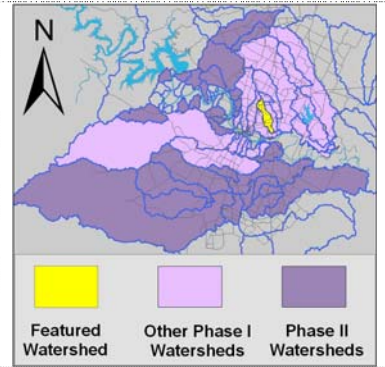


Tannehill Creek Watershed

Summary Sheet

Catchment	Total area	4 square miles			
	Area in recharge	none			
	Creek length	7 miles			
	Receiving water	Boggy Creek			
Demographics	2000 population	13,976			
	2030 projected population	24,742			
	30 year projected % increase	77 %			
Land Use	Impervious cover (2003 estimate)	43.54 %			
Overall EII Scores	2000	2003	2006	2009	2011
	61	62	62	58	59



Flow Regime* for Sample Sites on Tannehill Creek 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	
3858	Berkman							B	B	B	n	B		B	B	B	B	B	B	B	n	n	n
842	Bartholome w Pk	B	B	B	B	B																	
843	Lovell	B	B	B	B	B	B	B	B	B	n	B	B	B	B	B	B	B	B	B	B	B	n
1476	Desirable	B	B	B	B	B	B	n	n	B	n	B	B	B	B	B	B	B	B	B	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 Tannehill Creek

Summary	Parameter	Mean	Max	Min	Discussion
Physicochemical	D.O. mg/l	6.2	9.6	2.5	Low values at upstream site 3858.
	pH st.units	7.69	7.94	7.45	Mostly within normal range with some low values at upstream site.
	Cond uS/cm	665	821	511	Within normal range.
Nutrients	NH ₃ mg/l	0.009	0.012	0.008	Within normal range.
	NO ₃ mg/l	0.013	0.021	0.008	Within normal range.
	Ortho P mg/l	0.067	0.090	0.050	Within normal range.
Sediment Load	TSS mg/l	1.9	4.0	0.5	Within normal range.
	Turbidity ntu	2.36	3.65	0.90	Within normal range.
Biology	E.Coli /100ml	55	79	17	Consistently low.

Benthic Macroinvertebrates and Diatoms: evaluations are provided in the introduction of this report

Index Scores* for Tannehill Sites by Year

Reach	Site	Site Name	Year	Water Quality	Sediment t**	Contact Rec.	Non-Contact Rec.	Physical Integrity	Aquatic Life	Benthic subindex	Diatom subindex	Total EII Score
TAN1	854	Tannehill Crk US of Boggy Crk (LISI 2)	1996	59	81	91	51	35	18	22	13	56
TAN2	842	Tannehill Creek @ Bartholomew Park	1996	45	81	48	65	24	25	30	20	48
TAN2	843	Tannehill Creek @ Lovell Drive	1996	65	81	73	58	33	43	42	43	59
TAN3	841	Tannehill Creek @ Highland Mall	1996	30	81		41	72	8	8	7	39
TAN1	1476	Tannehill Creek @ Desirable Drive	2000	66	89	91	74	38	36	35	36	66
TAN2	842	Tannehill Creek @ Bartholomew Park	2000	71	89	86	65	23	32	29	34	61
TAN2	843	Tannehill Creek @ Lovell Drive	2000	69	89	90	76	38	33	29	37	66
TAN3	841	Tannehill Creek @ Highland Mall	2000	45	89	44	68	30	31	44	18	51
TAN1	1476	Tannehill Creek @ Desirable Drive	2003	64	75	75	53	45	53	58	48	61
TAN2	842	Tannehill Creek @ Bartholomew Park	2003	68	75	80	74	64	33	23	42	66
TAN2	843	Tannehill Creek @ Lovell Drive	2003	64	75	73	68	42	30	22	38	59
TAN1	1476	Tannehill Creek @ Desirable Drive	2006	62	69	98	53	37	33	11	54	59
TAN2	843	Tannehill Creek @ Lovell Drive	2006	67	69	57	85	62	74	76	72	69
TAN3	3858	Tannehill Creek @ Berkman Dr	2006	70	69	38	66	57	54	46	62	59
TAN1	1476	Tannehill Creek @ Desirable Drive	2009	67	65	54	40	45	58	33	83	55
TAN2	843	Tannehill Creek @ Lovell Drive	2009	75	65	46	60	46	83	66	100	63
TAN3	3858	Tannehill Creek @ Berkman Dr	2009	68	65	29	53	53	65	40	89	56
TAN1	1476	Tannehill Creek @ Desirable Drive	2011	69	67	54	27	54	55	30	80	54
TAN2	843	Tannehill Creek @ Lovell Drive	2011	72	67	63	56	59	62	42	82	63
TAN3	3858	Tannehill Creek @ Berkman Dr	2011	66	67	57	65	44	54	67	40	59

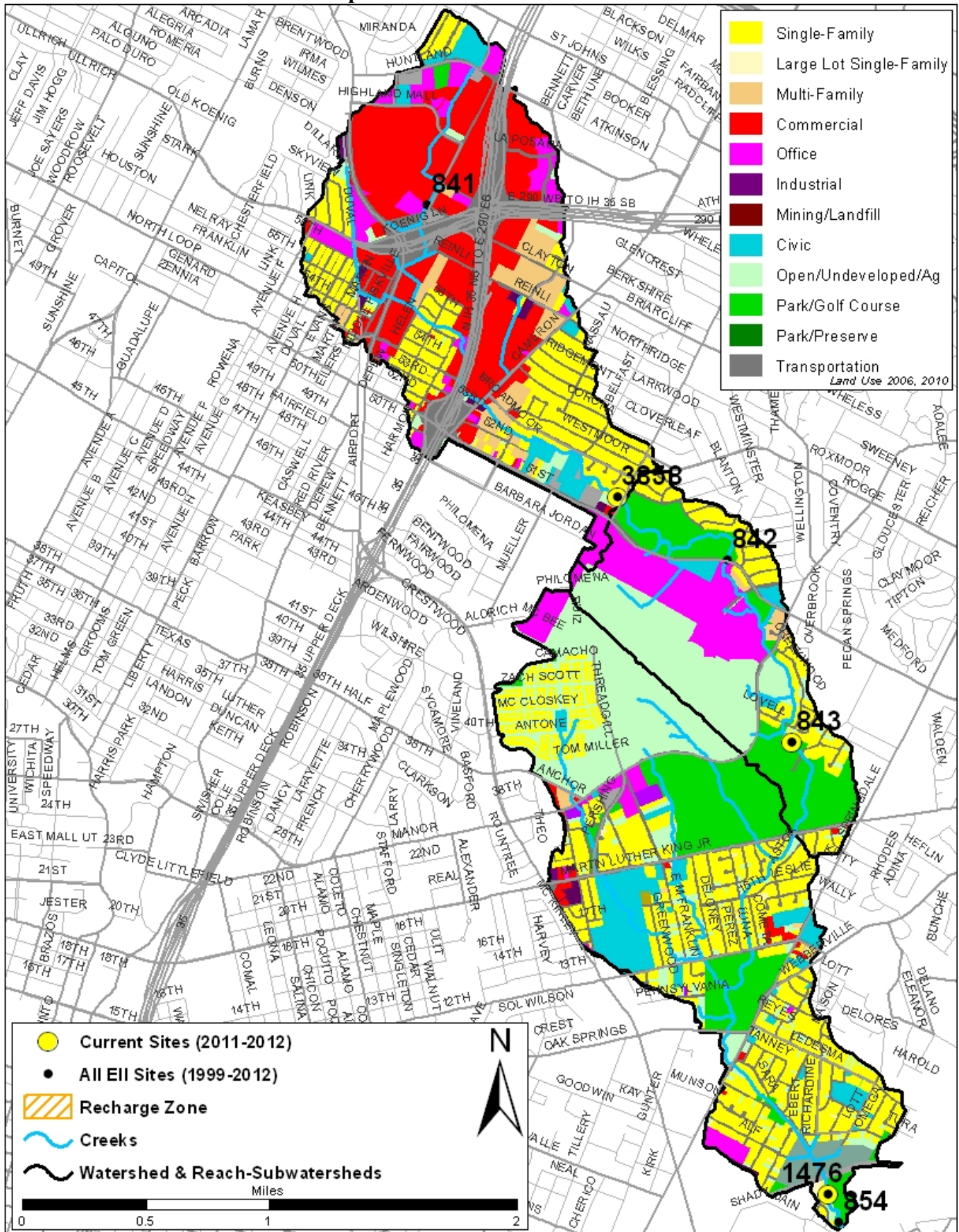
* blank cells indicate parameter was not collected, blank row indicate site was dropped

**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

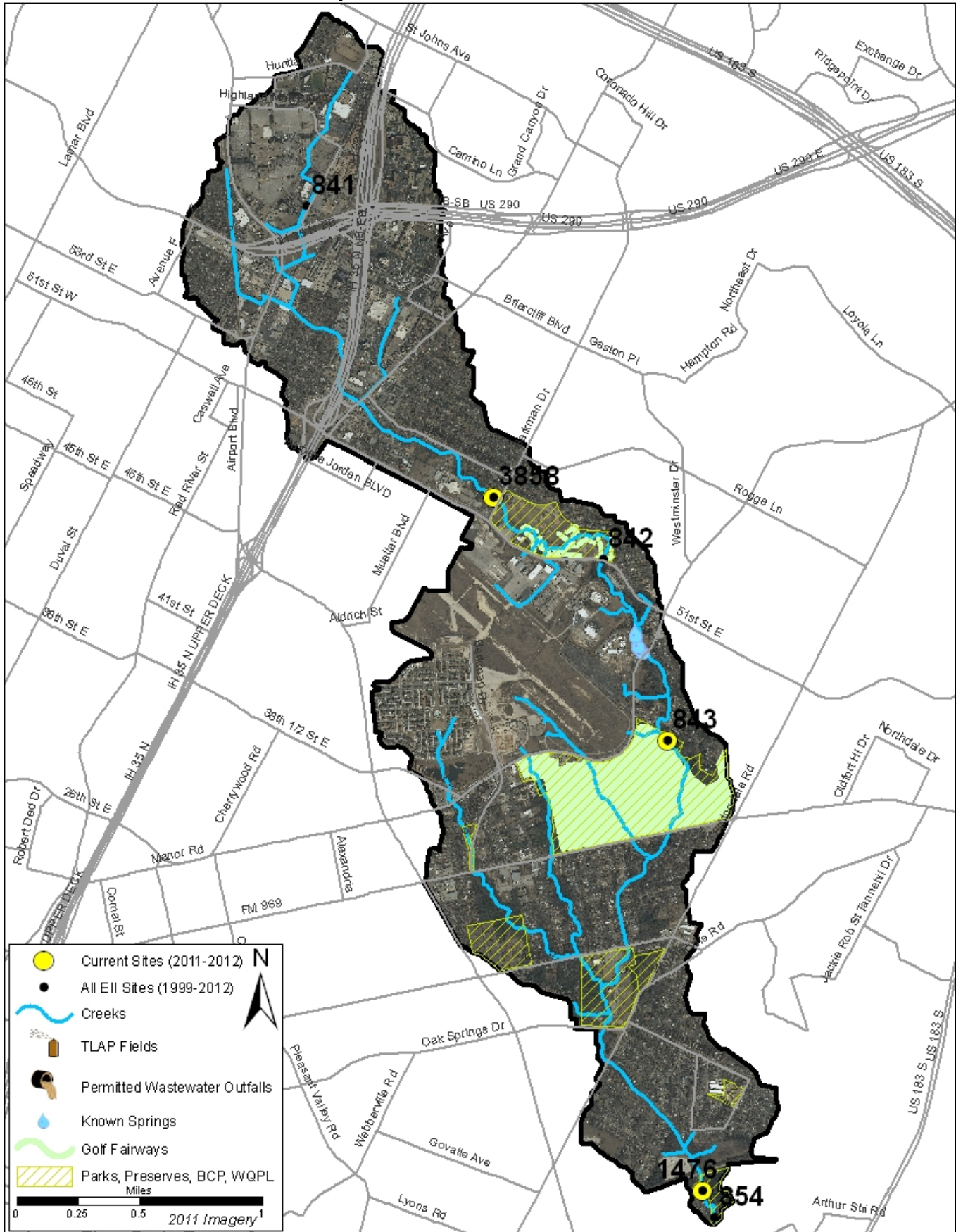
Tannehill Creek Watershed

Land Use Map



Tannehill Creek Watershed

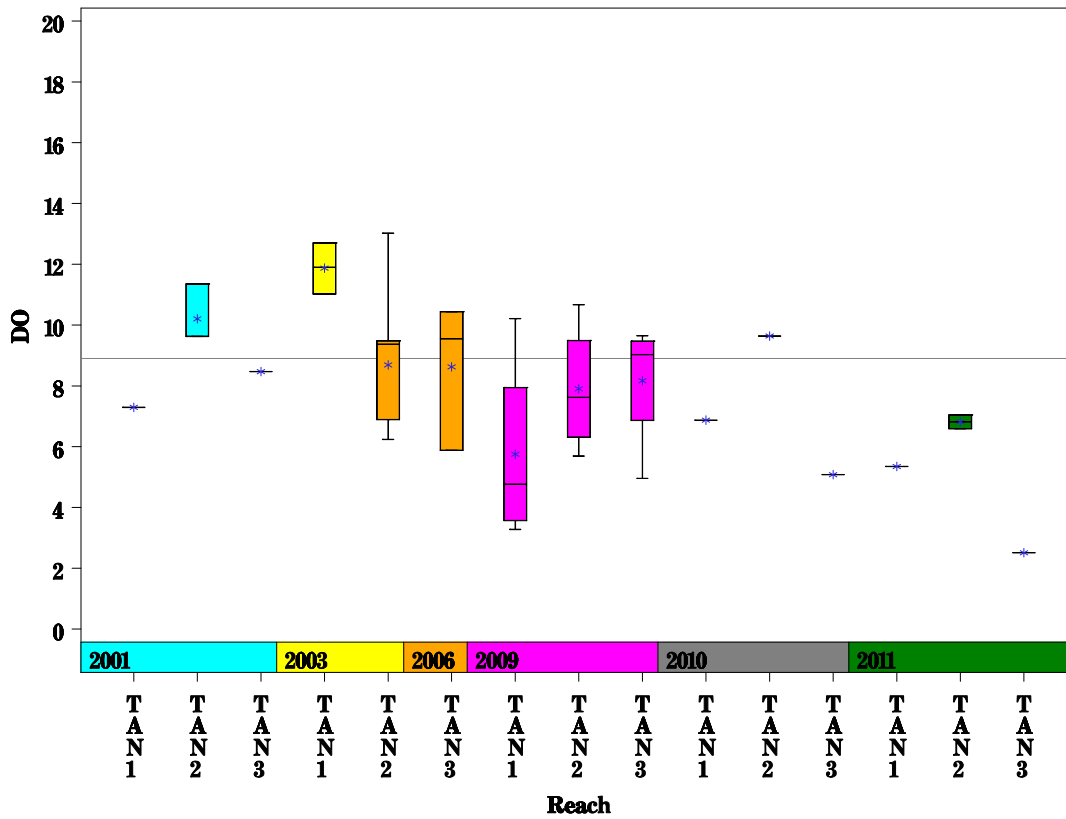
Aerial Map



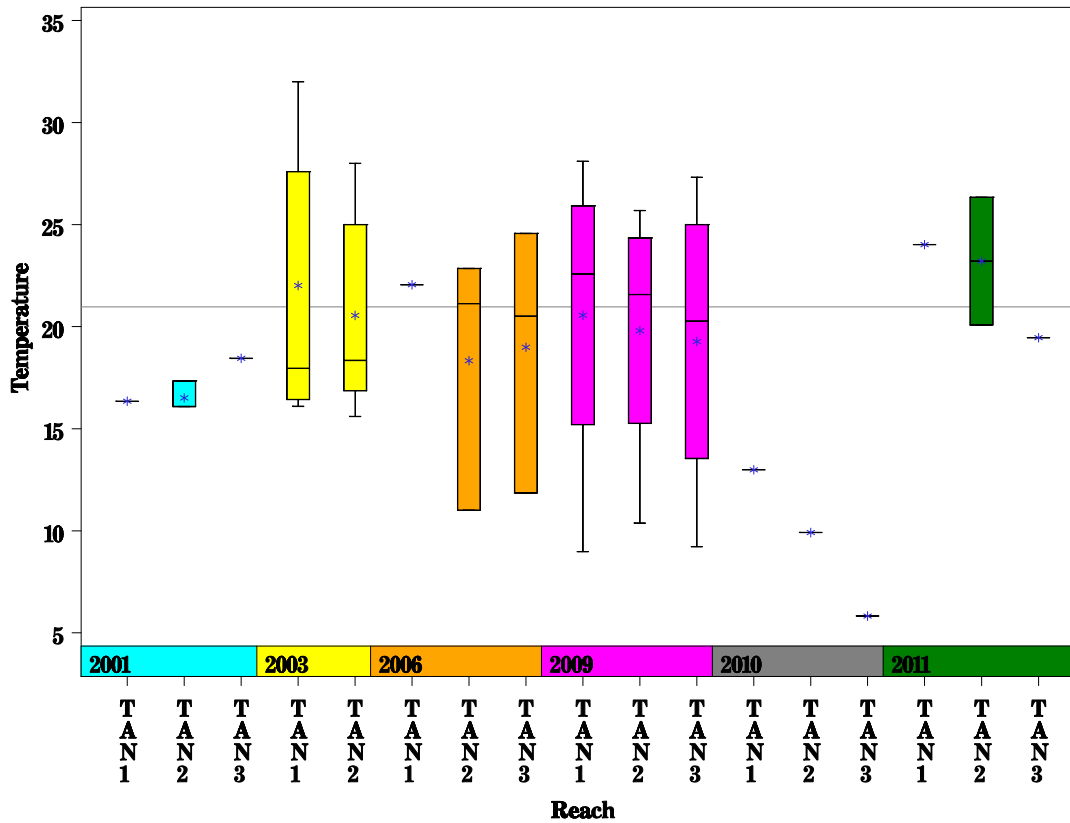
Tannehill Creek Watershed

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

Parameter=DISSOLVED OXYGEN Unit=MG/L Watershed=Tannehill Branch



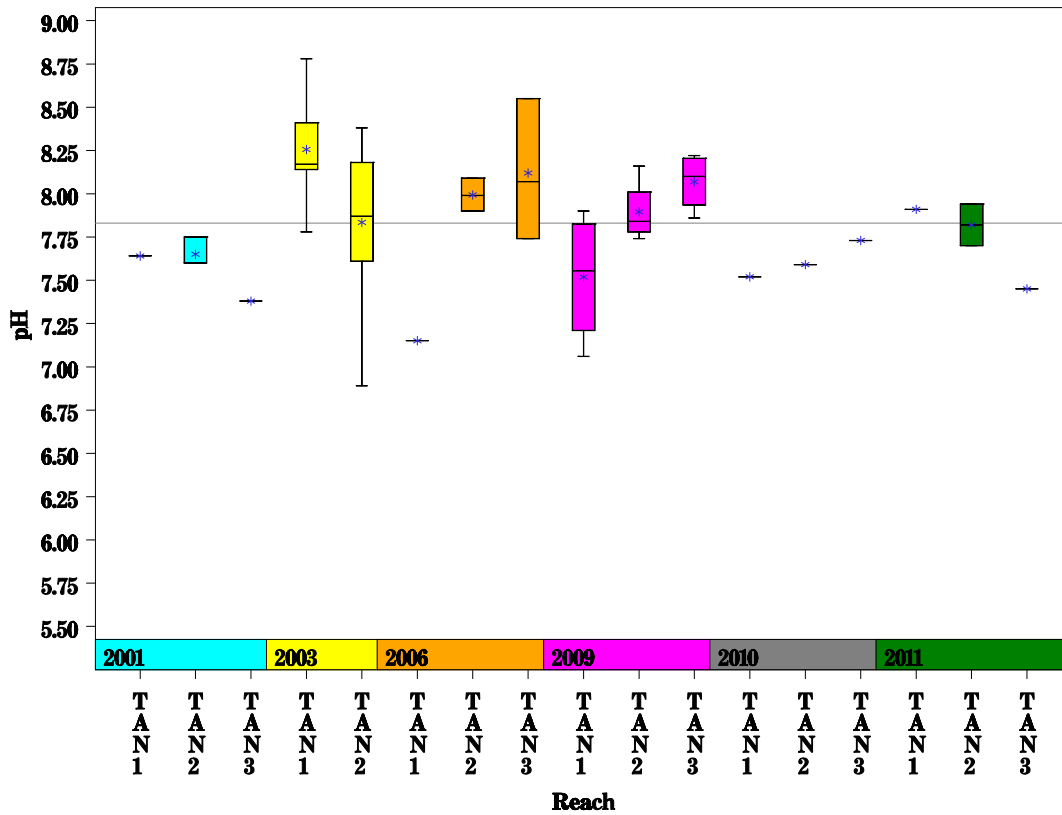
Parameter=WATER TEMPERATURE Unit=Deg. Celsius Watershed=Tannehill Branch



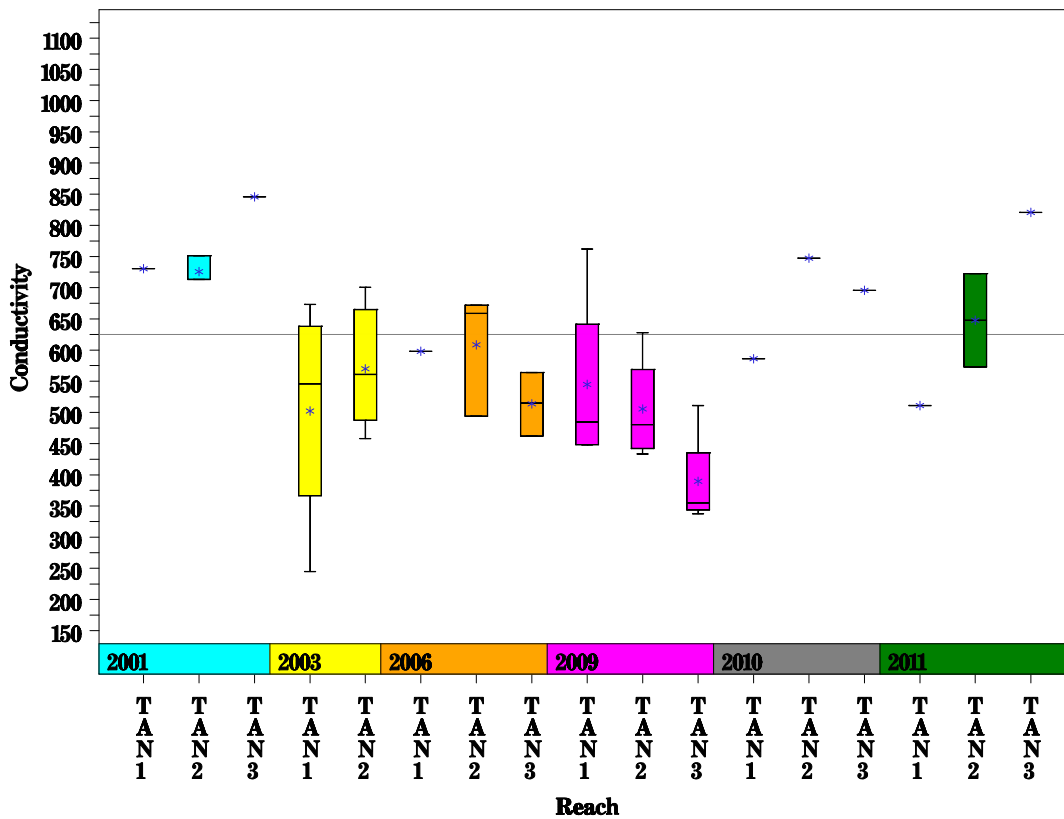
Tannehill Creek Watershed

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

Parameter=PH Unit=Standard units Watershed=Tannehill Branch



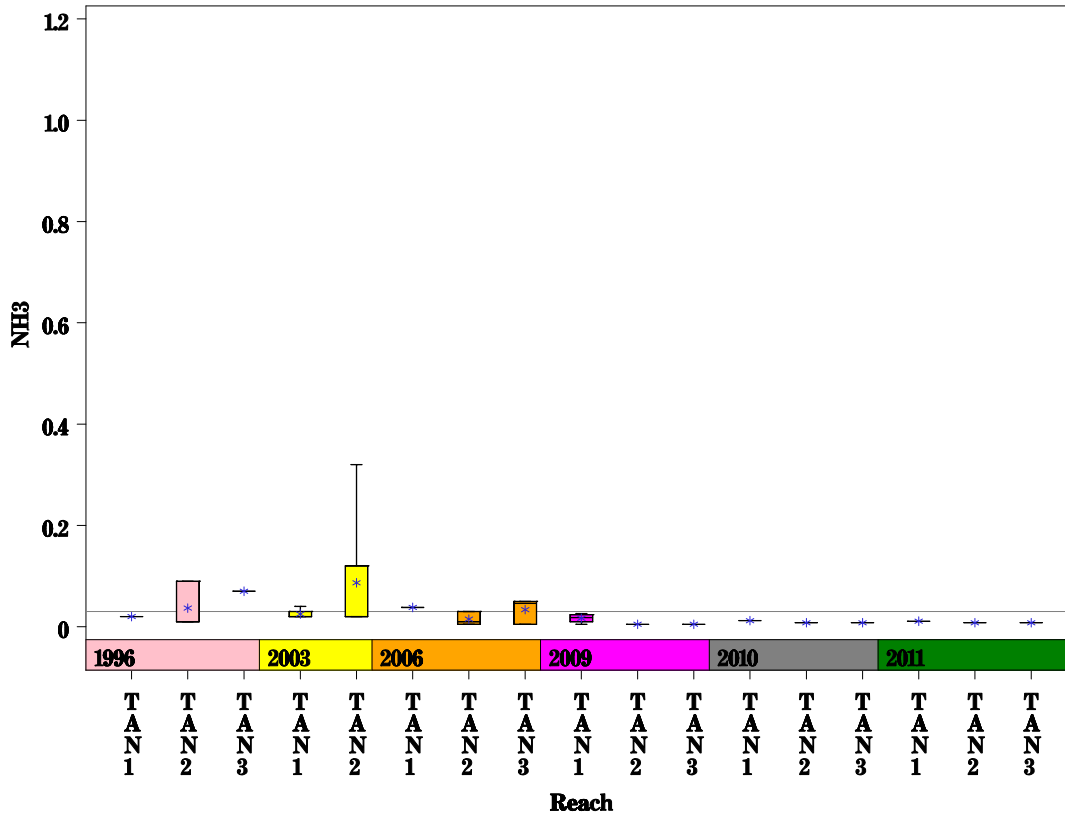
Parameter=CONDUCTIVITY Unit=uS/cm Watershed=Tannehill Branch



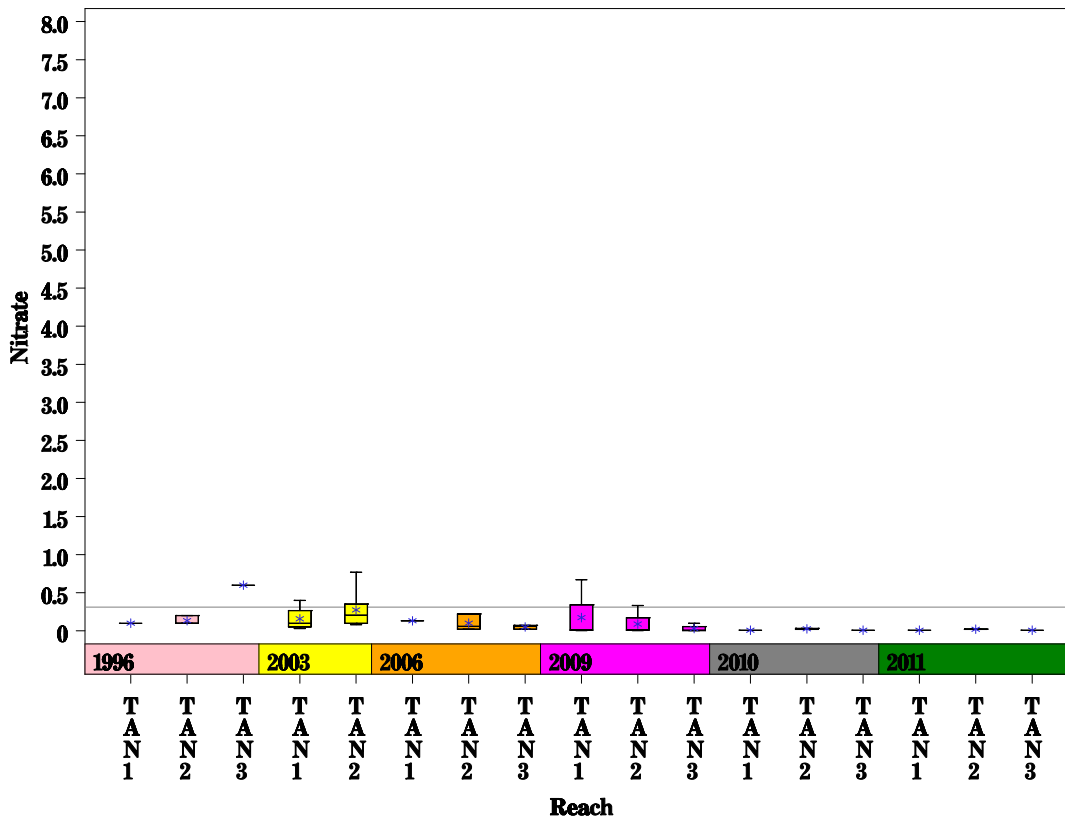
Tannehill Creek Watershed

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

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



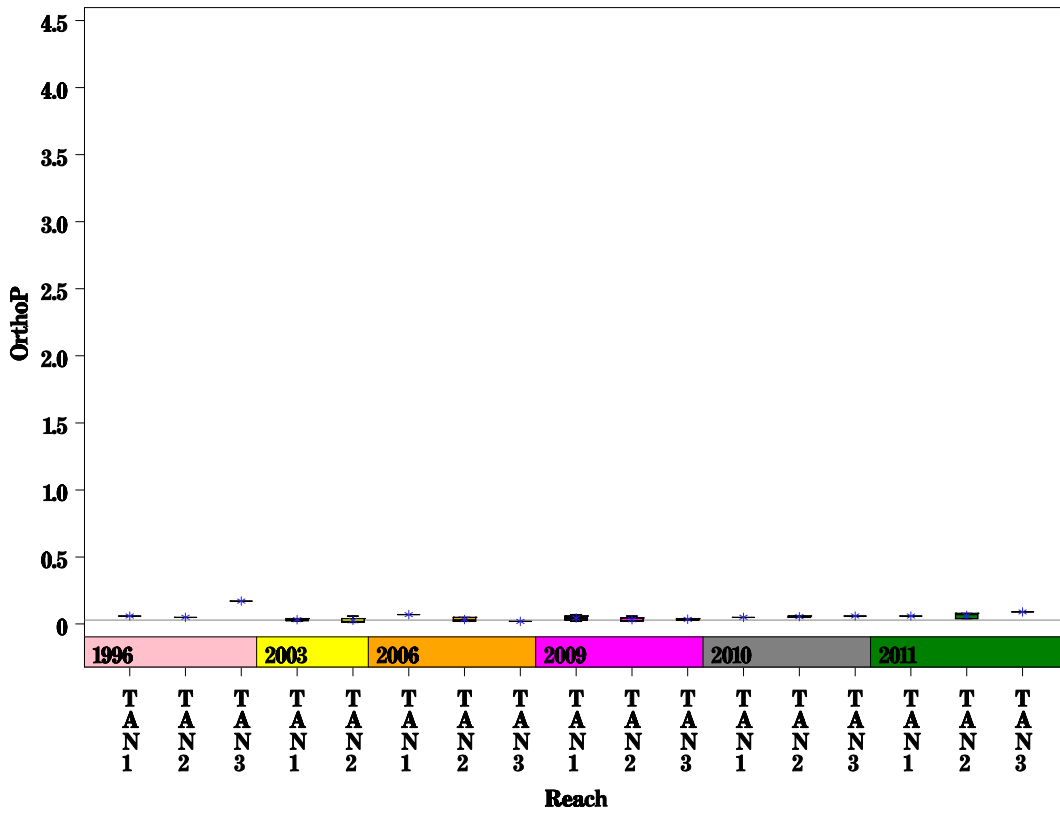
Parameter=NITRATE AS N Unit=MG/L Watershed=Tannehill Branch



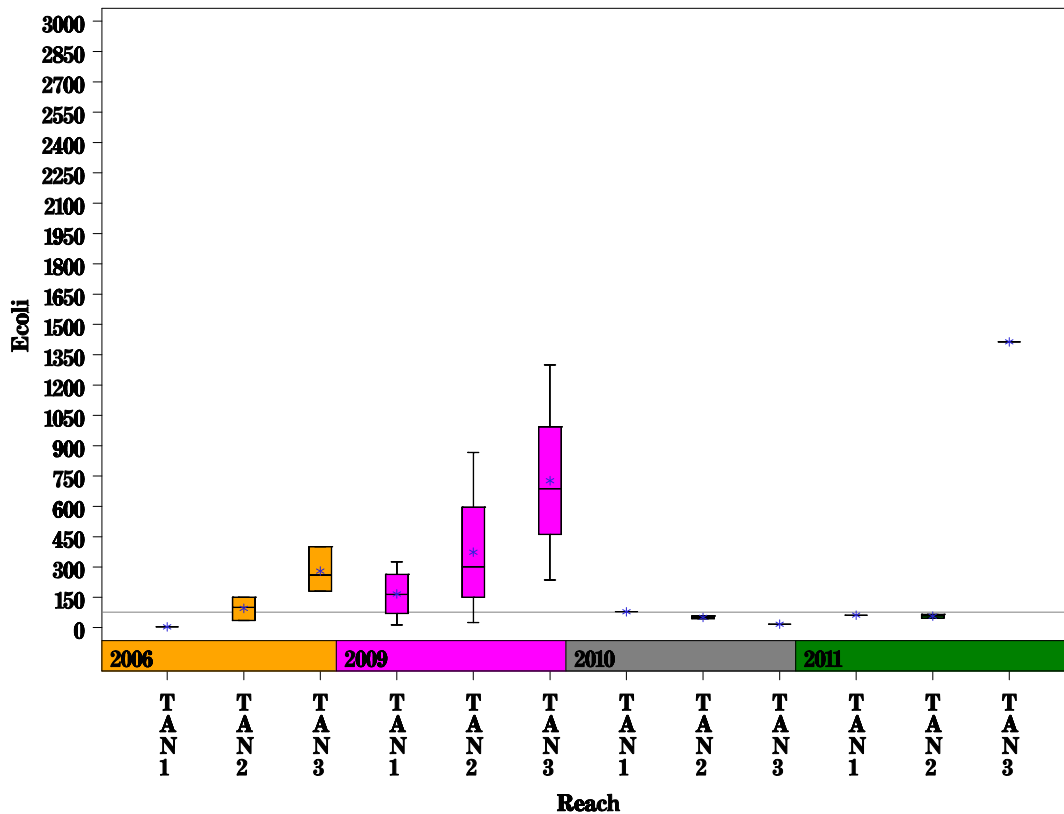
Tannehill Creek Watershed

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

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

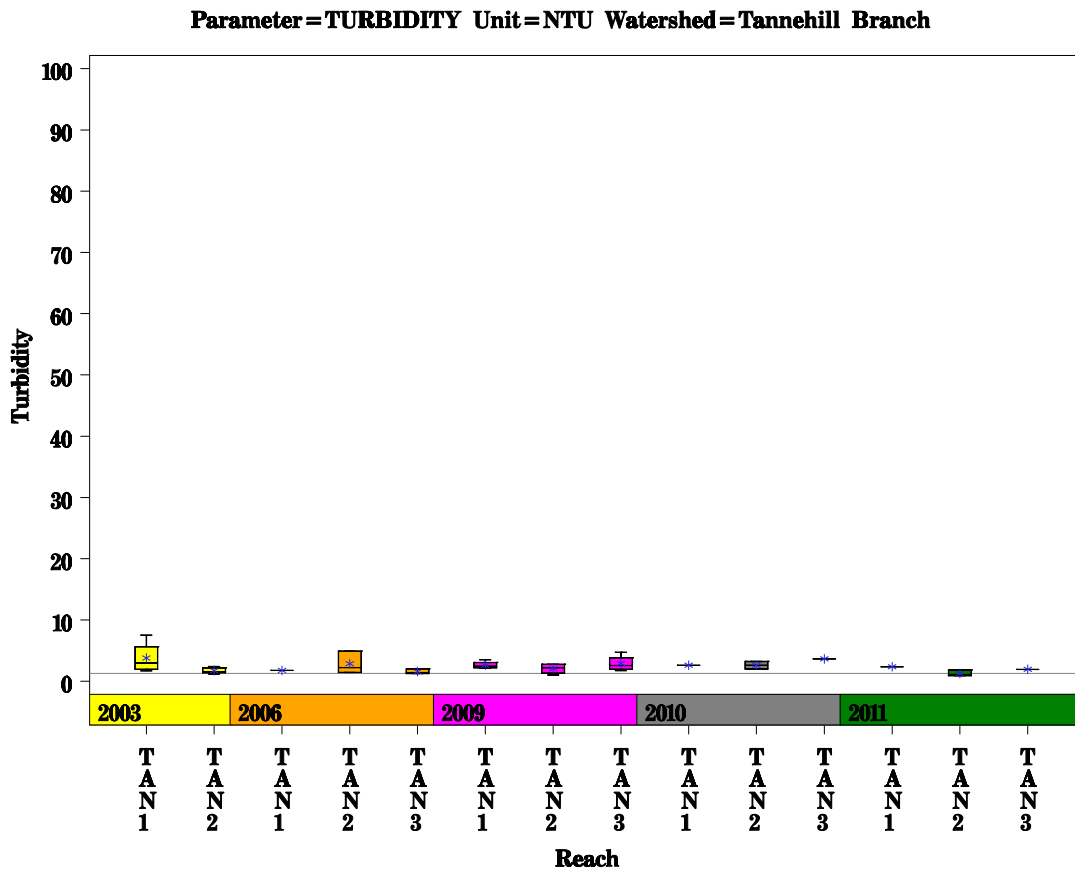
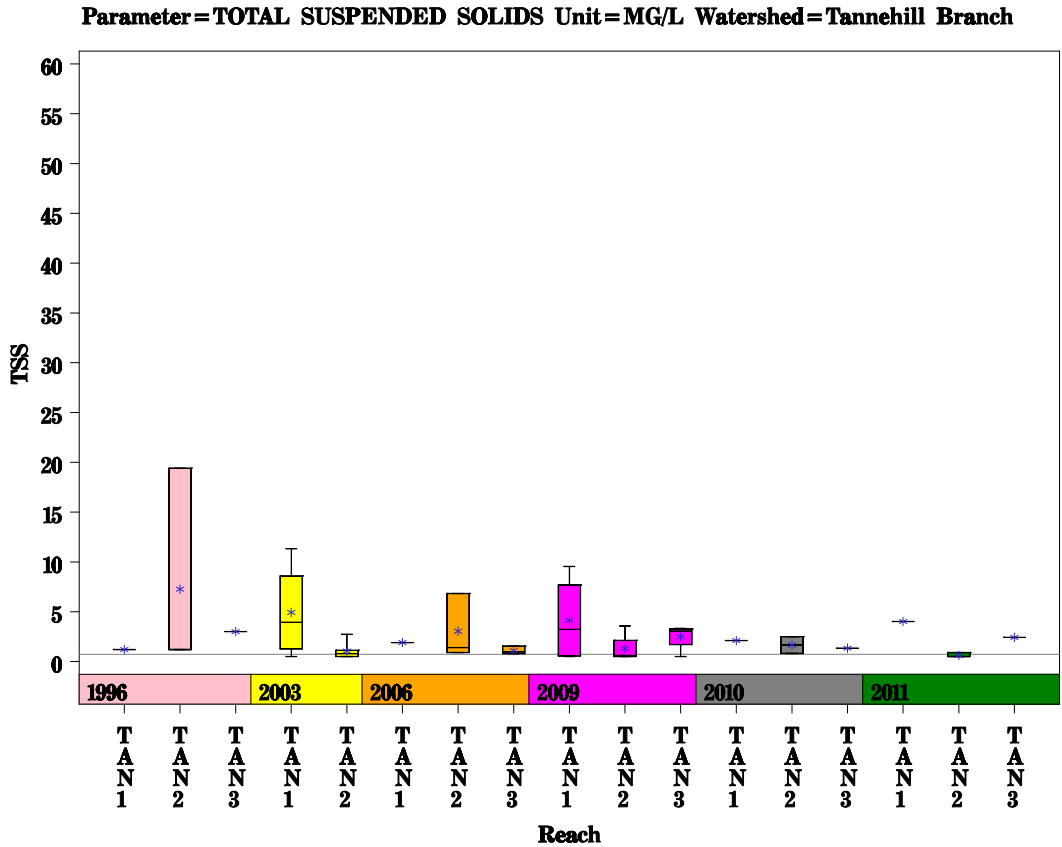


Parameter = E COLI BACTERIA Unit = MPN/100ML Watershed = Tannehill Branch



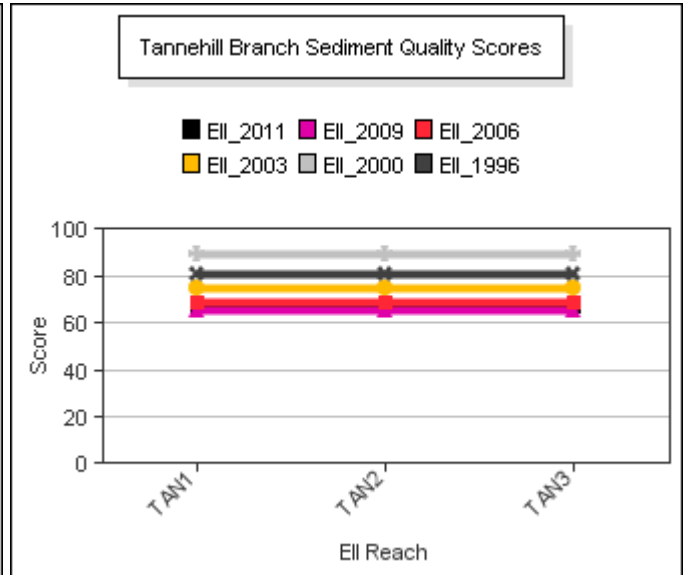
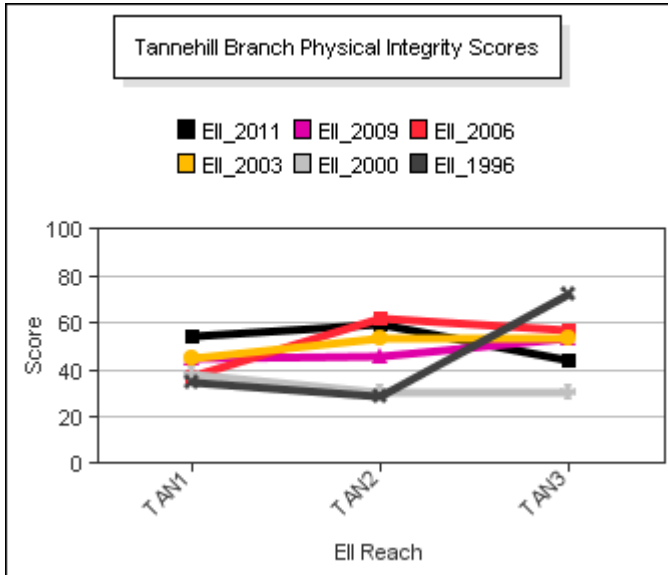
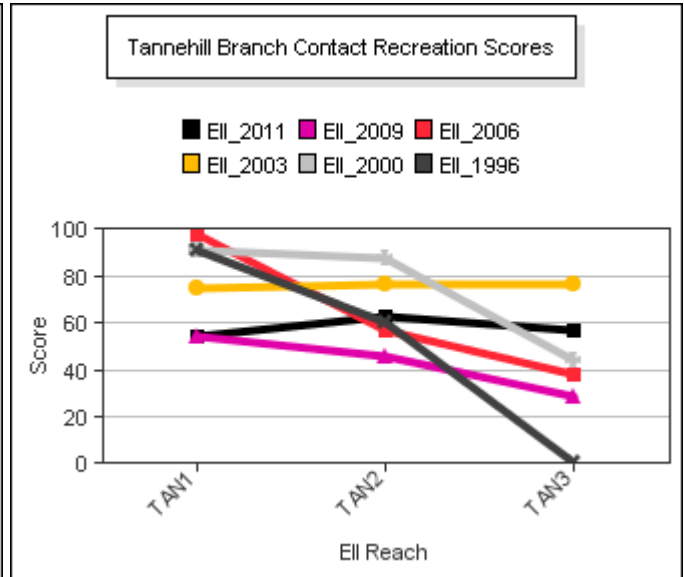
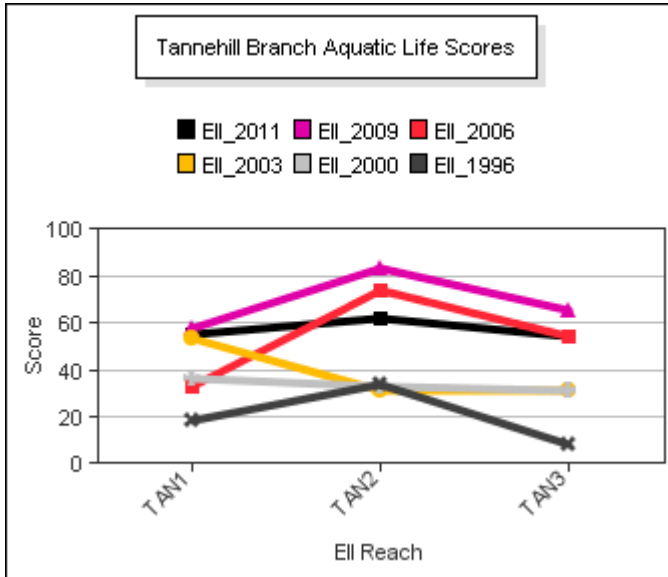
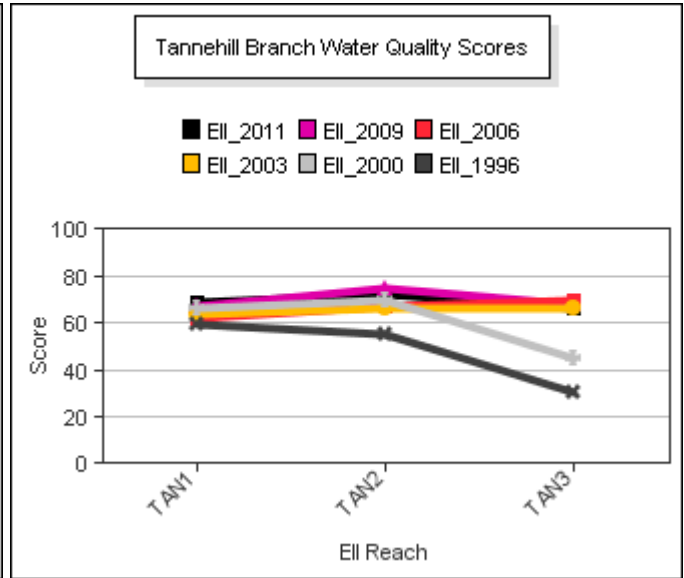
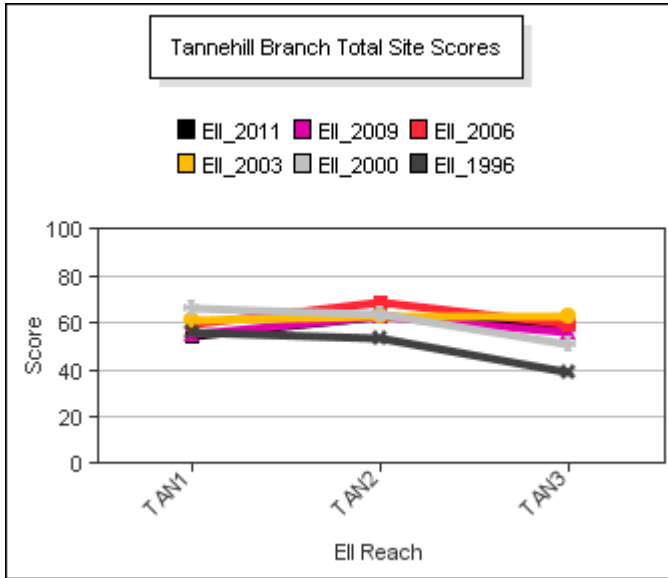
Tannehill Creek Watershed

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



Tannehill Creek Watershed

Score Summary – Reach scores for each sample year



Tannehill Creek Watershed

Site Photographs



3858-t00-ur-06-03-2009



3858-t00-ds-06-03-2009



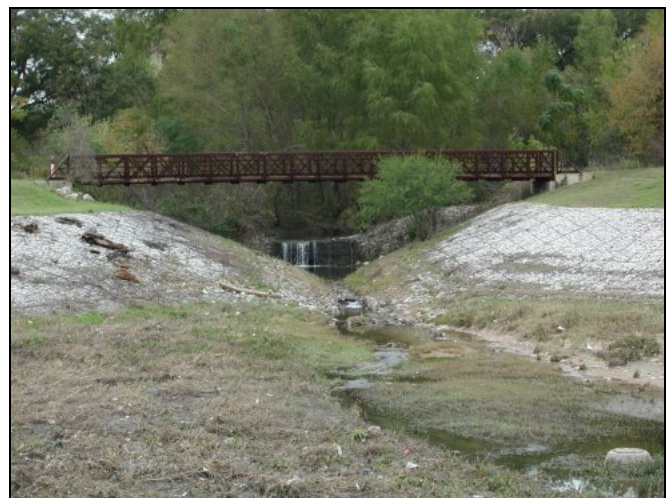
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842_t00-ds-02_14_2001



841_t00-us-02_15_2001



854_t00-na-02_13_2001

Tannehill Creek Watershed

Site Photographs



843_t00-us-07_10_2006



843_t00-ds-07_10_2006



843-t00-us-06-03-2009



843-t00-ds-06-03-2009



1476-t00-us-06-02-2009



1476-t00-ds-06-02-2009

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