

TABLE 14

TNRCC Segment 1804  
 TNRCC Station 14932  
 Station Number 14 Geronimo Creek at SH 123  
 Latitude 29/40/12 Longitude 97/57/53

Parameter	Parameter Code	Date and 24 hour time											
		10/14/96	11/4/96	12/9/96	1/20/97	2/27/97	3/18/97	4/21/97	5/30/97	6/16/97	7/18/97	8/26/97	9/30/97
Flow (cfs)	61	3.44	2.31	2.55	2.53	2.2	2.42	2.18	2.32	1.9	1.33	1.81	1
Fecal Coliform(org/100mL)	31616	192	64	60	132	368	525	136	172	162	312	196	88
Suspended Solids(mg/L)	530	13	12.2	9.8	10.6	22	23.5	13.8	33	13	21.3	14.1	13
Turbidity(NTU)	82079	7.7	7.1	6.4	4.9	22	15.5	5.3	18.5	7.6	8.5	5.1	6
pH	400	7.45	7.69	7.95	7.97	7.64	8.2	7.93	6.54	7.45	7.6	7.59	7.8
Temperature(C)	10	21.93	20.06	18.6	17.26	14.73	20.58	22.9	21.56	24.7	22.62	24.12	23.98
Dissolved Oxygen(mg/L)	300	7.37	8.47	9.71	10.09	8.83	9.26	8.94	6.54	7.47	5.4	8.37	8.42
Conductivity(umhos/cm)	94	952	946	964	972	984	957	969	994	986	1013	755	1012
Total Phosphorus(mg/L)	665	0.14	0.05	0.13	0.09	0.14	0.06	<0.05	0.06	0.09	0.39	0.14	<0.05
Nitrate-N(mg/L)	630	8.5	8.95	9.3	8.3	7.8	9.1	9.3	10	16.9	9.1	7.7	8.1
Chloride(mg/L)	940	75.8	70.6	86.7	69.9	93.4	69.8	86.5	85.5	67.8	72.6	64.1	60.4
Sulfate(mg/L)	945	54.2	66.3	67.4	58.1	70.8	58.5	80.2	82.5	91.5	235	62	67
Total Hardness(mg/L)	900	254	324	320	306	333	330	296	315	364	347	325	319
Ammonia-N(mg/L)	610	0.06		0.05		0.08		0.07		0.06		0.04	
E. coli(org/100mL)	31648	160	39	44	0	244	438	136	156	150	225	40	38
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.0	<1.0	<1.0	1.33	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Parameter	Parameter Code	Date and 24 hour time											
		10/21/97	11/19/97	12/10/97	1/12/98	2/9/98	3/18/98	4/13/98	5/18/98	6/23/98	7/13/98	8/26/98	9/25/98
Flow (cfs)	61	2.27	1.12	2.46	2.8	2.67	3.7	2.81	2.57	2.28	2	2.41	3.14
Fecal Coliform(org/100mL)	31616	124	375	172	412	240	1400	538	248	275	247	975	676
Suspended Solids(mg/L)	530	8.7	13	14.6	16.8	11.2	27.1	10.3	12.8	11.9	9.4	23.3	20.2
Turbidity(NTU)	82079	12	12	8.6	6.8	6.7	26.5	5.4	7.3	16.8	4.6	7.2	17
pH	400	7.71	8	7.82	7.64	7.78	7.8	7.96	7.85	7.5	7.6	7.57	7.06
Temperature(C)	10	21.98	17.09	16.8	20.55	18.42	21.24	21.55	23.17	23.91	25.37	23.97	23.02
Dissolved Oxygen(mg/L)	300	9	9.15	10.12	8.87	11.65	9.07	8.61	9.3	6.02	7.56	6.16	6.43
Conductivity(umhos/cm)	94	966	943	941	935	960	795	941	900	928	856	912	817
Total Phosphorus(mg/L)	665	0.06	0.06	0.08	<0.05	<0.05	0.19	<0.05	0.14	<0.01	<0.01	0.13	0.09
Nitrate-N(mg/L)	630	11.3	8.4	8.8	8.5	9.2	9.6	8.2	5.2	8.6	9.2	7.5	8.6
Chloride(mg/L)	940	61	68	67.8	60	65	50.6	72	64.8	64	54.1	58.6	64
Sulfate(mg/L)	945	73.1	72	66.6	53.5	11.6	82.2	65.5	54	63	51.9	57.2	75
Total Hardness(mg/L)	900	286	346	302	305	306	285	312	293	385	220	311	247
Ammonia-N(mg/L)	610	0.13		0.1		0.1		0.12		0.11		0.11	
E. coli(org/100mL)	31648	76	362	148	350	140	1200	600	244	212	48	300	262
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.0	<1.0	1.3	<1.0	2	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids(mg/L)	70300												

Parameter	Parameter Code	Date and 24 hour time											
		10/30/98	11/30/98	12/09/98	1/20/99	2/09/99	3/17/99	4/15/99	5/19/99	6/09/99	7/14/99	8/23/99	9/14/99
Flow (cfs)	61	7	8.2	8.3	6.2	5.93	5.8	4.73	4.8	4.47	4.49	4.04	3.9
Fecal Coliform(org/100mL)	31616	308	100	84	101	204	36	85	58	84	72	362	73
Suspended Solids(mg/L)	530	8.1	7.4	17.4	19.6	18.7	18.7	21.2	15.7	14.2	14.7	16.8	22.7
Turbidity(NTU)	82079	3.3	3.8	8.7	13	9.3	9.3	16.5	11	12	8.5	9.1	9
pH	400	7.63	7.53	7.34	7.68	7.51	8.04	7.23	7.33	7.64	7.63	24.34	7.84
Temperature(C)	10	22.92	21.18	18.76	18.06	22.83	20.96	18	22.37	23.45	25.18	8.01	24.85
Dissolved Oxygen(mg/L)	300	6.16	7.61	7.32	7.16	9.14	9.96	7.17	8.99	8.28	10.13	8.01	11.64
Conductivity(umhos/cm)	94	988	964	940	970	906	941	919	833	882	868	832	813
Total Phosphorus(mg/L)	665	0.05	0.01	<0.01	0.1	0.04	0.11	0.06	0.1	0.13	0.07	<0.01	0.02
Nitrate-N(mg/L)	630	9	11	9.2	10	12.2	5.8	12.9	6.57	10.5	9.14	8.49	9.32
Chloride(mg/L)	940	72.9	65.7	60.7	60.3	58.6	56.2	53.8	51.8	53.9	44.8	47.5	49.4
Sulfate(mg/L)	945	71	59.2	35	50	53.6	54.7	46.8	56	60.5	52	48.2	40.6
Total Hardness(mg/L)	900	261	253	331	287	254	322	342	252	337	264	318	282
Ammonia-N(mg/L)	610	0.06		0.05		0.04		0.13		0.14		0.09	
E. coli(org/100mL)	31648	112	64	84	88	176	32	40	40	28	36	138	16
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.0	<1.0	<1.0	1	<1.0	1.6	2.9	1.1	2.4	<1	3.2	1.1
Total Dissolved Solids(mg/L)	70300	660											

TABLE 14

TNRCC Segment 1804  
 TNRCC Station 14932  
 Station Number 14 Geronimo Creek at SH 123  
 Latitude 29/40/12 Longitude 97/57/53

Parameter	Parameter Code	Date and 24 hour time											
		10/19/99	11/29/99	12/14/99	1/18/00	2/14/00	15/20/00	4/18/00	5/25/00	6/28/00	7/19/00	8/13/00	9/26/00
		1420	1501	1528	1411	1530	1427	1411	1323	1128	1512	1113	1008
Flow (cfs)	61	3.73	3.83	3.76	4.69	1.98	5	3.59	4.35	4.7	5.7	4.2	3.07
Fecal Coliform(org/100mL)	31616	221	275	229	550	312	388	250	206	232	196	218	97
Suspended Solids(mg/L)	530	18.5	21	22.7	21.6	26	36.8	35.2	20	21	10.1	20.8	19.5
Turbidity(NTU)	82079	8.8	15	15	18	11.8	24.5	23.5	13	14.5	5.8	10	4.5
pH	400	8.06	7.73	7.57	7.87	7.83	7.85	7.78	8.3	7.53	7.75	6.98	7.59
Temperature(C)	10	18.99	20.92	19.1	21.49	21.25	20.54	21.83	24.15	23.12	26.73	23.27	19.02
Dissolved Oxygen(mg/L)	300	8.68	9.93	10.71	10.5	11.84	8.09	7.33	7.59	7.26	9.51	6.83	8.87
Conductivity(umhos/cm)	94	844	834	839	829	830	836	900	920	963	878	907	866
Total Phosphorus(mg/L)	665	0.06	0.11	0.12	0.06	0.03	0.1	0.13	0.08	0.14	0.02	0.07	0.04
Nitrate-N(mg/L)	630	10.8	8.61	10.4	8.24	11.8	9.81	8.2	9.97	9.5	10	10.7	10
Chloride(mg/L)	940	50	44.5	49.5	50.2	50.2	47.5	52.2	47.4	51	60.5	54.2	54.8
Sulfate(mg/L)	945	42.8	47.8	53.6	47.8	50.8	49.2	39.9	49.6	56.7	51.6	57	48.2
Total Hardness(mg/L)	900	244	303	175	302	318	246	344	327	319	305	261	306
Ammonia-N(mg/L)	610	0.1		0.08		0.16		0.15		0.16		0.1	
E. coli(org/100mL)	31648	212	212	<4	262	262	375	250	72	180	180	138	84
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.0	<1.0	<1.0	<1	1.3	<1	2.5	<1	2.3	<1	1.6	<1.0
Total Dissolved Solids(mg/L)	70300												

Parameter	Parameter Code	Date and 24 hour time											
		10/31/00	11/28/00	12/18/00	1/15/01	2/21/01	3/22/01	4/17/01	5/1/01	6/21/01	7/9/01	8/9/01	9/11/01
		1432	900	1412	1513	1329	1124	1448	1533	1321	1023	1334	1130
Flow (cfs)	61	3.2	5.1	10	5.27	5.09	3.4	941	5.24	4	4.41	4.42	5.37
Fecal Coliform(org/100mL)	31616	232	184	53	104	475	88	19	116	108	172	430	1200
Suspended Solids(mg/L)	530	23.7	17.7	12	15	11.6	12.5	21.1	21.4	5.75	13.1	13.8	40.4
Turbidity(NTU)	82079	21	17	8	10.5	7.2	10	16	20	4.5	7.5	8.5	18
pH	400	7.28	7.55	7.93	7.73	7.79	7.57	8.05	7.61	7.28	7.44	8.07	7.82
Temperature(C)	10	23.88	19.97	18.22	17.68	20.57	18.8	23.6	22.73	23.85	22.56	24.92	22.8
Dissolved Oxygen(mg/L)	300	9.46	8.56	10.72	10	9.38	11.63	9.75	10.61	9.77	7.02	9.97	8.15
Conductivity(umhos/cm)	94	885	905	948	922	975	962	378	920	953	950	930	953
Total Phosphorus(mg/L)	665	0.06	0.07	0.05	0.05	0.05	0.1	0.13	0.07	0.04	0.02	0.07	0.15
Nitrate-N(mg/L)	630	10.6	10.35	9.5	9.18	11.3	11.4	1	10.8	9.8	12.7	10.9	10.1
Chloride(mg/L)	940	64	61.2	58	56.1	61.6	62.2	19.3	61.2	38.4	90.7	63.6	79.5
Sulfate(mg/L)	945	56.9	70.8	56.5	59.6	61.7	60.1	29.8	49.4	46	48.4	41.7	62.4
Total Hardness(mg/L)	900	310	348	317	326	356	333	349	339	318	364	296	337
Ammonia-N(mg/L)	610	0.04		0.05		0.03		0.03		<0.02		0.03	
E. coli(org/100mL)	31648	156	8	52	104	450	72	19	96	102	48	130	740
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	<1	<1	<1	2.3	2	3.9	<1.0	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids(mg/L)	70300												

Parameter	Parameter Code	Date and 24 hour time											
		10/10/01	11/19/01	12/19/01	1/15/02	2/19/02	3/21/02	4/23/02	5/14/02	6/10/02	07/25/02	8/16/02	9/18/02
		1315	1327	1636	1531	1558	1527	925	1351	1415	1353	857	1535
Flow (cfs)	61	4.56	5.1	7.03	4.09	4.29	6.45	5.47	5.39	4.93	7.43	7.32	7.26
Fecal Coliform(org/100mL)	31616	348	380	**									
Suspended Solids(mg/L)	530	18.2	28.8	17.8	7.4	14.4	19.9	17	12.7	15.4	13.5	21.9	10.9
Turbidity(NTU)	82079	13	17	11	6	5.7	11	7	7.5	6.8	3.8	13	4.8
pH	400	7.46	7.33	7.48	7.69	7.74	7.77	7.49	7.61	7.73	7.7	7.22	7.4
Temperature(C)	10	23.28	21.38	19.85	19.34	31.54	21.88	21.14	21.07	24.66	25	23.1	24.8
Dissolved Oxygen(mg/L)	300	8	7.45	8.75	12.47	12.38	11.93	6.75	10.28	10.71	9.4	6.7	8.54
Conductivity(umhos/cm)	94	949	901	910	975	920	914	955	940	941	942	8.23	909
Total Phosphorus(mg/L)	665	0.06	0.09	0.19	0.08	12	0.07	0.04	0.03	0.02	18.2	0.08	0.09
Nitrate-N(mg/L)	630	10.4	8.3	10.3	11	11.2	10.9	11.6	9.95	12.8	0.03	10.4	13
Chloride(mg/L)	940		74.1	64	87	69	69.7	69.2	69	66.9	63.5	65.1	61.5
Sulfate(mg/L)	945		55.4	37.6	54.8	49.3	58.7	60.1	57	55.4	55.2	63.5	72.3
Total Hardness(mg/L)	900	332	326	318	305	350	358	292	323	363	350	356	316
Ammonia-N(mg/L)	610	0.03		<0.02		0.02		0.03		0.03		0.04	
E. coli(org/100mL)	31699	196	300	99	66	178	365	378	345	130	1203	579	65
Chlorophyll a(mg/m <sup>3</sup> )	32211		<1	<1	1.1	<1	<1	2.8	<1	1.1	2.3	11.6	13.4
Pheophytin(mg/m <sup>3</sup> )	32218			1	4.4	7	6.1	6.9	3.3	3.1	9.2	<1	<1

\*\*Fecal Coliform was dropped from the list of parameters analyzed. E. coli is used for the Water Quality Index (126 org/100mL).

TNRCC Segment  
 TNRCC Station  
 Station Number 14  
 Latitude 29/40/12

1804  
 14932  
 Geronimo Creek at SH 123  
 Longitude 97/57/53

Parameter	Parameter Code	Date and 24 hour time											*
		10/21/02 1645	11/20/02 1323	12/19/02 1630	1/9/03 902	2/27/03 1330	3/19/03 1407	4/16/03 1700	5/15/03 1513	6/25/03 1538	7/29/03 1435	8/19/03 1615	
Flow (cfs)	61	8.26	12.8	15.6	13.8	19.1	11.5	10.7	9.1	8.8	7.8	7.87	
E. coli(org/100mL)	31699	598	135	116	283	248	163	99	156	1497	98	1440	
Suspended Solids(mg/L)	530	33.8	6.3	14.7	8.2	17.7	11.8	5.3	9.3	10..4	9.1	9.3	
Turbidity(NTU)	82079	22	3.5	5.5	13	5.6	5.4	9	4.5	6.2	3	10.4	
pH	400	7.69	7.38	7.37	7.78	7.7	7.82	7.49	7.59	7.38	7.64	7.65	
Temperature(C)	10	21.5	20.4	19.5	17.9	15.6	20.8	23.7	24.8	26	25.1	26.4	
Dissolved Oxygen(mg/L)	300	7.6	10.21	9.73	10.5	11.8	12.3	11.4	11.3	9.65	7.94	11.5	
Conductivity(umhos/cm)	94	817	900	853	858	842	862	862	867	869	847	866	
Total Phosphorus(mg/L)	665	0.14	0.07	0.05	0.05	<0.05	0.06	<0.05	0.05	0.05	0.03	0.06	
Nitrate-N(mg/L)	630	7.7	11.8	11.8	11	10.6	11.8	10.8	12.2	12.6	8.8	11.4	
Chloride(mg/L)	940	50.5	52.5	48	44.4	43.4	43.8	46	44.4	42.3	44.8	44.1	
Sulfate(mg/L)	945	53.8	58.9	56.9	54.3	58.9	58.5	60.7	56.9	57.9	56.9	54.3	
Total Hardness(mg/L)	900	341	352	353	333	301	305	312	313	311	319	318	
Ammonia-N(mg/L)	610	0.02		<0.02		<0.02		0.02		0.02		0.02	
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	<1	<1	<1	<1	1.69	<1	<1	1.5	<1	<1	
Pheophytin (mg/m <sup>3</sup> )	32218	3.2	4.2	1.03	1.13	1.35	<1	2.32	5.73	<1	4.4	<1	

Parameter	Parameter Code	Date and 24 hour time										
		*This site was discontinued in Sept. of 2003										
Flow (cfs)												
E. coli(org/100mL)												
Suspended Solids(mg/L)												
Turbidity(NTU)												
pH												
Temperature(C)												
Dissolved Oxygen(mg/L)												
Conductivity(umhos/cm)												
Total Phosphorus(mg/L)												
Nitrate-N(mg/L)												
Chloride(mg/L)												
Sulfate(mg/L)												
Total Hardness(mg/L)												
Ammonia-N(mg/L)												
Chlorophyll a(mg/m <sup>3</sup> )												
Pheophytin (mg/m <sup>3</sup> )												