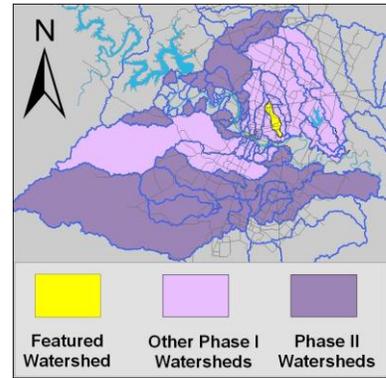


Tannehill Creek Watershed

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)	43.5 %					
	Impervious cover (2013 estimate)	44.6 %					
Overall EII Scores	2000	2003	2006	2009	2011	2013	
	61	62	62	58	59	61	



Flow Regime* for Sample Sites on Tannehill Creek Upstream to Downstream

Site	Site Name	2001		2003				2006				2009				2010	2011				2013									
		Feb	Feb	Feb	Mar	Mar	May	Sep	Dec	Feb	May	Jul	Aug	Nov	Feb	May	Jun	Oct	Dec	Dec	Mar	Jun	Jun	Sep	Jan	Apr	May	Jun	Jun	Sep
		WQ	Bio	WQ	WQ	Bio	WQ	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	WQ	WQ	WQ	Bio	WQ	WQ	Bio	WQ	Bio	WQ
841	Highland Mall	B	B																											
3858	Berkman								B	B	B	n	B	B	B	B	B	B	B	B	B	n	n	n	B	B	B	B	B	
842	Bartholomew Park	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	n	n	B	B	B	B	B	B
843	Lovell	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	n	n	B	B	B	B	B	B
1476	Desirable	B	B	B	B	B	B	B	B	B	n	n	B	n	B	B	B	B	B	B	B	B	n	n	B	B		B	B	n

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

Index Scores* for Tannehill 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
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
TAN1	1476	Tannehill Creek @ Desirable Drive	2013	72	68	60	55	51	68	50	85	62
TAN2	843	Tannehill Creek @ Lovell Drive	2013	69	68	39	63	64	74	69	79	63
TAN3	3858	Tannehill Creek @ Berkman Dr	2013	71	68	29	59	51	58	28	88	56

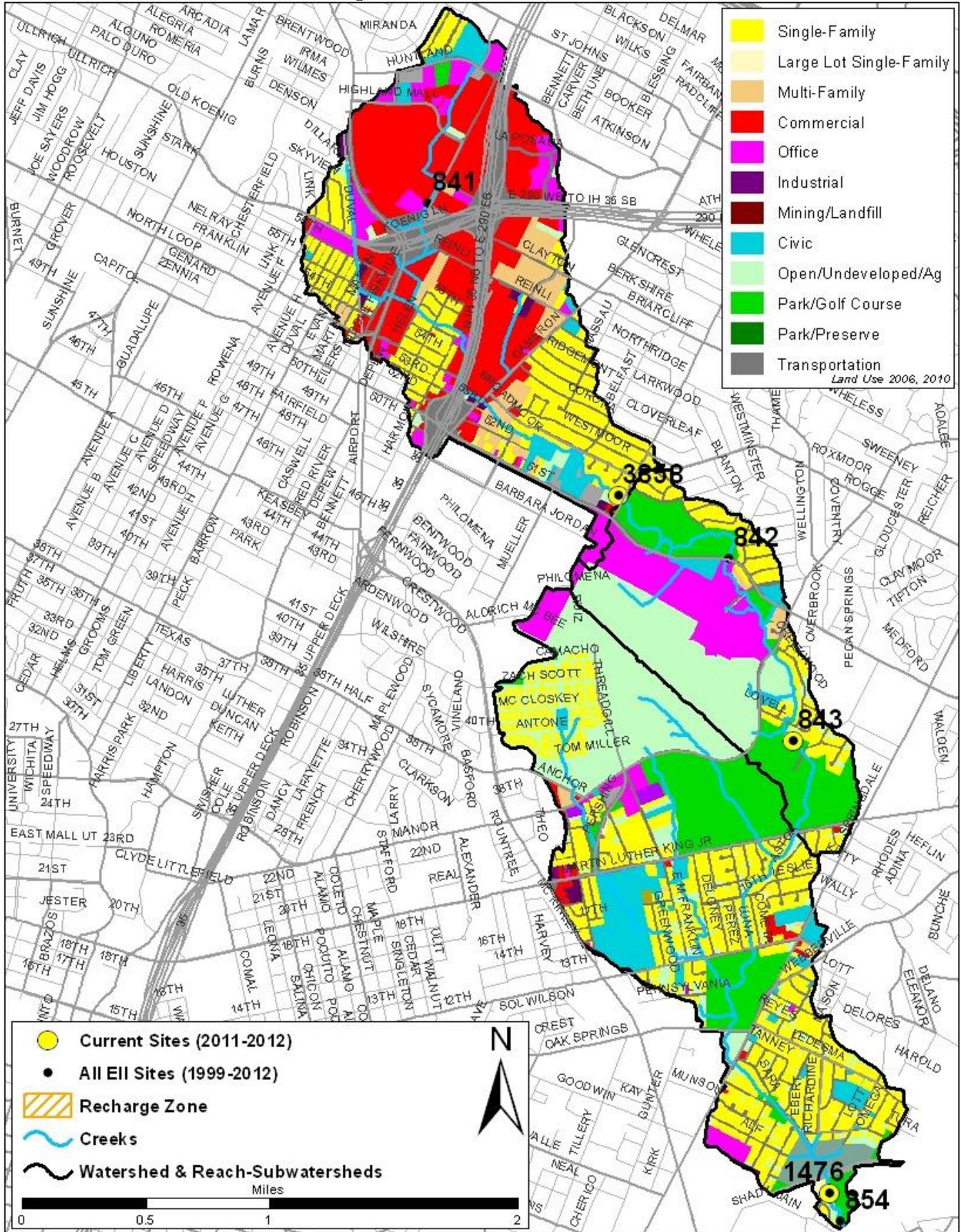
* blank cells indicate parameter was not collected, blank row indicate site was dropped

**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

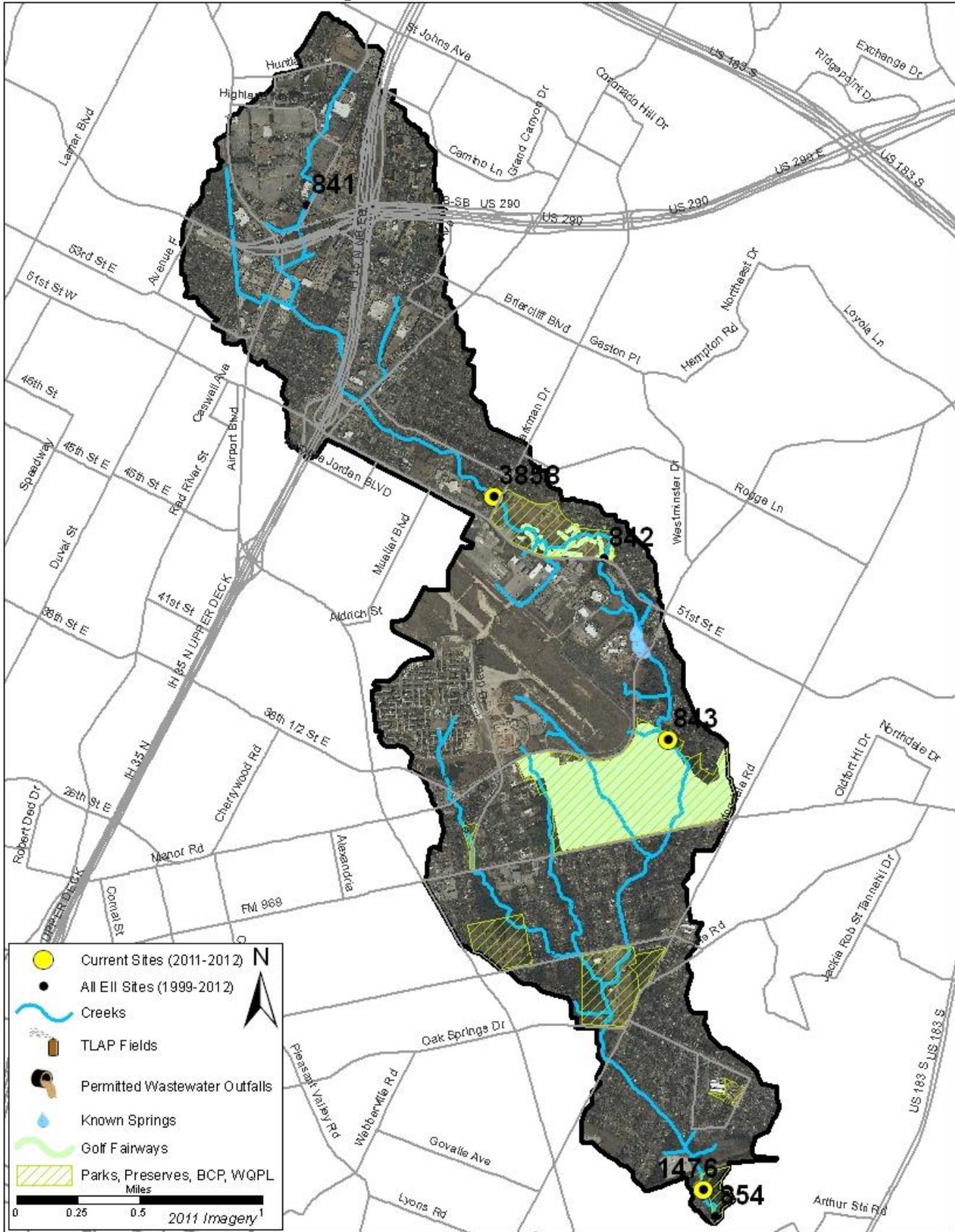
Tannehill Creek Watershed

Land Use Map



Tannehill Creek Watershed

Aerial Map



Tannehill Creek Watershed

Water Quality Data – Temperature, Conductivity, pH, Dissolved Oxygen & *E. coli* for 2013 Sample Sites (Downstream to Upstream)

Qualifiers to the left of value:	>	greater than	Qualifiers to the right of value:	(blank)	Useable
	<	less than		S	Exceeds standard range
	< J	less than detection limit		R	Rejected, failed QC
	J	Estimated			

Site Name	Site #	Reach	Date	Temp.		Cond.		pH		D.O.		E.coli	
				<> Value	flag								
Tannehill @ Desirable Dr	1476	TAN1	01/22/2013	15.2		617		7.81		10.5	R	290.9	
Tannehill @ Desirable Dr	1476	TAN1	04/24/2013	16.5		512		7.53		5.8		124.6	
Tannehill @ Desirable Dr	1476	TAN1	06/26/2013	27.5		665		7.34		3.9		6.3	
Site 1476 Mean				19.7		598		7.56		6.7		140.6	
Tannehill @ Lovell Dr	843	TAN2	01/22/2013	11.6		668		7.90		9.4		143.9	
Tannehill @ Lovell Dr	843	TAN2	04/24/2013	16.1		596		7.95		8.7		579.4	
Tannehill @ Lovell Dr	843	TAN2	06/26/2013	27.2		492		7.82		6.3		328.2	
Tannehill @ Lovell Dr	843	TAN2	09/26/2013	21.8		541		7.86		8.8		139.1	
Site 843 Mean				19.2		574		7.88		8.3		297.7	
Tannehill @ Berkman Dr	3858	TAN3	01/22/2013	10.6		555		7.93		9.0		312.3	
Tannehill @ Berkman Dr	3858	TAN3	04/24/2013	17.3		379		7.99		8.1		> 2419.6	
Tannehill @ Berkman Dr	3858	TAN3	06/26/2013	27.5		243		8.67		5.8		396.8	
Tannehill @ Berkman Dr	3858	TAN3	09/26/2013	27.7		298		8.53		12.6		579.4	
Site 3858 Mean				20.8		369		8.28		8.9		927.0	
Watershed Mean				19.9		506		7.94		8.1		483.7	

Orange highlighting indicates that the value exceeds one standard deviation from the mean of all E.I.I. sites combined.

Summary Statistics for all 2013 – 2014 E.I.I. Sites Combined.					
Parameter	2013-2014 Average	2013-2014 Minimum	2013-2014 Maximum	1 Standard Deviation Above	1 Standard Deviation Below
Temperature (C°)	19.6	8.6	34.0	25.8	
Conductivity (uS/cm)	711	107	1783	942	
pH (Standard units)	7.86	6.96	8.97	8.19	7.52
D.O. (mg/l)	8.1	1.2	30.5	11.4	4.8
<i>E.coli.</i> (col/100ml)	435	1	4840	1127	

Tannehill Creek Watershed

Water Quality Data – Ammonia, Nitrate / Nitrite, Ortho-Phosphorus, Total Suspended Solids & Turbidity for 2013 Sample Sites (Downstream to Upstream)

Qualifiers to the left of value:	>	greater than	Qualifiers to the right of value:	(blank)	Useable
	<	less than		S	Exceeds standard range
	< J	less than detection limit		R	Rejected, failed QC
	J	Estimated			

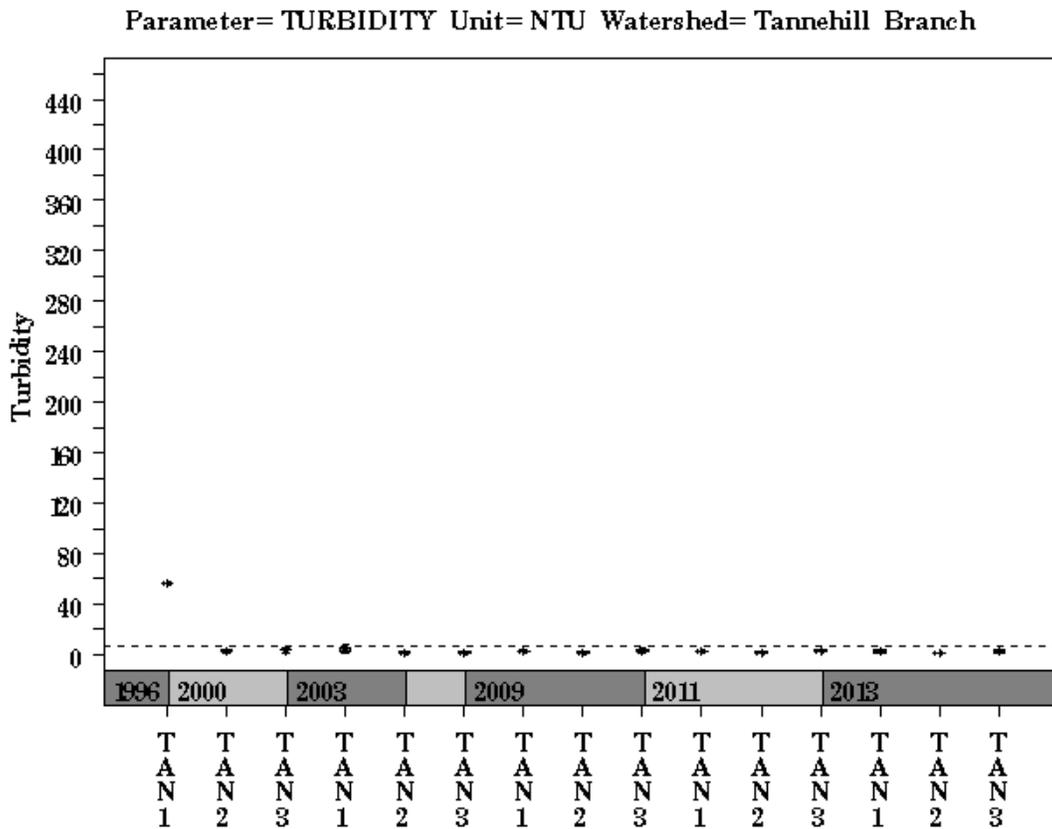
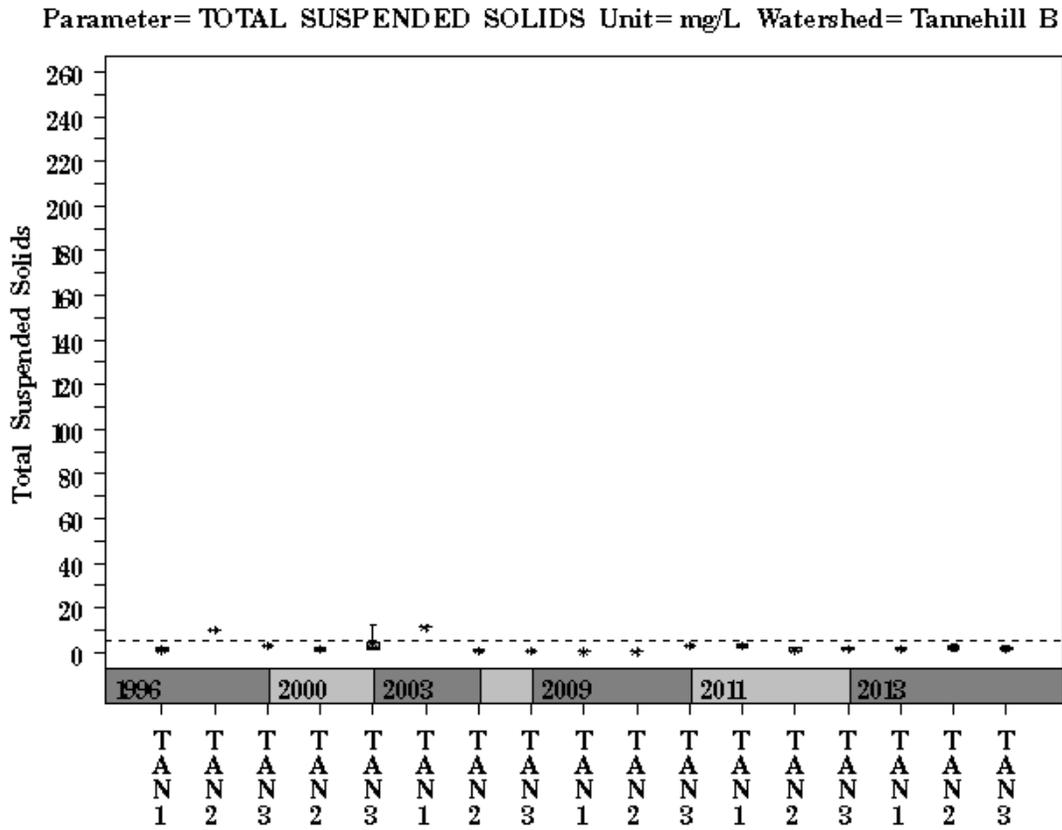
Site Name	Site #	Reach	Date	NH3-N		NO3/NO2		Ortho-P		T.S.S.		Turb.	
				<> Value	flag	<> Value	flag	<> Value	flag	<> Value	flag		
Tannehill @ Desirable Dr	1476	TAN1	01/22/2013	0.030		0.05		<J 0.004		<J 1.10		1.9	
Tannehill @ Desirable Dr	1476	TAN1	04/24/2013	J 0.010	R	<J 0.01		<J 0.004		1.90		3.0	R
Tannehill @ Desirable Dr	1476	TAN1	06/26/2013	0.035		0.03		<J 0.004		2.30		3.6	
Site 1476 Mean				0.025		0.03		0.004		1.77		2.8	
Tannehill @ Lovell Dr	843	TAN2	01/22/2013	<J 0.008		0.24		<J 0.004		<J 1.00		0.9	
Tannehill @ Lovell Dr	843	TAN2	04/24/2013	<J 0.008	R	J 0.02		<J 0.004		4.00		1.5	R
Tannehill @ Lovell Dr	843	TAN2	06/26/2013	<J 0.008		0.03		0.012	R	2.33		0.6	
Tannehill @ Lovell Dr	843	TAN2	09/26/2013	<J 0.008		0.04		<J 0.004		1.66		1.9	
Site 843 Mean				0.008		0.08		0.006		2.25		1.2	
Tannehill @ Berkman Dr	3858	TAN3	01/22/2013	<J 0.008		<J 0.01		0.021	R	<J 1.00		1.4	
Tannehill @ Berkman Dr	3858	TAN3	04/24/2013	<J 0.008	R	<J 0.01		<J 0.004		1.60		1.5	R
Tannehill @ Berkman Dr	3858	TAN3	06/26/2013	0.020		<J 0.01		<J 0.004		2.44		3.6	
Tannehill @ Berkman Dr	3858	TAN3	09/26/2013	<J 0.008		<J 0.01		0.080	R	2.83		2.8	
Site 3858 Mean				0.011		0.01		0.027		1.97		2.4	
Watershed Mean				0.014		0.04		0.013		2.01		2.1	

Orange highlighting indicates that the value exceeds one standard deviation from the mean of all E.I.I. sites combined.

Summary Statistics for all 2013 – 2014 E.I.I. Sites Combined.				
Parameter	2013-2014 Mean	2013-2014 Minimum	2013-2014 Maximum	1 Standard Deviation Above
NH3-M (mg/l)	0.031	0.008	2.250	0.150
NO3-N (mg/l)	1.16	0.01	16.30	4.02
Ortho-P (mg/l)	0.041	0.004	1.360	0.164
TSS (mg/l)	5.6	1.0	70.0	15.3
Turbidity (NTU)	4.5	0.0	97.1	13.2

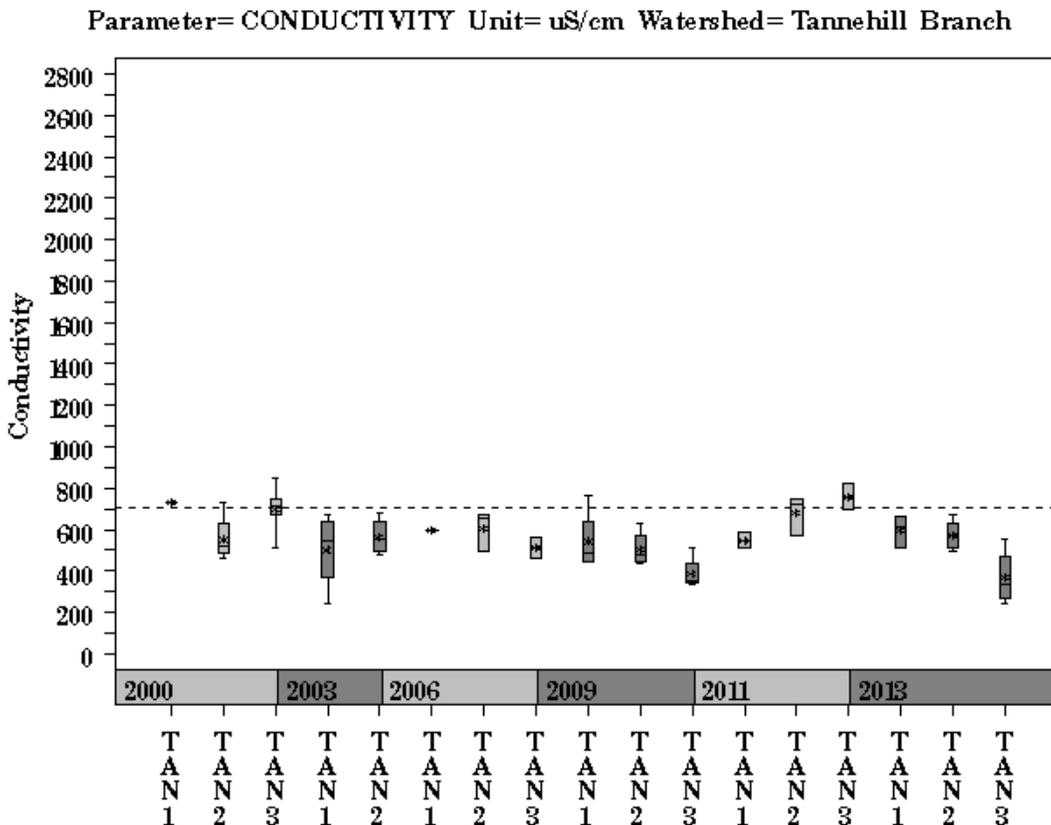
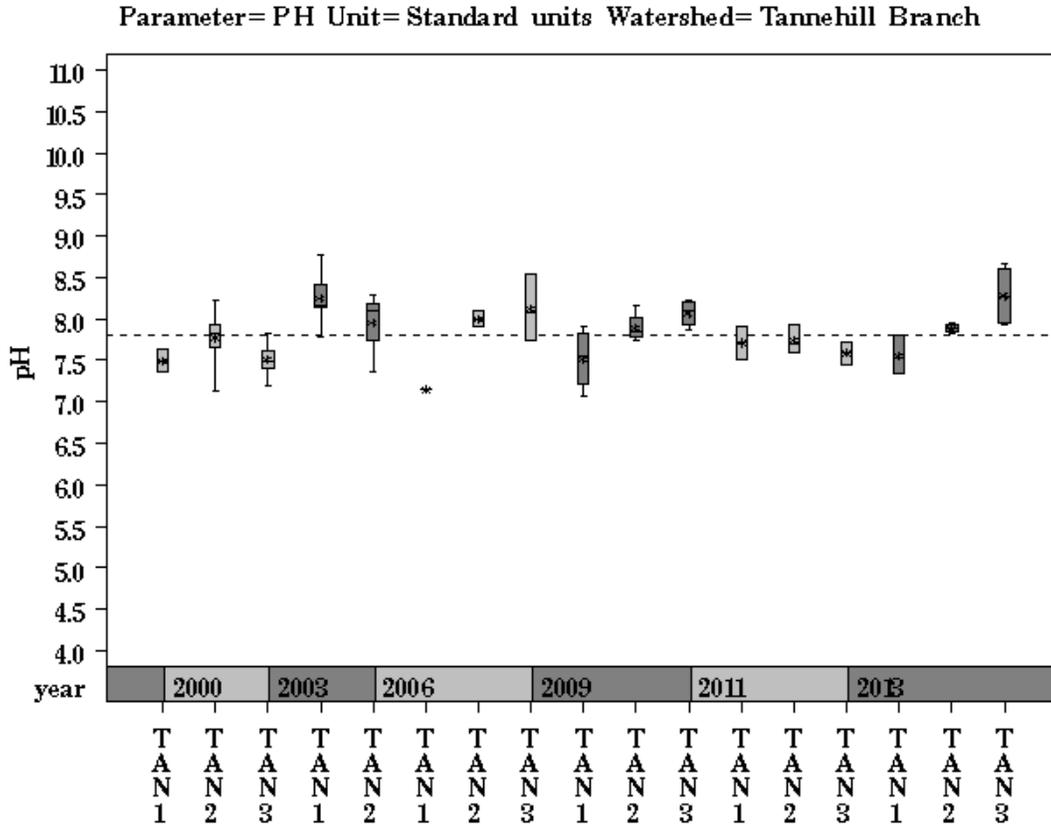
Tannehill Creek Watershed

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



Tannehill Creek Watershed

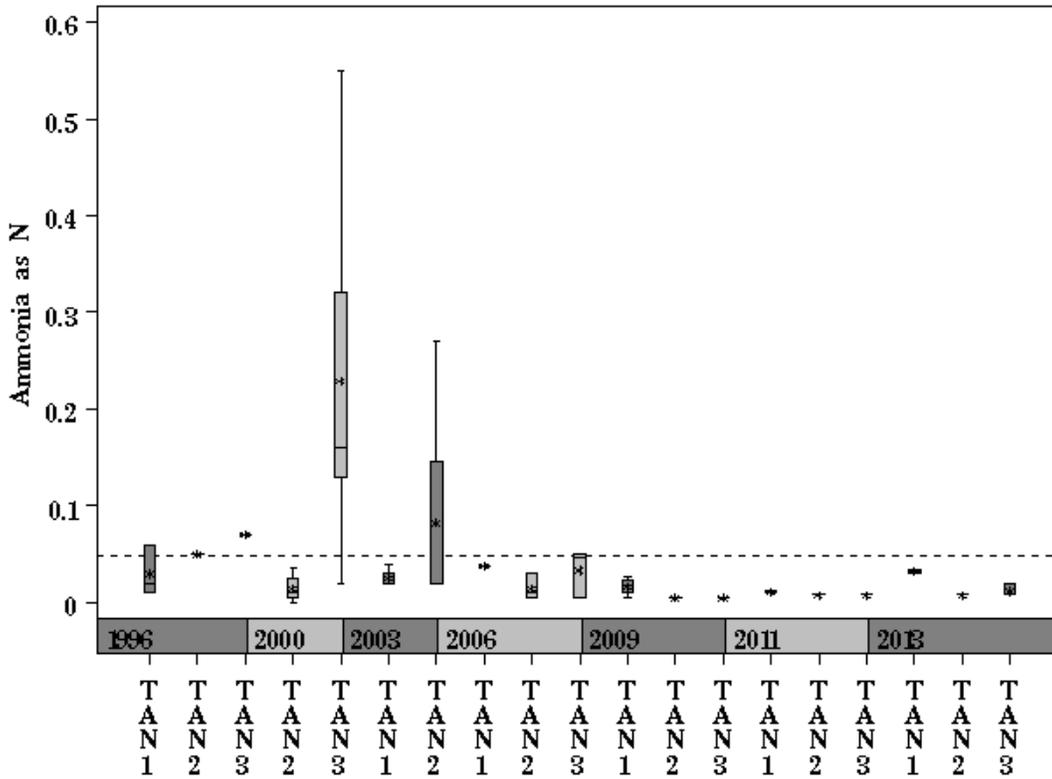
Data Summary Graphs – pH and Conductivity (Downstream to Upstream by Year)



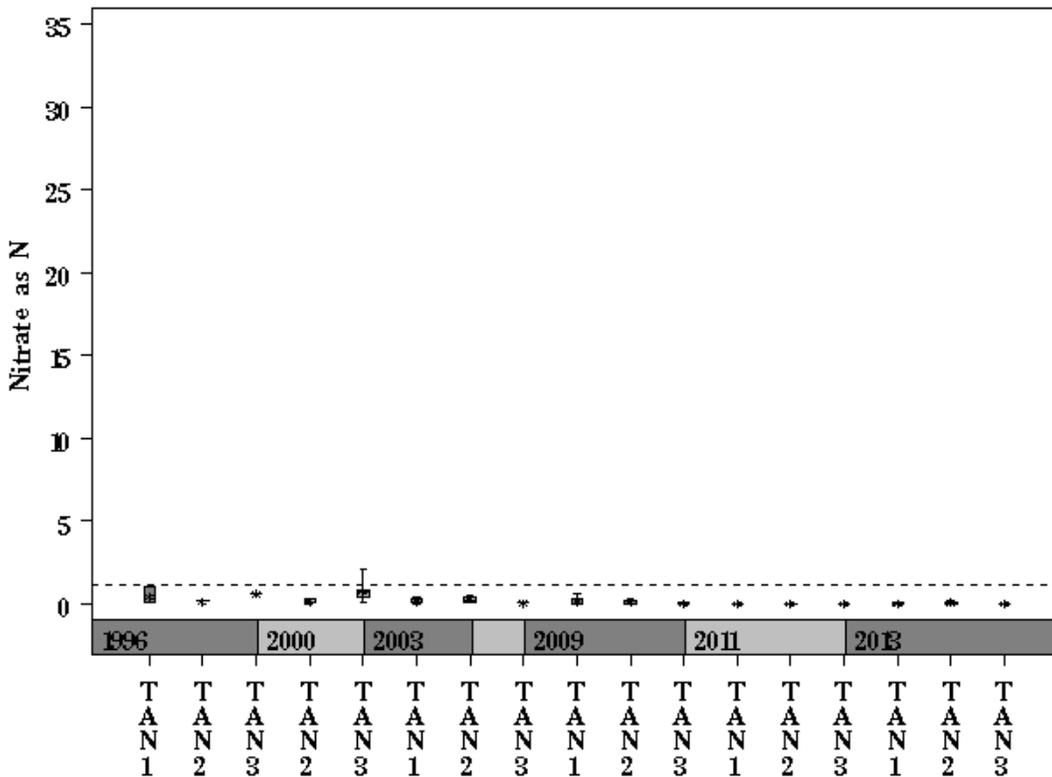
Tannehill Creek Watershed

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

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



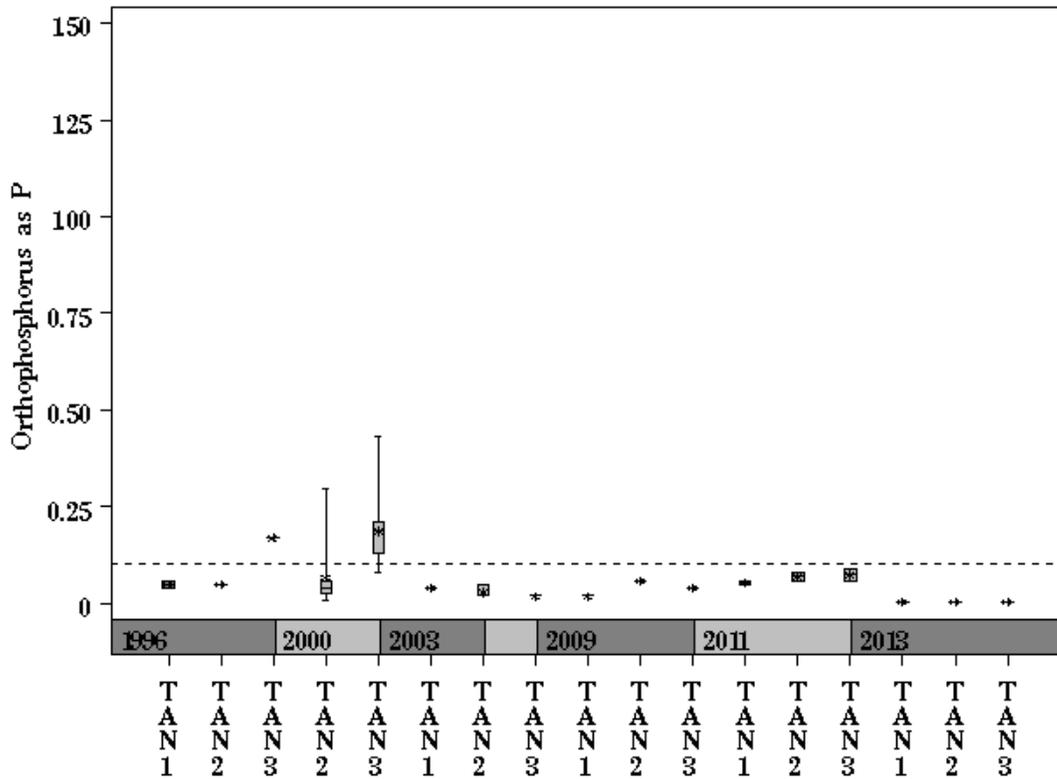
Parameter= NITRATE AS N Unit= mg/L Watershed= Tannehill Branch



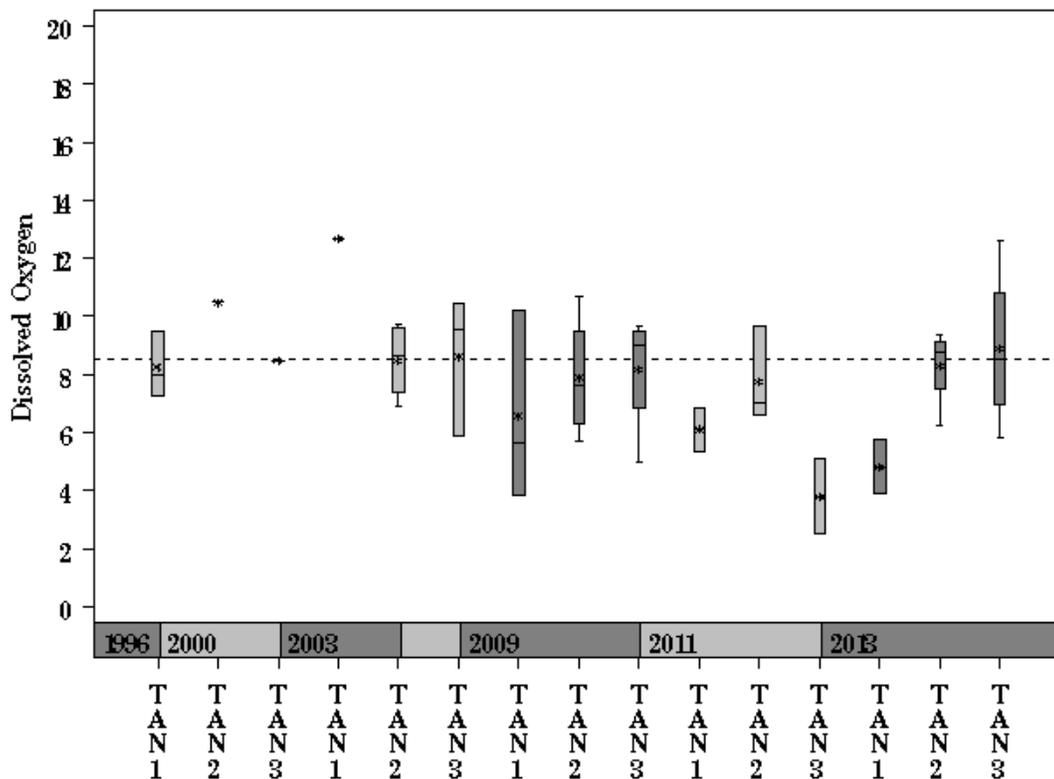
Tannehill Creek Watershed

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

Parameter= ORTHOPHOSPHORUS AS P Unit= mg/L Watershed= Tannehill Bra

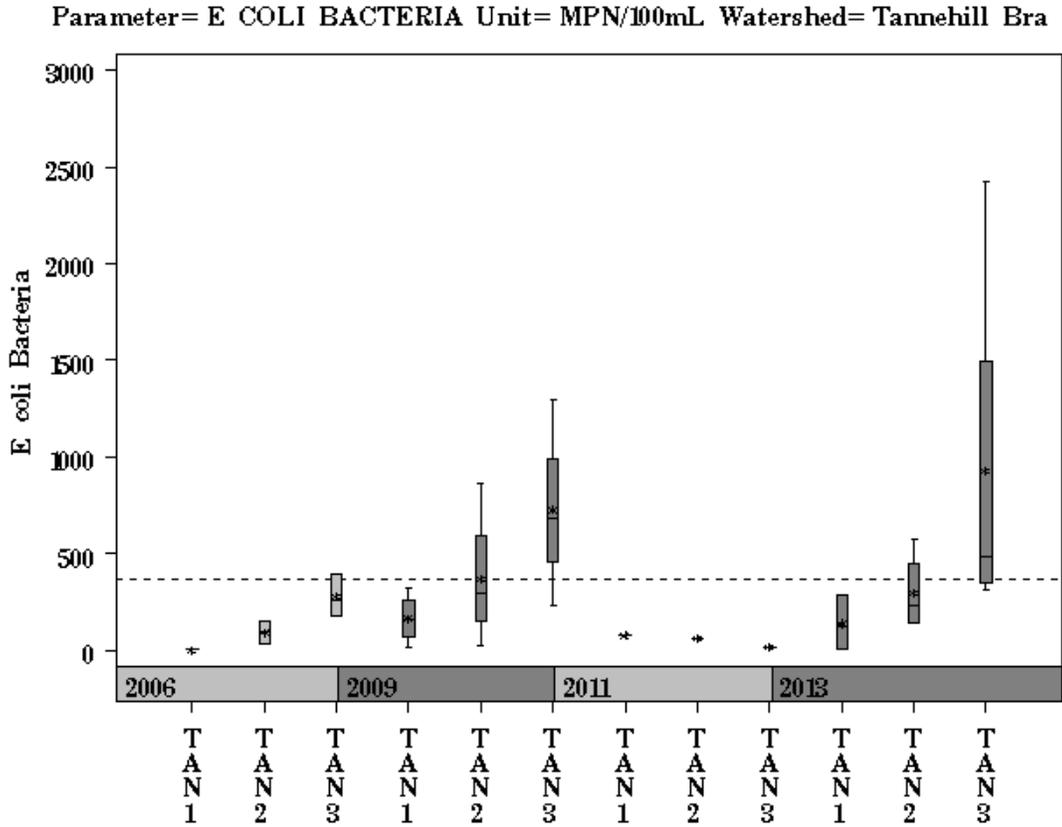


Parameter= DISSOLVED OXYGEN Unit= mg/L Watershed= Tannehill Branch



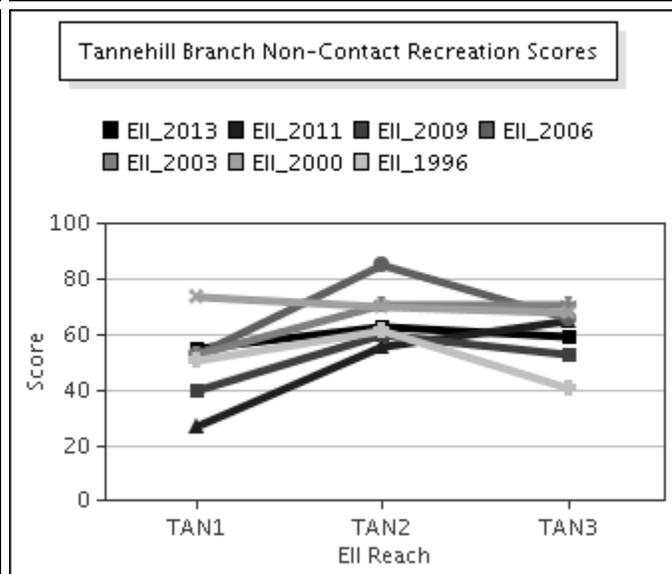
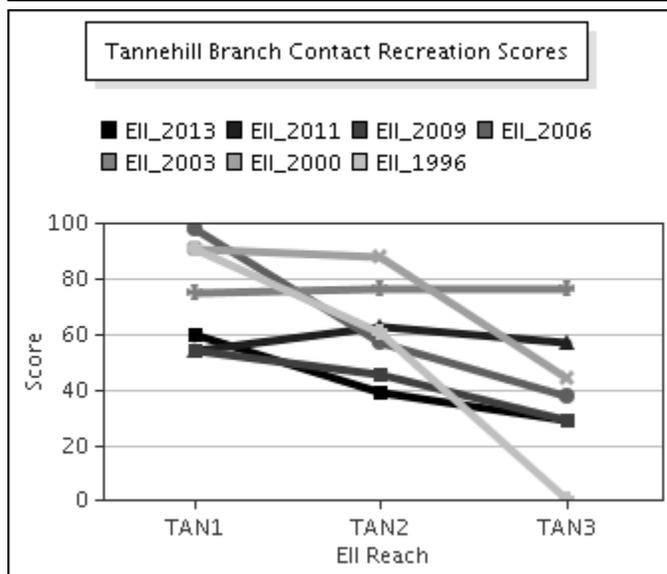
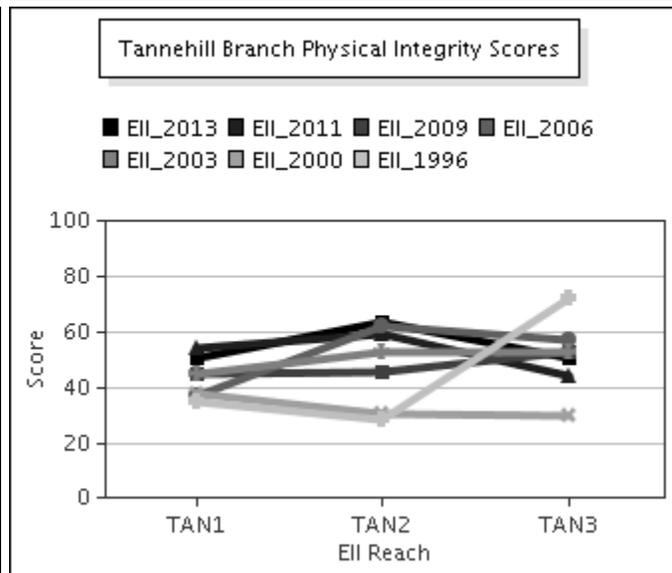
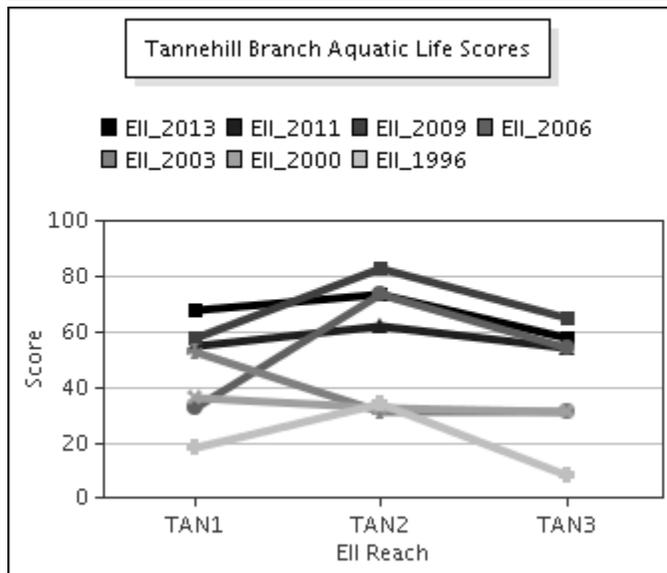
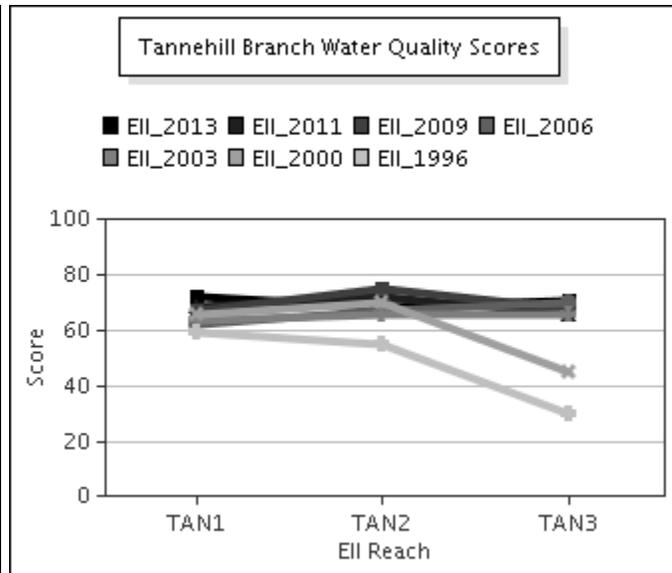
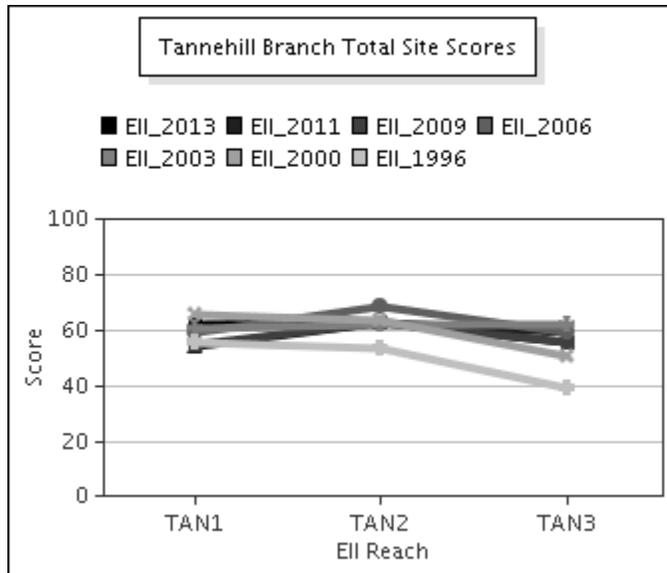
Tannehill Creek Watershed

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



Tannehill Creek Watershed

Score Summary – Reach scores for each sample year



Tannehill Creek Watershed

Benthic Macroinvertebrates – Taxa List, Pollution Tolerance Index & Functional Feeding Group for 2013 Sample Sites (Downstream to Upstream)

Benthic Macroinvertebrate ID	PTI	FFG	Tannehill @ Desirable Dr (Site 1476)	Tannehill @ Lovell Dr (Site 843)	Tannehill @ Berkman Dr (Site 3858)
<i>Chimarra</i> sp.	2	FC		1	
<i>Callibaetis</i> sp.	4	CG	3		
<i>Fallceon quilleri</i>	4	SC,CG		41	
Ostracoda	4	FC,CG			2
<i>Simulium</i> sp.	4	FC		3	
<i>Hydaticus</i> sp.	5	P	1		
<i>Petrophila</i> sp.	5	SC		1	
<i>Argia</i> sp.	6	P		34	
<i>Brechmorhoga mendax</i>	6	P		2	
<i>Cheumatopsyche</i> sp.	6	FC		9	
Chironomidae	6	P,FC	8	6	104
Hydracarina	6			2	1
<i>Rhagovelia</i> sp.	6	P	1	2	
Tanypodinae	6	P	2	9	
<i>Bezzia</i> sp. / <i>Palpomyia</i> sp.	7	P,CG			1
<i>Caenis</i> sp.	7	SC,CG	10	3	33
<i>Pisidium</i> sp.	7	FC			1
Scirtidae	7	SH,SC,CG		1	
<i>Stenelmis</i> sp.	7	SC,CG		2	
Hirudinea	8	P			1
<i>Hyalella</i> sp.	8	SH,CG	5		
Oligochaeta	8	CG	3	1	7
<i>Physella</i> sp.	9	SC	2	1	18
<i>Dugesia</i> sp.		P,CG		27	12

Tannehill Creek Watershed

Benthic Macroinvertebrates – Metric Summary for 2013 Sample Sites (Downstream to Upstream)

Scoring Metric	Tannehill @ Desirable Dr (Site 1476)	Tannehill @ Lovell Dr (Site 843)	Tannehill @ Berkman Dr (Site 3858)
Number of Taxa *	8	16	9
Hilsenhoff Biotic Index *	6.7	5.3	6.6
Number of Ephemeroptera Taxa *	2	2	1
Percent of Total as Chironomidae *	29	10	58
Number of EPT Taxa *	2	4	1
Percent of Total as EPT *	37	37	18
Percent of Total as Predator *	34	55	66
Number of Intolerant Taxa *	1	3	1
Percent Dominance (Top 3 Taxa) *	66	70	87
EPT / EPT + Chironomidae	1	1	0
Number of Diptera Taxa	1	2	2
Number of Non-Insect Taxa	3	4	6
Number of Organisms	35	145	179
Percent Dominance (Top 1 Taxa)	29	28	58
Percent of Total as Collector / Gatherer	60	52	31
Percent of Total as Dominant Guild (FFG)	60	55	66
Percent of Total as Elmidae	0	1	0
Percent of Total as Filterers	29	19	59
Percent of Total as Grazers (PI & SC)	34	34	28
Percent of Total as Tolerant Organisms	6	1	10
Percent of Trichoptera as Hydropsychidae	0	90	0
Ratio of Intolerant : Tolerant Organisms	0.12	0.63	0.01
TCEQ Qualitative Aquatic Life Use Score	17	23	17
TCEQ Quantitative Aquatic Life Use Score	29	29	21

* **EII scoring parameter: Nine metric parameters are used in the calculation of the EII Benthic Subindex score. Other metrics are shown to supplement evaluation.**

- # of Taxa: Higher diversity (number of taxa) correlates with greater biological integrity. The average number of taxa per site for 2013/2014 samples was 15; the lowest value was 5 and the highest value was 30.
- Hilsenhoff Biotic Index (HBI): HBI values range from 0 to 10. Low HBI values reflect a higher abundance of taxa that are sensitive to organic (nutrient) pollution, thus a lower level of this type of pollution. The average HBI per site for 2013/2014 samples was 5.4; the lowest value was 3.7 and the highest value was 8.1.
- # of Ephemeroptera taxa: A higher number of Ephemeroptera (mayfly) taxa correlates with greater biological integrity. The average number of taxa per site for 2013/2014 samples was 2; the lowest value was 0 and the highest value was 7.
- % of total as Chironomidae: The percentage of the sample represented by the Dipteran family Chironomidae will increase with a decrease in biological integrity. The average percent Chironomidae per site for 2013/2014 samples was 16%; the lowest value was 0% and the highest value was 77%.
- # of EPT Taxa: A higher number of Ephemeroptera (mayfly), Plecoptera (stonefly) and Trichoptera (caddisfly) taxa correlates with greater biological integrity. The average number of EPT taxa per site for 2013/2014 samples was 4; the lowest value was 0 and the highest value was 12.
- % of total as EPT: The percentage of the sample represented by the insect orders Ephemeroptera (mayfly), Plecoptera (stonefly) and Trichoptera (caddisfly) will decrease with a decrease in biological integrity. The average percent EPT taxa per site for 2013/2014 samples was 46%; the lowest value was 0% and the highest value was 89%.
- % of total as Predator: The percentage of the sample represented by predators is variable with regard to biological integrity. The average percent predator per site for 2013/2014 samples was 31%; the lowest value was 3% and the highest value was 82%.
- # of Intolerant Taxa: A higher number of pollution intolerant taxa correlates with greater biological integrity. The average number of intolerant taxa per site for 2013/2014 samples was 5; the lowest value was 0 and the highest value was 15.
- % Dominance (top 3 taxa): The percentage of the sample represented by the three most abundant taxa will increase with a decrease in biological integrity. The average percent of sample dominated by the top three taxa per site for 2013/2014 samples was 72%; the lowest value was 39% and the highest value was 96%.

Tannehill Creek Watershed

Diatoms – Taxa List & Pollution Tolerance Index for 2013 Sample Sites (Downstream to Upstream)

Diatom Species Name	PTI	Tannehill @ Desirable Dr (Site 1476)	Tannehill @ Lovell Dr (Site 843)	Tannehill @ Berkman Dr (Site 3858)
<i>Amphora inariensis</i>	4	4	7	2
<i>Diploneis oblongella</i>	4		1	
<i>Diploneis ovalis</i>	4	2		
<i>Eunotia formica</i>	4		2	2
<i>Achnanthes exigua</i>	3	12		
<i>Achnantheidium minutissimum</i>	3	202	17	5
<i>Amphora libyca</i>	3		2	9
<i>Amphora pediculus</i>	3	21	22	18
<i>Caloneis bacillum</i>	3		4	
<i>Caloneis schumanniana</i>	3			2
<i>Caloneis ventricosa</i>	3	2	6	3
<i>Cymbella affinis</i>	3		9	22
<i>Cymbella hustedtii</i>	3			5
<i>Denticula kuetzingii</i>	3		55	10
<i>Encyonema silesiacum</i>	3	2		6
<i>Epithemia turgida</i>	3			3
<i>Eunotia bilunaris</i>	3	1	2	
<i>Fragilaria capucina</i>	3		20	
<i>Geisslera decussis</i>	3	8	2	
<i>Gomphonema acuminatum</i>	3		6	53
<i>Gomphonema affine</i>	3		8	81
<i>Gomphonema clavatum</i>	3		4	30
<i>Gomphonema gracile</i>	3		6	
<i>Gomphonema grovei</i> var. <i>lingulatum</i>	3			2
<i>Gomphonema truncatum</i>	3		23	
<i>Halamphora montana</i>	3	2		
<i>Hantzschia amphioxys</i>	3			1
<i>Navicula kotschyi</i>	3		2	
<i>Navicula radiosa</i>	3	2	3	
<i>Nitzschia fonticola</i>	3	2		
<i>Nitzschia linearis</i>	3		2	
<i>Nitzschia nana</i>	3		1	
<i>Reimeria sinuata</i>	3	21	53	34
<i>Rhoicosphenia abbreviata</i>	3	2	2	29
<i>Rhopalodia gibba</i>	3		2	2
<i>Tabularia fasciculata</i>	3		6	20
<i>Achnantheopsis lanceolata</i>	2	33		
<i>Cyclotella meneghiniana</i>	2	6		
<i>Cymatopleura solea</i>	2	1		
<i>Encyonema minutum</i>	2	1	144	
<i>Luticola mutica</i>	2			2
<i>Navicula menisculus</i>	2	2		
<i>Navicula recens</i>	2	2		
<i>Navicula veneta</i>	2	4		
<i>Nitzschia amphibia</i>	2	9	19	5
<i>Nitzschia inconspicua</i>	2	47		
<i>Sellaphora laevissima</i>	2	2		
<i>Sellaphora pupula</i>	2	3		2
<i>Synedra ulna</i>	2		10	76
<i>Gomphonema parvulum</i>	1	36	60	5
<i>Nitzschia palea</i>	1	4		
<i>Sellaphora seminulum</i>	1	4		
<i>Caloneis aerophila</i>				14
<i>Cocconeis placentula</i> var. <i>lineata</i>		33		55
<i>Eolimna minima</i>		18		
<i>Kolbesia ploenensis</i>				2
<i>Navicula antonii</i>		5		
<i>Navicula rostellata</i>		7		

Tannehill Creek Watershed

Diatoms – Metric Summary for 2013 Sample Sites (Downstream to Upstream)

Scoring Metric	Tannehill @ Desirable Dr (Site 1476)	Tannehill @ Lovell Dr (Site 843)	Tannehill @ Berkman Dr (Site 3858)
<i>Cymbella</i> Richness*	3	3	4
Number of organisms	500	500	500
Number of taxa	32	30	29
Percent motile taxa*	20	6	2
Percent similarity to reference condition*	40	26	21
Pollution tolerance index*	2.56	2.43	2.79

* **EII scoring parameter: Four metric parameters are used in the calculation of the EII Diatom Subindex score: *Cymbella* richness, percent motile taxa, percent similarity to reference condition and pollution tolerance index. Number of taxa is non-scoring, but is shown to supplement evaluation. The number of organisms is typically a sample of 500, but occasionally differs due to sample conditions.**

1. *Cymbella* Richness: The Cymbelloid taxa include species in the genus *Cymbella*, in addition to some species belonging to the genera *Cymbellopsis*, *Cymbopleura*, *Encyonema*, *Encyonemopsis*, *Navicymbula* and *Reimeria*. Their presence highlights the presence of sensitive species, especially with regard to impervious cover, and this value increases with an increase in overall water quality. The average number of Cymbelloid taxa per site for 2013/2014 samples was 3; the lowest value was 0 and the highest value was 7.
2. % Motile Taxa: This is a siltation index showing the relative abundance of genera that are able to move towards the surface if covered by silt. A higher percentage is indicative of a degraded condition caused by increased silt pollution. The average percent motile taxa per site for 2013/2014 samples was 16%; the lowest value was 0% and the highest value was 77%.
3. % similarity to reference condition: This percentage compares a site to reference sites that are selected based on having low percent impervious cover. A higher percentage reflects greater biological integrity. The average percent similarity per site for 2013/2014 samples was 31%; the lowest value was 6% and the highest value was 57%.
4. Pollution Tolerance Index (PTI): This is a total value for a sample, which is a function of the abundance of each taxon (usually species) in a sample and the individual PTI's for each of those taxa. Individual PTI's for each taxon range from 1 (most pollution tolerant) to 4 (most pollution sensitive), thus higher total PTI's for a site reflect greater biological integrity. The average PTI per site for 2013/2014 samples was 2.76; the lowest value was 1.70 and the highest value was 3.45.

Tannehill Creek Watershed

Site Photographs



3858-t00-ur-06-03-2009



3858-t00-ds-06-03-2009



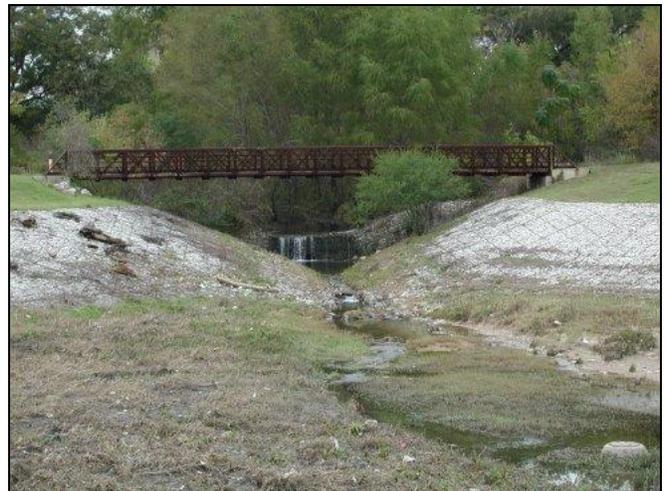
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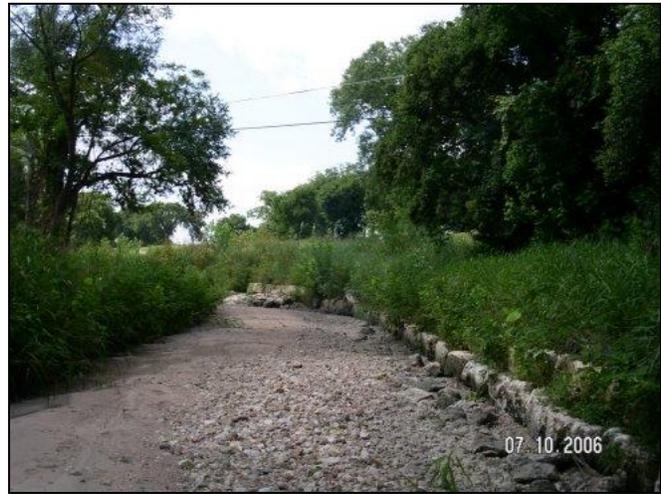
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Tannehill Creek Watershed

Site Photographs



843_t00-us-07_10_2006



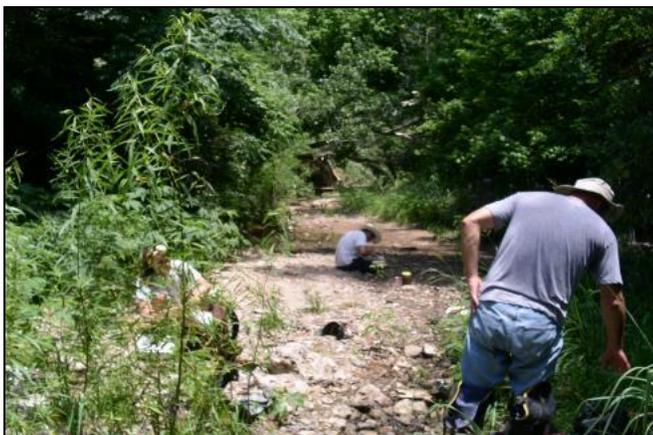
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843-t00-us-06-03-2009



843-t00-ds-06-03-2009



1476-t00-us-06-02-2009



1476-t00-ds-06-02-2009

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