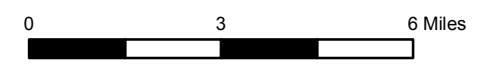


City of Dallas Water Quality Sample Locations

- Clean Rivers Program Monitoring Sites
- Wet Weather Monitoring Site
- Water Quality Monitoring: Without Insects
- Water Quality Monitoring: With Insects
- Stream Segments
- Freeway
- Major Street
- Dallas City Limit
- Waterway
- Lakes
- Sub-Watershed Boundary
- Watershed Boundary



This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

Table E-1a Wet Weather Data - Local Watershed Program											
HUC Watershed	Sample ID	Collection Date	Temperature (°C)	pH	Nitrate + Nitrite (as N) (mg/L)	Total Phosphorus (as P) (mg/L)	Biochemical Oxygen Demand (mg/L)	Chemical Oxygen Demand (mg/L)	Nitrogen, Total Kjeldahl (mg/L)	Phosphorus, Dissolved (as p) mg/L	Total Nitrogen (calculated)
South Mesquite Creek	USME1	1/6/2016	8.8	7.18	1.45	0.16	44.2	9.70	0.287	0.09	1.74
		4/17/2016	19.1	7.57	0.78	0.06	< 1.00	281	0.316	< 0.005	1.10
Grapevine Creek-Elm Fork Trinity River	GC-EFTR1	1/21/2016	9.5	7.63	1.25	0.05	3.93	11.5	0.128	0.42	1.38
		7/15/2016	24.1	7.95	0.97	0.32	19.4	53.6	0.272	0.22	1.25
Low Branch Mountain Creek	JPB-LBMC1	1/6/2016	12.2	6.62	8.18	1.84	155	80.2	<0.500	0.35	8.18
		7/15/2016	23.0	7.80	1.31	0.11	< 1.00	18.4	0.156	0.08	1.47

Table E-1b Wet Weather Data - Local Watershed Program								
HUC Watershed	Sample ID	Collection Date	E. coli	Total Coliform	Oil & Grease (mg/L)	Total Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Hardness (mg/L)
South Mesquite Creek	USME1	1/6/2016	345	4106	< 1.40	133	120	358.1
		4/17/2016	145	17329	< 1.40	40	376	196.8
Grapevine Creek-Elm Fork Trinity River	GC-EFTR1	1/21/2016	60.00	250	< 1.40	34	832	498.4
		7/15/2016	4884	TNTC	< 1.40	263	176	160.8
Low Branch Mountain Creek	JPB-LBMC1	1/6/2016	670	27550	1.88	2088	30.0	1444
		7/15/2016	1314	155310	< 1.40	46	512	407.1

Table E-1b Wet Weather Data - Local Watershed Program								
HUC Watershed	Sample ID	Collection Date	Arsenic (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Zinc (mg/L)
South Mesquite Creek	USME1	1/6/2016	0.002	< 0.001	0.008	0.003	0.005	0.027
		4/17/2016	< 0.0005	< 0.0004	0.001	0.015	0.003	0.021
Grapevine Creek-Elm Fork Trinity River	GC-EFTR1	1/21/2016	< 0.002	< 0.001	0.004	0.005	< 0.004	0.008
		7/15/2016	0.002	0.001	0.013	0.178	0.009	0.178
Low Branch Mountain Creek	JPB-LBMC1	1/6/2016	0.017	< 0.001	0.046	0.030	0.017	0.122
		7/15/2016	< 0.0005	0.0007	0.004	0.156	0.002	0.071

Table E-1b Pesticides Wet Weather Data - Local Watershed Program				
HUC Watershed	Sample ID	Collection Date	Atrazine (µg/L)	Simazine (µg/L)
South Mesquite Creek	USME1	1/6/2016	< 0.010	< 0.031
		4/17/2016	< 0.010	< 0.030
Grapevine Creek-Elm Fork Trinity River	GC-EFTR1	1/21/2016	< 0.010	< 0.030
		7/15/2016	< 0.010	< 0.030
Low Branch Mountain Creek	JPB-LBMC1	1/6/2016	< 0.010	< 0.030
		7/15/2016	< 0.010	< 0.030

Table E-2 Reference Sites Used for Rapid Bio-assessment Program		
HUC Watershed	Site	Reference Site
Bachman Branch – Elm Fork Trinity River	BAB-B – Bachman Branch site B	SMCA - South Mesquite Creek site A
White Rock Creek – White Rock Lake	DIX-A – Dixon Branch site A	SMCA - South Mesquite Creek site A
Five Mile Creek – Trinity River	FIV-A – Five Mile Creek site A	SMCA - South Mesquite Creek site A
Headwaters Turtle Creek	KNI-A – Knights Branch site A	SMCA - South Mesquite Creek site A

Table E-3c Rapid Bio-assessment Protocol – Habitat Assessment Data 1

HUC Watershed	Sample ID	Collection Date	Habitat Score	Average Stream Depth (meters)	Average Stream Width (meters)	Channel Alteration	Channel Sinuosity	Embeddedness
Bachman Branch - Elm Fork Trinity River	JOES-1	4/6/2016	152	-	17.68	15	4	17
		8/10/2016	124	0.24	7.01	15	7	7
	BAB-B	6/10/2016	240	0.42	18.29	20	18	20
		9/8/2016	219	0.22	20.12	18	15	18
	NWDA-1	4/6/2016	163	1.52	18.90	15	7	14
		8/10/2016	127	0.09	18.29	11	5	13
RIB-A	3/29/2016	144	0.22	2.41	14	18	10	
	7/14/2016	138	0.29	3.35	15	10	11	
Delaware Creek - West Fork Trinity River	MOC-A	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A
		8/9/2016	117	0.17	10.00	6	6	9
Farmer's Branch - Elm Fork Trinity River	FARM-1	4/6/2016	149	0.30	15.85	6	11	14
		8/10/2016	179	0.19	8.23	16	13	18
	FIV-A	6/9/2016	100	N/A	20.12	12	12	6
		9/7/2016	99	N/A	21.34	14	13	5
	FIV-B	6/9/2016	130	N/A	10.06	15	10	10
		9/17/2016	136	0.25	14.93	16	9	10
	NEW-A	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A
		8/9/2016	148	0.11	3.66	11	10	14
SEDA-1	4/5/2016	165	1.77	6.10	11	9	14	
	7/22/2016	146	0.12	2.74	15	9	9	
Floyd Branch - White Rock Creek	FLO-A	4/6/2016	165	0.11	7.50	19	14	18
		8/11/2016	154	0.07	7.16	18	9	19
	MCK-C	6/10/2016	103	0.15	3.96	14	9	15
		9/8/2016	94	0.13	4.57	14	7	12

Table E-3c (continued) Rapid Bio-assessment Protocol – Habitat Assessment Data 1								
HUC Watershed	Sample ID	Collection Date	Habitat Score	Average Stream Depth (meters)	Average Stream Width (meters)	Channel Alteration	Channel Sinuosity	Embeddedness
Headwaters Five Mile Creek	FIV-D	4/6/2016	167	0.09	5.18	19	13	13
		8/11/2016	91	0.06	5.18	14	9	8
Headwaters Ten Mile Creek	TEN-B	4/25/2016	209	N/A	12.25	19	10	17
		8/9/2016	125	0.26	8.84	12	13	11
	TEN-D	4/6/2016	163	0.24	15.24	14	10	19
		8/11/2016	124	0.21	5.94	14	10	18
Headwaters Turtle Creek	CEB-B	6/10/2016	133	0.22	3.66	10	10	10
		9/8/2016	124	0.16	4.27	10	7	10
	KNI-A	6/10/2016	134	0.40	20.42	10	10	15
		9/8/2016	94	0.03	11.58	4	5	16
	TRO-A	3/16/2016	126	0.32	4.88	11	10	11
		7/13/2016	125	0.28	2.74	11	10	9
	TUR-A	3/29/2016	134	0.25	3.96	9	10	10
7/14/2016		143	0.16	3.96	15	8	10	
Prairie Creek - Trinity River	PRA-A	4/25/2016	142	0.18	6.04	12	10	10
		8/9/2016	134	0.14	4.57	14	12	12
South Mesquite Creek	SMC-A	6/9/2016	130	N/A	15.24	12	10	10
		9/7/2016	123	0.19	12.19	12	8	10
	SMC-B	3/16/2016	141	0.20	4.88	10	8	15
		7/13/2016	120	0.41	8.23	8	12	10
	SMC-C	3/29/2016	125	0.40	8.84	14	10	3
7/14/2016		119	0.23	4.57	14	12	8	
Turtle Creek - Trinity River	CEDR-1	4/5/2016	157	0.30	9.14	15	12	12
		7/22/2016	134	0.09	6.40	12	14	13
	COO-A	3/16/2016	119	0.27	6.71	9	10	12
		7/13/2016	132	0.47	4.88	6	5	16
White Rock Creek - White Rock Lake	DIX-A	6/10/2016	215	0.36	9.14	19	19	15
		9/8/2016	199	0.24	9.45	18	17	15

Table E-3c (continued)

Rapid Bio-assessment Protocol – Habitat Assessment Data 1

HUC Watershed	Sample ID	Collection Date	Epifaunal Substrate / Available Cover	Frequency of Riffles	Left Bank Stability	Left Bank Vegetative Protection	Pool Substrate Characterization	Pool Variability	Channel Flow Status
Bachman Branch - Elm Fork Trinity River	JOES-1	4/6/2016	15	3	6	6	13	13	15
		8/10/2016	8	5	4	5	11	10	12
	BAB-B	6/10/2016	20	20	10	8	18	20	18
		9/8/2016	18	18	10	6	17	19	15
	NWDA-1	4/6/2016	16	6	6	7	11	14	17
		8/10/2016	5	5	6	3	13	10	16
	RIB-A	3/29/2016	16	8	6	6	11	9	13
		7/14/2016	15	5	6	5	13	10	11
Delaware Creek - West Fork Trinity River	MOC-A	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		8/9/2016	14	10	2	5	7	5	14
Farmer's Branch - Elm Fork Trinity River	FARM-1	4/6/2016	14	6	7	5	11	12	16
		8/10/2016	15	4	8	7	16	12	19
	FIV-A	6/9/2016	8	8	2	2	6	14	5
		9/7/2016	7	7	2	2	5	14	7
	FIV-B	6/9/2016	10	6	4	4	10	12	11
		9/17/2016	9	14	4	4	8	12	10
	NEW-A	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		8/9/2016	8	10	7	6	10	16	14
	SEDA-1	4/5/2016	16	9	5	7	12	13	16
		7/22/2016	12	13	4	5	11	11	12
Floyd Branch - White Rock Creek	FLO-A	4/6/2016	5	18	4	6	5	9	13
		8/11/2016	8	19	6	7	5	9	14
	MCK-C	6/10/2016	5	5	4	5	6	6	6
		9/8/2016	4	6	4	5	5	5	5

Table E-3c (continued)		Rapid Bio-assessment Protocol – Habitat Assessment Data 1							
HUC Watershed	Sample ID	Collection Date	Epifaunal Substrate / Available Cover	Frequency of Riffles	Left Bank Stability	Left Bank Vegetative Protection	Pool Substrate Characterization	Pool Variability	Channel Flow Status
Headwaters Five Mile Creek	FIV-D	4/6/2016	13	17	6	6	13	10	9
		8/11/2016	5	3	6	4	5	2	3
Headwaters Ten Mile Creek	TEN-B	4/25/2016	13	19	9	9	13	13	20
		8/9/2016	10	6	2	7	8	7	12
	TEN-D	4/6/2016	8	9	8	5	5	10	18
		8/11/2016	9	12	6	5	2	5	5
Headwaters Turtle Creek	CEB-B	6/10/2016	10	15	5	5	10	10	10
		9/8/2016	9	9	4	5	12	10	8
	KNI-A	6/10/2016	10	10	6	5	5	10	10
		9/8/2016	8	5	8	2	5	5	6
	TRO-A	3/16/2016	11	5	0	3	13	10	16
		7/13/2016	13	9	3	5	12	8	10
	TUR-A	3/29/2016	15	5	8	5	13	10	11
		7/14/2016	16	5	7	6	16	5	10
Prairie Creek - Trinity River	PRA-A	4/25/2016	6	7	3	8	6	8	15
		8/9/2016	13	4	6	6	13	6	6
South Mesquite Creek	SMC-A	6/9/2016	10	10	4	4	10	10	10
		9/7/2016	10	9	4	4	10	9	8
	SMC-B	3/16/2016	11	3	7	7	13	10	16
		7/13/2016	10	5	6	2	11	9	15
	SMC-C	3/29/2016	11	9	6	4	5	10	15
		7/14/2016	11	7	3	6	10	8	10
Turtle Creek - Trinity River	CEDR-1	4/5/2016	13	12	6	5	12	14	15
		7/22/2016	12	5	4	3	14	7	8
	COO-A	3/16/2016	11	13	5	2	8	6	13
		7/13/2016	11	15	7	8	3	7	7
White Rock Creek - White Rock Lake	DIX-A	6/10/2016	20	10	10	8	15	20	16
		9/8/2016	18	10	9	7	14	18	14

Table E-3c (continued) Rapid Bio-assessment Protocol – Habitat Assessment Data 1								
HUC Watershed	Sample ID	Collection Date	Right Bank Stability	Right Bank Vegetative Protection	Riparian Vegetative Zone Width-Left	Riparian Vegetative Zone Width-Right	Sediment Deposition	Velocity / Depth Regime
Bachman Branch - Elm Fork Trinity River	JOES-1	4/6/2016	6	6	6	6	16	5
		8/10/2016	6	5	5	5	13	5
	BAB-B	6/10/2016	10	8	10	10	15	15
		9/8/2016	10	6	10	10	14	14
	NWDA-1	4/6/2016	6	7	7	7	14	9
		8/10/2016	6	3	2	2	15	12
	RIB-A	3/29/2016	4	6	3	3	11	6
7/14/2016		4	7	5	5	11	5	
Delaware Creek - West Fork Trinity River	MOC-A	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A
		8/9/2016	2	4	6	7	6	14
Farmer's Branch - Elm Fork Trinity River	FARM-1	4/6/2016	7	5	4	4	13	14
		8/10/2016	8	7	4	4	19	9
	FIV-A	6/9/2016	2	2	3	3	10	5
		9/7/2016	2	2	2	2	10	5
	FIV-B	6/9/2016	4	4	5	5	10	10
		9/17/2016	4	4	6	6	10	10
	NEW-A	4/25/2016	N/A	N/A	N/A	N/A	N/A	N/A
		8/9/2016	5	6	3	3	10	15
	SEDA-1	4/5/2016	5	7	7	7	15	12
7/22/2016		4	5	7	7	9	13	
Floyd Branch - White Rock Creek	FLO-A	4/6/2016	4	7	5	5	19	14
		8/11/2016	2	7	4	4	14	9
	MCK-C	6/10/2016	4	5	2	2	10	5
		9/8/2016	4	5	2	2	9	5

Table E-3c (continued)		Rapid Bio-assessment Protocol – Habitat Assessment Data 1						
HUC Watershed	Sample ID	Collection Date	Right Bank Stability	Right Bank Vegetative Protection	Riparian Vegetative Zone Width-Left	Riparian Vegetative Zone Width-Right	Sediment Deposition	Velocity / Depth Regime
Headwaters Five Mile Creek	FIV-D	4/6/2016	6	7	7	7	8	13
		8/11/2016	6	4	7	7	5	3
Headwaters Ten Mile Creek	TEN-B	4/25/2016	9	9	8	8	18	15
		8/9/2016	2	7	9	9	5	5
	TEN-D	4/6/2016	8	5	5	5	19	15
		8/11/2016	7	6	5	5	10	5
Headwaters Turtle Creek	CEB-B	6/10/2016	4	4	5	5	10	10
		9/8/2016	4	4	6	6	10	10
	KNI-A	6/10/2016	6	5	4	4	14	10
		9/8/2016	8	2	3	3	9	5
	TRO-A	3/16/2016	0	5	3	3	15	10
		7/13/2016	3	5	3	3	15	6
	TUR-A	3/29/2016	8	5	3	3	13	6
		7/14/2016	7	6	5	5	14	8
Prairie Creek - Trinity River	PRA-A	4/25/2016	5	8	9	9	10	16
		8/9/2016	6	6	6	6	10	8
South Mesquite Creek	SMC-A	6/9/2016	4	4	5	5	11	11
		9/7/2016	4	4	5	5	10	11
	SMC-B	3/16/2016	7	5	3	2	18	6
		7/13/2016	5	2	3	4	15	3
	SMC-C	3/29/2016	4	4	5	6	12	7
7/14/2016	3	6	3	3	5	10		
Turtle Creek - Trinity River	CEDR-1	4/5/2016	4	6	8	8	14	13
		7/22/2016	4	3	8	8	11	8
	COO-A	3/16/2016	7	2	1	1	5	14
		7/13/2016	7	8	4	4	15	9
White Rock Creek - White Rock Lake	DIX-A	6/10/2016	10	8	10	10	15	10
		9/8/2016	9	7	9	9	15	10

Table E-4 Aquatic Life Use Rating Data					
HUC Watershed	Sample ID	Spring 2016		Summer 2016	
Bachman Branch - Elm Fork Trinity River	JOES-1	22	Intermediate	23	Intermediate
	BAB-B	25	Intermediate	20	Limited
	NWDA-1	23	Intermediate	21	Limited
	RIB-A	22	Intermediate	25	Intermediate
Delaware Creek - West Fork Trinity River	MOC-A	-	Site Flooded	20	Limited
Farmer's Branch - Elm Fork Trinity River	FARM-1	28	Intermediate	27	Intermediate
	FIV-A	-	Site Flooded	-	Site Flooded
	FIV-B	-	Site Flooded	-	Site Flooded
	NEW-A	-	Site Flooded	26	Intermediate
	SEDA-1	20	Limited	17	Limited
	FLO-A	20	Limited	25	Intermediate
	MCK-C	24	Intermediate	23	Intermediate
Headwaters Five Mile Creek	FIV-D	25	Intermediate	23	Intermediate
Headwaters Ten Mile Creek	TEN-B	-	Site Flooded	27	Intermediate
	TEN-D	30	High	27	Intermediate
Headwaters Turtle Creek	CEB-B	25	Intermediate	23	Intermediate
	KNI-A	24	Intermediate	19	Limited
	TRO-A	24	Intermediate	28	Intermediate
	TUR-A	20	Limited	27	Intermediate
Prairie Creek - Trinity River	PRA-A	25	Intermediate	25	Intermediate
South Mesquite Creek	SMC-A	-	Site Flooded	-	Site Flooded
	SMC-B	24	Intermediate	28	Intermediate
	SMC-C	26	Intermediate	25	Intermediate
Turtle Creek - Trinity River	CEDR-1	21	Limited	24	Intermediate
	COO-A	24	Intermediate	23	Intermediate
White Rock Creek-White Rock Lake	DIX-A	24	Intermediate	19	Limited

Table E-5a

Water Quality Data 1

HUC Watershed	Sample ID	Collection Date	Temperature (°C)	pH	Turbidity (NTU)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Ammonia (as N) (mg/L)	Nitrate + Nitrite (as N) (mg/L)	Total Phosphorus (as P) (mg/L)	Chemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)
Bachman Branch - Elm Fork Trinity River	ELMT-1	6/8/2016	29.4	7.61	18	1392	6.03	0.10	0.88	<0.005	2.9	25
		6/8/2016	29.4	7.61	18	1377	6.07	0.12	0.88	<0.005	<1.0	25
		8/11/2016	29.8	7.65	4	1638	3.01	0.27	<0.03	0.19	47.1	6
	JOES-1	4/6/2016	19.3	7.58	27	712	4.40	0.31	0.95	0.14	19.6	22
		8/10/2016	33.1	7.7	32	747	5.5	<0.05	0.88	0.16	14.7	29
	BAB-B	6/10/2016	27.5	8.11	10	781	9.25	<0.05	1.32	0.03	7.90	12
		9/8/2016	28.3	7.72	10	560	7.05	<0.05	0.93	0.10	8.40	8
	LBAC-1	5/6/2016	22.7	7.9	17	389	7.51	0.08	0.82	<0.005	16	11
		8/10/2016	29.9	7.42	10	598	2.68	<0.05	<0.03	0.03	5.40	11
	CAC-A	4/26/2016	23.7	7.41	56	1440	4.7	2.90	0.89	0.19	197	66
		8/10/2016	29.8	7.81	37	892	5.02	0.25	0.82	0.14	54.3	31
	DAN-A	4/26/2016	23.9	7.01	7	648	1.4	1.66	<0.03	0.44	81	0
		4/26/2016	-	-	-	-	-	3.35	<0.03	0.46	53	-
		8/10/2016	28.0	7.85	20	729	2.72	0.37	0.84	0.44	62.8	14
	NWD-5	4/26/2016	24.7	7.74	31	332	8.4	0.23	1.47	0.33	79	30
		8/10/2016	28.1	8.14	21	269	7.54	<0.05	0.97	0.34	6.40	8
	NWDA-1	4/6/2016	20.3	7.59	16	549	7.08	0.28	0.96	0.14	26.8	15
		8/10/2016	31.4	8.68	11	442	10.70	<0.05	1.15	0.21	6.50	0
	RIB-A	3/29/2016	18.9	7.57	0	1077	8.5	<0.05	0.79	0.10	185	3
		7/14/2016	30.3	7.43	35	1023	4.4	0.17	0.80	0.10	18	29
BAB-C	5/6/2016	17.9	7.87	6	764	8.01	<0.05	1.21	<0.005	8	0	
	5/6/2016	17.9	7.88	7	763	7.97	<0.05	1.21	<0.005	15	0	
	8/10/2016	31.5	7.49	3	516	4.0	<0.05	0.85	0.11	10.1	0	
	8/10/2016	33	7.50	7	517	3.6	<0.05	0.85	0.12	8.90	6	
City of Dallas - White Rock Creek	ASH-A	4/6/2016	18.5	8.1	11	697	8.0	-	1.12	0.10	19.3	6
		9/6/2016	28.2	7.74	13	255	5.1	<0.05	0.79	0.06	8.30	8
		9/6/2016	28.3	7.76	9	253	5.0	<0.05	0.78	0.05	9.00	8
WHC-A	4/6/2016	19.2	7.77	29	475	7.9	-	0.86	0.13	25	32	
	9/6/2016	29.8	7.92	36	291	6.0	<0.05	0.85	0.08	9.10	36	

Table E-5a Water Quality Data 1												
HUC Watershed	Sample ID	Collection Date	Temperature (°C)	pH	Turbidity (NTU)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Ammonia (as N) (mg/L)	Nitrate + Nitrite (as N) (mg/L)	Total Phosphorus (as P) (mg/L)	Chemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)
Delaware Creek - West Fork Trinity River	DELA-1	4/26/2016	23.5	7.66	57	625	6.04	0.11	1.14	0.10	59.0	55
		8/12/2016	30.0	7.66	49	1022	3.0	0.20	0.79	0.20	< 1.00	26
	LMOC-1	4/26/2016	22.6	7.92	39	384	8.26	0.06	< 0.03	0.17	31.0	34
		8/12/2016	30.0	7.80	56	844	5.2	0.20	0.86	0.14	9.80	54
		8/12/2016	29.8	7.81	63	849	5.1	0.22	0.86	0.17	10.2	59
	MOC-A	4/25/2016	24.1	8.20	7	381	9.42	< 0.05	< 0.03	0.46	59.2	21
8/9/2016		29.7	8.16	71	408	5.7	0.06	0.08	0.14	11.5	78	
Duck Creek	LON-B	5/6/2016	19.3	7.47	15	483	7.5	<0.05	1.00	<0.005	5.0	20
		5/6/2016	19.4	7.61	19	497	7.6	<0.05	1.00	<0.005	8.0	22
		9/6/2016	26.5	8.06	3	438	6.6	<0.05	0.81	0.03	9.60	1
Farmer's Branch - Elm Fork Trinity River	EFCB-1	4/25/2016	24.3	8.83	42	305	8.48	< 0.05	< 0.03	0.10	50.6	41
		8/9/2016	30.4	7.63	78	342	3.49	0.39	0.80	0.22	35.1	81
	FARM-1	4/6/2016	21.2	8.12	40	506	8.31	0.19	0.79	0.10	24.9	32
		8/10/2016	30.6	7.87	42	387	5.1	<0.05	0.78	0.10	3.00	53
		8/10/2016	30.7	7.91	43	388	5.0	0.05	0.78	0.09	3.50	63
Fish Creek - Mountain Creek Lake	ART-A	6/9/2016	24.1	7.98	68	484	7.5	0.34	1.13	< 0.005	< 1.00	71
		9/13/2016	27.4	8.02	13	436	5.0	0.12	0.79	0.05	5.00	14
	MOC-B	6/10/2016	26.2	8.19	23	404	8.1	0.08	1.01	0.04	8.10	11
		9/13/2016	29.6	8.52	34	351	7.6	< 0.05	< 0.03	0.05	4.80	57
Five Mile Creek - Trinity River	ELA-A	4/15/2016	20.9	7.53	8	684	8.34	-	1.14	0.08	245	10
		8/26/2016	25.4	7.68	0	502	6.57	<0.05	1.24	0.10	5.90	15
		8/26/2016	25.8	7.66	0	503	6.37	<0.05	1.24	0.11	6.40	17
	ELA-B	4/15/2016	20.2	7.72	19	543	7.18	-	0.82	0.09	303	15
		8/26/2016	27.4	7.81	3	447	7.06	<0.05	0.81	0.05	16.8	4
	FIV-A	6/9/2016	25.6	7.85	5	555	7.37	< 0.05	1.87	< 0.005	9.40	0
		6/9/2016	25.6	7.87	12	555	7.40	<0.05	1.38	<0.005	9.20	8
		9/7/2016	27.3	7.82	11	363	7.40	< 0.05	0.80	0.02	11.4	12
	FIV-B	6/9/2016	26.5	7.82	10	559	8.94	< 0.05	1.69	< 0.005	321	11
		9/7/2016	27.9	7.78	9	388	6.33	< 0.05	< 0.03	0.03	11.9	7
	NEW-A	4/25/2016	21.2	7.69	26	710	8.42	< 0.05	1.70	0.07	< 1.00	14
		8/9/2016	29.8	8.05	16	337	7.6	<0.05	1.03	0.09	1.6	17

Table E-5a Water Quality Data 1												
HUC Watershed	Sample ID	Collection Date	Temperature (°C)	pH	Turbidity (NTU)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Ammonia (as N) (mg/L)	Nitrate + Nitrite (as N) (mg/L)	Total Phosphorus (as P) (mg/L)	Chemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)
Five Mile Creek - Trinity River	SDAL-1	4/8/2016	16.7	7.57	16	740	7.9	-	2.58	0.07	25	16
		4/8/2016	16.7	7.34	18	743	8.1	-	2.58	0.08	<1.00	12
		9/6/2016	25.8	7.93	5	653	6.6	<0.05	2.35	0.03	6.30	10
	SEDA-1	4/5/2016	18.5	8.56	17	558	8.4	0.07	1.09	0.20	26.9	16
		7/22/2016	25.4	7.37	0	627	7.0	<0.05	1.12	0.12	13.0	0
Floyd Branch - White Rock Creek	COT-C	6/9/2016	25.4	7.91	13	729	7.5	<0.05	1.81	<0.005	<1.00	4
		8/5/2016	29	7.87	0	530	6.54	<0.05	1.18	0.02	279	0
	FLO-A	4/6/2016	17.9	7.82	7	776	8.5	0.08	7.32	1.48	71.4	5
		8/11/2016	27.9	8.16	9	656	7.5	<0.05	12.1	2.77	7.60	6
	MCK-C	6/10/2016	25.5	8.00	5	590	8.21	<0.05	1.95	0.03	2.10	0
		9/8/2016	25.9	7.93	4	481	7.47	<0.05	0.79	0.09	6.60	3
	WHC-C	5/6/2016	20.8	7.69	33	588	5.64	0.08	2.06	0.07	30	45
		8/10/2016	30	7.72	27	523	6.4	<0.05	4.19	1.06	11.7	20
Grapevine Creek - Elm Fork Trinity River	HUTT-1	4/25/2016	25.8	8.08	32	514	8.09	<0.05	1.04	0.04	6.10	40
		4/25/2016	-	-	-	-	-	<0.05	1.04	0.07	68.9	-
		8/9/2016	26.5	7.40	46	717	6.22	0.23	0.79	0.10	14.3	46
Headwaters Five Mile Creek	CRO-A	6/9/2016	23.9	8.04	11	634	8.0	<0.05	1.43	<0.005	1.60	13
		9/13/2016	26.1	8.22	7	413	6.9	<0.05	0.82	0.05	3.10	5
	FIV-C	5/6/2016	21.7	8.92	20	596	9.8	<0.05	1.58	<0.005	1.00	19
		9/6/2016	28.5	7.92	1	424	7.5	<0.05	0.82	0.02	5.00	4
	FIV-D	4/6/2016	18.2	7.84	2	554	8.8	0.18	1.39	0.10	15.1	2
		8/11/2016	31.2	7.88	0	568	5.4	<0.05	0.80	0.10	4.60	4
	FIV-E	6/9/2016	23.6	8.04	7	749	8.5	<0.05	1.28	<0.005	4.40	13
		9/13/2016	28.5	8.44	10	542	9.7	<0.05	0.81	0.06	7.10	16
	RIC-B	6/9/2016	25.7	8.21	13	604	8.8	<0.05	1.58	<0.005	<1.00	13
		9/13/2016	23.6	8.29	22	437	8.3	<0.05	0.95	0.05	1.30	14
WOO-A	6/9/2016	26.0	7.92	13	620	8.8	<0.05	1.53	<0.005	11.7	4	
	9/13/2016	25.8	7.69	7	452	7.7	<0.05	1.05	0.04	6.00	4	

Table E-5a Water Quality Data 1

HUC Watershed	Sample ID	Collection Date	Temperature (°C)	pH	Turbidity (NTU)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Ammonia (as N) (mg/L)	Nitrate + Nitrite (as N) (mg/L)	Total Phosphorus (as P) (mg/L)	Chemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)
Headwaters Ten Mile Creek	TEN-B	4/25/2016	20.9	7.76	13	671	8.64	< 0.05	1.79	0.03	107	30
		4/25/2016	20.6	7.75	15	674	8.70	< 0.05	1.79	0.06	84.7	28
		8/9/2016	30.2	8.02	3	385	6.7	<0.05	<0.03	0.10	5.60	2
	TEN-D	4/6/2016	20.1	8.02	4	548	11.2	0.05	1.22	0.08	19.3	0
		8/11/2016	33.7	8.15	3	518	10.5	0.05	1.10	0.14	8.30	0
Headwaters Turtle Creek	DAEB-1	4/26/2016	25.8	7.69	28	728	6.80	0.24	1.02	0.13	121	37
		8/4/2016	29.2	7.53	40	376	4.4	0.13	0.92	0.28	412	38
	DAEB-2	6/8/2016	26.2	7.57	30	896	5.76	0.14	1.82	<0.005	19.7	38
		8/11/2016	28.9	7.59	26	762	3.12	0.12	1.15	0.17	8.70	17
	CBD-2	6/8/2016	23.1	7.8	17	832	7.12	0.13	1.84	<0.005	4.9	19
		8/11/2016	27.2	7.85	2	674	6.18	0.34	1.93	0.26	8.90	3
	CEB-B	6/10/2016	25	7.67	14	824	6.9	0.06	2.51	0.06	6.20	3
		9/8/2016	28	7.66	4	899	6.86	< 0.05	2.14	0.14	10.7	0
	KNI-A	6/10/2016	25.2	8.12	20	769	7.7	< 0.05	1.65	0.07	8.40	4
		9/8/2016	28.3	8.06	8	887	7.76	< 0.05	1.32	0.14	10.1	11
	TRO-A	3/16/2016	15.5	8.06	2	632	9.5	<0.05	0.98	0.13	112	0
		7/13/2016	32.3	7.89	21	553	10.4	0.10	0.83	0.18	19.1	21
		7/13/2016	31.6	8.35	12	698	10.1	0.05	0.99	0.11	10.2	15
	TRO-C	5/6/2016	22.9	8.16	0	547	9.67	<0.05	1.56	<0.005	18.0	0
		8/10/2016	29.3	7.75	5	687	4.69	<0.05	0.97	0.05	8.50	0
	TUR-A	3/29/2016	21.2	7.52	0	802	6.4	<0.05	1.57	0.12	254	7
		7/14/2016	31.7	7.5	21	659	6.5	0.14	1.94	0.07	6.70	23
	TUR-C	6/8/2016	26.0	7.78	25	437	7.03	0.08	1.39	0.04	<1.00	23
		8/11/2016	29.7	7.84	15	509	6.16	0.15	0.81	0.10	10.6	32
		6/9/2016	27.8	8.05	18	577	7.7	0.07	1.45	<0.005	2.5	20
Headwaters White Rock Creek	UWRC-1	8/5/2016	30.7	8.42	3	282	9.49	<0.05	0.83	0.04	181	0
		4/15/2016	22.1	7.58	11	681	7.39	-	0.80	0.09	154	14
Hickory Creek - Parsons Slough	HIC-D	8/26/2016	28.6	7.32	12	510	7.48	0.09	0.8	0.10	15.6	8
		5/6/2016	23.9	7.95	78	404	7.6	0.46	0.79	0.12	23.0	85
	PAR-A	8/26/2016	29.1	7.87	0	505	7.18	0.11	0.80	0.17	18.4	8
		8/26/2016	29.1	7.87	0	505	7.18	0.11	0.80	0.17	18.4	8

Table E-5a (continued)

Water Quality Data 1

HUC Watershed	Sample ID	Collection Date	Temperature (°C)	pH	Turbidity (NTU)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Ammonia (as N) (mg/L)	Nitrate + Nitrite (as N) (mg/L)	Total Phosphorus (as P) (mg/L)	Chemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)
Indian Creek - Elm Fork Trinity River	FUR-A	4/25/2016	22.0	7.94	20	582	7.51	<0.05	1.02	0.05	166	47
		8/9/2016	27.9	7.60	11	816	3.79	<0.05	0.87	0.10	5.90	10
		8/9/2016	27.9	7.60	11	816	3.77	<0.05	0.96	0.12	6.60	10
Pitman Creek - Spring Creek	SPC-A	6/9/2016	26.8	7.79	17	669	7.1	<0.05	2.07	<0.005	1.00	13
		8/5/2016	31.4	8.02	1	397	6.87	<0.05	0.94	0.02	265	0
Prairie Creek - Trinity River	ATEN-1	4/15/2016	21.6	7.69	20	594	7.73	-	<0.03	0.14	303	18
		8/26/2016	DRY									
	PRA-A	4/25/2016	21.7	7.42	22	624	7.39	0.06	0.89	0.11	240	16
		8/9/2016	28.3	7.95	19	617	6.59	<0.05	<0.03	0.13	7.20	18
	PRAI-2	5/6/2016	21.1	7.91	17	475	8.3	<0.05	0.89	<0.005	9.0	16
		9/6/2016	27.7	7.92	3	436	6.6	<0.05	0.79	0.03	9.50	6
South Mesquite Creek	SMC-A	6/9/2016	25.3	7.65	14	504	6.07	0.11	0.96	<0.005	<1.00	17
		9/7/2016	26.7	7.68	5	415	7.08	0.06	<0.03	0.03	9.40	9
	SMC-B	3/16/2016	22.7	8.9	3	567	7.99	<0.05	<0.03	0.07	82.3	4
		7/13/2016	27	7.55	16	365	4.7	0.10	0.84	0.11	10.7	17
	SMC-C	3/29/2016	16.6	8.21	0	403	8.8	<0.05	0.82	0.10	178.0	4
		7/14/2016	27.2	7.72	15	335	6.5	0.20	0.87	0.11	12.4	22
White Rock Creek - White Rock Lake	DIX-A	6/10/2016	24.7	7.64	5	638	7.09	<0.05	1.3	0.02	3.20	7
		9/8/2016	27.4	7.50	10	438	4.66	<0.05	0.81	0.07	10.8	8
	JAC-A	5/6/2016	22.2	7.76	22	600	8.84	<0.05	1.92	<0.0005	17.0	15
		8/10/2016	28.9	7.33	25	522	4.7	<0.05	1.02	0.08	2.10	27
	MCC-A	5/6/2016	22.5	7.66	21	361	7.11	<0.05	1.38	0.18	6.0	37
		5/6/2016	22.2	7.64	14	363	7.97	<0.05	1.39	0.10	7.0	11
		8/5/2016	32.3	7.58	17	319	3.6	<0.05	0.78	0.04	17.0	0
	WIL-A	5/6/2016	23	7.45	40	472	4.27	0.08	1.06	0.03	9.0	47
8/5/2016		31.8	7.56	21	294	3.5	0.05	<0.03	0.07	91.2	96	

Table E-5a (continued)

Water Quality Data 1

HUC Watershed	Sample ID	Collection Date	Temperature (°C)	pH	Turbidity (NTU)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Ammonia (as N) (mg/L)	Nitrate + Nitrite (as N) (mg/L)	Total Phosphorus (as P) (mg/L)	Chemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)
Turtle Creek- Trinity River	CEC-B	6/10/2016	26.1	8.34	2	716	11.4	< 0.05	2.28	0.06	5.30	8
		8/12/2016	32.5	8.7	19	456	13.5	< 0.05	0.80	0.11	< 1.00	15
	CEDR-1	4/5/2016	19.0	10.35	16	439	6.5	0.10	1.59	0.21	11.4	16
		4/5/2016	19.0	10.14	19	449	6.6	0.07	1.60	0.21	30.9	16
		7/22/2016	27.4	7.33	16	543	4.8	<0.05	1.23	0.08	1.40	8
		7/22/2016	27.7	7.56	18	542	4.8	<0.05	1.23	0.08	1.10	8
	COO-A	3/16/2016	21.0	8.08	5	681	9.5	<0.05	3.99	0.07	224	3
		7/13/2016	29	7.88	28	421	7.1	<0.05	1.39	0.19	5.20	24
	DAWB-3	6/10/2016	29.7	7.86	68	209.7	6.69	0.30	< 0.03	0.13	17.7	45
		8/4/2016	30.6	7.89	78	661	7.6	0.05	1.22	0.24	334	93
	FIL-A	4/26/2016	24.5	7.80	29	570	8.48	0.09	0.80	0.12	59.0	45
		8/4/2016	29.8	7.43	58	813	2.1	0.16	0.79	0.28	295	61
	LAC-A	6/10/2016	29.9	8.34	22	184.2	12.99	< 0.05	0.92	0.05	16.1	20
		8/4/2016	30.1	7.82	54	229	5.9	0.32	1.16	0.23	208	45
	LAC-B	6/10/2016	30.1	8.88	15	213.3	13.6	0.07	1.03	0.08	19.0	17
		8/12/2016	32.4	8.82	44	286	11.2	0.33	1.29	0.30	42.3	40
	WDAL-1	4/26/2016	23.7	8.19	39	490	11.11	0.06	0.83	0.11	34.0	37
		8/12/2016	DRY									
	WDAL-2	4/26/2016	22.2	7.08	15	1099	11.26	< 0.05	13.2	0.16	107	16
		8/12/2016	23.2	7.10	22	1160	5.9	0.07	15.6	0.09	< 1.00	26

Table E-5b

Water Quality Data 2

HUC Watershed	Sample ID	Collection Date	<i>E. coli</i>	Total Coliform	Surfactants (mg/L)	Copper (mg/L)	Iron (mg/L)	Hardness (mg/L)	Flow
			(colonies / 100ml)	(colonies / 100ml)					(cu ft / sec)
Bachman Branch - Elm Fork Trinity River	ELMT-1	6/8/2016	195.6	>2419.6	< 0.100	0.136	0.663	598.7	No Flow
		6/8/2016	172.0	>2419.6	< 0.100	0.116	0.568	600.2	
		8/11/2016	570.0	6000	< 0.100	0.092	0.430	305.4	
	JOES-1	4/6/2016	1000	60000	< 0.100	0.092	0.688	323.5	Too Deep
		8/10/2016	320.0	4000	< 0.100	0.104	1.414	343.7	No Flow
	BAB-B	6/10/2016	214.3	>2419.6	< 0.100	<0.0004	0.107	346.0	36.713
		9/8/2016	50.00	4200	< 0.100	0.112	0.300	281.8	47.975
	LBAC-1	5/6/2016	235.9	>2419.6	< 0.100	0.004	0.481	180	No Flow
		8/10/2016	220.0	3300	< 0.100	0.002	0.182	264.7	Inaccessible
	CAC-A	4/26/2016	148.3	>2419.6	<0.100	0.110	1.668	406	No Flow
		8/10/2016	760.0	5900	<0.100	0.004	0.806	156.8	No Flow
	DAN-A	4/26/2016	410.6	>2419.6	<0.100	0.106	1.132	259.2	No Flow
		4/26/2016	387.3	>2419.6	<0.100	0.117	1.176	268.8	
		8/10/2016	690.0	6800	<0.100	0.003	0.981	300.8	
	NWD-5	4/26/2016	920.8	1990	<0.100	0.108	0.582	125.0	2.125
		8/10/2016	710.0	6600	<0.100	0.002	0.359	132.0	1.209
	NWDA-1	4/6/2016	1000	50000	<0.100	0.095	0.505	221.3	176.059
		8/10/2016	250.0	3200	<0.100	0.088	0.380	186.4	12.387
	RIB-A	3/29/2016	200.0	5200	<0.100	0.065	0.595	351.4	0.838
		7/14/2016	160.0	>2400	<0.100	0.0006	0.451	282.0	No Flow
BAB-C	5/6/2016	38.90	>2419.6	<0.100	0.006	0.027	363.7	No Flow	
	5/6/2016	648.8	>2419.6	<0.100	0.007	0.028	376.2		
	8/10/2016	230.0	2400	<0.100	0.096	0.317	250.1		
	8/10/2016	220.0	2300	<0.100	0.108	0.261	255.8		
ASH-A	4/6/2016	600.0	3000	<0.100	0.092	0.274	369.3	8.326	
	9/6/2016	80.00	2000	<0.100	0.002	0.135	127.7		
	9/6/2016	90.00	2000	<0.100	0.003	0.130	125.3		
WHC-A	4/6/2016	500.0	40000	<0.100	0.092	0.609	242	167.723	
	9/6/2016	80.00	1800	<0.100	0.004	0.619	138.1	Too Deep	

Table E-5b (continued)

Water Quality Data 2

HUC Watershed	Sample ID	Collection Date	E. coli	Total Coliform	Surfactants (mg/L)	Copper (mg/L)	Iron (mg/L)	Hardness (mg/L)	Flow
			(colonies / 100ml)	(colonies / 100ml)					(cu ft / sec)
Delaware Creek - West Fork Trinity River	DELA-1	4/26/2016	2420	> 2419.6	< 0.100	0.110	1.368	288.6	Too Deep
		8/12/2016	60.00	410.0	< 0.100	0.078	1.009	383.6	Inaccessible
	LMOC-1	4/26/2016	38.80	> 2419.6	< 0.100	0.113	0.620	166.6	Inaccessible
		8/12/2016	210.0	2000	< 0.100	0.067	1.356	291.9	Inaccessible
		8/12/2016	200.0	2100	< 0.100	0.109	1.442	310.4	
	MOC-A	4/25/2016	69.70	> 2419.6	< 0.100	0.066	0.349	161.0	Too Deep
		8/9/2016	1600	20000	< 0.100	0.212	1.938	201.1	21.672
Duck Creek	LON-B	5/6/2016	387.3	>2419.6	< 0.100	0.006	0.058	244.0	19.021
		5/6/2016	547.5	>2419.6	< 0.100	0.005	0.144	247.6	
		9/6/2016	100.0	6800	< 0.100	0.005	0.055	169.8	1.846
Farmer's Branch - Elm Fork Trinity River	EFCB-1	4/25/2016	2.000	70.00	< 0.100	0.064	0.842	149.7	Too Deep
		8/9/2016	490.0	12000	< 0.100	0.201	1.951	189.0	Too Deep
	FARM-1	4/6/2016	200.0	25000	< 0.100	0.091	0.623	222.0	106.080
		8/10/2016	1900	28000	< 0.100	0.096	0.942	166.6	
		8/10/2016	1800	27000	< 0.100	0.085	0.956	167.2	No Flow
Fish Creek - Mountain Creek Lake	ART-A	6/9/2016	4.100	866.0	< 0.100	< 0.0004	0.906	217.1	Too Deep
		9/13/2016	40.00	6400	< 0.100	0.002	0.724	219.9	Too Deep
	MOC-B	6/10/2016	16.00	> 2419.6	< 0.100	0.004	0.647	154.7	Too Deep
		9/13/2016	80.00	2200	< 0.100	0.003	0.883	149.2	Too Deep
Five Mile Creek - Trinity River	ELA-A	4/15/2016	600.0	8000	< 0.100	0.111	0.606	372.0	18.466
		8/26/2016	700.0	5200	< 0.100	0.005	0.226	244.7	
		8/26/2016	600.0	5100	< 0.100	0.006	0.219	252.7	8.069
	ELA-B	4/15/2016	500.0	3000	< 0.100	0.103	0.516	304.5	9.889
		8/26/2016	300.0	3900	< 0.100	0.004	0.078	225.3	No Flow
	FIV-A	6/9/2016	> 2419.6	> 2419.6	< 0.100	0.001	0.063	313.1	Too Deep
		6/9/2016	> 2419.6	> 2419.6	< 0.100	< 0.0004	0.050	317.8	
		9/7/2016	220.0	6200	< 0.100	0.003	0.111	177.8	Too Deep
	FIV-B	6/9/2016	> 2419.6	> 2419.6	< 0.100	< 0.0004	0.059	325.7	Too Deep
		9/7/2016	210.0	8800	< 0.100	0.003	0.056	200.9	38.707
	NEW-A	4/25/2016	344.8	> 2419.6	< 0.100	0.069	0.244	387.0	Too Deep
8/9/2016		120.0	2000	< 0.100	0.172	0.282	201.4	2.251	

Table E-5b (continued)

Water Quality Data 2

HUC Watershed	Sample ID	Collection Date	E. coli	Total Coliform	Surfactants (mg/L)	Copper (mg/L)	Iron (mg/L)	Hardness (mg/L)	Flow
			(colonies / 100ml)	(colonies / 100ml)					(cu ft / sec)
Five Mile Creek - Trinity River	SDAL-1	4/8/2016	800.0	2000	< 0.100	0.074	0.324	411.4	0.708
		4/8/2016	900.0	2500	< 0.100	0.052	0.190	410.4	
		9/6/2016	210.0	2100	< 0.100	0.002	0.244	334.1	
	SEDA-1	4/5/2016	150.0	1000	< 0.100	0.154	0.473	312.3	5.078
		7/22/2016	76.00	>2400	< 0.100	0.005	0.196	286.5	1.921
Floyd Branch - White Rock Creek	COT-C	6/9/2016	1986	>2419.6	< 0.100	<0.0004	0.076	353.7	11.815
		8/5/2016	600.0	12000	< 0.100	0.125	0.247	264.7	19.848
	FLO-A	4/6/2016	400.0	5000	< 0.100	0.107	0.315	323.3	5.878
		8/11/2016	460.0	4500	< 0.100	0.151	0.417	236.8	5.957
	MCK-C	6/10/2016	866.4	>2419.6	< 0.100	<0.0004	0.071	313.3	3.637
		9/8/2016	120.0	3000	< 0.100	0.112	0.229	240.8	11.067
	WHC-C	5/6/2016	>2419.6	>2419.6	< 0.100	0.008	0.054	298.9	Too Deep
		8/10/2016	4900	5300	< 0.100	0.125	1.174	304.1	Too Deep
Grapevine Creek - Elm Fork Trinity River	HUTT-1	4/25/2016	50.00	4500	< 0.100	0.068	0.452	241.8	3.930
		4/25/2016	70.00	5000	< 0.100	0.100	0.843	235	
		8/9/2016	630.0	7000	< 0.100	0.181	1.788	353.5	
Headwaters Five Mile Creek	CRO-A	6/9/2016	488.4	> 2419.6	< 0.100	0.002	0.113	331.1	7.760
		9/13/2016	1200	5900	< 0.100	0.015	0.065	227.7	Inaccessible
	FIV-C	5/6/2016	218.7	>2419.6	< 0.100	0.005	0.046	362.1	472.861
		9/6/2016	190.0	1600	< 0.100	0.002	0.084	213.7	5.451
	FIV-D	4/6/2016	300.0	2000	< 0.100	0.096	0.232	328.4	4.265
		8/11/2016	190.0	1800	< 0.100	0.139	0.401	242.9	No Flow
	FIV-E	6/9/2016	344.8	> 2419.6	< 0.100	0.004	0.072	363.6	6.637
		9/13/2016	360.0	4200	< 0.100	0.004	0.158	221.9	1.325
	RIC-B	6/9/2016	365.4	> 2419.6	< 0.100	< 0.0004	0.040	308.3	26.841
		9/13/2016	760.0	3800	< 0.100	< 0.002	0.119	239.0	7.304
	WOO-A	6/9/2016	1414	> 2419.6	< 0.100	< 0.0004	0.035	314.1	12.186
9/13/2016		170.0	6600	< 0.100	0.003	0.228	242.6	17.397	

Table E-5b (continued)

Water Quality Data 2

HUC Watershed	Sample ID	Collection Date	<i>E. coli</i>	Total Coliform	Surfactants (mg/L)	Copper (mg/L)	Iron (mg/L)	Hardness (mg/L)	Flow
			(colonies / 100ml)	(colonies / 100ml)					(cu ft / sec)
Headwaters Ten Mile Creek	TEN-B	4/25/2016	248.1	> 2419.6	< 0.100	0.087	0.192	348.3	Too Deep
		4/25/2016	298.7	> 2419.6	< 0.100	0.109	0.329	372.1	
		8/9/2016	140.0	2300	< 0.100	0.212	0.358	230.4	
	TEN-D	4/6/2016	200.0	5000	< 0.100	0.088	0.239	316.3	82.167
		8/11/2016	1200	8000	< 0.100	0.159	0.299	280.8	4.752
Headwaters Turtle Creek	DAEB-1	4/26/2016	146.7	> 2419.6	< 0.100	0.115	0.735	287.7	Too Deep
		8/4/2016	2000	8000	< 0.100	0.135	1.506	152.9	Too Deep
	DAEB-2	6/8/2016	365.4	>2419.6	< 0.100	0.158	0.594	460.2	5.897
		8/11/2016	920.0	15000	< 0.100	0.098	1.198	369.9	13.731
	CBD-2	6/8/2016	>2419.6	>2419.6	< 0.100	0.132	0.531	319.0	Too Deep
		8/11/2016	270.0	3500	< 0.100	0.023	0.305	291.7	Inaccessible
	CEB-B	6/10/2016	980.4	> 2419.6	< 0.100	<0.0004	0.078	355.3	Too Deep
		9/8/2016	1500	3100	< 0.100	0.118	0.300	362.3	3.301
	KNI-A	6/10/2016	248.1	> 2419.6	< 0.100	0.004	0.164	315.9	101.713
		9/8/2016	200.0	5100	< 0.100	0.129	0.433	288.8	102.022
	TRO-A	3/16/2016	1000	5000	< 0.100	0.065	0.278	284.8	4.725
		7/13/2016	78.00	2400	< 0.100	0.129	0.513	227.8	
		7/13/2016	248.0	2400	< 0.100	0.154	0.312	276.5	
	TRO-C	5/6/2016	43.50	>2419.6	< 0.100	0.007	0.084	228.5	0.546
		8/10/2016	340.0	5100	< 0.100	0.004	0.045	270.1	0.510
	TUR-A	3/29/2016	150.0	2000	< 0.100	0.081	0.683	438.9	2.319
		7/14/2016	579.0	>2400	< 0.100	0.003	0.266	344.1	6.262
	TUR-C	6/8/2016	461.1	> 2419.6	< 0.100	0.134	0.370	239.7	Too Deep
		8/11/2016	340.0	2200	< 0.100	0.094	0.202	263.2	No Flow
	Headwaters White Rock Creek	UWRC-1	6/9/2016	88.00	>2419.6	< 0.100	0.003	0.118	283.6
8/5/2016			700.0	15000	< 0.100	0.131	0.280	146.9	232.050
Hickory Creek - Parsons Slough	HIC-D	4/15/2016	1000	25000	< 0.100	0.095	0.570	323	13.917
		8/26/2016	600.0	3300	< 0.100	0.005	0.993	220.7	2.944
	PAR-A	5/6/2016	248.1	>2419.6	< 0.100	0.076	0.974	188.1	236.884
		8/26/2016	900.0	5000	< 0.100	0.002	0.390	231.1	1.356

Table E-5b (continued)

Water Quality Data 2

HUC Watershed	Sample ID	Collection Date	<i>E. coli</i>	Total Coliform	Surfactants (mg/L)	Copper (mg/L)	Iron (mg/L)	Hardness (mg/L)	Flow
			(colonies / 100ml)	(colonies / 100ml)					(cu ft / sec)
Indian Creek - Elm Fork Trinity River	FUR-A	4/25/2016	6.000	320	< 0.100	0.063	0.509	258.3	5.762
		8/9/2016	290.0	2000	< 0.100	0.170	0.380	364.2	No Flow
		8/9/2016	210.0	2500	< 0.100	0.253	0.445	378.2	
Pitman Creek - Spring Creek	SPC-A	6/9/2016	104.3	>2419.6	< 0.100	<0.0004	0.078	321.3	Too Deep
		8/5/2016	400.0	8000	< 0.100	0.128	0.314	185.1	Too Deep
Prairie Creek Trinity River	ATEN-1	4/15/2016	8000	30000	< 0.100	0.112	1.559	202.1	15.701
		8/26/2016	DRY						
	PRA-A	4/25/2016	770.7	> 2419.6	< 0.100	0.115	0.508	282.2	7.733
		8/9/2016	110.0	2100	< 0.100	0.219	0.315	241.2	No Flow
	PRAI-2	5/6/2016	160.7	>2419.6	< 0.100	0.004	0.150	210.4	To Deep
		9/6/2016	860.0	1300	< 0.100	0.004	0.091	165.5	Inaccessible
South Mesquite Creek	SMC-A	6/9/2016	110.6	> 2419.6	< 0.100	0.004	0.283	219.8	No Flow
		9/7/2016	20.00	3900	< 0.100	0.002	0.224	135.8	14.053
	SMC-B	3/16/2016	39.00	70	0.130	0.071	0.294	252.4	13.823
		7/13/2016	144.0	2400	< 0.100	0.146	0.364	177.2	5.099
	SMC-C	3/29/2016	190.0	3000	< 0.100	0.063	0.260	161.9	25.402
		7/14/2016	17.00	>2400	< 0.100	0.004	0.139	129.2	1.594
White Rock Creek - White Rock Lake	DIX-A	6/10/2016	387.3	>2419.6	< 0.100	<0.0004	0.038	352.2	6.147
		9/8/2016	140.0	2500	< 0.100	0.111	0.349	264.3	23.802
	JAC-A	5/6/2016	>2419.6	>2419.6	< 0.100	0.007	0.042	349.2	Too Deep
		8/10/2016	340.0	2800	< 0.100	0.122	0.589	359.6	Too Deep
	MCC-A	5/6/2016	22.60	1730	< 0.100	0.004	0.076	189	Too Deep
		5/6/2016	82.60	>2419.6	< 0.100	0.086	0.221	206.3	
		8/5/2016	500.0	18000	< 0.100	0.141	0.454	186.7	
	WIL-A	5/6/2016	866.4	>2419.6	< 0.100	0.066	0.493	284.6	Too Deep
8/5/2016		800.0	30000	< 0.100	0.138	0.846	169.6	Too Deep	

Table E-5b (continued)

Water Quality Data 2

HUC Watershed	Sample ID	Collection Date	<i>E. coli</i>	Total Coliform	Surfactants (mg/L)	Copper (mg/L)	Iron (mg/L)	Hardness (mg/L)	Flow
			(colonies / 100ml)	(colonies / 100ml)					(cu ft / sec)
Turtle Creek - Trinity River	CEC-B	6/10/2016	1414	> 2419.6	< 0.100	< 0.0004	0.031	335.1	29.016
		8/12/2016	470.0	1200	< 0.100	0.094	0.195	226.7	1.998
	CEDR-1	4/5/2016	450.0	2500	< 0.100	0.130	0.522	246.5	7.058
		4/5/2016	300.0	2000	< 0.100	0.120	0.320	243.3	
		7/22/2016	350.0	>2400	< 0.100	0.002	0.352	252.4	4.323
	7/22/2016	690.0	>2400	< 0.100	0.006	0.262	253.1		
	COO-A	3/16/2016	160.0	350	0.110	0.065	0.175	372.4	18.271
		7/13/2016	921.0	2400	< 0.100	0.147	0.392	249	70.267
	DAWB-3	6/10/2016	69.70	> 2419.6	< 0.100	0.002	1.467	101.5	Too Deep
		8/4/2016	900.0	18000	< 0.100	0.131	2.914	349.6	Too Deep
	FIL-A	4/26/2016	193.5	> 2419.6	< 0.100	0.095	0.774	255.8	Too Deep
		8/4/2016	600.0	28000	< 0.100	0.140	3.469	391.5	Too Deep
	LAC-A	6/10/2016	35.00	> 2419.6	< 0.100	< 0.0004	0.184	77.40	Too Deep
		8/4/2016	720.0	2000	< 0.100	0.120	0.813	127.7	16.528
	LAC-B	6/10/2016	43.20	> 2419.6	< 0.100	< 0.0004	0.225	80.20	Inaccessible
		8/12/2016	290.0	3200	< 0.100	0.084	0.486	137.5	Inaccessible
	WDAL-1	4/26/2016	218.7	> 2419.6	< 0.100	0.109	0.704	230.0	Too Deep
		8/12/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	WDAL-2	4/26/2016	2420	> 2419.6	< 0.100	0.098	0.209	499.9	1.559
		8/12/2016	300.0	2400	< 0.100	0.067	0.296	598.8	No Flow

Table E-5c Water Quality Data (Pesticides 1)

HUC Watershed	Sample ID	Collection Date	4,4'-DDD (µg/L)	4,4'-DDE (µg/L)	4,4'-DDT (µg/L)	Aldrin (µg/L)	Alpha BHC (µg/L)	Atrazine (µg/L)	Beta BHC (µg/L)
Bachman Branch - Elm Fork Trinity River	JOES-1	4/6/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.006
		8/10/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	BAB-B	6/10/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		9/8/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	NWDA-1	4/6/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.006
		8/10/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	RIB-A	3/29/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		7/14/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
Delaware Creek - West Fork Trinity River	MOC-A	4/25/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		8/9/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
Farmer's Branch - Elm Fork Trinity River	FARM-1	4/6/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.006
		8/10/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		8/10/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	FIV-A	6/9/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		6/9/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		9/7/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.011	< 0.007
	FIV-B	6/9/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		9/7/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.011	< 0.006
	NEW-A	4/25/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		8/9/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	SEDA-1	4/5/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		7/22/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
Floyd Branch - White Rock Creek	FLO-A	4/6/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		8/11/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	MCK-C	6/10/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		9/8/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
Headwaters Five Mile Creek	FIV-D	4/6/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		8/11/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006

Table E-5c (continued) Water Quality Data (Pesticides 1)

HUC Watershed	Sample ID	Collection Date	4,4'-DDD (µg/L)	4,4'-DDE (µg/L)	4,4'-DDT (µg/L)	Aldrin (µg/L)	Alpha BHC (µg/L)	Atrazine (µg/L)	Beta BHC (µg/L)
Headwaters Ten Mile Creek	TEN-B	4/25/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		4/25/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		8/9/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	TEN-D	4/6/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		8/11/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
Headwaters Turtle Creek	CEB-B	6/10/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		9/8/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	KNI-A	6/10/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		9/8/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	TRO-A	3/16/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		7/13/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		7/13/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	TUR-A	3/29/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		7/14/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	Prairie Creek - Trinity River	PRA-A	4/25/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010
8/9/2016			< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
South Mesquite Creek	SMC-A	6/9/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		9/7/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		7/13/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	SMC-C	3/29/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		7/14/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
Turtle Creek - Trinity River	CEDR-1	4/5/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		4/5/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		7/22/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		7/22/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
	COO-A	3/16/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		7/13/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
White Rock Creek - White Rock Lake	DIX-A	6/10/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.006
		9/8/2016	< 0.003	< 0.004	< 0.004	< 0.004	< 0.004	< 0.011	< 0.007

Table E-5d

Water Quality Data (Pesticides 2)

HUC Watershed	Sample ID	Collection Date	Chlordane (µg/L)	Delta BHC (µg/L)	Dieldrin (µg/L)	Endosulfan I (µg/L)	Endosulfan II (µg/L)	Endosulfan sulfate (µg/L)	Endrin (µg/L)
Bachman Branch - Elm Fork Trinity River	JOES-1	4/6/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/10/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	BAB-B	6/10/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		9/8/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	NWDA-1	4/6/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/10/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	RIB-A	3/29/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		7/14/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
Delaware Creek - West Fork Trinity River	MOC-A	4/25/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/9/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
Farmer's Branch - Elm Fork Trinity River	FARM-1	4/6/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/10/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/10/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	FIV-A	6/9/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		6/9/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		9/7/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.007
	FIV-B	6/9/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		9/7/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	NEW-A	4/25/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/9/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	SEDA-1	4/5/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
7/22/2016		< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006	
Floyd Branch - White Rock Creek	FLO-A	4/6/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/11/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	MCK-C	6/10/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		9/8/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
Headwaters Five Mile Creek	FIV-D	4/6/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/11/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006

Table E-5d (continued) Water Quality Data (Pesticides 2)

Permit-Listed Watershed	Sample ID	Collection Date	Chlordane (µg/L)	Delta BHC (µg/L)	Dieldrin (µg/L)	Endosulfan I (µg/L)	Endosulfan II (µg/L)	Endosulfan sulfate (µg/L)	Endrin (µg/L)
Headwaters Ten Mile Creek	TEN-B	4/25/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		4/25/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/9/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	TEN-D	4/6/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/11/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
Headwaters Turtle Creek	CEB-B	6/10/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		9/8/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	KNI-A	6/10/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		9/8/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	TRO-A	3/16/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		7/13/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		7/13/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	TUR-A	3/29/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		7/14/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
Prairie Creek - Trinity river	PRA-A	4/25/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		8/9/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
South Mesquite Creek	SMC-A	6/9/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		9/7/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		7/13/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	SMC-C	3/29/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		7/14/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
Turtle Creek - Trinity River	CEDR-1	4/5/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		4/5/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		7/22/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		7/22/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
	COO-A	3/16/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		7/13/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
White Rock Creek - White Rock Lake	DIX-A	6/10/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006
		9/8/2016	< 0.003	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.007

Table E-5e Water Quality Data (Pesticides 3)

HUC Watershed	Sample ID	Collection Date	Endrin aldehyde (µg/L)	G-BHC (Lindane) (µg/L)	Heptachlor (µg/L)	Heptachlor epoxide (µg/L)	Simazine (µg/L)	Methoxychlor (µg/L)	Toxaphene (µg/L)
Bachman Branch - Elm Fork Trinity River	JOES-1	4/6/2016	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.004	< 0.052
		8/10/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.053
	BAB-B	6/10/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	<0.051
		9/8/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.031	< 0.004	<0.051
	NWDA-1	4/6/2016	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.004	< 0.052
		8/10/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
	RIB-A	3/29/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		7/14/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
Delaware Creek - West Fork Trinity River	MOC-A	4/25/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		8/9/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.031	< 0.004	< 0.052
Farmer's Branch - Elm Fork Trinity River	FARM-1	4/6/2016	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.004	< 0.052
		8/10/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052
		8/10/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052
	FIV-A	6/9/2016	< 0.006	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		6/9/2016	< 0.006	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		9/7/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.033	< 0.004	< 0.056
	FIV-B	6/9/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		9/7/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.032	< 0.004	< 0.052
	NEW-A	4/25/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		8/9/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
	SEDA-1	4/5/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.031	< 0.004	< 0.051
		7/22/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.031	< 0.004	< 0.051
Floyd Branch - White Rock Creek	FLO-A	4/6/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		8/11/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
	MCK-C	6/10/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		9/8/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
Headwaters Five Mile Creek	FIV-D	4/6/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		8/11/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051

Table E-5e Water Quality Data (Pesticides 3)

HUC Watershed	Sample ID	Collection Date	Endrin aldehyde (µg/L)	G-BHC (Lindane) (µg/L)	Heptachlor (µg/L)	Heptachlor epoxide (µg/L)	Simazine (µg/L)	Methoxychlor (µg/L)	Toxaphene (µg/L)
Headwaters Ten Mile Creek	TEN-B	4/25/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		4/25/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		8/9/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052
	TEN-D	4/6/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		8/11/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
Headwaters Turtle Creek	CEB-B	6/10/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.031	< 0.004	< 0.051
		9/8/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.031	< 0.004	< 0.052
	KNI-A	6/10/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052
		9/8/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052
	TRO-A	3/16/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		7/13/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		7/13/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.031	< 0.004	< 0.051
	TUR-A	3/29/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052
		7/14/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.031	< 0.004	< 0.054
Prairie Creek - Trinity River	PRA-A	4/25/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		8/9/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052
South Mesquite Creek	SMC-A	6/9/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		9/7/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
	SMC-B	3/16/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		7/13/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
	SMC-C	3/29/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052
7/14/2016		< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052	
Turtle Creek - Trinity River	CEDR-1	4/5/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052
		4/5/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.052
		7/22/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		7/22/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
	COO-A	3/16/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		7/13/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
White Rock Creek - White Rock Lake	DIX-A	6/10/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.030	< 0.004	< 0.051
		9/8/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.032	< 0.004	< 0.055

Table E-1		Bacteria Trends – from Rapid Bio-assessment Data					
Watershed (Sample Location)	Geomean	Percent Improvement	# Samples	Maximum	Minimum	# Exceedences	Period of Record
Elm Fork Trinity River (Texas Segment 0822)							
Elm Fork Trinity River (ELMT-1)	647	-54%	17	34,480	10	13	2009-2016
Furneaux Creek (FUR-A)	87	-54%	21	2,247	6	9	2007-2016
Hutton Branch (HUTT-1)	70	-44%	20	816	10	4	2007-2016
Elm Fork @ Cooks Branch (EFCB-1)	8	-74%	16	490	1	1	2009-2016
Farmer's Branch (FARM-1)	57	-71%	21	1,900	1	8	2007-2016
Rawhide Creek (RAW-A)							
Joe's Creek (JOES-1)	881	19%	18	32,550	108	16	2009-2016
West Joe's Creek (NWDA-1)	150	276%	16	43,520	10	7	2007-2016
Upper Bachman Creek (BAB-C)	189	-35%	19	820	39	13	2009-2016
Bachman Creek U/S Bachman Lake (BAB-B)	128	-48%	19	500	10	12	2007-2016
Bachman Creek (LBAC-1)	102	-68%	16	563	10	6	2009-2016
California Crossing (CAC-A)	35	65%	16	760	1	5	2007-2016
Daniel's Creek (DAN-A)	78	145%	23	690	1	7	2007-2016
Richard's Branch (RIB-A)	143	-23%	22	2,900	1	13	2007-2016
Elm Fork Trinity River (NWD-5)	956	-75%	12	5,170	74	10	2009-2016
Lower West Fork Trinity River (Texas Stream Segment 0841)							
Fish Creek – Mountain Creek Lake							
Mountain Creek U/S (MOC-B)	16	218%	23	231	1	1	2007-2016
Artesian Creek (ART-A)	23	-65%	19	591	1	1	2007-2016
Delaware Creek (DELA-1)	193	-12%	11	241,960	1	7	2009-2016
Mountain Creek D/S (MOC-A)	23	651%	21	1,600	1	2	2007-2016
Lower Mountain Creek (LMOC-1)	142	373%	15	11,199	1	9	2009-2016
West Fork Trinity River (WDAL-2)	258	99	14	2,420	20	11	2009-2016
Old Trinity River (Nobles Branch) (WDAL1)	135	-76%	13	1,850	10	6	2009-2016

Table E-1		Bacteria Trends – from Rapid Bio-assessment Data (Continued)					
Watershed (Sample Location)	Geomean	Percent Improvement	# Samples	Maximum	Minimum	# Exceedences	Period of Record
Main Stem Trinity River (Texas Stream Segment 0805-04) [Segment from West Fork/Elm Fork confluence to Cedar Creek]							
Headwaters Turtle Creek							
Dallas East Bank Sump (Delta) (U/S) (DAEB-2)	286	19%	16	487,856	1	13	2009-2016
Dallas East Bank Sump (D/S) (DAEB-1)	260	18%	16	3,076	10	12	2009-2016
Knights Branch (KNI-A)	420	111%	21	11,199	7	19	2007-2016
Old Trinity River – U/S (TRO-C)	96	135%	16	839	10	7	2009-2016
Old Trinity River – D/S (TRO-A)	120	20%	21	2,603	1	9	2008-2016
Cedar Branch (CEB-B)	818	-42%	16	1,956	243	16	2009-2016
Turtle Creek - U/S (TUR-C)	306	-63%	16	1,274	134	16	2009-2016
Turtle Creek - D/S (TUR-A)	430	-18%	19	11,199	69	17	2007-2016
CBD - 2	1,667	87%	15	24,196	187	15	2009-2016
Main Stem Trinity River (Texas Stream Segment 0805-04) [Segment from West Fork/Elm Fork confluence to Cedar Creek]							
Turtle Creek – Trinity River (West Bank)							
Fish Trap Lake (FIL-A)	155	416%	18	1,467	1	14	2007-2016
Coombs Creek (COO-A)	265	-56%	22	9,208	10	18	2007-2016
Dallas West Bank Sump System (DAWB-3)	277	-50%	15	4,611	10	9	2009-2016
Lake Cliff (LAC-A)	65	713%	19	16,000	1	6	2007-2016
Cedar Creek – U/S (CEC-B)	906	-35%	16	15,531	63	15	2009-2016
Cedar Creek – D/S (CEDR-1)	391	-77%	22	1,700	85	20	2009-2016
Main Stem Trinity River (Texas Stream Segment 0805-03) [Segment from Cedar Creek to Five Mile Creek]							
Five Mile Creek – Trinity River							
West Sump System (SDAL-1)	373	78%	19	900	98	18	2009-2016
Honey Springs Branch (SEDA-1)	94	-22%	17	487	20	6	2009-2016
Elam Creek – U/S @175 (ELA-B)	399	1187%	9	1,259	31	8	2011-2016
Elam Creek – D/S (ELA-A)	558	16%	19	24,196	75	18	2007-2016

Table E-1		Bacteria Trends – from Rapid Bio-assessment Data (Continued)					
Watershed (Sample Location)	Geomean	Percent Improvement	# Samples	Maximum	Minimum	# Exceedences	Period of Record
Five Mile Creek System							
Headwaters Five Mile Creek							
Five Mile Creek – U/S @ Loop 12 (FIV-e)	203	1%	18	1,440	20	15	2007-2016
Five Mile Creek -U/S @ Loop 12 (FIV-d)	157	-22%	20	2,520	52	9	2007-2016
Crow Creek (CRO-A)	494	-10%	18	3,654	10	16	2007-2016
Woody Branch (WOO-A)	309	61%	22	9,678	64	18	2007-2016
Rickett's Branch (RIC-B)	236	101%	21	1,529	10	16	2007-2016
Five Mile Creek –M/S @ (FIV-c)	177	1%	21	3,448	10	13	2007-2016
Five Mile Creek - Trinity River							
Five Mile Creek – M/S @ (FIV-B)	102	-36%	22	2,420	10	7	2007-2016
Five Mile Creek – D/S @ SH310 (FIV-A)	93	173%	23	2,420	3	6	2007-2016
Main Stem Trinity River (Texas Stream Segment 0805-02) [Segment from Five Mile Creek to Ten Mile Creek]							
East Bank – Trinity River							
Upper Prairie Creek – Trinity River							
Prairie Creek - U/S (PRAI 2)	137	-99%	13	20,000	10	6	2009-2016
Prairie Creek – D/S (PRA-A)	112	1020%	15	771	10	6	2009-2016
Main Stem Above Ten Mile Creek (ATEN-1)	37	3551%	4	800	1	1	2009-2016
Hickory Creek - Parson's Slough							
Hickory Creek (HIC-D)	359	-78%	12	1,600	63	10	2009-2016
Parsons Slough (PAR-A)	301	16%	10	900	98	9	2009-2016
Headwaters Ten Mile Creek							
Ten Mile Creek – U/S (Ten-D)	106	-34%	21	12,997	10	8	2007-2016
Ten Mile Creek - D/S (Ten-B)	63	-59%	26	2,282	1	11	2007-2016

Table E-1		Bacteria Trends – from Rapid Bio-assessment Data (Continued)					
Watershed (Sample Location)	Geomean	Percent Improvement	# Samples	Maximum	Minimum	# Exceedances	Period of Record
White Rock Creek System (Texas Stream Segment 0827) [discharges into trinity River Stream Segment 0805-03]							
Headwater White Rock Creek							
White Rock creek Above Lake (UWRC-1)	93	-15%	18	4,000	10	7	2009-2016
Floyd Branch – White Rock creek							
McKamy Branch (MCK-C)	272	-28%	15	1,017	63	12	2009-2016
Cottonwood Creek (COT-C)	677	63%	19	21,200	161	19	2007-2016
Floyd Branch (FLO-A)	531	28%	22	19,863	160	22	2007-2016
White Rock Creek – U/S (WHC-C)	147	-33%	23	2,420	1	14	2007-2016
White Rock creek – White Rock Lake							
Jackson ranch (JAC-A)	421	58%	25	2,420	52	23	2007-2016
Dixon Branch (DIX-A)	361	45%	20	4,400	122	19	2007-2016
Williamson Branch (WIL-A)	253	-45%	13	2,863	1	11	2007-2016
McCommas Creek (MCC-A)	124	-41%	23	602	1	15	2007-2016
City of Dallas – White Rock Creek							
Ash Creek (ASH-A)	135	-36%	20	3,255	10	11	2007-2016
White Rock Creek below Lake (WHC-A)	115	141%	18	780	20	8	2007-2016
Lower White Rock Creek (DALW-3)	1,408	-41%	8	3,654	776	6	2009-2011
Lake Ray Hubbard (Texas Stream Segment 0820)							
Pitman Creek – Spring Creek							
Spring Creek (SPC-A)	141	-33%	18	1,274	10	10	2009-2016
Duck creek							
Long Branch Creek (LON-B)	399	-45%	14	1,354	100	12	2009-2016
East Fork Trinity River (Texas Stream Segment 0819)							
South Mesquite Creek (Reference)							
South Mesquite creek – U/S (SMC-C)	97	-36%	18	3,873	1	9	2007-2016
South Mesquite creek – Mid (SMC-B)	72	-71%	21	991	1	9	2007-2016
South Mesquite creek – D/S (SMC-A)	73	-44%	21	1,300	10	8	2007-2016
East Fork Trinity							
NOTES:							
Values indicate change in Geomean over Period of Record	Water Quality criteria exceedance or significant water quality degradation (negative change)						