

Station Name Geronimo Creek @ Hollub Lane
 TCEQ Segment No. 1804A
 TCEQ Station Id No. 20747 GB705
 Monitoring Type Routine
 Latitude 29.545408 Longitude -97.918178

Parameter	Parameter Code	Date and 24 hour time										
		9/24/08	11/25/08	12/15/08	1/27/09	2/24/09	3/31/09	4/29/09	5/26/09	6/29/09	7/20/09	8/10/09
Season		Fall	Fall	Winter	Winter	Winter	Spring	Spring	Spring	Summer	Summer	Summer
Weather Conditions									Wet	Dry	Dry	Dry
Flow (cfs)	00061	7.6	10.2	8.1	8.2	7.5	8	8.2	6.2	3.6	3.8	3.6
E coli (organisms/100 mL)	31699	130	180	272	71	190	64	41	80	130	150	91
Suspended Solids (mg/L)	00530	5.7	1.3	2.7	5	3.3	3	8	5.7	3.7	5	6.3
Turbidity (NTU)	82079	3.2	1.96	2.35	2.05	1.78	1.59	2.81	2.09	1.83	2.6	3.2
pH	00400	7.8	7.7	7.7	7.8	7.8	7.7	7.8	8.1	7.8	8	7.9
Temperature (C)	00010	24.3	14.1	13.9	15.1	14.6	19.3	22.8	25.2	28.8	28.9	28.4
Dissolved Oxygen (mg/L)	00300	8.3	8.6	9.3	9	11.4	8.2	6.4	11.7	6.6	9.2	7.6
Conductivity (umhos/cm)	00094	800	843	876	803	715	786	781	759	726	717	726
Total Phosphorus (mg/L)	00665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate-N (mg/L)	00620	10.9	13.2	12.4	10.5	10.6	9.56	8.76	8.26	6.2	5.8	6.36
Chloride (mg/L)	00940	38.1	37.4	40.7	46.6	42.8	40.4	40.8	40.9	38	31.1	36.9
Sulfate (mg/L)	00945	70.7	74.8	80.8	84.1	81.9	77.6	80.1	78.5	83.3	64.4	79.8
Total Hardness (mg/L)	00900	220	298	302	280	267	269	263	243	210	206	195
Ammonia-N (mg/L)	00610	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	0.14	<0.10	0.11
Chlorophyll a (mg/m ³)	32211	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	1.4	1.8	1.4
Pheophytin (mg/m ³)	32218	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0

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		9/14/09	10/6/09	11/11/09	12/8/09	1/15/10	2/8/10	2/25/10	3/8/10	3/11/10	4/19/10	5/17/10
Season		Fall	Fall	Fall	Winter							
Weather Conditions (Wet or Dry)		Wet	Wet	Wet	Wet							Wet
Flow (cfs)	00061	6.4	6.5	5.9	5.3	202	10.5		7.3		10.2	17.8
E coli (organisms/100 mL)	31699	400	1090	65	48	11000	130			81	2720	530
Suspended Solids (mg/L)	00530	18	29.3	9	12	95	11.3		4.7		126	41
Turbidity (NTU)	82079	17.2	24.8	6	10.2	76.9	19.7		2.1		123	40.5
pH	00400	7.8	7.9	7.8	7.5	7.9	7.7		7.7		7.7	7.5
Temperature (C)	00010	24.3	24.8	18	10.8	11.8	13.8		16.2		18.6	23.2
Dissolved Oxygen (mg/L)	00300	5.6	7.4	9.9	9.4	10.6	9.6		8.9		13.8	8.9
Conductivity (umhos/cm)	00094	536	648	663	823	315	534		939		466	304
Total Phosphorus (mg/L)	00665	0.07	0.1	<0.05	0.06	0.22	0.14		<0.05		0.19	0.18
Nitrate-N (mg/L)	00620	5.12	<0.05	7.6	6.44	2.46	3.3		8.16		3.2	1.79
Chloride (mg/L)	00940	22.3	26.6	30.8	38.5	11.8	26.9		51.9		20.6	8.7
Sulfate (mg/L)	00945	49	52.5	60.8	76.8	25.2	51.5		91		36.3	16.2
Total Hardness (mg/L)	00900	174	230	264	292	140	211		316		167	124
Ammonia-N (mg/L)	00610	0.14	0.11	<0.10	0.1	0.1	0.1		<0.10		0.14	0.13
Chlorophyll a (mg/m ³)	32211	<1.0	<1.0	<1.0	<1	17.2	<1.0		<1.0		1.2	<1.0
Pheophytin (mg/m ³)	32218	<1.0	<1.0	<1.0	<1	6.3	<1.0		<1.0		<1.0	<1.0
Selenium								4.17				
Arsenic Diss								2.78				
Cadmium, Dissolved								<1.00				
Copper, Dissolved								<1.00				
Lead, Dissolved								<1.00				
Nickel, Dissolved								1.29				
Silver, Dissolved								<1.00				
Zinc, Dissolved								<5.00				
Aluminum, Dissolved								10.9				
Chromium, Dissolved								1.36				
Mercury, Total								<0.150				

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		6/17/10	7/20/10	8/9/10	9/24/12	10/18/12	11/27/12	12/11/12	1/2/13	2/6/13	3/25/13	5/13/13
Flow (cfs)	00061	20.5	12	8.1	7.0	6.1	6.4	7.4	6.3	6.7	5.8	3.5
E coli (organisms/100 mL)	31699	150	140	140	150	490	130	77	110	210	96	53
Suspended Solids (mg/L)	00530	11.7	9	6.7	7.90	3.10	2.75	1.30	1.00	1.50	2.30	1.90
Turbidity (NTU)	82079	9.2	7.6	4.1	5.8	2.4	1.8	1.2	1.2	1.5	1.6	1.60
pH	00400	7.7	7.4	7.6	7.8	7.7	7.5	7.5	7.8	7.9	7.6	7.9
Temperature (C)	00010	27.8	27.8	28.5	24.0	22.2	16.1	13.8	10.3	17.4	16.0	20.1
Dissolved Oxygen (mg/L)	00300	7	8.7	4.7	6.7	7.1	8.5	9.6	10.6	9.3	9.3	7.4
Conductivity (umhos/cm)	00094	765	826	784	762	828	828	849	823	771	769	767
Total Phosphorus (mg/L)	00665	0.08	0.05	<.05	0.03	0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.02
Nitrate-N (mg/L)	00620	5.64	7.44	10.7	8.24	10.5	11.1	9.80	10.4	10.1	8.20	8.20
Chloride (mg/L)	00940	37	44	46.8	35.6	39.8	36.7	37.4	35.8	36.8	38.0	34.9
Sulfate (mg/L)	00945	74.9	86.2	93.1	71.4	79.1	74.7	76.3	72.9	73.3	74.9	69.4
Total Hardness (mg/L)	00900	289	294	264	255	261	260	273	273	250	233	253
Ammonia-N (mg/L)	00610	0.12	<0.10	0.13	0.13	0.15	0.35	0.77	0.17	0.22	0.22	0.21
Chlorophyll a (mg/m ³)	32211	1.1	<1.0	1	<1.00	<1.00	<1.00	<1.00	<1.00	<1.0	<1.0	<1.0
Pheophytin (mg/m ³)	32218	1.7	<1.0	<1	<1.00	<1.00	<1.00	<1.00	<1.00	<1.0	<1.0	2.08
TKN	00625				<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Parameter	Parameter Code	Date and 24 hour time										
		6/12/13	7/24/13	8/6/13	9/18/13	9/23/13	10/9/13	11/11/13	12/9/13	1/14/14	2/3/14	3/17/14
Weather Conditions	Dry	Dry	Dry	Dry	Dry	Wet	Wet	Dry	Wet	Dry	Dry	Dry
Flow (cfs)	00061	4.4	1.6	2.8	6.0	6.4	3.1	5.2	1.5	3.8	4.4	3.0
E coli (organisms/100 mL)	31699	120	180	61	650	240	140	140	490	120	440	870
Suspended Solids (mg/L)	00530	7.50	4.00	3.70	5.50	7.70	9.70	6.30	2.60	2.50	2.40	2.30
Turbidity (NTU)	82079		2.7	2.7	4.2	6.6	9.0	4.8	1.9	2.0	1.0	1.6
pH	00400	7.9	7.9	7.9	7.7	7.8	7.8	7.6	7.6	7.1	7.3	7.7
Temperature (C)	00010	25.9	27.8	28.4	25.8	22.4	20.2	17.6	9.5	10.9	10.2	14.6
Dissolved Oxygen (mg/L)	00300	5.8	6.3	6.5	5.5	6.1	7.4	7.5	10.0	10.0	10.8	8.8
Conductivity (umhos/cm)	00094	749	682	675	492	496	529	709	838	816	830	801
Total Phosphorus (mg/L)	00665	0.04	0.03	0.02	0.03	0.05	0.11	0.04	<0.02	<0.02	<0.02	<0.02
Nitrate-N (mg/L)	00620	6.70	5.50	5.80	4.20	4.30	3.60	7.00	9.20	9.30	9.50	7.20
Chloride (mg/L)	00940	31.6	32.1	35.9	22.4	22.9	20.9	29.8	36.7	38.6	38.2	38.5
Sulfate (mg/L)	00945	62.8	61.2	69.3	44.6	45.6	42.3	57.3	70.2	76.2	72.7	72.0
Total Hardness (mg/L)	00900	246	258	199	148	167	188	241	288	276	260	249
Ammonia-N (mg/L)	00610	0.26	<0.10	0.13	0.17	0.29	<.10	<0.10	<0.10	<0.10	<0.10	0.23
Chlorophyll a (mg/m ³)	32211	<1.0	<1.0	1.57	<1.0	<1.0	4.69	1.07	<1.0	8.96	<1.0	---
Pheophytin (mg/m ³)	32218	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---
TKN	00625	<0.20	<0.20	<0.20	<0.20	<0.20	0.44	<0.20	<0.20	<0.20	<0.20	<0.2

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		4/7/14	5/6/14	5/14/14	6/11/14	7/21/14	8/12/14	9/10/14	10/13/14	11/5/14	12/8/14	1/14/15
Weather Conditions		Dry	Dry	Wet	Dry	Dry	Dry	Wet	Wet	Wet	Dry	Dry
Flow (cfs)	00061	5.4	2.8		1.3	1.9	1.0	1.5		19	4.8	5.0
E coli (organisms/100 mL)	31699	54	24	800	110	190	100	120	130	2500	390	190
Suspended Solids (mg/L)	00530	2.10	3.30	17.0	9.10	1.50	4.70	4.10	2.50	14.2	6.50	4.50
Turbidity (NTU)	82079	1.7	2.1	12.1	4.7	3.8	3.4	3.2	3.0	10.3	5.3	4.2
pH	00400	7.5	7.6	7.9	7.3	7.7	8.0	8.1	7.8	8.0	7.4	7.9
Temperature (C)	00010	17.0	21.3	19.9	26.9	27.7	29.6	28.6	23.9	18.2	14.8	7.4
Dissolved Oxygen (mg/L)	00300	7.0	6.5	7.6	7.2	6.5	8.8	8.1	8.0	7.9	7.4	11.5
Conductivity (umhos/cm)	00094	804	763	751	545	655	688	498	661	535	654	626
Total Phosphorus (mg/L)	00665	<0.02	<0.02	0.06	0.08	0.02	0.02	0.02	0.02	0.05	2.87	0.02
Nitrate-N (mg/L)	00620	5.90	4.90	7.10	2.80	3.50	2.6	1.85	4.70	4.64	4.1	5.70
Chloride (mg/L)	00940	40.5	37.7	33.1	20.7	31.1	37.5	23.9	35.2	23.4	25.5	29.7
Sulfate (mg/L)	00945	75.8	73.1	65.1	39.5	59.1	69.8	45.1	66.0	46.1	50.5	53.2
Total Hardness (mg/L)	00900	256	252	255	181	200	198	143	235	183	234	237
Ammonia-N (mg/L)	00610	0.34	0.32	0.28	0.36	0.22	0.16	0.31	0.11	0.45	0.28	<0.10
Chlorophyll a (mg/m ³)	32211	---	2.05	<1.0	<1.0	1.13	1.57	<1.0	<1.0	<1.0	<1.0	<1.0
Pheophytin (mg/m ³)	32218	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0
TKN	00625	0.386	<0.2	<0.2	0.54	0.30	0.34	0.51	<0.20	0.47	0.49	<0.20

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Parameter	Parameter Code	Date and 24 hour time										
		1/28/15	2/10/15	3/16/15	4/13/15	5/19/15	6/10/15	7/7/15	8/17/15	9/10/15	10/20/15	11/3/15
Weather Conditions		914 Wet	949 Wet	931 Dry	1210 Dry	1014 Wet	1218 Dry	1508 Dry	856 Dry	1412 Wet	907 Dry	956 Wet
Flow (cfs)	00061	6.6	-6.1	5.3	8.9	37	11.0	15.0	10	9.1	9.5	
E coli (organisms/100 mL)	31699	320	210	390	310	530	130	200	140	88	100	190
Suspended Solids (mg/L)	00530	18.10	7.40	20.4	10.0	35.8	23.1	8.50	3.30	3.20	2.90	75.3
Turbidity (NTU)	82079	26.7	6.2	4.6	6.3	52.8	9.9	6.9	2.5	2.8	2.3	60.9
pH	00400	7.7	7.9	7.8	7.7	7.9	7.9	8.1	7.8	7.7	7.8	7.6
Temperature (C)	00010	10.9	13.7	17.0	21.4	24.4	27.0	27.0	27.0	27.7	19.5	20.5
Dissolved Oxygen (mg/L)	00300	9.4	10.4	8.5	6.6	7.0	7.3	7.7	6.1	8.8	7.5	6.7
Conductivity (umhos/cm)	00094	318	707	611	765	289	868	908	815	789	766	397
Total Phosphorus (mg/L)	00665	0.10	0.03	0.03	0.05	0.22	0.08	0.03	<0.02	<0.02	<0.02	0.20
Nitrate-N (mg/L)	00620	2.0	5.60	2.90	4.50	1.22	8.10	10.4	11.3	11.8	11.7	1.86
Chloride (mg/L)	00940	16.4	35.5	30.3	37.0	11.8	44.2	47.0	36.6	34.0	32.3	14.9
Sulfate (mg/L)	00945	29.3	66.7	52.8	66.9	20.7	76.6	86.1	76.5	73.3	70.4	28.4
Total Hardness (mg/L)	00900	155	261	208	268	165	300	313	253	235	248	171
Ammonia-N (mg/L)	00610	0.20	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorophyll a (mg/m ³)	32211	3.14	3.89	<1.0	<1.0	1.19	3.26	1.48	<1.00	<1.00	<1.00	<1.00
Pheophytin (mg/m ³)	32218	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
TKN	00625	0.59	0.46	0.44	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.50

Parameter	Parameter Code	Date and 24 hour time										
		12/7/15	1/11/16	2/8/16	3/8/16	4/12/16	5/9/16	6/1/16	7/18/16	8/15/16	9/12/16	10/17/16
Weather Conditions		853 Dry	859 Dry	1006 Dry	1528 Dry	951 Wet	1020 Dry	910 Wet	1240 Dry	1011 Dry	1010 Dry	920 Dry
Flow (cfs)	00061	14.0	13.0	12	12	13	22	70*	15	16	35	19
E coli (organisms/100 mL)	31699	50	60	46	110	72	170	10000	100	880	71	170
Suspended Solids (mg/L)	00530	2.00	2.80	2.30	1.10	0.70	3.70	118	1.10	6.20	3.20	-
Turbidity (NTU)	82079	1.8	2.2	1.4	1.1	4.3	3.8	153	3.6	5.6	3.0	3.6
pH	00400	7.8	7.7	7.5	7.8	7.6	7.7	7.7	7.8	7.8	7.8	7.6
Temperature (C)	00010	12.6	11.0	11.7	21.6	20.7	21.5	21.9	27.2	25.0	25.0	23.9
Dissolved Oxygen (mg/L)	00300	9.3	9.7	10.0	11.8	7.3	7.4	7.6	7.3	7.7	6.8	7.3
Conductivity (umhos/cm)	00094	838	829	792	770	801	811	183	779	654	800	795
Total Phosphorus (mg/L)	00665	0.03	<0.02	<0.02	0.02	0.02	0.03	0.35	0.02	0.02	0.03	0.02
Nitrate-N (mg/L)	00620	10.7	9.72	9.9	11.2	10.8	11.4	1.44	13.7	8.10	10.8	10.8
Chloride (mg/L)	00940	35.6	36.8	37.6	34.0	34.4	31.6	4.11	31.2	22.2	27.9	28.2
Sulfate (mg/L)	00945	73.1	73.3	76.2	71.0	70.9	65.3	5.98	68.9	51.2	62	64.7
Total Hardness (mg/L)	00900	285	289	265	247	266	269	104	243	223	266	272
Ammonia-N (mg/L)	00610	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.24	<0.10	<0.10	<0.10
Chlorophyll a (mg/m ³)	32211	<1.00	1.36	<1.0	<1.0	<1.0	<1.0	1.87	1.81	<1.0	<1.00	<1.00
Pheophytin (mg/m ³)	32218	<1.00	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.70	<1.00	<1.00
TKN	00625	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.11	<0.20	<0.20	<0.20	<0.20

* Estimate due to high flows