n	n	n	n	n	n	n	n	n	B	n	n	n	n	n	n	n
123	BOG	B	B	B	B	B	n	n	n	n	n	n	n	n	n	B	n	n	n	n	n	n	n

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

Summary of 2011 Data for Fort Branch

Summary	Parameter	Mean	Max	Min	Discussion
Physicochemical	D.O. mg/l	4.5	4.7	4.3	Consistently low readings.
	pH st.units	7.63	7.79	7.47	Some low values.
	Cond uS/cm	631	727	534	Within normal range.
Nutrients	NH ₃ mg/l	0.008	0.008	0.008	Generally low.
	NO ₃ mg/l	0.008	0.008	0.008	Generally low.
	Ortho P mg/l	0.105	0.110	0.100	Within normal range.
Sediment Load	TSS mg/l	1.8	3.1	0.5	Within normal range.
	Turbidity ntu	4.16	4.60	3.72	Within normal range.
Biology	E.Coli /100ml	461	461	461	Within normal range.
	Benthic Macroinvertebrates and Diatoms: evaluations are provided in the introduction of this report				

Index scores* for Fort Branch 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
FOR1	123	Fort Branch Creek @ North Boggy Creek	2000	65	88	86	69	31	37	31	42	63
FOR2	898	Fort Branch Creek @ Single Shot Circle	2000	62	88	71	67	39	32	40	23	60
FOR3	125	Fort Branch Creek Upstream of Manor Rd	2000	59	88	78	67	33	34	29	39	60
FOR4	126	Fort Branch Creek @ Glencrest Drive	2000	45	88	73	72	43	17	31	3	56
FOR1	123	Fort Branch Creek @ North Boggy Creek	2003	68	78	79	74	43	22	19	24	61
FOR2	898	Fort Branch Creek @ Single Shot Circle	2003	49	78	41	60	46	21	25	16	49
FOR3	125	Fort Branch Creek Upstream of Manor Rd	2003	54	78	71	75	41	15	17	12	56
FOR4	126	Fort Branch Creek @ Glencrest Drive	2003	35	78	62	73	44	20	26	14	52
FOR1	123	Fort Branch Creek @ North Boggy Creek	2006		67		35	37				35
FOR2	898	Fort Branch Creek @ Single Shot Circle	2006		67		71	49				47
FOR3	125	Fort Branch Creek Upstream of Manor Rd	2006	75	67	60	75	41	66	62	70	64
FOR4	126	Fort Branch Creek @ Glencrest Drive	2006	44	67	25	89	59	42	39	44	54
FOR1	123	Fort Branch Creek @ North Boggy Creek	2009	79	77	54	12	34				43
FOR2	898	Fort Branch Creek @ Single Shot Circle	2009	71	77	36	26	33				41
FOR3	125	Fort Branch Creek Upstream of Manor Rd	2009		77		63	51				48
FOR4	126	Fort Branch Creek @ Glencrest Drive	2009	65	77	28	55	56	39	27	50	53
FOR1	123	Fort Branch Creek @ North Boggy Creek	2011				25	56				27
FOR2	898	Fort Branch Creek @ Single Shot Circle	2011				55	52	49	49	48	52
FOR3	125	Fort Branch Creek Upstream of Manor Rd	2011				51	45	61	61		52
FOR4	126	Fort Branch Creek @ Glencrest Drive	2011	67		26	60	25				36

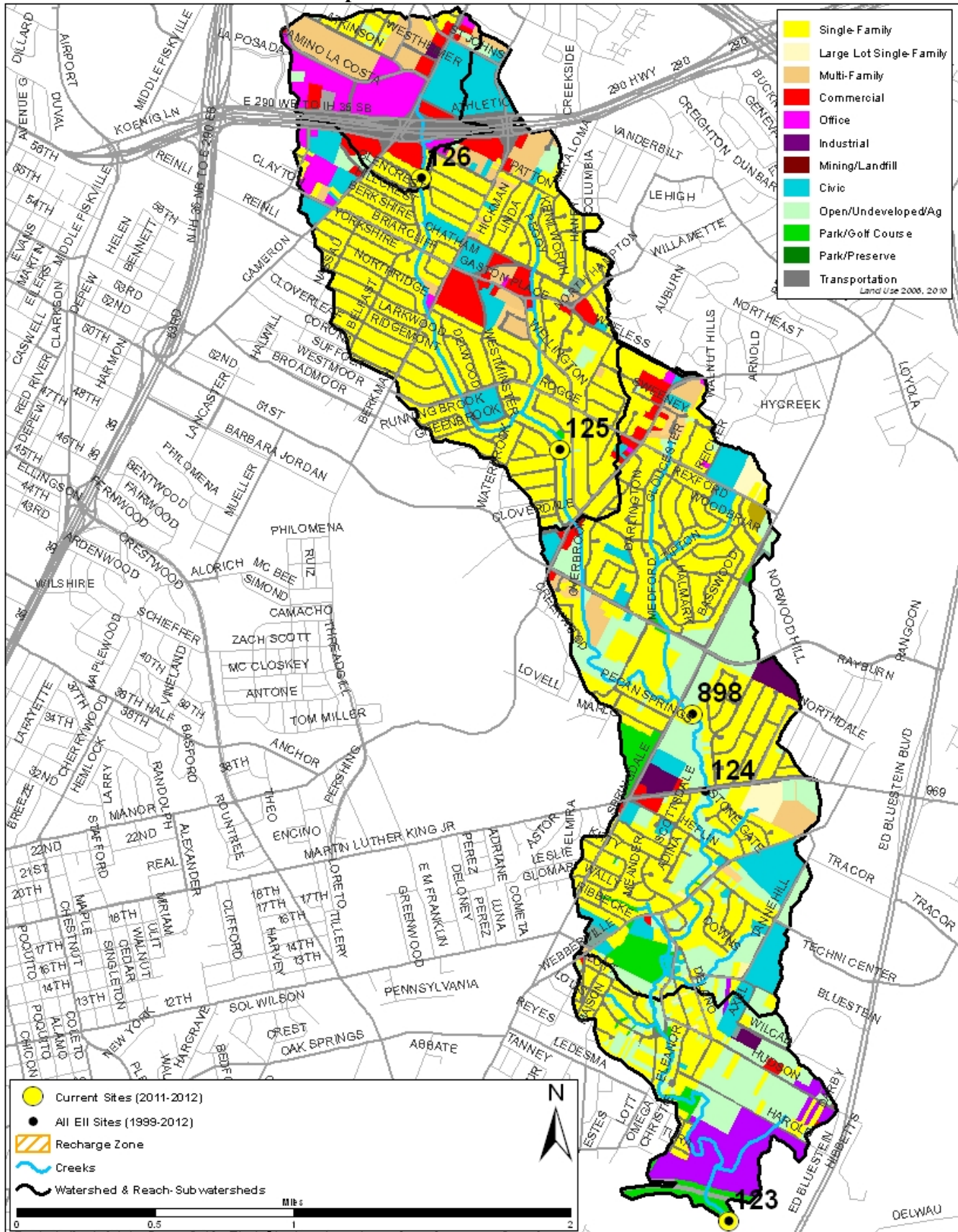
* blank cells indicate parameter was not collected, blank row indicate site was dropped

**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

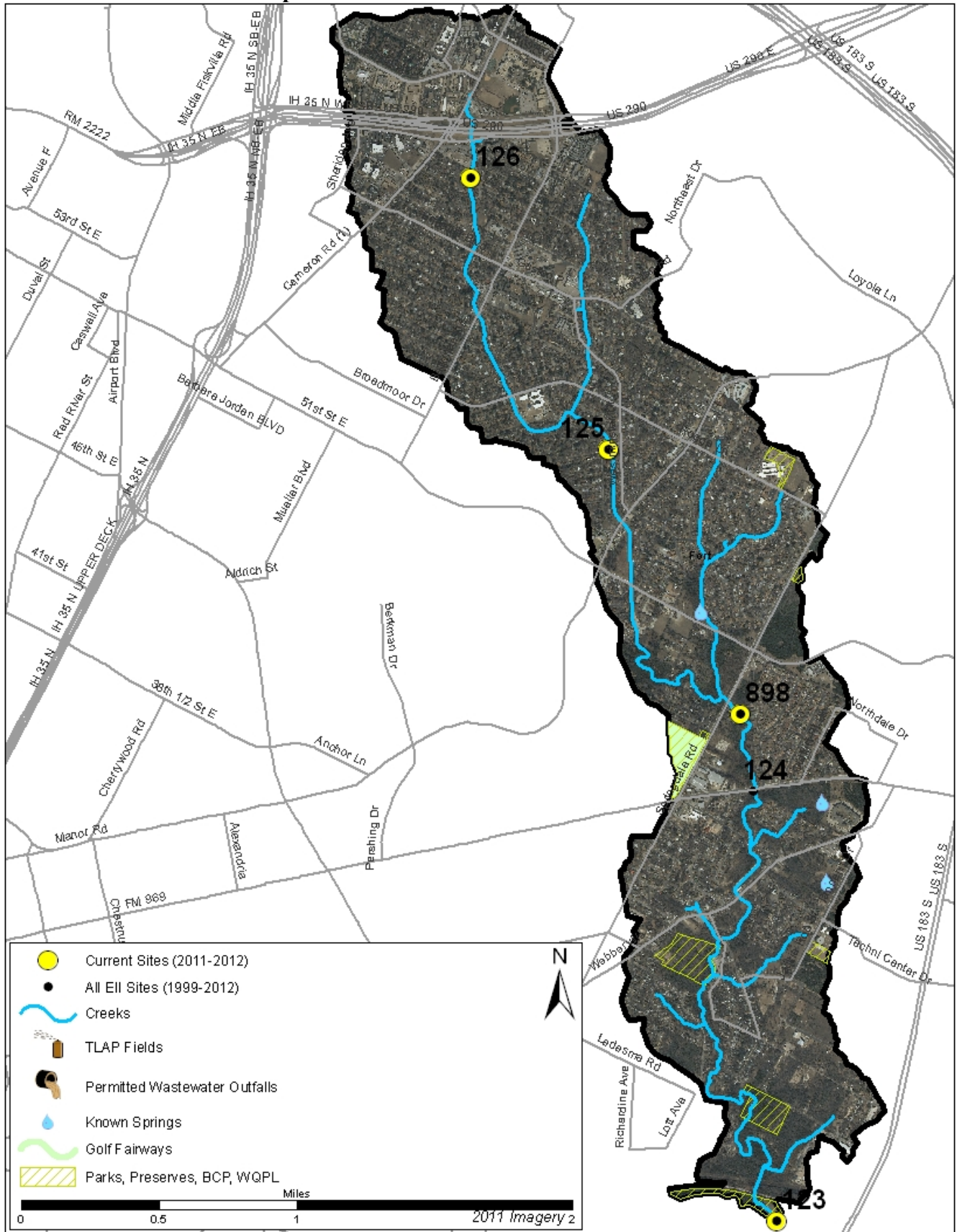
Fort Branch Watershed

Land Use Map



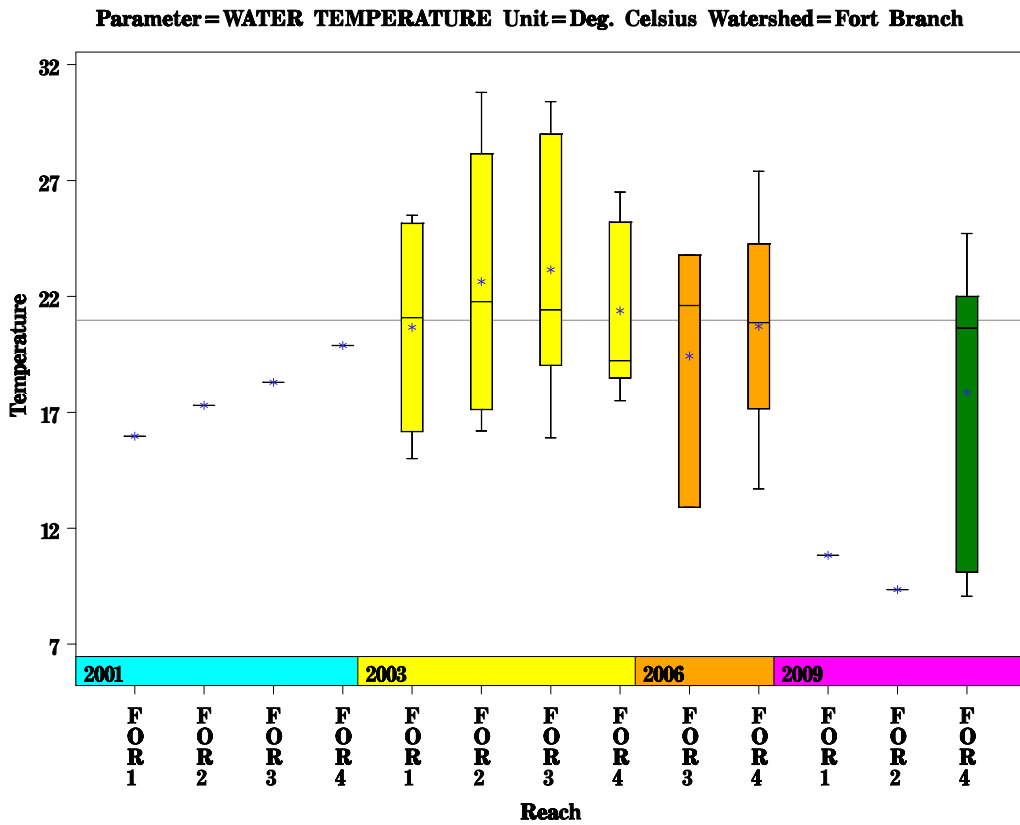
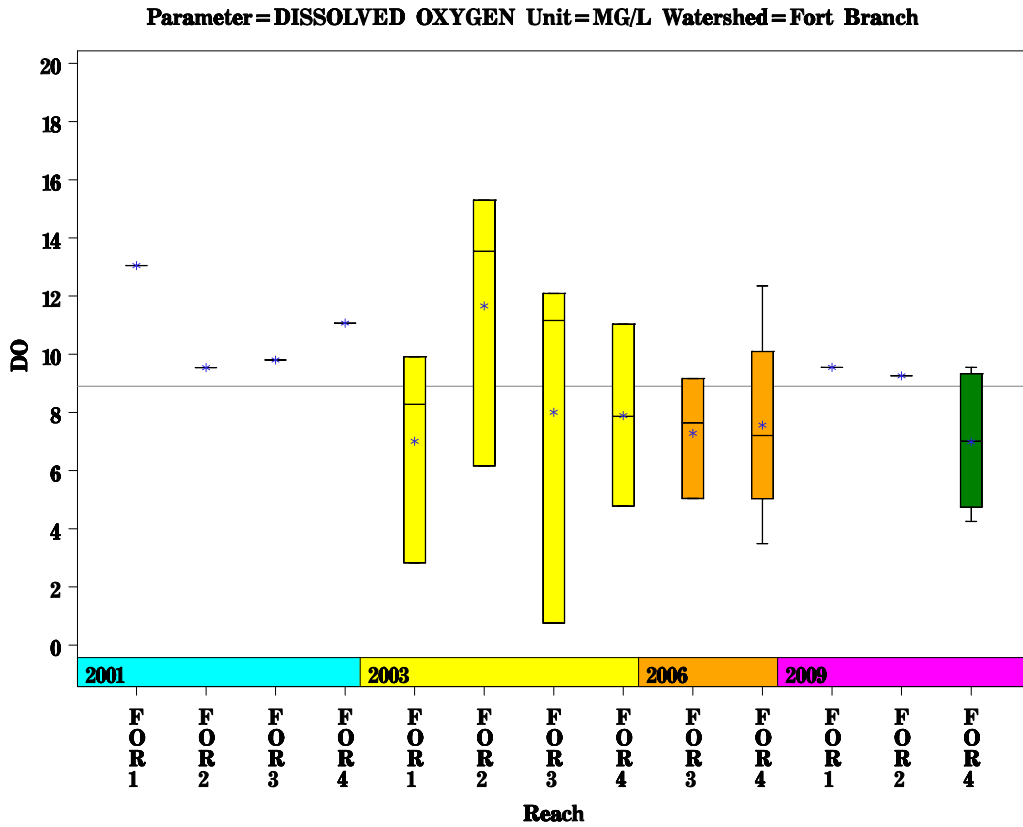
Fort Branch Watershed

Aerial Map



Fort Branch Watershed

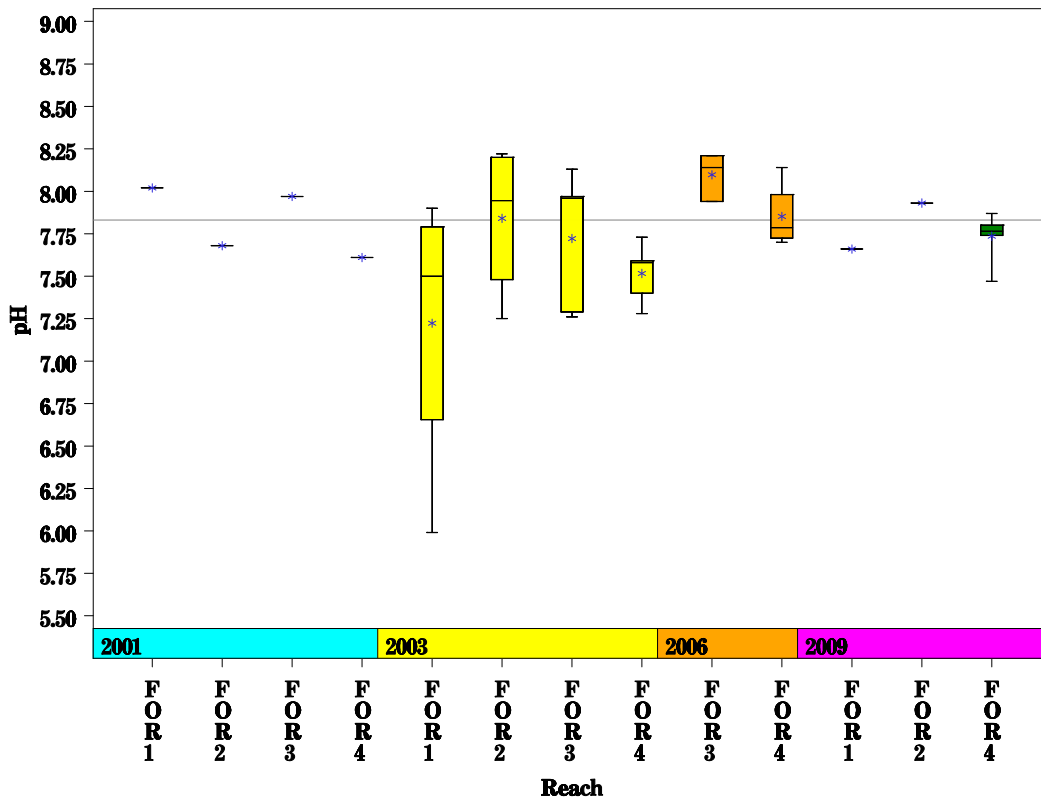
Data Summary Graphs – Dissolved Oxygen and Temperature (Downstream to Upstream by Year)



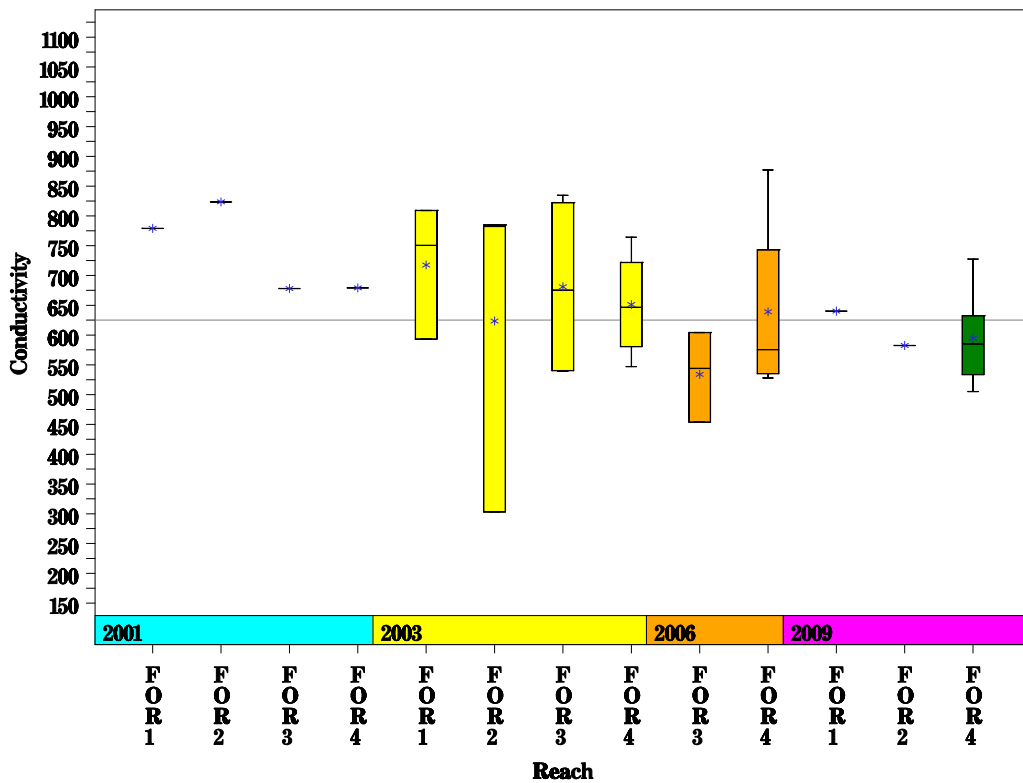
Fort Branch Watershed

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

Parameter=PH Unit=Standard units Watershed=Fort Branch



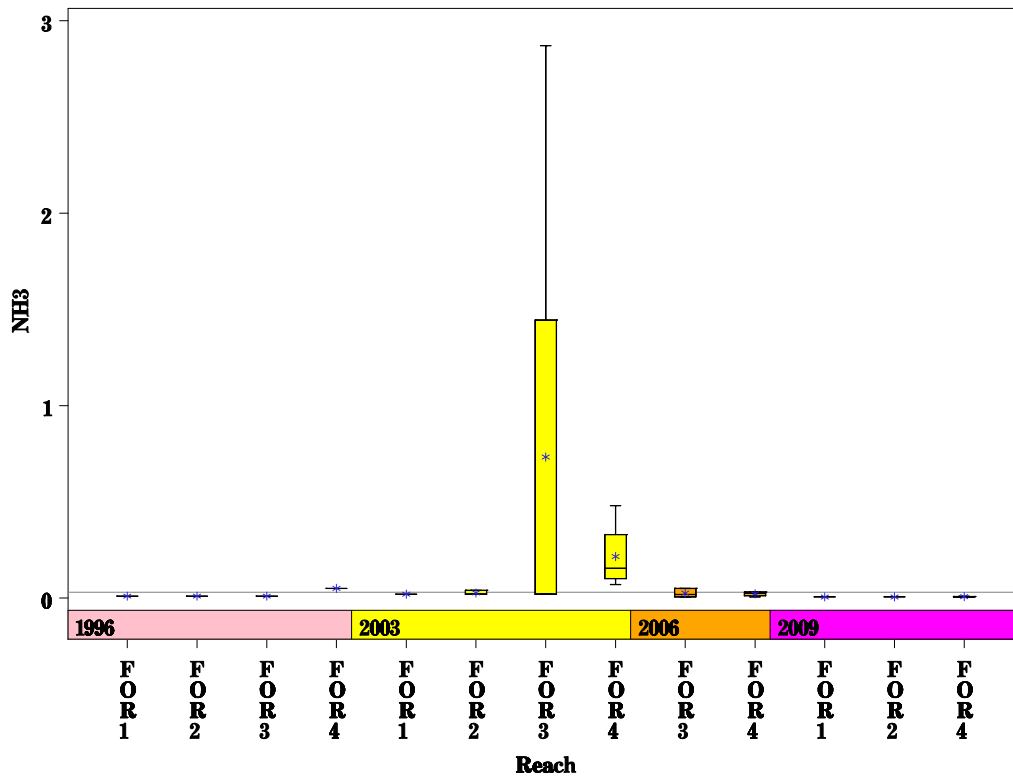
Parameter=CONDUCTIVITY Unit=uS/cm Watershed=Fort Branch



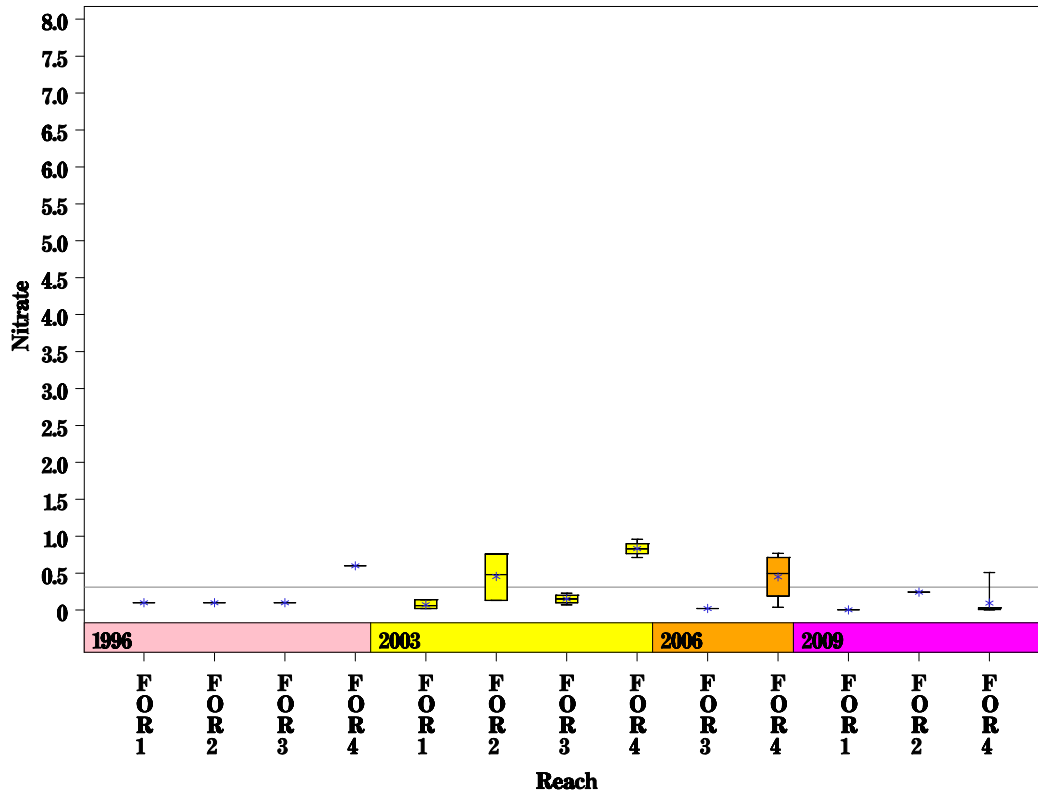
Fort Branch Watershed

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

Parameter=AMMONIA AS N Unit=MG/L Watershed=Fort Branch



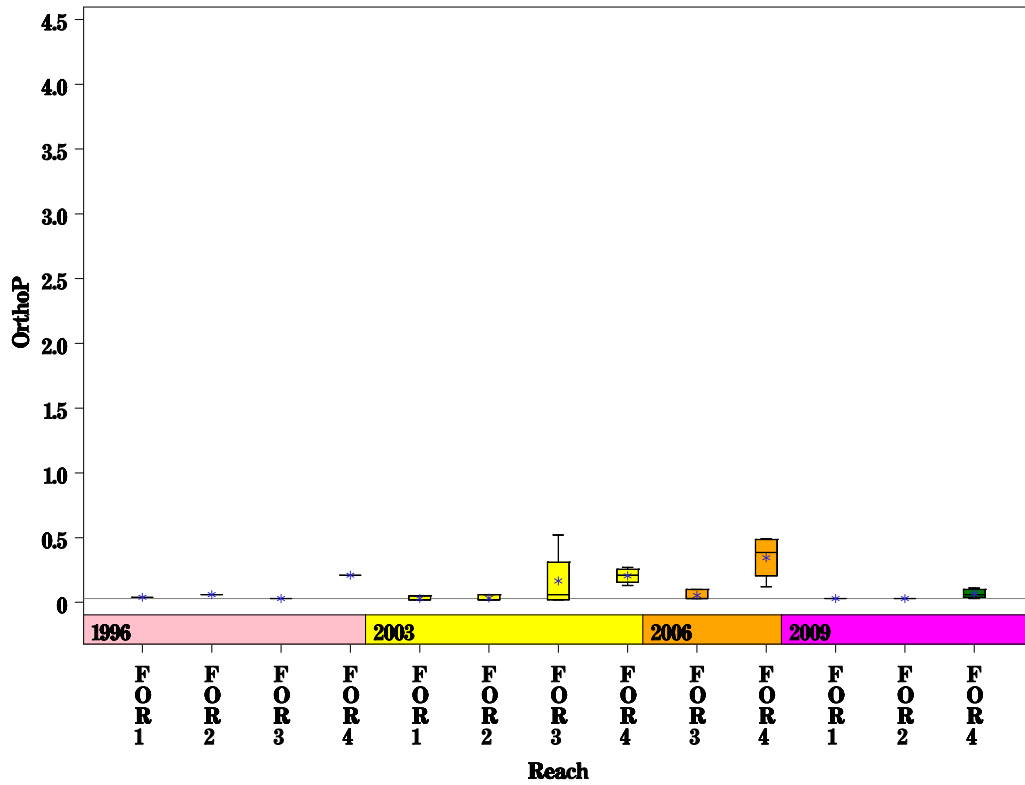
Parameter=NITRATE AS N Unit=MG/L Watershed=Fort Branch



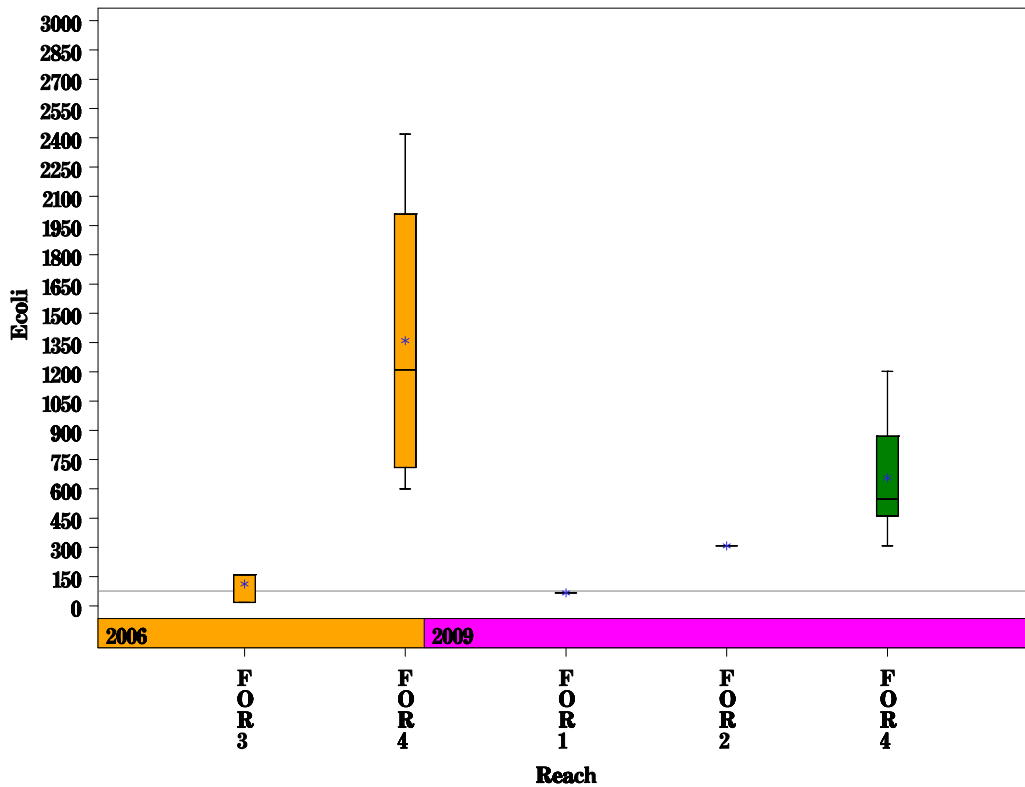
Fort Branch Watershed

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

Parameter=ORTHOPHOSPHORUS AS P Unit=MG/L Watershed=Fort Branch

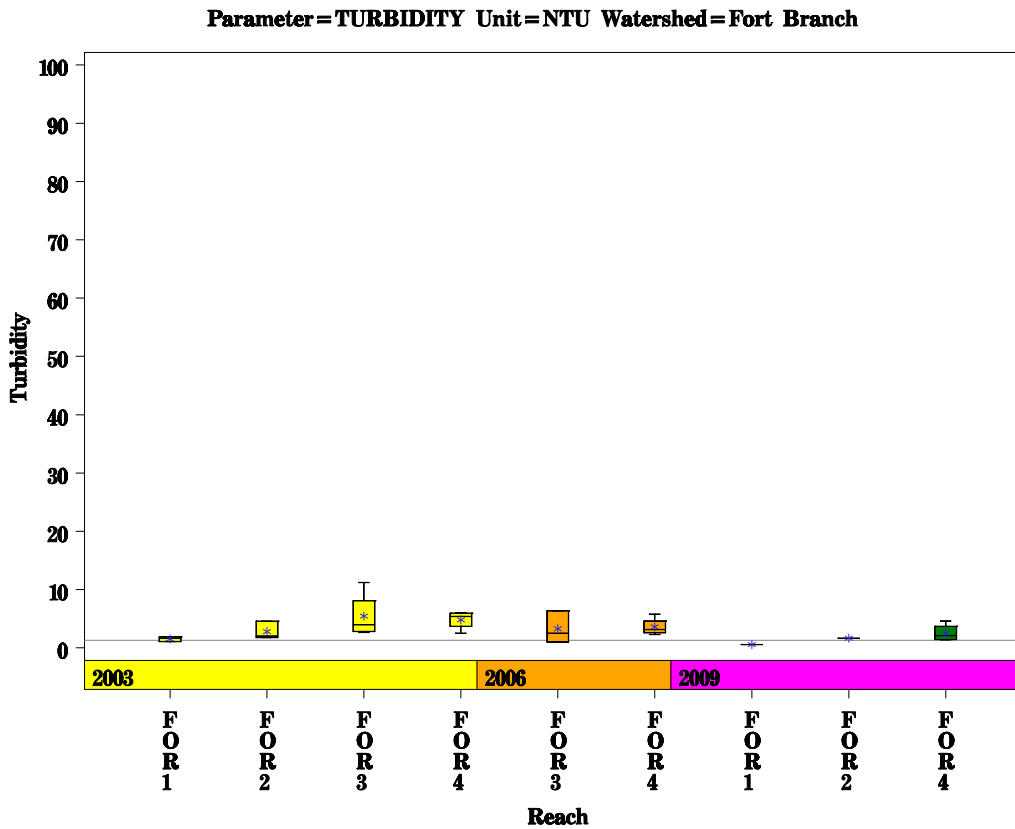
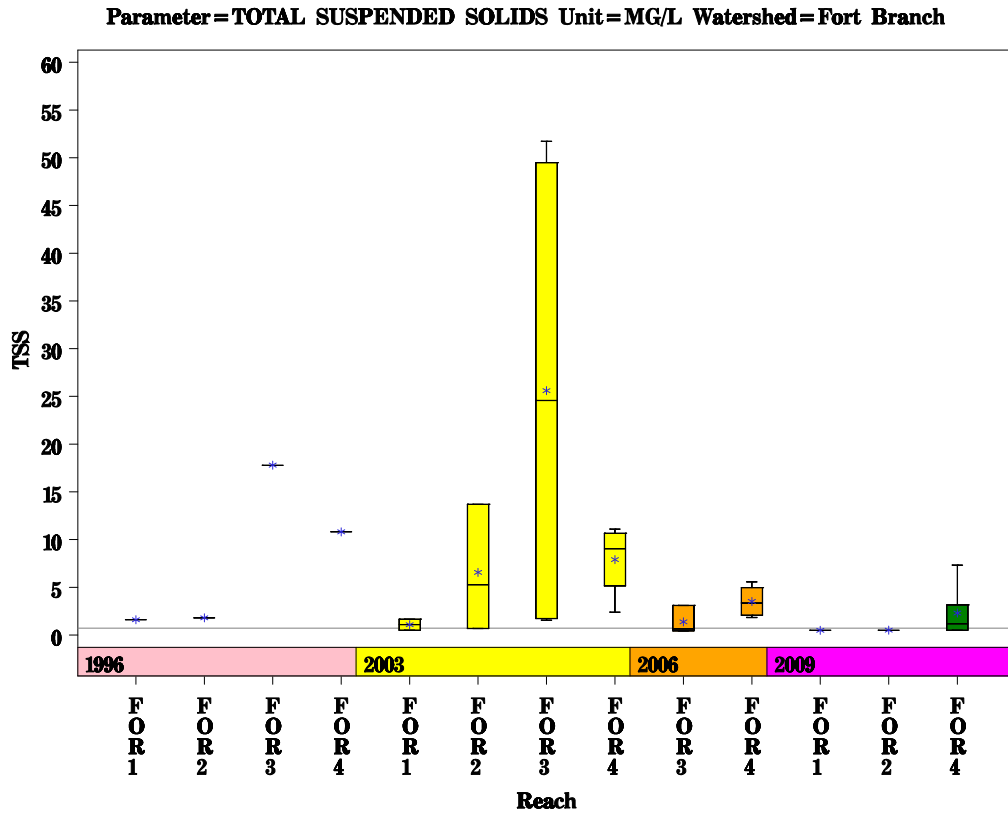


Parameter=E COLI BACTERIA Unit=MPN/100ML Watershed=Fort Branch



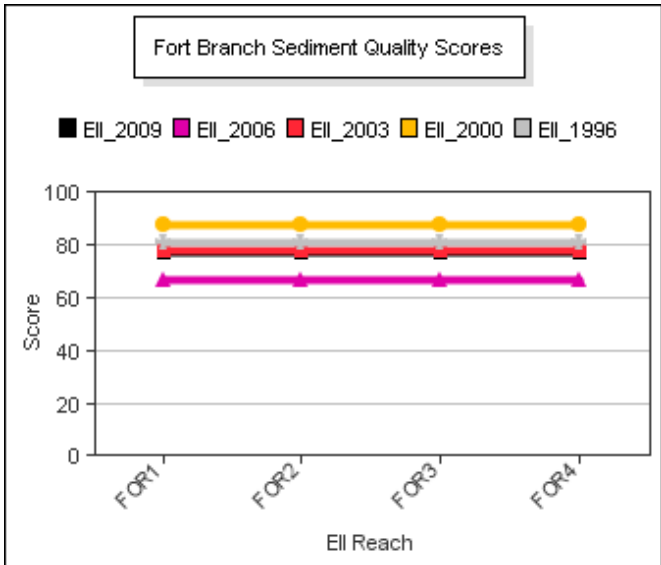
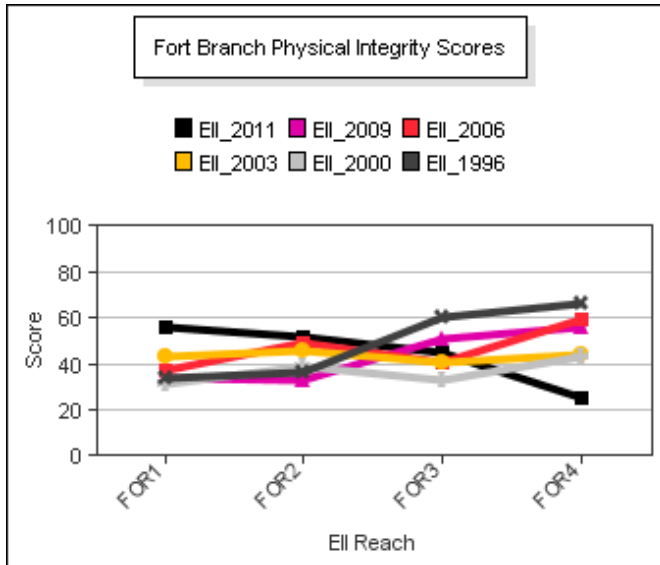
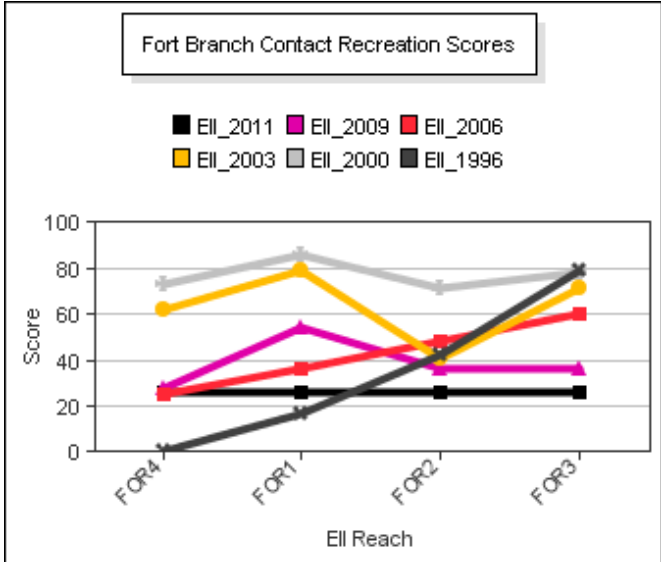
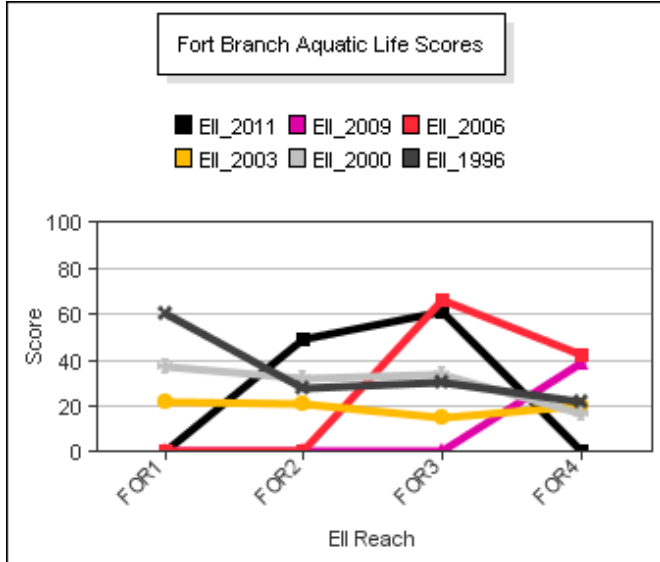
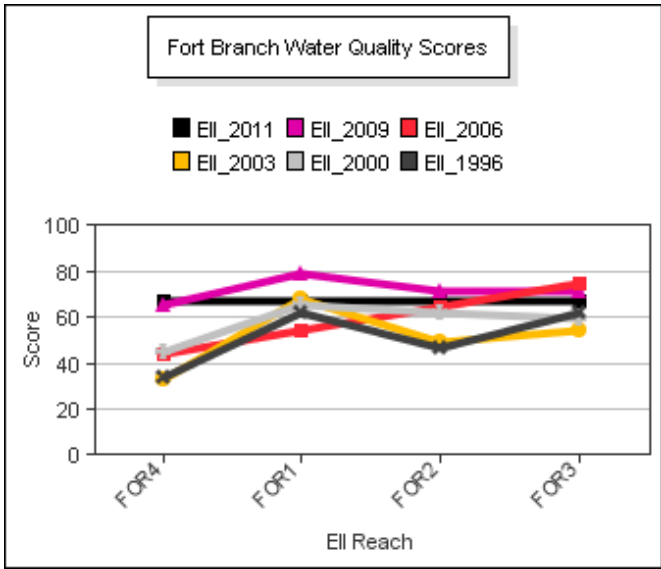
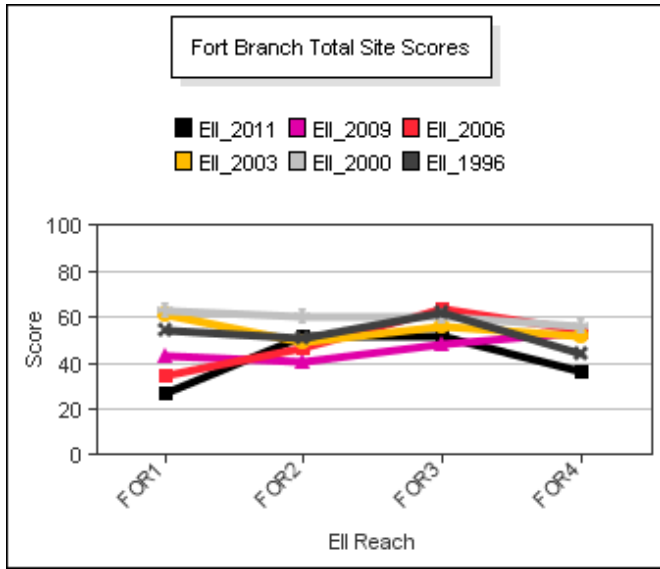
Fort Branch Watershed

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



Fort Branch Watershed

Score Summary – Reach scores for each sample year



Fort Branch Watershed

Site Photographs



126_t00-us-02_14_2001



126-t00-dr-06-03-2009



125_t00-us-02_15_2001



125_t00-ds-07_10_2006



125-t00-us-06-03-2009



125-t00-ur-06-03-2009

Fort Branch Watershed

Site Photographs



898_t00-ds-02_15_2001



898_t00-ur-03_12_2003



898_t00-us-07_10_2006



898-t00-ds-06-02-2009



123_t00-us1-07_06_2006



123_t00-ds-07_06_2006

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